



# Creative Story-Tellers

## SDG in ECEC Framework





Promoting children's understanding of sustainable development through multimodal story-telling in Early Childhood Education and Care (ECEC)

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# 1 Introduction

## 1.1 About this document

Early Childhood Education and Care (ECEC) systems in Europe are shaped by diverse cultural, historical, and policy contexts, with governance varying between central, regional, or local levels. Despite these differences, there is a shared understanding that the early years of a child's life are critical for their overall development, laying the foundation for lifelong learning. Integrated and split ECEC systems prioritize quality standards in staff qualifications and learning environments, ensuring children's holistic cognitive, social, and emotional growth.

This document represents an initial step within the **Creative Storytellers** project, designed to build capacity among the project team and educators by simplifying the complexity of the United Nations' 17 Sustainable Development Goals (SDGs) for early childhood settings. The aim is to explore how these abstract global challenges, such as sustainability, equality, and peace, can be made accessible to young children through storytelling and creative educational approaches.

Storytelling is highlighted as a powerful tool for helping children understand and engage with the SDGs. By allowing children to create their own narratives and stories, educators can foster early awareness of global issues while nurturing critical thinking about the world they inhabit. As part of the Creative Storytellers project, the next phase will involve developing training programs and producing supporting documents to equip educators with practical tools and methodologies for effectively integrating the SDGs into early childhood education.

## 1.2 Methodology

This document analyzes the integration of the SDGs into ECEC using a structured approach to simplify these global goals. By focusing on their relevance to young children's well-being and development, the analysis helps educators identify key educational topics and challenges for each SDG. The framework is divided into three sections for each SDG:

- **Introduction to the SDG:** This section outlines the core objective of the SDG, its relevance to ECEC, and how it contributes to children's holistic well-being.
- **Educational Topics and Challenges:** It identifies key themes that can be incorporated into ECEC curricula. Educators are introduced to methods which can explain the SDG's importance to young children and are made aware of potential obstacles, including cultural or social factors that may affect its implementation.
- **Activities, Methods, and Tools:** This section offers practical examples of engaging activities, suitable teaching methods, and resources—such as successful initiatives, projects, but also books, games, or apps—that can support educators in delivering SDG-related content.



By following this structured analysis, the document aims to support educators in developing a deeper understanding of the SDGs and their integration into early learning environments. The **Creative Storytellers** project believes that by embedding the SDGs into ECEC through creative storytelling and hands-on activities, children can begin to understand their role in contributing to a more sustainable and just world.

## 2 The 5Ps framework

The 2030 Agenda for Sustainable Development unites three key areas where environmental and living standards are to be improved: the ecological, the social, and the economic domains. This classification acknowledges the diverse challenges that our world faces today and emphasizes the importance of promoting the well-being of the planet and the climate, alongside advancing social development and economic progress. Against this backdrop, five main themes, also known as the five "Ps," have been defined to create a comprehensive action plan (DemokratieWEBstatt, n.d.). These are Well-being of all people (People), Protection of the planet (Planet), Sustainable prosperity and progress (Prosperity), Peace (Peace), and Enhanced global cooperation (Partnership).

### 2.1 The Five "Ps" in Detail

**People:** The 2030 Agenda emphasizes the goal of ending poverty and hunger in all their forms and ensuring that all people can realize their potential in dignity and equality within a healthy environment. This includes access to work, housing, nutritious food, justice, and the opportunity to participate in a peaceful and secure society. Efforts under this theme focus on providing quality education, achieving gender equality, and ensuring healthy lives for all.

**Prosperity:** Promoting economic, social, and technological progress in harmony with nature aims to ensure that all people can enjoy a prosperous and fulfilling life. A stable economic system that considers ecological factors and respects human rights is essential for sustainable prosperity. This includes fostering innovation, building resilient infrastructure, and ensuring sustainable industrialization that benefits everyone, particularly the most vulnerable populations.

**Planet:** Protecting the planet is central to efforts to safeguard it from exploitation and pollution. Sustainable consumption and production, the management of natural resources, and actions against climate change are crucial to securing the livelihoods of current and future generations. This involves initiatives to reduce waste, promote renewable energy, and conserve biodiversity. The focus is on creating resilient societies that can adapt to environmental challenges.

**Peace:** Peace is a fundamental prerequisite for sustainable development. The agenda seeks to foster peaceful, just, and inclusive societies that are free from fear and violence. Without peace, sustainable development is not possible, and without sustainable



development, there can be no lasting peace. This theme covers efforts to promote justice, ensure effective governance, and build accountable institutions at all levels.

**Partnership:** Achieving the goals of the 2030 Agenda requires a global partnership. This partnership should be based on enhanced global solidarity and particularly address the needs of the poorest and most vulnerable. All countries, stakeholders, and people are called upon to actively participate in the implementation of the agenda. This involves strengthening international cooperation, mobilizing financial resources, and promoting the transfer of technology and capacity building to support all countries, especially developing ones, in achieving sustainable development.

The five "Ps" of the 2030 Agenda provide a structured framework to achieve the 17 Sustainable Development Goals and thereby create a sustainable future for all. By integrating social, ecological, and economic considerations, the agenda aims to address the root causes of poverty and inequality, protect the planet, and ensure prosperity and peace for all people. The success of this ambitious plan hinges on the collective efforts and strong partnerships at all levels of society, from local communities to global institutions.

The agenda with its 17 goals (and 169 sub-goals) is very comprehensive and in some cases very detailed. It contains many demands and sub-items that are not relevant to elementary education. To grasp the essence, the central statements and the structure of the SDGs, it is sufficient to put the (core elements) of sustainability into a meaningful context; this is done by naming the 5 Ps: no area is lost through this reduction, on the contrary, the umbrella terms make it easier to remember the content and the logic behind the goals becomes visible: people, nature, a good life for all, peace and global cohesion are at the center of the sustainability debate.

## 2.2 Education for Sustainable Development and Global Education and the relevance of the SDGs in Early Childhood Education

Values formation is described and experienced as an important part of kindergarten life. The values of the teachers play a major role here, as these are addressed indirectly via norms and rules in the interaction with the children and directly in the teamwork and work with parents. What is important to me, what ideas we consider important, is the basis for shaping our own lives. As a society, we also need values that we strive for together: these include social values (respect, equality, justice, ...) as well as behavior towards the environment (respect for resources, animal rights, ...). Many of the topics contained in the SDGs are directly related to values that should be taught in kindergarten anyway and are enhanced by explicitly addressing them.

The publication explains two concepts of value formation: Implicit value formation, which takes place by example through personal relationships in everyday kindergarten life and in social relationships through role models, and explicit value formation, when values and norms are spoken about directly, rules are worked out together and discussed together. Both

concepts complement each other and enable implicit experiences to be reflected upon and role models to become effective (Hildebrandt et Preissing, 2016, in :Werte leben, Werte bilden.).

The common understanding of values in kindergarten has its basis in the common EU Treaty. This states **respect for human dignity, freedom, democracy, equality, the rule of law, respect for human rights, non-discrimination, tolerance and justice, solidarity and equal rights for all genders** (Treaty on European Union, Art. 2). The Austrian Federal Constitution defines democracy, humanity, solidarity, peace and justice, tolerance as the basic values of schools - which can also apply to kindergartens. **Children should also acquire the skills to take responsibility for themselves and their fellow human beings, the environment and future generations - adapted to their level of development and as co-constructors of their own development.**

Due to their age, pre-school children are not able to judge the relevance of these many goals and topics to their lives and their future. Nevertheless, they can visualize the concepts of the 5 P's: they know and feel what people need, in most cases they are empathetic towards animals and interested in nature. They experience first-hand what it feels like to be in conflict or to interact peacefully with one another and enjoy socializing within groups of children that are often very diverse or multicultural. They can therefore understand that all of this is relevant for a good life on the planet – at least in their current everyday lives.

The question: '**What do you need to be well?**' and by extension: '**What do all children and all people in the world need?**' provides a good introduction to start a conversation about needs - from there it is then easy to move on to the 5 Ps and introduce these topics to the children. Working on the sustainability agenda in kindergarten makes it possible to transfer personal experiences to a wider context - educational programs that are as concrete as possible are a good prerequisite for this. Whether topics are offered by the teachers or are selected in a participatory manner according to the perceived interests of the children is another dimension that can be considered.

It would also be **important to involve parents** and familiarize them with the sustainability activities and the goals pursued by the teachers. They should be told why the kindergarten is dealing with the topic of *sustainable consumption* or *the marine habitat*, for example. **Parents should also be involved in the responsibility for these topics and be prepared that children might want to talk about that at home.**

## 3 People

### 3.1 SDG 1: No poverty

#### 3.1.1 Introduction to the SDG



No Poverty aims to end poverty in all its forms everywhere. It seeks to eliminate extreme poverty, defined in some global contexts as living on less than US \$1.25 a day, and to reduce by at least half the proportion of men, women and children living in poverty in all its dimensions by 2030. The goal also emphasises the implementation of nationally appropriate social-protection systems and measures, ensuring equal access to economic resources, and building resilience for the poor and vulnerable to economic, social and environmental shocks and disasters.

For early childhood education and care (ECEC), SDG 1 is highly relevant because early interventions can significantly reduce the risk of poverty in later life, support equitable access to opportunities, and thus contribute to broader societal and economic development. Research from UNICEF indicates that investment in early childhood development is one of the most cost-effective strategies for poverty alleviation: children receiving quality early care and education are more likely to flourish in health, learning and later productivity.

Children growing up in poverty are more likely to face malnutrition, stress, and lack of stimulation, all of which can impair cognitive, emotional and physical development. Quality ECEC programmes help mitigate these effects by providing nutritious meals, a safe environment and stimulating activities that promote holistic development. Moreover, families under economic strain often have fewer resources to support children's learning and development; ECEC can act as a buffering system supporting families and children.

Access to and participation in quality ECEC also ensures children, regardless of socioeconomic status, have the opportunity to engage in early learning and care – thereby creating a level playing field and fostering social equity. According to a report by the Organisation for Economic Co-operation and Development (OECD) on reducing inequalities through ECEC, socio-economic gaps in participation and quality of services remain a major barrier in many countries.

In sum, by reducing poverty and its inter-generational effects, SDG 1 creates the conditions necessary for young children to thrive physically, cognitively, emotionally and socially. When children are supported in early years, the foundation is laid for their future well-being and development – and the foundations of a more equitable society are strengthened.

#### 3.1.2 Educational Topics and Challenges

Incorporating themes related to SDG 1 – No Poverty into Early Childhood Education and Care (ECEC) helps young children develop an early understanding of fairness, empathy, and social responsibility. Through guided experiences and storytelling, children can begin to make sense of how people's needs differ and how communities support each other. This

early moral and social learning sets the foundation for engaged and compassionate citizenship later in life.

ECEC educators play a vital role in making these ideas tangible. At this age, children cannot yet comprehend global or structural poverty, but they can understand what it means to have and not have, to share, and to care. By connecting these abstract ideas to familiar experiences—food, play, friendships, and fairness—educators can help children build empathy and cooperation, both core competences for sustainable living.

Below are core educational themes and examples of learning approaches that can be integrated into the ECEC curriculum, aligned with the CST Framework's People dimension.

### Basic Needs and Well-being

**Theme:** Understanding that everyone needs food, shelter, love, and care to be safe and happy.

**Activities:**

- Discuss with children what they need to feel good each day—food, water, warmth, play, friendship.
- Compare pictures of different living situations (urban/rural, local/global) and talk about similarities and differences.
- Create a “What makes me feel safe” collage with drawings and photos.

**Learning focus:** Recognising that some people may not have the same access to these needs, and that caring communities help meet them.

### Community and Sharing

**Theme:** Recognising that everyone is part of a community where sharing and cooperation make life better.

**Activities:**

- Organise a “sharing circle” where children exchange toys, art materials, or stories.
- Create a “community puzzle” where each child contributes one piece symbolising what they bring to the group.
- Invite parents or grandparents to tell short stories about helping in their neighbourhood.

**Learning focus:** Cooperation, group identity, belonging, and the idea that collective action supports everyone's well-being.



## Diversity and Inclusion

**Theme:** Understanding that people are different but equal, and learning to appreciate those differences.

### Activities:

- Read illustrated stories showing children from various cultural and family backgrounds (UNICEF's Stories of Children Around the World or similar).
- Discuss different types of homes, foods, or games; create an "Our Differences, Our Strengths" mural.
- Encourage children to greet one another in multiple languages spoken in their group.

**Learning focus:** Inclusion, respect, and positive curiosity about others—key to breaking cycles of discrimination and exclusion linked to poverty.

## Fairness and Justice

**Theme:** Exploring what it means to be fair in everyday life.

### Activities:

- Play simple games where resources are distributed unevenly, then discuss how it felt ("Who had more?" "Was it fair?" "How can we fix it?").
- Reflect on daily examples: snack time, turn-taking, playtime.
- Create class rules about fairness together and illustrate them in a storybook.

**Learning focus:** Moral reasoning, democratic values, and early understanding of equity—how fairness connects to kindness and justice.

## Economic Awareness

**Theme:** Introducing the idea that resources are limited and money represents exchange.

### Activities:

- Set up a pretend shop with toy money; children decide what things cost and how to "earn" coins through helpful tasks.
- Talk about saving for something special versus instant gratification.
- Connect to sustainability: not buying or wasting what we don't need.

**Learning focus:** Early numeracy and resource awareness framed around fairness and needs rather than consumption.



## Sustainability and Resource Management

**Theme:** Linking poverty to sustainable resource use—understanding that waste and over-consumption can harm others' access to basic needs.

### Activities:

- Run a “food heroes” week on not wasting snacks or lunches.
- Visit a local garden or recycling centre to observe how resources are cared for and reused.
- Sort classroom waste into recycling, compost, and reuse bins; track how much waste is reduced each week.

**Learning focus:** Responsibility, stewardship, and the idea that careful use of resources benefits everyone and the planet.

## Caring for Others

**Theme:** Encouraging responsibility and prosocial action in daily routines.

### Activities:

- Assign daily “kindness helpers” or “class carers” who assist peers or tidy shared spaces.
- Create art projects expressing care—heart drawings, “helping hands” collages, or videos showing kind actions.
- Collect ideas for helping at home and compile them in a class “Caring Book.”

**Learning focus:** Cooperation, empathy in action, and collective responsibility within the classroom and beyond.

## Understanding Poverty

**Theme:** Introducing the idea that some people do not have enough of what they need.

### Activities:

- Use gentle, age-appropriate picture books such as *A Chair for My Mother* (Vera B. Williams) or *Those Shoes* (Maribeth Boelts) to prompt discussion.
- Use visual aids—photos, drawings, or dolls—to talk about everyday needs and how people help each other meet them.
- Encourage children to imagine solutions: “If your friend didn’t have a coat, what could we do?”

**Learning focus:** Awareness, empathy, and active thinking about fairness and care rather than fear or pity.



## Global Awareness

**Theme:** Understanding that differences in resources and opportunities exist around the world.

### Activities:

- Use maps, globes, or photos to compare how children live, eat, and play in different regions.
- Introduce a “Children of the World” week with songs, crafts, and storytelling from various countries.
- Connect to SDG symbols (the coloured icons) and explain that people everywhere work together for fairness.

**Learning focus:** Building global citizenship and recognising shared humanity, aligning with the CST principle of “children as global storytellers.”

## Educators' Role and Pedagogical Challenge

Educators have the responsibility to explain SDG 1 in ways that foster empathy, social responsibility, and inclusion without evoking guilt or pity. They can say, for instance:

*“Imagine if you didn’t have enough food for breakfast or if your friend had no toys. What could we do to help?”*

Relating poverty to everyday experiences—sharing snacks, helping friends, or tidying shared areas—makes the concept concrete and emotionally accessible. Children begin to understand having enough as a collective condition, not an individual privilege.

By integrating these topics into storytelling, play, and project work, teachers nurture the values of fairness, cooperation, and compassion. These early experiences help children internalise SDG 1’s deeper message: that a just and caring community starts with everyday actions in which everyone can contribute.

### 3.1.3 Activities, Methods, and Tools for this SDG

Storytelling is an effective tool in early childhood education, especially for explaining poverty. Through stories, children can learn about characters who face challenges related to poverty or who help others, which makes the concept relatable and age appropriate. For example, a story about a bear without enough food for winter and how his friends help can illustrate poverty in an engaging way.

In addition to storytelling, role-playing and interactive activities help children internalize these lessons. Educators can create scenarios where children share resources or figure out how to help someone in need. For instance, a teacher might organize a role-playing game



where children decide how to divide a small amount of food fairly. These activities not only make learning fun but also develop a sense of fairness, empathy, and community.

Visual aids, such as pictures, drawings, or videos, can make abstract concepts like poverty more tangible. Showing images of children from around the world and explaining that some lack necessities helps children visualize poverty and understand the importance of helping others. Connecting everyday actions to this broader concept can reinforce the lessons. For instance, educators can teach children that not wasting food, being kind, or donating toys are ways to help reduce poverty. A message like "When you don't waste food, you're helping make sure everyone has enough" can help children see how their actions matter.

Teaching fairness and justice is another important aspect of SDG 1. Educators can discuss fairness with examples relevant to the children's lives, such as explaining that it's unfair if one person has too many toys while another has none. This helps children develop a sense of justice and why it's important to ensure everyone has what they need. Encouraging empathy is also key to helping children understand SDG 1. Educators can ask children to imagine how they would feel without enough resources and how they can help others. A teacher might ask, "How would you feel if you didn't have any food? How can we help people who feel like that?" This reflection fosters empathy and a desire to help.

Teaching children that communities work together helps them understand their role in something larger. A teacher might say, "In our community, we help each other, just like we all clean up together after playtime." This reinforces the idea that everyone has a role in creating a fair and just society.

Educators also teach about basic needs, such as food, water, and shelter, to show why everyone must have access to these essentials. Themes of fairness and equality are emphasized, alongside the importance of helping others. Teaching about the responsible use of resources, such as not wasting food, ties into sustainability and global citizenship, helping children understand that poverty is a global issue and their actions can contribute to making a difference worldwide. These lessons not only help children understand poverty but also inspire values of empathy, fairness, and responsibility, laying a foundation for a more just future.

### Activities:

- **Storytelling and Discussions:** Share picture books and stories that touch on fairness, sharing and children's rights in Europe (e.g., via the Council of Europe "Composito – Manual on human rights education for children" which includes a chapter on poverty). Encourage children to discuss how characters help each other and what they themselves might do.
- **Empathy Projects:** Engage children in creating small "kindness boxes" or care packages (toys, drawings) for local community organisations (e.g., children's centres or shelters). This helps children concretely act on awareness of need.
- **Role-Playing Scenarios:** Let children play roles – e.g., a family saving money, a community helper, a child sharing resources – to explore situations of scarcity and support within a safe classroom setting.

- **Service Learning** (Scaled for ECEC): Involve children (with educator/family guidance) in simple community caring actions: planting a classroom “sharing” vegetable patch; organising a toy or book exchange with a partner preschool; inviting a neighbour into the preschool to share their story of helping others.

- **Simulations:** Use simplified budgeting or resource games: e.g., “Lunch & Play” game where children decide how to use a small set of pretend coins for lunch, play materials, helping a friend – and then reflect on what happened if some children had fewer coins. European links: the Aflatoun International social-financial education programme from the Netherlands offers age-appropriate resource awareness.

- **Global & Local Awareness Projects:** Explore how children’s lives vary across Europe and beyond. Use European-wide statistics and visual materials (e.g., from the Eurochild network) about child poverty and inclusion. Then connect to the children’s own community: What kind of needs and sharing happen here?

### Teaching Methods:

- **Story-Based Learning:** Use narrative and picture books to anchor abstract concepts (fairness, sharing, help) into child-friendly contexts. Then invite children to recreate or extend the story (drawing, acting, recording).

- **Interactive Discussions:** Facilitate guided discussions where children share ideas and feelings about fairness, inclusion, help: e.g., “What would you feel if you didn’t have this toy? What could friends do to help?” Encourage language of empathy and action.

- **Visual Aids and Media:** Incorporate charts or pictorial resources showing e.g., children in different European communities, or infographics from European sources on child poverty. For example, the Council of Europe resource states: “one in three children in Europe is deprived in two or more ways...”. Use videos, images, photo stories to make the topic concrete.

- **Experiential Learning:** Provide first-hand, scaffolded experiences (role play, class projects, simulation games) so that children engage actively rather than passively. This is supported by European ECEC inclusion toolkits emphasising “action and participation” in tackling disadvantage.

- **Collaborative Learning:** Encourage group work and peer-sharing: children plan and create together, reflect together on fairness and help. This supports social learning – especially relevant for children from diverse backgrounds.

- **Reflective and Participatory Dialogue:** After each activity invite children to reflect: “How did we feel?” “What would we do differently next time?” This helps deepen understanding and links to sustainable behaviour rather than one-time acts.

### Tools and Resources:

#### Books

- Those Shoes by Maribeth Boelts – introduces themes of need vs. want and kindness;

- A Chair for My Mother by Vera B. Williams – family saving, cooperation; good basis for discussion.
- The Composito manual “Poverty” chapter (Council of Europe) for educators and older children.

#### Games / Simulations:

- Adapted board-games: Use Monopoly Junior or simplified “resource allocation” games to provoke discussion of fairness and limited resources – specify and scaffold the discussion for young children.
- Financial education tools: Aflatoun’s programmes in Europe teach children about “rights & responsibilities” and use child-appropriate games for resource awareness.
- Apps like [\\*Fairy Tales\\*](#) by iApps4U can teach empathy and inequality.

#### Technology / Digital Tools:

- Interactive apps: use apps that teach social-emotional awareness and empathy; ensure age-appropriate and localisation.
- Educational videos: UNICEF Europe & Central Asia has materials on “Ending child poverty” for teaching.

#### Online Resources / Toolkits:

- “Toolkit for Inclusive Early Childhood Education and Care” ([European Union publication](#)) emphasises inclusive pedagogy for children facing poverty or disadvantage.



## 3.2 SDG 2: Zero hunger

SDG 2, Zero Hunger, focuses on eradicating hunger, achieving food security, improving nutrition, and promoting sustainable agriculture by 2030. It emphasizes ensuring everyone, especially vulnerable populations, has reliable access to nutritious food year-round. For Early Childhood Education and Care (ECEC), proper nutrition is essential for children's physical, cognitive, and emotional development. By educating young children about healthy eating and sustainable food practices, ECEC plays a vital role in fostering lifelong habits that align with the broader goals of food security and sustainability.



### 3.2.1 Introduction to the SDG

The Zero Hunger Sustainable Development Goal (SDG) aims to eradicate hunger, achieve food security, improve nutrition, and promote sustainable agriculture by 2030. Its goal is to ensure reliable access to sufficient, nutritious food year-round, especially for vulnerable populations, including children. Beyond food availability, it emphasizes sustainable agricultural practices and enhancing small-scale farmers' productivity to support long-term food security.

SDG 2 is highly relevant to Early Childhood Education and Care (ECEC) because proper nutrition is essential for young children's physical growth, cognitive development, and overall well-being. In many ECEC settings, meals and snacks are vital to children's health and development. Ensuring these are nutritious directly supports their growth and learning abilities, while ECEC programs also provide a platform to educate children about healthy eating habits, establishing lifelong positive dietary practices.

Incorporating discussions about food security and nutrition into ECEC curricula raises awareness among children about food inequality, fostering empathy and an understanding of equitable food access. Additionally, ECEC settings can introduce concepts like sustainable agriculture and environmental stewardship, promoting awareness of how these practices contribute to long-term food security.

The Zero Hunger SDG plays a key role in supporting children's overall development. Adequate nutrition strengthens immune systems, enhances cognitive function, and supports physical growth. Conversely, nutritional deficiencies can impair cognitive abilities and delay development. Beyond physical health, proper nutrition enables children to engage in learning activities and develop critical thinking skills. A stable food environment also promotes positive emotional development, while food insecurity can cause stress and anxiety, impacting children's ability to focus in educational settings.

Educating young children about healthy eating and sustainable food practices is essential for fostering informed choices that support long-term health and sustainability. By incorporating these lessons into ECEC programs, educators help shape a healthier, more responsible future generation.



### 3.2.2 Educational Topics and Challenges

Integrating SDG 2 – Zero Hunger into Early Childhood Education and Care (ECEC) is vital for developing early awareness of food, health, fairness, and sustainability. Children's experiences with eating, growing, and sharing food provide rich opportunities to learn about care for themselves, others, and the planet. The aim is to help children understand that nutritious food is essential for life and that everyone should have access to it – linking personal well-being to social and environmental responsibility.

#### Basic Nutrition and Healthy Eating Habits

Educators can introduce the idea that food gives energy and helps our bodies grow. Using simple language and visual materials, they can teach about food groups – fruits, vegetables, grains, proteins, and dairy – and explain why variety matters. Practical activities such as preparing simple snacks or creating a “rainbow plate” collage support learning.

European health and nutrition initiatives such as the EU School Fruit, Vegetables and Milk Scheme or WHO Europe's “Food and Nutrition Policy for Schools” provide accessible models and educational materials that promote balanced eating from early childhood.

#### Food Origins and Production

Helping children understand where food comes from connects nature, science, and sustainability. Educators can explore farm-to-table stories, plant small garden beds, or visit local markets. These experiences strengthen children's connection with nature and local communities, key components of Education for Sustainable Development (ESD).

ECEC centres across Europe increasingly use school gardens as hands-on tools for environmental literacy and nutrition education, supported by organisations such as Eco-Schools Europe and Slow Food's “Food for Change” campaign.

#### Sustainability and Responsible Consumption

Teachers can discuss why it is important to care for food and not waste it, linking to SDG 12 (Responsible Consumption and Production). Simple habits such as serving only what one can eat, saving leftovers, or composting teach children stewardship and respect for resources. Projects like the European “Love Food Hate Waste” initiative offer visual materials that can be adapted for early learners.

#### Fairness, Sharing, and Community

The Zero Hunger goal connects naturally to values of fairness and empathy already familiar from SDG 1. Educators can highlight that “everyone should have enough to eat” and that sharing is a way of caring. Group snack routines, communal cooking, or “harvest days” reinforce this sense of community responsibility.

#### Global Food Awareness

Children can begin to understand that food is not equally available everywhere. Using maps, photos, and stories, educators can gently introduce the idea that some children in other places may not always have enough. European resources such as UNICEF Europe's child-



friendly materials on global food and nutrition and FAO's "World Food Day for Schools" toolkit help convey these ideas in accessible ways.

### Cultural and Socioeconomic Sensitivity

Food carries deep cultural meanings. Educators must navigate dietary habits, allergies, and family food practices respectfully. Discussions of hunger and scarcity should avoid stigmatising families who may experience economic hardship. Instead, the emphasis should be on community care and solidarity.

### Cognitive Developmental Considerations

For children aged 3–6, abstract ideas like "global food security" must be simplified into concrete experiences. Children at this stage learn best through direct sensory exploration – planting, cooking, tasting, and storytelling. Concepts such as "everyone needs food to grow" or "we share to make sure all have enough" are age-appropriate starting points that introduce the deeper meaning of Zero Hunger.

## 3.2.3 Activities, Methods, and Tools for this SDG

Helping children understand where food comes from, how it nourishes us, and why everyone should have enough is a central step in implementing SDG 2 – Zero Hunger in Early Childhood Education and Care (ECEC). Practical and creative learning activities help children link healthy eating and sustainability to their everyday lives. Storytelling, sensory exploration, and collaborative projects make the topic tangible and emotionally engaging, while also promoting scientific curiosity and environmental awareness.

### Activities

#### Interactive Storytelling and Picture Books

Stories about food, growth, and care for nature can introduce key ideas about nourishment and fairness.

- The Empty Pot (Demi) illustrates patience, integrity, and respect for natural growth.
- The Very Hungry Caterpillar (Eric Carle) provides a playful way to discuss healthy eating, growth, and transformation.
- Teachers can invite children to create their own "Food Journey" stories – for example, "From Seed to Salad" – combining drawings, photos, and recorded narration.

#### Gardening and Growing Projects

Setting up a small garden, balcony planters, or indoor seedlings helps children see how food grows and builds care for living things.

- Examples include Eco-Schools' Garden Projects and the Slow Food "Orto in Condotta" (Garden at School) initiative, both offering teacher guides and activity plans.
- Activities: plant herbs, lettuce, or tomatoes; observe growth; discuss water and sunlight needs; harvest and taste.
- Linking to sustainability, children learn that soil, water, and care are shared resources.

## Cooking and Tasting Workshops

Simple, safe cooking sessions allow children to connect nutrition with cultural diversity and cooperation.

- Examples: making fruit salads, soups, or sandwiches with local produce.
- Integrate recipes from partner countries to celebrate European food cultures and reduce bias towards familiar foods.
- Discuss what makes a meal healthy and how different foods help the body.

## Food Waste Awareness Activities

Reducing food waste connects directly to SDG 12 and strengthens children's sense of responsibility.

- Activities: track leftover snacks for a week; create a "no-waste day"; reuse fruit peels for compost; make art from recycled food packaging.
- Discuss in simple terms: "If we throw away food, there is less for others."
- Support materials include the EU "Love Food, Hate Waste" campaign and FAO's "Do Good: Save Food" toolkit for schools.

## Role-Play: "From Farm to Table"

Through imaginative play, children can experience the many roles involved in food systems – farmers, bakers, transporters, market sellers, cooks, and families.

- Use props: baskets, aprons, toy vegetables, scales, play money.
- Discuss the effort behind each step: "Who helped bring the bread to our table?"
- Emphasise cooperation and appreciation for all contributors in the chain.

## Food Maps and Global Awareness Corners

Using child-friendly maps and images, educators can show where common foods originate (bananas, rice, wheat, olives) and what grows locally.

- Activities: “Food travels” game (string from food picture to country on the map).
- Discuss why food might be easier or harder to find in different places and how weather, soil, and work affect it.
- Use visual materials from UNICEF Europe and FAO “World Food Day” educational packs to support discussion.

### Creative Art Projects – “Food for All”

Encourage expression through arts: collages of favourite healthy foods, “rainbow plates”, clay fruits, or puppet plays about food journeys.

- Digital extension: create a class e-book or video story, “We Grow, We Share, We Care,” combining photos and voice recordings.
- Display the projects during the SDG Fest or parents’ day.

### Teaching Methods

**Project-Based Learning:** Organise small projects around food production, preparation, and sharing. For example, a “Little Gardeners” project can include seed planting, growth observation, and recipe preparation. This approach connects science, art, and social learning while cultivating persistence and teamwork.

**Experiential Learning:** Allow children to explore with all senses – touching soil, smelling herbs, tasting fruits – to internalise the idea that food is precious and interconnected with nature. European frameworks such as the Learning for Well-Being Foundation’s early-years guidelines emphasise the value of sensory learning in developing respect for natural systems.

**Inquiry-Based Learning:** Use questioning as a central method:

- “What does a seed need to grow?”
- “Why shouldn’t we waste food?”
- “What happens if there isn’t enough rain?”

This approach links cognitive curiosity with sustainability literacy.

**Storytelling and Multimodal Media:** Combine oral storytelling, illustration, song, movement, and digital tools to let children express what they learn about food and care. Story apps like Puppet Pals or Book Creator can help capture children’s voices and reflections.



**Collaborative and Intergenerational Learning:** Invite parents, grandparents, or community gardeners to share traditional recipes or planting techniques. Such exchanges build bridges between generations and foster appreciation of cultural diversity in food practices.

## Tools and Resources

### Books

- The Empty Pot – Demi  
A classic picture book emphasizing honesty and patience with a food-related theme.

[\*\*Penguin Random House listing\*\*](#)

- Thank You, Omu! – Oge Mora  
Celebrates generosity and sharing food in a multicultural community context.

[\*\*Oge Mora's official site/book details\*\*](#)

- We Are What We Eat – Christine Lewicki & Clémentine Sautereau  
French-language book about food, family, and cultural eating practices.

[\*\*Éditions Rue du Monde | Publisher catalog\*\*](#)

- What's on Your Plate? – Whitney Stewart (Barefoot Books)  
Explores global eating habits and nutrition, suitable for intercultural learning.

[\*\*Barefoot Books listing\*\*](#)

- Eating the Alphabet – Lois Ehlert  
An illustrated guide to fruits and vegetables from A to Z, ideal for nutrition lessons.
- How Did That Get in My Lunchbox? – Chris Butterworth  
Explains food origins and journeys using simple story format.

### Games and Kits

- “From Seed to Table” classroom kits (FAO or local NGO versions)  
Teaching practical food cycles and sustainability through hands-on activities.

[\*\*FAO teaching kit details\*\*](#)

- “Food Group Sorting Game”  
Engage children in classifying foods by groups using printouts or real items.

[\*\*DIY game ideas - Super Healthy Kids\*\*](#)

- Eco-Schools “Food for Thought” resources  
Toolkit for project-based learning about sustainable food choices in schools.

[\*\*Eco-Schools UK toolkit\*\*](#)



- MyPlate Match Game  
Interactive nutrition games from USDA MyPlate, adaptable for classroom use.
- Farm-to-School Activity Sheets  
Free printable sheets from national farm-to-school organizations for food education.

## Technology and Digital Tools

- Toca Kitchen (app)  
Child-friendly cooking and recipe exploration app.  
[\*\*Toca Boca official page\*\*](#)
- Gro Garden (app)  
Game focusing on gardening, composting, and food production.  
[\*\*Gro Play app page\*\*](#)
- iBiome – Wetlands (Canadian eco-ed app)  
Explores ecological systems, including the role of wetlands in food chains.  
[\*\*Springbay Studio: iBiome Wetland app\*\*](#)
- Stop-motion video ideas  
Use for creating visual storytelling about food journeys.  
[\*\*BBC Bitesize guide\*\*](#)
- Tinybop's The Everything Machine  
Explore food and science connections in a playful app.
- PBS Kids Games – Food & Health section  
Interactive web games on food groups, safety, and health.

## Online Resources

- FAO World Food Day Educational Toolkit  
Comprehensive learning materials for celebrating and exploring food issues.  
[\*\*FAO toolkit\*\*](#)
- UNICEF Europe & Central Asia – Nutrition Education Materials  
Evidence-based resources and activities for kids.  
[\*\*UNICEF nutrition hub\*\*](#)
- EUFIC (European Food Information Council)  
Multilingual nutrition guides and interactive teaching activities.  
[\*\*EUFIC classroom resources\*\*](#)



- Eco-Schools Europe – lesson ideas  
International resources for food sustainability education.

### [Eco-Schools lesson ideas](#)

### Educational Videos

- National Geographic Kids: "Where Our Food Comes From"  
Short, child-friendly explorations of origin stories behind everyday foods.  
[National Geographic Kids "Food" playlist](#)
- BBC Teach: "Hands Up! Let's Eat"  
Video lessons about food traditions and nutrition for schools.  
[BBC Teach video](#)
- Sesame Street: Healthy Eating Videos  
Engaging clips with well-known characters teaching food and nutrition.  
<https://sesameworkshop.org/resources/eating-well/>

## 3.3 SDG 3: Good health and well-being

### 3.3.1 Introduction to the SDG



SDG 3 seeks to ensure healthy lives and promote well-being for all at every age. Its objectives include reducing child mortality, improving maternal health, combating communicable and non-communicable diseases, and supporting mental health and emotional resilience. Health is not merely the absence of illness but a state of physical, emotional, and social well-being – a condition in which children can grow, play, and learn.

This goal is particularly significant for Early Childhood Education and Care (ECEC), where lifelong habits, attitudes, and values toward health are formed. Research from the World Health Organization (WHO Europe) and the European Commission's "Health 2020" framework highlights that preventive and health-promoting measures in early years have the strongest long-term impact on individuals and societies. Healthy children learn more effectively, form secure relationships, and are better equipped to contribute to sustainable communities.

In ECEC settings, health and well-being encompass several interconnected dimensions:

- Physical health, supported through nutrition, hygiene, rest, and movement;
- Mental and emotional health, promoted through safety, belonging, and supportive relationships; and

- Social well-being, strengthened by empathy, cooperation, and positive peer interaction.

Embedding SDG 3 in daily practice means integrating health education, active play, and emotional literacy into every aspect of the learning environment. For instance, routines such as handwashing, teeth-brushing, balanced meals, outdoor play, and sufficient rest foster physical well-being. Meanwhile, mindfulness games, relaxation exercises, or “feelings circles” encourage children to recognise and manage emotions. Storytelling can also serve as a gentle tool for introducing themes such as caring for one’s body, feelings, and friendships – connecting SDG 3 to CST’s creative and holistic approach.

High-quality ECEC can mitigate health inequalities by providing all children – regardless of background – with equal access to nutritious food, safe play, and responsive emotional care. According to UNICEF Europe and the European Child Guarantee (2021), early investment in these areas helps prevent developmental delays and reduces disparities later in education and health outcomes.

Educating children about health and well-being from an early age therefore has a transformative effect: it empowers them to take care of their bodies and minds, respect others, and recognise that a healthy life is linked to fairness and sustainability. In the context of the CST Framework, SDG 3 lays the foundation for a generation that values balance, resilience, and collective well-being – key ingredients for both personal fulfilment and a sustainable future.

### 3.3.2 Educational Topics and Challenges

Health is a cornerstone of human development and a prerequisite for education, productivity, and well-being. Healthy children can participate actively in learning and play; healthy adults can work, care for others, and engage in their communities. Consequently, **good health and well-being are fundamental human rights** and essential to sustainable development. SDG 3 therefore connects directly with poverty reduction, education, and equality – issues already introduced in the previous goals.

#### Main Themes of SDG 3

##### 1. Prevention of Illness

Children can begin to understand the importance of hygiene, movement, and healthy food for keeping their bodies strong. This involves learning daily habits such as washing hands, brushing teeth, resting, and engaging in active play. Preventive health education also includes building emotional awareness – knowing how to calm down, ask for help, or resolve conflicts. Across Europe, programmes such as the **WHO “Schools for Health in Europe (SHE) network** and the **EU Action Plan on Childhood Obesity** emphasise prevention through early education, nutrition, and physical activity.

##### 2. Strong Health Institutions

Even young children can begin to grasp that everyone needs doctors, nurses, and hospitals to stay healthy. Educators can simplify this concept through play and storytelling – for example, setting up a pretend doctor's office or inviting a nurse to visit the classroom. These activities help children appreciate that health care is a shared community service.

### 3. Autonomy and Bodily Awareness

While complex topics such as reproductive health are suited to older children, early education can already support bodily autonomy and self-respect. In ECEC, this means helping children name their body parts correctly, understand personal boundaries, and know that they can seek help if they feel unwell or unsafe. Developing this autonomy lays the groundwork for self-confidence and later informed decision-making.

#### ECEC Focus: Building Foundations for Well-Being

Because many health-related aspects of SDG 3 exceed the cognitive reach of preschoolers, ECEC focuses on the *building blocks of well-being*. According to early childhood curricula across Europe – such as the **Norwegian Framework Plan for Kindergartens (2023)**, the **German Bildungspläne**, and **UNESCO's Early Childhood Care and Education Guidelines (2021)** – the goal is to help children:

- recognise their **physical and emotional needs**,
- practise healthy routines,
- develop **self-regulation and resilience**, and
- experience joy, belonging, and purpose in daily life.

#### Key Educational Concepts for ECEC

##### Physical Health

Developing a positive relationship with movement and the body is central to well-being.

- Children should have daily access to outdoor play and movement-rich environments.
- Educators can provide activities that promote balance, coordination, and strength – climbing, dancing, throwing, yoga, or obstacle courses.
- Play-based physical activity fosters not only health but also cooperation and confidence.

##### Healthy Food and Nutrition

Children learn about healthy eating through participation rather than instruction.

- Preparing snacks together, tasting new fruits, and discussing where food comes from reinforce positive habits.



- In line with **WHO Europe's nutrition guidelines for preschools**, meals and snacks should model balanced, low-sugar, and culturally diverse diets.
- Educators can discuss moderation rather than restriction, emphasising variety and enjoyment.

## Mental and Emotional Health

ECEC settings can actively nurture children's emotional resilience by fostering empathy, friendship, and self-efficacy.

- Activities like "feelings circles," relaxation exercises, or guided breathing teach emotional regulation.
- Educators can use stories and puppetry to discuss feelings of sadness, anger, or fear, helping children identify emotions and find strategies to manage them.
- A culture of appreciation – celebrating effort and kindness – supports a sense of belonging and self-worth.

## Self-Awareness and Self-Care

Learning to recognise one's own needs is an early form of health literacy.

- Children can learn to express hunger, tiredness, or discomfort and seek support appropriately.
- Simple self-care activities (covering a small wound, getting a tissue, asking for a hug) foster independence.
- Teaching bodily awareness also means establishing trust: children know they can approach educators or family members when something feels wrong.

## Resilience and Purpose

Health is not only about avoiding illness but also about the capacity to cope with challenges.

- Educators can encourage persistence through problem-solving play, teamwork, and celebrating "trying again."
- Storytelling about overcoming obstacles (for example, a character learning to ride a bike or finding courage) promotes confidence and a growth mindset.
- This ties to CST's broader aim of nurturing creativity, self-expression, and inner balance as foundations for sustainable well-being.

## Cultural and Social Context

Perceptions of health and healthy living are influenced by cultural values, socioeconomic realities, and access to resources. In some families, time, space, or finances for organised sports or organic food may be limited. Recognising and respecting these differences is crucial to inclusive health education.



The **COVID-19 pandemic** further shaped global and European perspectives on health and hygiene. Early childhood centres now emphasise handwashing, ventilation, and community care as everyday expressions of responsibility toward others. Children growing up in this context can learn that protecting one another's health is a collective act of care – a message directly aligned with SDG 3.

### Pedagogical Challenge and Vision

Introducing SDG 3 in ECEC requires balancing complexity with simplicity. While global health systems or reproductive rights are too abstract for preschoolers, educators can build the emotional and behavioural foundations that make later understanding possible. Through everyday routines, play, and creative expression, children learn to:

- take care of their bodies,
- respect others' well-being,
- express feelings and seek help, and
- understand that being healthy helps them participate fully in life and community.

By addressing these themes, educators equip children with essential tools for physical and emotional well-being in an uncertain and changing world. Healthy, confident, and connected children form the cornerstone of resilient, compassionate, and sustainable societies – precisely the vision at the heart of **SDG 3: Good Health and Well-Being**.

### 3.3.3 Activities, Methods, and Tools for this SDG

Physical activity, balanced nutrition, and mental well-being are integral elements of early childhood education. Movement, play, and creativity help children understand their own bodies and emotions while promoting a sense of joy and belonging. Although traditional exercises such as gymnastics or nutrition lessons are useful, **storytelling, music, and sensory experiences** can make SDG 3 – *Good Health and Well-Being* – come alive in imaginative and age-appropriate ways.

The following activities and methods build on the principles of **experiential, participatory, and holistic learning** that are emphasised in European frameworks such as the WHO "Schools for Health in Europe (SHE)" network, UNESCO's Early Childhood Education for Sustainable Development Guidelines, and national *Bildungspläne* and *Curriculum Frameworks for Early Years*.

#### Activities

##### 1. Movement Stories and Music Journeys

Storytelling through movement combines imagination, rhythm, and body awareness.

- Example: Tell a story of a small seed awakening in spring, stretching toward the sun, feeling wind and rain, and finally growing into a strong tree.
- Children use their bodies to express each stage, accompanied by gentle music or percussion.

- Classical programme music such as Vivaldi's "Four Seasons" or Saint-Saëns' "Carnival of the Animals" can inspire children to move in ways that reflect different moods or natural phenomena.
- Learning focus: body awareness, rhythm, and emotional expression through physical movement.

## 2. Themed Gymnastics Landscapes

Educators design obstacle courses or "movement landscapes" that integrate storytelling with physical challenges.

- Example: *Journey to the North Pole*: children climb over "icebergs" (mats or climbing frames), jump across "ice patches" (hoops), and feed "polar bears" (rings) with "fish" (balls).
- Movement tasks can reflect SDG themes such as caring for animals, cooperation, and endurance.
- Learning focus: gross-motor development, coordination, teamwork, and persistence.

## 3. Theme Walks and Sensory Excursions

Outdoor learning strengthens both physical health and emotional connection with nature.

- During a forest walk, educators can weave simple stories ("Can we find five different leaves for the hedgehog's bed?").
- Children act out animals preparing for winter, experiencing textures, smells, and sounds of nature.
- Reflection circles afterward allow children to describe sensations ("How did it feel to be covered in leaves?").
- Learning focus: mindfulness, sensory perception, and appreciation of natural environments.

## 4. Little Fruit Detectives

This investigation-based activity connects nutrition, observation, and creativity.

- Children explore fruits and vegetables: their colours, textures, tastes, and origins.
- They document findings through drawings, photos, or storytelling, creating a "Healthy Food Detective Book."
- Extension: compare imported and local foods, linking to sustainability and fairness.
- Learning focus: curiosity about healthy foods, understanding diversity of produce, and sensory discovery.



## 5. “Feelings Interviews” – Exploring Self-Awareness and Self-Care

Emotional well-being can be cultivated through reflection and dialogue.

- The educator starts by interviewing children: “*What makes you happy?*” “*What do you do when you feel sad or tired?*”
- As confidence grows, children interview each other using tablets or cameras, recording short “emotion videos.”
- Follow-up creative tasks transform answers into practice: mixing soothing scents, composing a “happy story,” or preparing a relaxing bath salt.
- Learning focus: emotional literacy, communication skills, and self-care strategies.

## 6. Mindfulness Corners and Relaxation Stories

Quiet time is as essential to well-being as active play.

- Create a calm corner with cushions, soft lighting, and music.
- Read short mindfulness stories (“*Listen to your breathing like ocean waves*”) or guide short relaxation exercises after energetic activities.
- European research (e.g., *Learning for Well-Being Foundation*, Brussels) shows that structured relaxation helps children self-regulate and enhances attention.

## 7. Community Health Week

Organise a week where families and local professionals (doctors, dentists, sports coaches) visit the kindergarten to share experiences about staying healthy.

- Activities may include brushing-teeth workshops, yoga with parents, or a “*Healthy Breakfast Day*.”
- Learning focus: connecting personal habits with community well-being and professional care.

## Teaching Methods

### 1. Storytelling through Movement and Music

Combine narrative imagination with physical movement, rhythm, and sound. This holistic approach allows children to explore feelings through their bodies while strengthening coordination and emotional balance.

### 2. Project-Based Learning

Develop longer projects around body, feelings, and health – for example, “*Our Body, Our Emotions*” or “*Healthy Me Week*.”

- Children document progress through drawings, photos, or digital stories.



- Integrating art, music, and science ensures learning through multiple modalities.

### 3. Participation and Agency

Involve children in shaping their own learning environment – choosing activities, designing obstacle courses, or planning healthy snacks.

- This participatory approach builds confidence, decision-making, and resilience, aligning with European inclusion principles (Council of Europe, 2021).

### 4. Interdisciplinary Learning

Health topics naturally connect with science (the body, nature), arts (music, movement), and social education (friendship, care).

- Cross-disciplinary projects prevent isolation of “health lessons” and ensure integration into daily practice.

### 5. Reflective Dialogue and Peer Exchange

Encourage group discussions and reflection circles: “How did we feel after exercise?” “What helps you calm down?”

- Such discussions foster empathy, communication, and mindfulness.

## Tools and Resources

### Books

- **The Colour Monster** by Anna Llenas – Emotional regulation book from a European publisher. [Bonnier Books UK listing](#)
- **Your Body Belongs to You** by Cornelia Spelman – Bodily autonomy from UK distributors. [Goodreads EU community reviews](#)
- **Germs Are Not for Sharing** by Elizabeth Verdick – European editions and distributors. [AbeBooks UK listing](#)
- **Yoga Whale** by Sarah Jane Hinder – Available through UK sites. **My Strong Mind** by Niels van Hove – European bookshops carry this title. [World of Books UK](#)

### Music and Media

- **Classical Programme Music:**

*Vivaldi's Four Seasons, Saint-Saëns' Carnival of the Animals* – Both widely distributed in Europe, accessible via [BBC Music](#) or public libraries.



- Relax Kids Mindfulness Programm

#### Programme info and courses

- **Smiling Mind Kids App:** Available across the EU via [Apple App Store Europeapple](#)
- **BBC Teach: Super Movers:** Official BBC lesson site (UK and EU recognized) [BBC Super Movers Europebbc](#)

#### Digital Tools

- **Book Creator:** [Official EU privacy updatebookcreator+1](#)
- **Puppet Pals Animation App:** [Download via Apple App Store Europeapple](#)
- **WHO Europe: Health Promoting Schools Materials:** [SHE \(Schools for Health in Europe\) materials and toolsschoolsforhealth](#)

#### Community & EU Resources

- **EU School Fruit and Milk Scheme:** [Official page from European Commissioneuropa](#)
- **EU Healthy Lifestyles 4 All Campaign:** [European Commission Sport Campaigneuropa](#)

#### Websites and Apps:

- [Www.liederturnen.de](#) (Ideas for physical activities)
- Super Stretch Yoga HD
- Fitoons
- <https://www.bzfe.de/bildung/material-fuer-kita-und-tagespflege/> (Healthy food and nutrition)
- <https://www.5amtag.de> (healthy food and nutrition)



## Project My Body and I – we stay healthy

This project was initiated by the kindergarten of the DSA (German School Athens) over the cause of their 3-week summer holiday programme 2024. Using the Olympic Games as well as Football European Championship as starting points for discussions about physical health and well-being the educators explored this topic together with the children. The children have been working on identifying healthy food and healthy eating habits, exploring Yoga classes and different types of sports, crafting their own Olympic medals that they received after mini Olympic Games at the end of the holiday programme and many more activities.



## 3.4 SDG 4: Quality education

### 3.4.1 Introduction to the SDG

Quality education is one of the most powerful drivers of sustainable development and social progress. **SDG 4** aims to ensure *inclusive and equitable quality education and promote lifelong learning opportunities for all*. Its targets include providing free and quality education at all levels, strengthening early childhood care and education, ensuring equal access to vocational and higher education, and equipping learners with the knowledge and skills needed for employment, active citizenship, and sustainability (United Nations, 2021).



Within the **European and UNESCO frameworks**, quality education is understood not merely as academic achievement but as an approach that fosters well-being, creativity, equity, and sustainability. It emphasises **inclusion, democratic participation, and lifelong learning**—values at the heart of early childhood education. According to **UNESCO's Education for Sustainable Development (ESD 2030)** framework and the **European Quality Framework for Early Childhood Education and Care (2019)**, quality in ECEC is achieved when children are active participants in their own learning, when diversity is respected, and when the environment supports curiosity, empathy, and agency.

In early childhood settings, **quality education** means creating environments where children can explore, ask questions, express ideas, and collaborate. It lays the foundations for **cognitive, social, emotional, and moral development**—preparing children not only for school but for life. Neuroscience confirms that the early years are the most formative period for developing critical thinking, empathy, and creativity (González-Alfaya et al., 2020). Because young brains are highly malleable, learning experiences during this phase have lasting effects on how children see themselves and others.

High-quality early education also contributes directly to equality and social cohesion. When all children—regardless of gender, background, or ability—have access to rich, inclusive, and participatory learning, societies become more resilient and democratic. European policy initiatives such as the **European Child Guarantee (2021)** and the **Council Recommendation on High-Quality ECEC Systems (2019)** highlight early education as the cornerstone of both social inclusion and lifelong learning.

In the CST context, **quality education** goes beyond formal instruction: it involves **creative storytelling, intercultural learning, and Education for Sustainable Development (ESD)** that empower children to become curious, caring, and capable individuals. By integrating themes such as fairness, well-being, environmental care, and cooperation, educators equip children with the competences to act as agents of positive change in their communities.

Ultimately, investing in **Education for Sustainable Development (ESD)** from the earliest years is an investment in both human potential and planetary well-being. It nurtures confident, empathetic, and responsible learners who understand that knowledge and creativity are tools for shaping a more just and sustainable world—realising the vision of **SDG 4: Quality Education**.

### 3.4.2 Educational Topics and Challenges

Incorporating the principles of **quality education** into Early Childhood Education and Care (ECEC) is essential for fostering lifelong learning and sustainability. As noted by **UNESCO (2008)**, sustainability is not a separate subject but a way of *thinking and acting* that should permeate all areas of early learning. It includes the **environmental, economic, and socio-cultural** dimensions of human life and connects knowledge, values, and participation.

According to **UNESCO (2017a)** and the **European Quality Framework for ECEC (2019)**, quality in early childhood education lies in relationships, participation, and meaningful experiences rather than formal instruction. The goal is to ensure that all children, regardless of background or ability, can learn, thrive, and contribute to a sustainable society.

#### Key Educational Themes for ECEC

##### Well-being and Health Education

Quality education begins with children's well-being. Promoting balanced routines, hygiene, emotional security, and physical activity builds the foundations for lifelong learning and resilience.

##### Foundational Literacy and Numeracy

ECEC provides the first encounters with language, symbols, and numbers through storytelling, songs, and play. These experiences develop communication and reasoning skills and support children's participation in later learning.

##### Life Skills and Competences for Sustainability

Children's natural curiosity enables the development of problem-solving, cooperation, and creative thinking. Through play, exploration, and dialogue, they begin to understand fairness, decision-making, and the impact of their actions—core competences for sustainability identified by the **OECD Learning Compass 2030**.

##### Global Citizenship and Participation

ECEC settings can nurture respect for diversity, human rights, and care for the environment. In line with **UNESCO's Education for Sustainable Development (ESD 2030)**, early childhood education encourages empathy, solidarity, and participation in community life. Storytelling, cultural festivals, and exchanges with partner schools can help children see themselves as part of a wider world.

These themes are reflected in ECEC values of:

- **Inclusion:** everyone can learn.
- **Equity:** we are different, yet equal.
- **Cooperation:** together we can make a difference.
- **Participation:** learning through active engagement and shared responsibility. (*Didham & Ofei-Manu, 2015; Engdahl, 2015*)



## Challenges in Implementing SDG 4 in ECEC

Despite progress in integrating sustainability into curricula, several education-specific challenges remain:

### Defining and Measuring “Quality” in Relation to ESD

Many national systems still assess ECEC quality mainly through structural indicators (ratios, facilities, staffing) rather than pedagogical quality or sustainability competences. The OECD (2020) notes the need for more nuanced indicators that reflect children’s agency, creativity, and engagement with sustainability themes.

### Embedding ESD Across Learning Areas

Educators often find it easier to teach discrete topics (such as recycling or healthy food) than to integrate ESD holistically. Embedding sustainability within everyday play, routines, and storytelling requires a shift from topic-based to values-based pedagogy (Furu & Engdahl, 2022).

### Ensuring Continuity Across Educational Levels

Transitions from preschool to primary school can interrupt the child-centred, participatory approaches central to ESD. Aligning early-years practices with primary curricula is essential to maintain curiosity, creativity, and intrinsic motivation for learning.

### Supporting Educator Competence Development

While teacher training in general has been discussed under earlier SDGs, the specific challenge for SDG 4 lies in developing pedagogical confidence to use participatory, inquiry-based, and arts-based methods for ESD. European professional-learning networks such as ESDfor2030 Teachers and ECEC in Action provide promising examples of collaborative capacity-building.

### Balancing Curriculum Goals and Flexibility

ECEC curricula across Europe vary in how prescriptive they are. Striking a balance between national standards and local flexibility is vital to ensure educators have room to innovate while maintaining shared quality benchmarks.

Research shows that even the youngest children can engage meaningfully with sustainability concepts when these are introduced through concrete experiences and creative expression. Arts-based learning, storytelling, and collaborative projects allow children to link daily actions—such as caring for plants, sharing resources, or exploring their neighbourhood—to broader ideas of fairness and stewardship (Boyd et al., 2021; Hartwig, 2020).

Quality education in ECEC thus relies not only on access or facilities but on relationships and meaning-making. When educators are empowered to design participatory, reflective, and inclusive learning experiences, children develop the curiosity, empathy, and critical thinking that underpin lifelong learning and sustainable citizenship.

### 3.4.3 Activities, Methods, and Tools for this SDG

Teaching SDG 4 – Quality Education in Early Childhood Education and Care (ECEC) means fostering curiosity, participation, and creativity through meaningful, age-appropriate experiences. Children learn best when they are engaged through play, dialogue, and exploration. The following approaches help integrate Education for Sustainable Development (ESD) into daily practice while promoting inclusion, empathy, and critical thinking – key elements of quality education.

#### Activities

##### 1. Arts-Based Learning

Art connects emotional expression with reflection and problem-solving. Through painting, drama, music, dance, and storytelling, children explore values such as cooperation, fairness, and care for nature.

- Example: *Multimodal storytelling projects* where children illustrate or dramatise stories about friendship, inclusion, or the environment, combining visual art, movement, and digital media.
- Learning focus: creativity, communication, cultural awareness, and emotional intelligence.  
*(Aligned with Reggio Emilia and the European Arts Education for ESD approach.)*

##### 2. Nature-Based Learning

Direct engagement with nature fosters respect, curiosity, and a sense of responsibility for the environment.

- Activities include outdoor play, exploring local ecosystems, observing plants and insects, and maintaining small school gardens.
- Children can document what they see in photo books or drawings, linking observation to reflection.
- Learning focus: environmental literacy, observation skills, and care for living things.  
*(Used widely in Scandinavian “forest kindergarten” models and Eco-Schools programmes.)*

##### 3. Experiential Learning (“Learning by Doing”)

Through hands-on experiences, children develop autonomy and confidence.

- Examples: sorting recyclable materials, cooking healthy snacks, constructing shelters for animals, or role-playing “helping professions.”
- Educators encourage reflection on process and outcome – “What worked well?” “How can we improve next time?”
- Learning focus: initiative, problem-solving, and responsibility.



## 4. Project-Based Learning

Projects encourage children to explore real-life questions collaboratively.

- Example: a “Clean Water for Everyone” project integrating art, science, and storytelling, or a “Kindergarten Newspaper” highlighting sustainability efforts.
- Projects can span several weeks and involve family or community participation.
- Learning focus: collaboration, persistence, and interdisciplinary thinking.

## 5. Place-Based Learning

Connecting learning to the local environment strengthens community awareness.

- Examples: visiting a recycling centre, interviewing community helpers, or creating a map of “caring places” in the neighbourhood.
- Activities help children understand their community as part of the wider world.
- Learning focus: sense of belonging, civic participation, and global-local interdependence.

## 6. Inquiry-Based Learning

This method begins with children’s own questions and builds on their natural curiosity.

- Example: “Why do some plants grow faster than others?” or “Where does electricity come from?”
- Educators guide children in observing, hypothesising, testing, and documenting findings in a collective “Question Book.”
- Learning focus: critical thinking, curiosity, and scientific reasoning.

## 7. Play-Based Learning

Play is central to ECEC quality. Through guided play, children negotiate rules, test ideas, and rehearse social roles.

- Example: using dolls, blocks, or role-play areas (e.g., a hospital, market, or eco-shop) to simulate cooperation and problem-solving.
- Learning focus: social learning, creativity, and emotional understanding. (Edwards, 2021; Council of Europe 2021 – *inclusive play as participatory learning*.)

These approaches can be flexibly combined to create holistic, joyful learning environments where sustainability, empathy, and democratic participation are lived values rather than abstract ideas.

## Teaching Methods

- **Blended Learning**

Combining multiple approaches (e.g., digital storytelling, music, and collaborative art) maintains engagement and reflects children's diverse learning styles.

- Example: children illustrate a story about recycling, then record it using tablets and share it with families during an "SDG Story Evening."

- **Use of Technology for Inclusion**

Tablets, interactive whiteboards, and storytelling apps can make learning accessible and participatory.

- Examples: *Book Creator* or *Puppet Pals* for digital storybooks, *Stop Motion Studio* for short animations about friendship or nature.
- Technology should serve expression and collaboration, not replace tactile or social experiences.

- **Dialogic and Reflective Pedagogy**

Encourage children to discuss, question, and reflect on their learning.

- Reflection circles after activities ("What did we learn today?" "How did we help each other?") strengthen self-awareness and metacognition – both indicators of educational quality.

- **Collaborative and Peer Learning**

Group problem-solving fosters inclusion, empathy, and negotiation.

- Example: co-creating class rules for fairness or designing a shared mural on "what learning means to us."

## Tools and Resources:

### Books

- Koala Makes the Right Choice – Sue Graves  
[KulturKaufhaus link](#)
- We Are All Born Free – Amnesty International  
[World of Books link](#)
- The World Came to My Place Today – Jo Readman  
[Goodreads link](#)
- Malala's Magic Pencil – Malala Yousafzai  
[Penguin Verlag link](#)

## Toys and Learning Materials

- Story Stones  
[Educadora Webshop link](#)
- Patterned/Recycled Materials  
[Craftlines link](#)

## Arts and Crafts Resources

- Recycled materials for projects  
[Craftlines link](#)

## Digital Tools

- Book Creator (GDPR compliant)  
[Book Creator GDPR link](#)
- Drawing Pad  
[App Store link](#)
- Tayasui Sketches  
[App Store link](#)
- Padlet  
[Padlet link](#)

## European Online Platforms

- Learning for Well-Being Foundation  
[Official platform link](#)

## Community and Institutional Resources

- Eco-Schools Early Years Programme  
[Eco-Schools link](#)
- UNESCO ESD 2030 Toolbox  
[UNESCO Toolbox link](#)

## 3.5 SDG 5: Gender equality

### 3.5.1 Introduction to the SDG



**SDG 5 – Gender Equality** seeks to eliminate all forms of gender-based discrimination and violence, ensure equal opportunities and rights for all genders, and empower women and girls worldwide. Despite notable progress, inequalities remain deeply embedded in social structures, limiting access to education, health care, leadership, and decision-making roles—particularly for women and girls. These disparities stem largely from traditional norms and stereotypes that perpetuate unequal expectations and power imbalances.

In the context of **Education for Sustainable Development (ESD)**, gender equality is both a fundamental right and a key driver of sustainability. The **UNESCO Gender Equality Strategy 2019–2025** and the **European Gender Equality Strategy 2020–2025** stress that equal participation and empowerment of all genders are essential to building just, peaceful, and inclusive societies. Education—especially in the early years—plays a decisive role in challenging bias and modelling equality.

Early Childhood Education and Care (ECEC) offers a unique window for shaping attitudes and behaviours that can dismantle inequality. Research shows that gender socialisation begins at birth: by age two, children already recognise gender categories; by around six, many have internalised stereotypical notions of what boys and girls “should” do or be. Consequently, ECEC is a critical setting for promoting gender fairness, empathy, and respect through everyday interaction, play, and language.

Integrating gender equality into the ECEC curriculum allows children to question stereotypes and understand that interests, emotions, and abilities are not defined by gender. Through stories, discussions, and play, children can see that **everyone has equal rights to express themselves, explore, and succeed**. Boys learn that it is acceptable to show vulnerability and care, while girls gain confidence to explore leadership, science, and active roles traditionally reserved for men.

A **gender-responsive pedagogy** ensures that materials, activities, and interactions reflect diversity and avoid reinforcing bias. Teachers act as role models by using inclusive language, ensuring balanced representation in stories and play materials, and encouraging all children to participate equally in all types of play.

Creating such inclusive environments strengthens every child’s sense of self-worth and belonging. It also aligns with the **European Education Area’s** vision of inclusive, fair, and empowering learning from early childhood onwards. Promoting gender equality in ECEC supports emotional and social development, fosters empathy and collaboration, and prepares children to contribute to a society where opportunities and respect are shared equally.

Ultimately, embedding gender equality into early childhood education is not about teaching abstract concepts but about **living equality every day**—through language, care,



stories, and play. It helps children grow into confident, respectful, and self-aware individuals capable of envisioning and shaping a world free from stereotypes and discrimination.

### 3.5.2 Educational Topics and Challenges

Integrating **gender equality** into Early Childhood Education and Care (ECEC) is essential for challenging traditional gender norms and fostering inclusive, participatory learning environments. **Gender-responsive pedagogy** encourages children to see that gender should never limit who they are, what they do, or how they express themselves. It helps them value diversity, fairness, and respect—core competences within **Education for Sustainable Development (ESD)** and the European vision of inclusive quality education.

ECEC educators play a central role in shaping children's perceptions of gender through everyday language, routines, and play. The **UNESCO Gender Equality Strategy (2019–2025)** and the **European Commission Gender Equality Strategy (2020–2025)** both highlight that early childhood education is a decisive setting for transforming social attitudes. When teachers consciously model equality and inclusion, children learn that differences are natural and valuable, not hierarchies of worth.

#### Key Educational Themes in Gender-Responsive Pedagogy

##### Inclusive Language

Educators should use language that avoids reinforcing gender stereotypes or unequal expectations. Phrases such as “boys don’t cry” or assigning tasks based on gender (e.g., boys lifting chairs, girls tidying up) subtly shape perceptions of capability. Instead, teachers can use neutral, affirming language—“everyone helps,” “we all try our best”—to foster equity and cooperation.

##### Body Image and Awareness

Children need to learn that all bodies are valuable and deserve respect. Activities such as naming body parts correctly, recognising bodily autonomy, and discussing feelings about comfort and consent build confidence and respect for others. This topic links closely with early emotional education and self-care. Addressing harmful ideas—such as shame or embarrassment—promotes self-acceptance and bodily literacy.

##### Sexuality and Relationship Education (Age-Appropriate)

Children are naturally curious about their own and others' bodies. Educators should respond with sensitivity, providing accurate information at an age-appropriate level. Lessons focus on self-care, personal boundaries, and respect for privacy—helping children understand that they have the right to say “no” and to feel safe. Guidance from **WHO Europe (2010)** on sexuality education supports this developmental approach.

##### Diverse Role Models

Representation matters. Educators can include diverse role models in stories, posters, and play scenarios—scientists, nurses, firefighters, and artists of all genders. Mixed-role play (e.g., fathers cooking, mothers building) shows that care and leadership are shared



responsibilities. This challenges traditional hierarchies and broadens children's imagination of what is possible.

## Non-Stereotypical Play and Learning Materials

Play areas should invite all children to explore freely, without restriction. Teachers can encourage boys to engage in nurturing or creative play (e.g., cooking, caregiving) and girls to take part in building, sports, or science activities. When comments such as "football is for boys" or "only girls play with dolls" arise, educators can use them as opportunities for reflection and dialogue. (FAWE & VVOB, 2019; UNESCO, 2018)

## Challenges in Implementing Gender Equality in ECEC

### 1. Outdated Curricula and Learning Materials

Many ECEC frameworks and textbooks still portray gender roles in limited ways—mothers as caregivers, fathers as professionals. Updating resources to include diverse family structures, occupations, and representations remains a key task (Nugroho et al., 2022).

### 2. Persistent Gender Bias in Pedagogical Practice

Educators may unintentionally reinforce stereotypes through praise, expectations, or division of tasks. Studies show that teachers often attribute assertive behaviour to boys and compliance to girls, which can influence self-confidence and participation (Blumberg, 2008).

### 3. Limited Training in Gender-Responsive Pedagogy

While professional development on inclusive education exists, specific modules on gender equality in early years remain scarce. Training should focus on reflective practice—helping educators identify their own biases, analyse interactions, and consciously balance attention and opportunities across genders (FAWE & VVOB, 2019).

### 4. Practical Constraints in ECEC Settings

Large class sizes, rigid schedules, or lack of materials make it difficult to implement gender-responsive activities consistently (Nabbuye, 2018). Support from leadership and collaboration with families are crucial for sustaining long-term change.

### 5. Social and Cultural Resistance

In some communities, addressing gender or bodily autonomy with young children may be sensitive or controversial. Teachers need communication strategies and institutional backing to engage families in open dialogue and clarify that gender equality education is about fairness, respect, and human rights—not ideology.

### 3.5.3 Activities, Methods, and Tools for this SDG

Battling gender inequalities and reshaping cognitive frameworks requires a transformative pedagogical approach aimed at changing individual worldviews (Hofman, 2022). Literature highlights that gender-responsive pedagogy in ECEC, supported by arts-based, play-based,

and project-based methods, is effective in teaching gender equality (LeBlanc-Haley & Whitty, 2021; Farantika et al., 2022; Kaihovirta, Ekholm, & Furu, 2021).

- **Role-playing:** Educators can use role-playing activities to challenge traditional gender roles, encouraging children to mix gender roles during play. For example, children can adopt roles like a mother building a house or a father cooking (FAWE & VVOB, 2019).
- **Gender-responsive projects:** Organize events like a "Gender Day" to discuss gender issues and policies with children and parents, making the curriculum more inclusive.
- **Group discussions:** Teachers can lead discussions about gender-related topics like bullying, gender equality, and harassment. Storytelling can also be used to question stereotypes. By asking reflective questions—such as "What are your thoughts on this?", "Is it always this way?"—educators can help children recognize and challenge gender norms (Farantika et al., 2022).
- **Multimodal storytelling:** Incorporating different forms of media, such as illustrations, music, and digital storytelling, creates interactive and engaging lessons. Digital storytelling is particularly effective, as shown in a study of Finnish ECEC centers, which found that it helped improve children's social, collaboration, and problem-solving skills (Isotalo et al., 2020).
- **Materials:** Educators can use posters, books, puzzles, toys, flashcards, and arts and crafts to support gender equality education. Providing a range of materials helps ensure children are exposed to diverse representations of gender roles.

Prominent examples include the **BEYOND** project in Finland, which began in 2006 and aims to support gender equality through educator training, and the EU-funded **Colourful Children** project, which developed digital games, mini-books, and methodologies to promote gender equality in preschool education (<https://beyond-equality.eu/the-gender-equality-in-early-childhood-education-project/>; <https://colourfulchildren.eu/>).



## 4 Prosperity

### 4.1 SDG 6: Clean water and sanitation

#### 4.1.1 Introduction to the SDG



As a limited resource, it is also directly linked to many other goals - be it health (SDG 3), sustainable consumption and production (SDG 12), climate protection (SDG 13) and life on land and under water (SDG 14 and SDG 15) - and access to it is a basic need. Nevertheless, every second person suffers from water scarcity for at least one month a year and one in ten has no secure access to water at all. Due to the nature of the planet, water is not distributed evenly across the earth; there are areas where there is enough water and those where there is a water shortage. In 2020, 2.4 billion people lived in countries with water stress. Conflicts and climate change are exacerbating the situation.

SDG 6 aims to ensure availability and sustainable management of water and sanitation for all and includes the following (source: <https://17ziele.de/ziele/6.html>):

- **Universal access to water:** access to safe and affordable drinking water for all.
- **Improved sanitation facilities:** Access to adequate sanitation and hygiene in communities
- **Efficient use of water resources:** This includes the sustainable management of water resources and the protection of ecosystems that influence water cycles.

Children should realize at a young age that **EVERYTHING** needs water to live - humans. Animals and plants - everywhere in the world. Water is the prerequisite for all life on our "blue" planet, we humans are also made up of two thirds water and can only survive for a short time without water. Only a very small proportion of the water available on our planet is fresh water (3%), so we must use it carefully.

The availability of clean water is essential for children's health: unclean drinking water causes illnesses, and dehydration due to diarrhea is also dangerous for children. A lack of water can also have a negative impact on the organic and physical development of children. The availability of sanitary facilities is also not a matter of course everywhere, which is why this sub-goal - availability of sanitary facilities - is extremely important, especially in the countries of the Global South. Child mortality in the countries of the Global South increases when there is insufficient access to water and sanitation.

Protecting existing water supply systems or setting up new ones can help to reduce the amount of time spent fetching water in places where households do not have access to running water. Incidentally, this is a task that often falls to children - especially girls - in the Global South. If the distances involved are shorter, such activities are more compatible with school and other domestic duties.

A safe water supply should be seen as a human right; water is not a consumer good that should only be available to those who can pay for it.

## 4.1.2 Educational Topics and Challenges

Water is relevant in elementary education in several ways:

- **Drinking Water:** From a health perspective, it is important to encourage children to drink water instead of sugary drinks. Many young children drink almost exclusively water, and it is worth endeavoring to maintain this habit as they grow up.
- **Hygiene Education:** Hygiene education is crucial in primary education centers. Children learning to use the toilet independently understand the importance of clean sanitary facilities. At the age when children have only recently learnt to go to the toilet independently, they know that a sanitary facility - a good "little place" - is important in order to fulfil this human need.
- **Environmental Education:** Natural areas like streams, lakes, and rivers are valuable habitats for humans and animals. Children should learn that these areas need protection to ensure water quality. Environmental education activities can emphasize that natural areas such as streams, lakes and rivers are part of the habitat of animals and humans and are valuable assets that must be protected. They also help to ensure that spring water and drinking water are of good quality. Water pollution, which is often a side effect of economic activities - such as agriculture or industry - should always be avoided. Children can be made aware of this careful use of water as a valuable resource is often made a topic in kindergarten through environmental education: for example, by encouraging children to turn off taps properly so as not to waste water or by explaining how to flush the toilet. Here it can be made clear that water is not unlimited, even if it may often seem so.
- **Indirect Water Use:** A significant portion of the water we use is consumed indirectly. For example, water is used to produce food and other products. This idea can be introduced to children in an age-appropriate way by explaining that there is water in every apple, glass of milk, potato, and especially in meat.

The main messages for preschool children are that **clean water is essential for health**, and it is important to **use water resources carefully** and protect them.

## 4.1.3 Activities, Methods, and Tools for this SDG

Water is essential for everyday life, and introducing children to questions like "What is water used for around the world? Where do children in other countries get water for washing, drinking, cooking, laundry and brushing their teeth? Do all people really have access to water? How do we use water in kindergarten???" or "How do people in different countries access water?" helps them grasp the importance of this resource. Children naturally understand the



need for water, as they feel thirsty and use it daily. Reflecting on this fosters awareness of how to use water carefully.

### Methodological Approaches:

- **Inquiry-based learning:** Children in the kindergarten group can explore how much water they need every day - for drinking, flushing the toilet, washing their hands, making and painting, etc. All household activities that still require water can also be imitated in play. Small scientific experiments with and about water make the element directly tangible.
- **Sensory experiences:** As a culinary activity, a water tasting can be organized where different waters are tasted and compared and why water can taste different (minerals it contains such as lime etc. or purification methods) depending on where it comes from. Some kindergartens give the children a personalized drinking water bottle as an entry gift, which they should use for drinking in the groups. Water can also be explored acoustically - what does it sound like when it rains, when a tap drips, a stream rushes, etc. A drip massage is also a welcome change that children can let each other or themselves feel.
- **Exploring the environment:** Where does the water come from where I live? To answer this question, an excursion can be made to a local water reservoir, for example in the city of Salzburg to the elevated tank on the Mönchsberg, where educational activities and a small exhibition are offered. Take children on excursions to local water reservoirs to learn about where their water comes from.
- **Storytelling:** Where does water come from and where does it go? Introduce books like *The Journey of the Little Drop of Water* from the Lummerland kindergarten or *The Water Cycle Kamishibai* (Kramsach, Betzold, 2022) to explain the water cycle in an engaging way. The topic of the scarcity of water can also be dealt with in an age-appropriate way, for example with the Kamishibai by Hansjörg Ostermayer: Water belongs to everyone. A fairy tale from Africa. Munich, Don Bosco, 2018.
- **Songs and Games:** There are games and songs about water in all languages, they are often already familiar to children and can be explicitly linked to a new aspect of sustainability (e.g. water is for washing, ... German children's song). More recent songs such as the music video "ViVa Wasser" by ICH & HERR Meyer on youtube are also fun.

### Book Suggestions:

- Weninger, Brigitte; Möller, Anne [Ill]: *Thank you, pure water!* Zurich, NordSüd, 2019.
- Sörensen, Hanna: *Water for everyone!* Hamburg, Carlsen, 2018.
- Goumand, Arnaud: *Stille Örtchen. A cultural history of toilets.* Kosmos Publishing House, 2023.



## 4.2 SDG 7: Affordable and clean energy

### 4.2.1 Introduction to the SDG

The core objective of SDG 7: Affordable and Clean Energy is to ensure access to affordable, reliable, sustainable, and modern energy for all. This goal addresses global energy poverty and emphasizes the transition to cleaner energy sources such as solar, wind, and hydropower. Key targets include universal access to modern energy services, increasing the share of renewable energy, improving energy efficiency, and enhancing international cooperation for clean energy research and technology.



SDG 7's environmental dimension focuses on reducing pollution and greenhouse gas emissions from traditional energy systems. Renewable energy sources provide cleaner alternatives to fossil fuels, contributing to the mitigation of climate change.

In Early Childhood Education and Care, SDG 7 holds great relevance as clean energy access directly impacts the health and well-being of young children in homes, schools, and daycare centers where young children learn and grow. Reducing indoor air pollution through clean energy solutions creates healthier environments for children's development. Moreover, it underscores the importance of **environmental sustainability** and the **transition towards renewable energy** sources. ECEC offers an opportunity to introduce children to concepts of energy conservation, renewable energy, and environmental stewardship, fostering early awareness of sustainability. By integrating these ideas into their curricula, ECEC providers can foster environmentally conscious attitudes and behaviors among young children. This early exposure helps instill in them a sense of responsibility towards the planet and its resources, laying the groundwork for a more sustainable future.

ECEC facilities often serve as **essential community hubs**, enabling them to promote SDG 7 objectives through engagement and outreach. By advocating for SDG 7 and integrating clean energy education into their curricula and advocating for clean energy initiatives, ECEC providers can raise community awareness and contribute to a more sustainable future. Through educational initiatives, community events, and collaborations with local organizations, ECEC programs play a crucial role in nurturing a culture of sustainability and encouraging broader community involvement in clean energy endeavors.

Teaching children about sustainable energy practices from an early age instills lasting values and behaviors that contribute to environmental conservation. Through these efforts, SDG 7 supports both the physical well-being of young children and the cultivation of environmentally responsible attitudes, helping build resilient communities where children can thrive.

Consequently, SDG 7 contributes to the overall well-being and development of young children by prioritizing health, environmental education, community involvement, and the cultivation of sustainable attitudes and behaviors from an early age. Through these efforts, SDG 7 fosters healthier, more environmentally aware communities where children can thrive and realize their full potential.



## 4.2.2 Educational Topics and Challenges

Incorporating **Sustainable Development Goal 7** into Early Childhood Education and Care (ECEC) presents an opportunity to introduce children to themes such as energy conservation and renewable energy sources.

- **Energy Conservation:** Educators can teach young children to use energy wisely. For example, turning off lights, unplugging devices, and reducing water consumption can be reinforced through hands-on activities and interactive games. These help children understand the impact of their energy use and encourage sustainable habits.
- **Renewable Energy Sources:** Children can learn about solar, wind, and hydropower through age-appropriate stories, experiments, and art projects. By exposing children to alternative energy sources, they can develop an appreciation for clean energy solutions and understand how these can help protect the planet.

To explain the importance of SDG 7 to young children, educators can use simple language, engaging visuals, and interactive teaching methods. Emphasizing that energy powers their homes, schools, and communities can help them grasp the concept. Educators can also highlight how renewable energy protects the environment and reduces pollution. Storytelling, role-playing, and group discussions can stimulate children's curiosity and encourage them to explore how they can contribute to a more sustainable future.

Some **key messages** associated with SDG 7 for early learners include the importance of conserving energy, the benefits of using renewable energy, and the need to take action to address climate change. Educators can reinforce these messages through practical activities, outdoor exploration, and community engagement projects that demonstrate the real-world impact of sustainable practices.

Despite the importance of integrating SDG 7 into ECEC programs, several obstacles may arise. These can include limited access to resources and materials related to sustainability education, competing priorities within the curriculum, and challenges in adapting complex concepts like energy for young children. Additionally, **cultural, social, and economic factors** may influence how energy consumption and environmental stewardship are perceived across different communities.

Educators may also face specific challenges when teaching SDG 7 based on children's age and developmental level. Preschoolers, for example, may struggle with abstract concepts such as climate change and renewable energy. Therefore, educators must adapt their language and activities to make these ideas accessible, using concrete examples and hands-on experiences. Additionally, it is essential to consider children's cultural and linguistic backgrounds to ensure inclusivity and relevance in the curriculum.

## 4.2.3 Activities, Methods, and Tools for this SDG

Engaging children with Sustainable Development Goal 7 (SDG 7), which focuses on ensuring access to affordable and clean energy, can be achieved through a variety of



activities that are both educational and interactive. Here are some types of activities that can help children understand and engage with this SDG:

- **Storytelling and Role-Playing:** Using age-appropriate books, stories, and role-playing activities can help children connect with the importance of sustainable energy practices. Educators can incorporate characters and narratives that highlight the significance of using clean energy and conserving resources in engaging and relatable ways.
- **Art and Creative Expression:** Encouraging children to express their ideas and feelings about clean energy and environmental sustainability through art projects, such as creating posters, drawings, or sculptures, can be a fun and meaningful way to reinforce learning and stimulate creativity.
- **Hands-on Experiments:** Conducting simple experiments to demonstrate concepts related to energy conservation and renewable energy sources can be highly effective. For example, building a solar oven to cook food or creating a small wind turbine model to generate electricity can help children grasp the practical applications of clean energy technologies.
- **Outdoor Exploration:** Taking children on nature walks or field trips to renewable energy facilities, such as solar farms or wind turbines, can provide firsthand experiences and foster a deeper understanding of how clean energy works and its benefits for the environment.
- **Interactive Games and Puzzles:** Incorporating games, puzzles, and interactive activities into the curriculum can make learning about SDG 7 enjoyable and memorable. Activities like matching games, scavenger hunts, and quizzes can help reinforce key concepts and encourage active participation

A combination of **experiential learning, inquiry-based learning, and play-based approaches** is effective for teaching SDG 7. These methods allow children to engage with energy-related concepts at their own pace and explore real-world issues through hands-on activities.

## Tools and Resources

- **Books and Educational Materials:** Resources such as *The Magic School Bus and the Electric Field Trip* by Joanna Cole or *Energy Island* by Allan Drummond introduce children to energy and sustainability concepts. Also, "The Boy Who Harnessed the Wind" by William Kamkwamba and Bryan Mealer; "Our Renewable Future" (video series) by National Geographic Kids; "The Lorax" by Dr. Seuss; "Earth Rangers: Rock On!" (podcast) by Earth Rangers; "Energy and You" (educational kit) by the U.S. Department of Energy.
- **Educational Games and Apps:** Platforms like JouleBug (App) and NASA Climate Kids (Online Portal) teach energy conservation and renewable energy in interactive formats.

- **STEM Kits:** Tools like the *Renewable Energy Kit* by Thames & Kosmos provide hands-on learning experiences about solar, wind, and hydroelectric power.
- **Community Partnerships:** Collaborating with local environmental groups, universities, and energy companies can bring guest speakers, workshops, and resources to support learning.

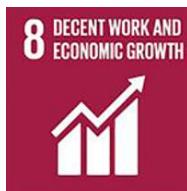
### Successful Projects

- **Energy-themed Curriculum:** Projects like the **PEADISE** initiative in Europe promote energy efficiency through holistic curricula, integrating energy-related activities across science, math, and social studies.
- **Renewable Energy Demonstrations:** The **Green4Clean Schools Renewable Energy Project** in Ghana uses solar lamp donations and hands-on demonstrations to teach students about renewable energy.
- **Green School Initiatives:** Programs like **Eco-Schools** and **Green-Schools Ireland** encourage sustainable practices such as energy conservation and recycling within schools, promoting environmental stewardship.
- **Community Outreach Programs:** Initiatives like **Green Life Volunteers** in Costa Rica install solar power systems in off-grid elementary schools, providing sustainable energy while raising community awareness about renewable energy solutions.

Incorporating SDG 7 into ECEC requires a mix of creative teaching methods, age-appropriate tools, and collaborative partnerships to inspire young children to engage with sustainable energy practices and contribute to a greener future.

## 4.3 SDG 8: Decent work and economic growth

### 4.3.1 Introduction to the SDG



The core objective of SDG 8 is to promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all. This goal emphasizes the importance of ensuring that every individual has the opportunity to work with dignity under fair conditions, contributing to economic prosperity while fostering personal and professional development.

At the heart of SDG 8 are participation, good education, and self-worth, all of which can be cultivated from an early age in Early Childhood Education and Care (ECEC). Teaching children the value of participation lays the foundation for inclusive and humane working conditions, which in turn contributes to economic growth. Similarly, ensuring access to quality education prepares children for a smooth transition into well-paying jobs, while nurturing a sense of self-worth empowers them to demand and uphold dignified living and working standards throughout their lives.

In the context of ECEC, SDG 8 connects strongly to fostering lifelong learning and equitable opportunities, helping to create a future where children grow into adults who can contribute meaningfully to their communities and economies. By instilling key values early on, such as respect, teamwork, and critical thinking, children are better equipped to face the evolving demands of the modern workforce and to advocate for their rights in the workplace.

### 4.3.2 Educational Topics and Challenges

Integrating Sustainable Development Goal (SDG) 8, which focuses on decent work and economic growth, into early childhood education and care presents both opportunities and challenges. The key themes of SDG 8 in ECEC are "**taking responsibility**" and "**participation**", which help children understand their role within a community. These concepts foster a sense of self-worth by emphasizing their significance and appreciation within that community. Through collaborative activities and shared tasks, children learn the value of contributing to collective well-being.

#### Key Topics could be:

- **Participation and Sharing Responsibilities:** ECEC environments provide opportunities for children to practice responsibility and teamwork through collaborative activities. These experiences teach them that everyone plays a part in maintaining a productive and inclusive community. Whether it's caring for classroom plants or cleaning up after activities, children learn the value of taking part in shared responsibilities, which mirrors future roles in the workforce.
- **Goal Setting and Achievement:** Create age-appropriate opportunities for children to set small, personal goals within the classroom, such as completing a puzzle or helping a friend. Celebrating these achievements helps them develop a sense of purpose and accomplishment, boosting self-worth and reinforcing the idea of setting goals in their future education and work.
- **Understanding the concept of Work:** Children can be introduced to the idea that work helps meet the needs of society. Role-playing activities, where children act out different jobs like teachers, doctors, or farmers, can help them understand that work is essential for the community's well-being and development.
- **Understanding Money and Value:** Simple classroom activities like using play money in a "store" can teach children the concept of money, work, and value. This can lay the foundation for understanding economic growth and personal responsibility in the future.

However, challenges may arise due to children's socio-economic backgrounds. Children from environments where responsibility and participation are not emphasized, or where their parents feel powerless in life or the workplace, may struggle to grasp these core messages. It is essential to create an inclusive environment that accommodates diverse backgrounds, making the principles of participation and responsibility accessible and meaningful for all children.



### 4.3.3 Activities, Methods, and Tools for this SDG

There are several methods that have proven themselves useful in teaching responsibility and participation, such as establishing a "Children's Council", a "Helper of the Day" and general daily chores and routines. A pioneer in the pedagogic field and inspiration to many has been Maria Montessori and her principles of sensory, intellectual and moral development. Within her conception, she describes how a prepared environment can encourage children to become more self-effective. This will enable even young children to participate in daily activities and take responsibility for chores. Furthermore, it teaches children a sense of self-worth because they learn "I am capable".

- **Children's Council and Helper of the Day:** Establishing a "Children's Council" encourages children to take responsibility by participating in decision-making processes about daily activities or classroom rules. Similarly, having a "Helper of the Day" fosters a sense of responsibility, allowing children to feel important by contributing to the classroom routine. These practices reflect workplace collaboration, leadership, and community involvement.
- **Montessori-inspired Approaches:** Maria Montessori's principles focus on sensory, intellectual, and moral development, particularly the idea of a "prepared environment." This environment encourages self-efficacy, allowing young children to participate in daily chores and activities. By taking responsibility for tasks such as cleaning up after themselves or helping with classroom routines, children learn that they are capable of meaningful contributions.
- **Storytelling and Role-Playing:** Storytelling offers an engaging method to help children understand the concept of work and responsibility. Role-playing activities, such as "going to work" or "shopping", allow children to act out daily life scenarios where they can assume different roles in a community. This helps them understand the importance of contributing to a group and gives them a practical sense of what jobs involve.
- **Daily Chores and Routines:** Regular chores and routines, such as cleaning up after meals or putting away toys, help children develop a sense of responsibility. Encouraging children to take on "jobs" within the classroom teaches them accountability. These activities also mirror responsibilities they will encounter later in life, both at home and in the workplace.

Incorporating **experiential learning, collaborative learning, and Montessori principles** into ECEC provides children with hands-on opportunities to develop real-life skills, confidence, and ownership over their tasks. Activities such as daily chores, art projects, and role-playing foster responsibility, while collaborative efforts promote teamwork. By integrating these methods and tools, educators can nurture a sense of responsibility and participation, which are the foundations of SDG 8, ensuring that young learners understand their future role in contributing to decent work and economic growth.



## 4.4 SDG 9: Industry, innovation and infrastructure

### 4.4.1 Introduction to the SDG

The core objective of SDG 9 is to help children understand the presence and significance of industry, innovation, and infrastructure in their everyday lives. Even at an early age, children can begin to explore the foundational ideas behind these concepts through simple, curiosity-driven questions such as, "Where do things come from?", "How can I make my life easier?", and "Where can I find...?". By addressing these questions, children develop confidence, problem-solving skills, and a sense of self-efficacy, all while gaining a better understanding of the interconnected world around them.



Industry, innovation, and infrastructure are the backbones of a well-functioning society, supporting everything from transportation and communication to the production of everyday goods. Early exposure to these ideas allows children to appreciate the systems that help shape their world. For example, explaining how roads, bridges, and transportation networks connect communities or how factories produce items they use daily can ignite their curiosity. This SDG also introduces the importance of creativity and problem-solving in the form of innovation—the ability to improve systems and create new solutions to make life easier. Through playful experimentation, such as building structures with blocks or solving simple problems through creativity, children can begin to grasp these complex ideas.

In the context of ECEC, teaching children about industry, innovation, and infrastructure fosters a mindset of curiosity, practical problem-solving, and an understanding of the built environment around them. This foundation encourages critical thinking, which will benefit them as they grow and face more complex societal challenges.

### 4.4.2 Educational Topics and Challenges

Incorporating SDG 9 into ECEC settings is relatively seamless because industry, innovation, and infrastructure are intertwined with children's everyday experiences. Although these concepts might seem complex, their core messages—industry as "production and distribution," innovation as "making life easier and better," and infrastructure as "connections and understanding places"—can be easily simplified for young learners.

- Industry (Production and Distribution):** Children can explore how things are made and distributed, learning where everyday items like toys, food, and clothes come from. Activities such as visiting local markets or factories or watching short educational videos about production processes can help children understand the journey from raw materials to finished products.
- Innovation (Making Life Easier and Better):** Innovation can be introduced through problem-solving activities where children use creativity to find new solutions to everyday tasks. Simple engineering projects like building structures from blocks, designing tools to solve small problems, or brainstorming ways to improve daily



routines help foster innovation. Educators can encourage children to ask, "How can we make this easier or better?"

- **Infrastructure (Connections and Understanding Places):** Infrastructure is the network of roads, bridges, buildings, and systems that connect people. Children can engage with this concept by drawing maps of their neighborhood or building model cities with roads, bridges, and transportation routes. Discussing how different buildings (hospitals, schools, shops) serve different purposes in a community can also help children understand the importance of infrastructure.

#### Challenges:

While these concepts are present in children's surroundings, simplifying the ideas of industry, innovation, and infrastructure to a level they can grasp may be challenging. Teachers need to use familiar examples and hands-on activities to make abstract ideas more tangible. Socio-economic differences can also impact how children perceive these concepts, especially if their community lacks certain infrastructures or if they have less exposure to technology or innovation.

#### 4.4.3 Activities, Methods, and Tools for this SDG

Incorporating SDG 9 into early childhood activities can begin with simple, **curiosity-driven questions** such as, "Where does electricity, food, or clothing come from?" These questions naturally lead to activities that help children understand industry. Children can engage in storytelling by sharing what they know about their parents' jobs or other industries they are familiar with. Books that explore different professions or industries can be read and discussed in the classroom, and teachers can use technology to find answers to children's questions by "Googling" together, thus reinforcing the value of inquiry-based learning.

When it comes to innovation, **children are natural problem-solvers**. Educators can guide them in action planning, where they identify a challenge and come up with ways to solve it. For example, if children struggle to remember the sequence of dressing for outdoor play, teachers can work with them to create a pictorial guide that illustrates the steps. This visual aid is an example of innovation in everyday life, showing children that solutions can make processes easier. Experiments also provide a great opportunity to encourage children to ask questions, make suggestions, and participate actively, while quieter or more hesitant children can learn by observing.

Infrastructure can be introduced by answering children's natural questions such as, "Where is it?" or "How do I get there?" Visual tools like Metacom™ symbols can help familiarize children with navigation and locations within the classroom or neighborhood, introducing them to infrastructure in a relatable way. A project-based approach can extend this learning by having children create their own city. Each child can construct a model of their house, and together they can decide what buildings and services (such as shops, hospitals, or parks) their city needs, fostering collaboration and planning.

These methods allow children to engage with the foundational ideas of industry, innovation, and infrastructure in a practical, hands-on way. By exploring their environment



and participating in problem-solving activities, children can start to appreciate how the systems around them work, paving the way for a deeper understanding of SDG 9.

## 4.5 SDG 10: Reduced inequalities

### 4.5.1 Introduction to the SDG



SDG 10, "Reduce inequality within and among countries," addresses disparities based on factors like income, gender, age, race, disability, sexual orientation, and opportunity. Inequality impacts global communities, harming social and economic development and reducing individuals' sense of self-worth. The United Nations calls for "transformative change," focusing on marginalized communities by eliminating discriminatory laws and practices.

Key objectives include **reducing income inequalities, promoting inclusion, ensuring equal opportunities, and adopting policies that promote equality**.

In Early Childhood Education and Care (ECEC), reducing inequality is critical for breaking intergenerational cycles of poverty. According to an analysis by UNICEF and the World Bank from 2023, children are more than twice as likely as adults to live in extreme poverty, with one in six living in extreme poverty. Children's growth and development are profoundly shaped by the educational, social, and economic opportunities available to them. Considering children as the primary focus, UNICEF encourages governments to monitor the importance of disaggregated data collection, analysis and use; invest in social spending and progress on results for children, adolescents and youth; and activate awareness building and meaningful participation of children, adolescents and youth.

The SDG of "Reduced Inequalities" promotes social and emotional development, encourages critical thinking and cultural awareness, fosters social skills, enhances equal opportunities, improves overall well-being, supports academic achievement and promotes global citizenship and social responsibility. Ultimately, teaching children about inequality and prioritizing inclusive environments where they can express themselves empowers them to become advocates for change in their communities.

### 4.5.2 Educational Topics and Challenges

Incorporating **SDG 10: Reduced Inequalities** into Early Childhood Education and Care (ECEC) allows children to engage with themes of **racial, religious, gender, age, and disability inequalities, as well as inequalities caused by poverty**. These themes can be explored through a variety of activities:

- **Classroom discussions and role-playing:** Educators can create scenarios that allow children to recognize and discuss examples of inequality in their own communities.

- **Visits to community centers:** Visiting shelters, orphanages, or minority community centers can help children understand the real-world impact of inequality and discrimination.
- **Empathy and solidarity building:** Encourage children to feel empathy and demonstrate kindness through small actions, reinforcing the idea that these can contribute to a fairer society.

Key messages include helping children become aware of inequalities, empathize with those who face discrimination, and analyze the causes of inequality. The goal is to empower children to think critically about fairness and justice from an early age.

### Challenges

Educators may face several challenges when integrating SDG 10 into ECEC programs:

- **Lack of training:** Many educators may not be familiar with the SDGs or how to incorporate them into early childhood settings. Professional development is often needed to effectively integrate these themes.
- **Standardized curricula:** ECEC programs often follow rigid curricula, making it difficult to introduce new topics like SDGs.
- **Cultural and social factors:** Children come from diverse cultural, social, and linguistic backgrounds, which can make it challenging to address all forms of inequality. Educators need to be sensitive to these factors and adapt the SDG content to fit local contexts.
- **Parental apprehensions:** Some parents may be uncomfortable with discussing sensitive topics, such as inequality and discrimination, with very young children. Educators must collaborate with families to address these concerns and ensure that the subject is taught in an age-appropriate and inclusive manner.

SDG 10 can be introduced to children as early as preschool, but the content and methods should be tailored to their developmental stages. **Concrete examples** and **hands-on activities** are effective ways to introduce complex topics like inequality. Educators should focus on creating positive, supportive learning environments where children feel safe expressing their thoughts and ideas.

### 4.5.3 Activities, Methods, and Tools for this SDG

There are various activities that can help students understand and engage with the “Reduced Inequalities” Goal. The following suggestions are part of a teacher’s guide crafted by the Micro:bit Educational Foundation. In addition to this topic, the website provides other relevant resources and tools for teachers.

#### Activity 1: Introducing Inequality (10 min.)

In this activity, students will be introduced to the concept of inequality.

- Distribute a number of sweets / biscuits / stickers / counters unevenly. Some students should have a lot, some students have none. Keep the majority for yourself.
- Ask students “Is this fair?” Encourage students to discuss this as a class. Ask the students to discuss how they feel about the distribution they have.
- Explain to the students that you have the most because you are the oldest. Is that fair? What about if you gave the tallest children more than the shortest? Or all the boys had to give theirs to the girls?
- Use this example of inequalities to introduce the idea of social inequality. This definition might be useful: “a situation in which people are not equal because some groups have more opportunities, power, money, etc than others” (source: MacMillan dictionary).

## Activity 2: The Impact Of Inequality (30-40 min.)

In this activity, students will think about inequality and the impact it has on individuals, their families, right through to the whole world.

- Together, make a list of all of the different forms of inequality that students can think of. Then, in small groups, students should chose one form of inequality to focus on.
- Students should write down all of the impacts of this inequality that they can think of to create an impact chain. Guide students to think about the impact in this order:

Individuals - what is the impact of the inequality on the individual?

Their families - how does it then affect their family?

Local community - what impact with this have on their local community?

Whole country - how will this impact the whole country?

The world - finally, what impact will this inequality have on the world?

- As an extension, they could also think about economic, social, political and environmental effects.
- When they are finished, find ways for students to share their work and reflect on what they've learned.

Storytelling is an effective teaching method in conveying the principles of this SDG to young learners, inspiring them to take action. Through stories, children can learn about different cultures and perspectives. Engaging children in role-playing activities also allows them to empathize with others' experiences and encourages problem-solving and critical thinking. Consequently, educators can utilize books and board games to create an inclusive



learning environment. Furthermore, interactive websites provide lessons, videos, and games that cover a wide range of topics related to inequality.

The [ARISE Action for Reducing Inequalities in Education](#) is an example of a successful initiative that has incorporated this SDG in ECEC. It is a 4-year project created by a Consortium of NEPC members, NGOs and research institutes from Western Balkans and Turkey. It established the goal of supporting schools, grassroots organisations and policy makers in developing actions and policies aimed at mitigating the effect of low socio-economic status on students' achievement, reducing inequalities in education. The five primary target groups are the consortium members, policy makers, local grassroots organisations, schools/schools staff and educational stakeholders, parents and the school community. The final beneficiaries of this action are students from lower socioeconomic backgrounds. It enhances the technical capacity of 25 selected schools and educational stakeholders from Albania, Bosnia and Herzegovina, Kosovo, North Macedonia and Serbia. The program provides national policy reports, policy briefs and policy road maps on equity and education, a comparative report and an impact study. Furthermore, a School Development Program Resource Manual was designed primarily to empower schools in the process of creating a safe environment where every child feels accepted.

The LEGO Foundation has the aim of reaching children with learning through play and empowering them to become creative, engaged, lifelong learners. They reviewed 26 studies of 18 sites of early learning programmes, for children aged 3 to 6, in 18 countries and compiled the findings into a paper that focuses on reducing social inequality via investments in playful early childhood interventions. Some of the outcomes include children developing essential skills through play, with learning through play closing opportunity and inclusion gaps. A combination of free and guided play has proven to be the best approach. The project's interventions have demonstrated long-term benefits into primary school.

## 4.6 SDG 11: Sustainable cities and communities

### 4.6.1 Introduction to the SDG



SDG 11 focuses on creating urban environments that are inclusive, safe, resilient, and sustainable. Its core objective is to address the growing challenges of urbanization, such as environmental degradation, poor infrastructure, and social inequality. Key aims include providing access to safe, affordable housing, improving urban planning, and promoting sustainable development for current and future generations.

This SDG is highly relevant to ECEC because early childhood settings offer the ideal environment to introduce concepts of sustainability and community responsibility. Children can begin to understand their role in the community, the importance of green spaces, and the value of participating in sustainable urban living.

By integrating these principles into the ECEC curriculum, educators can nurture a generation that values sustainable practices. For example, activities that encourage recycling, learning about green spaces, and engaging in community involvement help children grasp their role in fostering a sustainable urban environment. ECEC can also model these values through maintaining clean and safe play areas and promoting eco-friendly behaviors.

Moreover, SDG 11 emphasizes reducing social inequalities, promoting social inclusion, and ensuring equal access to opportunities and services for all community members. Through early lessons on inclusion and diversity, children can develop a more equitable mindset, appreciating the value of diverse and inclusive communities. By laying these foundations early, children can grow into responsible citizens who are engaged in the sustainable development of their communities, ensuring safe, inclusive, and resilient urban environments for the future.

#### 4.6.2 Educational Topics and Challenges

Integrating SDG 11 into ECEC presents opportunities to introduce important concepts about community, sustainability, and the environment. Here are some key topics and challenges.

**Environmental Stewardship:** Introducing topics like recycling, reducing waste, and conserving resources helps children learn how their actions affect the environment.

**Green Spaces:** Teaching the importance of parks, gardens, and natural areas fosters appreciation for the role nature plays in urban settings.

**Community Involvement:** Activities can focus on participation in local events, understanding different community roles, and helping children feel connected to their neighborhood.

**Safe and Healthy Environments:** Discussing the importance of clean and safe spaces within cities teaches children the value of resilient and healthy communities.

#### Explaining the SDG to Young Children:

Educators can explain the importance of SDG 11 through relatable, hands-on activities. For example, children can learn about recycling by creating a mini-recycling station or by participating in a community clean-up. Storytelling and visual aids can also help make abstract ideas like urban planning more concrete. For instance, building a mini-city with blocks while discussing the function of parks, hospitals, and houses can make the concept of sustainable communities more understandable.

#### Key Messages for Early Learners:

- Clean Environments Matter: Teaching children that keeping their surroundings clean helps everyone stay healthy and happy.
- Green Spaces Benefit Everyone: Emphasizing how parks and natural areas improve quality of life and provide safe places to play.

- Community Participation is Important: Helping children understand their role in their community and why it's important to contribute to its well-being.

### Obstacles to Integration:

Several challenges exist, such as insufficient materials and training for educators. Additionally, balancing the broad array of educational content in ECEC curricula can make it difficult to find the time to introduce SDG-related themes.

Different communities may have varying attitudes toward sustainability and community involvement, which can affect how easily SDG 11 themes are introduced. Educators need to ensure their teaching methods are adaptable to the cultural and social values of the children they work with.

Introducing topics like urban planning and sustainability to very young children can be challenging because these are abstract concepts. Educators must rely on concrete activities, visual demonstrations, and simplified explanations to make these topics accessible and relevant. For example, focusing on simple actions like planting trees, recycling, or maintaining clean play areas provides a foundation for more complex discussions about sustainable cities as the children grow older.

By integrating these topics and overcoming obstacles such as resource limitations and cultural differences, educators can help young children understand their community, learn the value of sustainability, and build a sense of responsibility towards their environment.

### 4.6.3 Activities, Methods, and Tools for this SDG

#### Activities:

- City Design Projects:** Children design sustainable cities using arts and crafts, incorporating elements like parks, green energy, and public transport.
- Community Walks:** Take children around the neighborhood to observe and discuss urban features like recycling and green spaces.
- Trash Sorting Games:** Help children learn about waste management by categorizing different types of waste in interactive games.
- Build-a-City Games:** Use blocks or online simulations to create cities with sustainable infrastructure.
- Green Space Creation:** Engage children in creating mini-gardens or planting trees to show the importance of green areas.
- Role-Playing:** Have children act as city planners or community leaders to solve urban challenges in an imaginative setting.

#### Teaching Methods:

- **Project-Based Learning:** Involve children in real-world projects like designing a green community.
- **Experiential Learning:** Use hands-on activities, such as visiting local sustainable projects, to make abstract concepts more tangible.
- **Visual and Interactive Learning:** Utilize diagrams, videos, and interactive apps to illustrate sustainable city concepts.
- **Storytelling:** Books and stories with themes of urban sustainability can help children relate to these ideas.
- **Collaborative Learning:** Group projects encourage teamwork and problem-solving around sustainability issues.

## Tools and Resources:

### Books:

- "All the Way to the Top" by Annette Bay Pimentel: Introduces children to advocacy and community accessibility.
- "What If There Were No Teachers?" by Caron Levis: Helps children understand the roles of different community members.

### Games:

- SimCity or Cities: Skylines: Simulation games allow children to manage cities and understand urban planning.

### Technology:

- Interactive Apps: Apps like Tiny Room Stories or City Island teach children urban planning and management in an engaging way.

### Online Resources:

- UN-Habitat's Youth and Urban Development Resources: Offers activities and lesson plans focused on sustainable urban development.

### Educational Websites:

- National Geographic Kids: Provides articles and activities about cities, communities, and sustainability.

### Examples of Successful Projects:

- Eco-Schools Program: A global initiative that incorporates sustainability into school curricula, including projects on sustainable cities.
- Kids' City Design Workshops: Various cities have hosted workshops where children design sustainable urban environments.



- Green Schools Initiative: Schools that engage students in sustainability efforts such as recycling and energy efficiency projects.

## 4.7 SDG 12: Responsible consumption and production

### 4.7.1 Introduction to the SDG

Sustainable Development Goal 12 (SDG 12) focuses on ensuring sustainable consumption and production patterns. Its core objective is to promote resource efficiency, reduce waste, and foster sustainable practices in both production and consumption. SDG 12 addresses the global challenge of resource depletion and environmental degradation by encouraging industries, governments, and individuals to adopt eco-friendly practices.



In Early Childhood Education and Care (ECEC), SDG 12 is highly relevant as it instills values of sustainability from a young age, teaching children about responsible resource use, waste reduction, and environmental stewardship. Integrating this SDG into early education helps children understand the importance of minimizing waste, reusing materials, and recycling, while emphasizing the connection between everyday consumption habits and the health of the planet.

For children, these concepts can be introduced through simple activities like recycling, reusing materials for crafts, and understanding where products come from. As children learn about the impact of their choices on the environment, they develop a sense of responsibility that supports their future role as conscious consumers and environmental advocates. Through early education focused on sustainable consumption and production, SDG 12 contributes to the overall well-being and development of young learners by promoting healthy, eco-conscious lifestyles.

### 4.7.2 Educational Topics and Challenges

Sustainable consumption and production patterns are essential themes that can be effectively introduced in Early Childhood Education and Care (ECEC). Although these concepts may seem advanced, they are closely tied to many activities in early childhood settings, providing a foundation for children to develop sustainable habits.

Key themes related to this SDG include:

- **Mindful Consumption of Resources:** Educators can teach children about resources like water, electricity, and fuel, helping them understand their origins and how to use them responsibly. Simple actions like turning off lights when not needed or closing the water tap when brushing teeth are practical ways to teach children about conserving resources.
- **Mindful Food Consumption and Waste Reduction:** Children can learn about food sources, emphasizing regional, seasonal, and organic consumption. Educators can



promote the importance of taking only what they need and avoiding food waste, helping children appreciate food as a valuable resource.

- **Waste Reduction:** Lessons can focus on identifying waste sources and finding ways to minimize it. Teaching children to use reusable items like water bottles, lunchboxes, and fabric bags can instill habits that reduce waste and promote sustainability.
- **Recycling, Reusing, and Repairing:** Involving children in recycling activities and encouraging them to reuse materials fosters an understanding of the importance of extending the life of everyday objects. Educators can introduce projects that involve repairing or repurposing items instead of discarding them.

**Sustainable Materials:** Educators can discuss the value of high-quality materials over quantity, emphasizing how items made from natural, renewable resources (like wooden toys) are more sustainable and durable than plastic alternatives.

These themes are deeply embedded in everyday routines in ECEC settings, starting with simple actions like washing hands, discussing the origins of food during meals, and creatively reusing packaging materials for crafts. These concepts help children understand that their choices matter and have an impact on the environment. Educators act as role models, guiding children through everyday decisions that promote responsible consumption.

A constant dialogue between educators and children in day-to-day situations, alongside focused discussions during circle time, reinforces these lessons. Visual aids like stories, picture books, and performances provide effective starting points for conversations about sustainability, fostering creativity and problem-solving skills in children.

However, cultural and socio-economic backgrounds can influence how sustainability is perceived and practiced. Families with fewer resources may face difficulties participating in sustainable practices due to higher costs associated with eco-friendly products. It is essential for educators to create a supportive and inclusive environment, acknowledging these differences without placing blame. Instead, they can encourage children to find small ways to contribute to sustainability within their means.

For younger children (aged 4 and under), the focus should be on foundational values like sharing, caring for the environment, and community involvement. As children grow older (around 5 years and up), more complex topics like sustainable materials and farming can be gradually introduced.

#### 4.7.3 Activities, Methods, and Tools for this SDG

Incorporating SDG 12 into Early Childhood Education and Care (ECEC) can be achieved through engaging activities and storytelling.

##### Activities:

- **Planting Vegetables and Fruit in the Garden:** Creating a small garden path and decide together with the children, what their favorite fruit and vegetables are, which are regional and plant them.
- **Cooking and Communal mindful Eating:** Using the fresh produce to cook as well as eating in a communal setting, mindfully choosing their own portion.
- **Field Trips to local Farmers Markets and Super Markets:** Visiting local farmers markets, giving the children the opportunity to ask questions to the farmers. Visit also super markets with the aim of buying food with the least possible packaging waste and discuss which are the best options (regional and season products instead of food that traveled far).
- **Project Work and Experiments:** Exploring natural resources like water, electricity, wood, fuel etc. and learn about their origin and the process of getting this resource. The children can gain first-hand insights with simple experiments and document their findings with drawn supply maps, photo boards etc.
- **Recycle and Reuse Activities:** Creating the different recycle containers together and initiate playful activities recycling everyday materials and the children's rubbish. Discuss which of these materials we might could reuse to create something new. Create compost with organic waste that can be used in the garden.
- **Repair Day:** Initiate a repair day in the kindergarten once per week to repair broken toys and resources together with the children. The aim is to foster mindful use of the resources that the repair day might not be needed at all in the future.

## Teaching Methods:

- **Interactive Storytelling:** Using stories and books about water and electricity sources, waste and the food chain.
- **Interdisciplinary Storytelling:** Using different forms of theatre and performance to tell stories concerning this SDG, i.e. puppet theatre, shadow theatre, stories in movement, songs that tell a story.
- **Project-Based Learning:** Engage children to formulate questions concerning natural and produced ressources and waste and explore them together, using different educational fields as arts, music, physical exercise and movement, science etc.
- **Experiential Learning:** Hands-on Activities as recycling waste, repair broken toys, plant fruit and vegetables in the garden etc.
- **Media and Digital Tools:** Incorporate small videos and multimedia ressources as well as digital tools for storytelling.

## Tools and Ressources:

### Books:

- “What a Waste. Trash, Recycling and Protecting our Planet” by Jess French.
- “Why should I save Water?” by Jen Green.
- “How everything works” by Lonely Planet Kids.
- “Where does my Food come from? The Story of how your favourite Food is made” by Annabel Karmel and Alex Willmore.

#### Stories:

- <https://tuptuptup.org.pl/en/bajki-en/> Various picture stories related to the 12th SDG

#### Technology and Apps:

- Puppet Pals HD for digital storytelling

#### Educational Videos:

- <https://www.youtube.com/watch?v=dn-hLQk49eA> Introduction and summary to the 12th SDG
- <https://youtu.be/a5B2Sg-0ImM?feature=shared> SDG explained by children
- <https://youtu.be/TPG6E4nxtSw?feature=shared> The 3R Principle: Recycle, Reuse and Repair

#### Projects:

**Fruit and Vegetable Day in the Kindergarten of DSA (German School Athens):** Once per week the children of the class are invited to bring a piece of fruit or vegetables to the kindergarten. We collect them in a basket and discuss during the day what types of fruit and veggies we have, what form and colour they have, how they taste and where they are coming from. Then we prepare the food together with the children, i.e. fruit platter, cooking soups, salads etc and eat in a communal way where all children share the food and try to choose only what they really want to eat.

**Various Projects including various SDGs at Fröbelkindergarten Eifelstraße Köln:** Selfmade toys, zero waste shopping trips, gardening, a day without electricity etc.  
<https://eifelstrasse.froebel.info/aktuelles>



## 5 Planet

This section focuses on the second P: **Planet**, emphasizing the importance of protecting the planet from exploitation and pollution. Sustainable consumption, natural resource management, and combating climate change are essential for securing livelihoods for current and future generations. Key initiatives include reducing waste, promoting renewable energy, and conserving biodiversity. The ultimate aim is to build resilient societies that can adapt to environmental challenges, ensuring the planet's health and sustainability for all living organisms.

### 5.1 SDG 13: Climate Action

#### 5.1.1 Introduction to the SDG



This section explores the integration of Climate Action (SDG 13) into early childhood education. Climate change has become one of the most pressing global issues, characterized by extreme weather events, rising sea levels, and biodiversity loss. The core objective of SDG 13 is to "take urgent action to combat climate change and its impacts." Its main targets include increasing resilience to climate change, integrating climate measures into policies, enhancing education and awareness, and supporting climate actions, especially in vulnerable countries.

The relevance of SDG 13 to Early Childhood Education and Care cannot be overstated. Young children will be deeply impacted by the effects of climate change, making it crucial to educate them on sustainable practices from an early age. As children's brains are highly receptive to new information, early exposure to climate-friendly behaviors promotes sustainable living habits. Studies show that young children are eager to engage in climate-related activities, and incorporating this SDG into the ECEC curriculum equips them to be future advocates for environmental change.

Moreover, integrating climate action education contributes to children's cognitive, social, and emotional development by helping them understand the importance of their relationship with nature. It fosters a sense of belonging, respect for other species, and a basic understanding of the interconnectedness of ecosystems. Additionally, it cultivates curiosity and critical thinking as children observe environmental changes, ask questions, and develop a sense of responsibility towards the planet. Educating young children about climate action is also closely tied to children's rights, as it equips them with knowledge that can shape their future and empower them to participate in decision-making processes affecting their lives.

Incorporating SDG 13 into the preschool curriculum is critical for nurturing environmentally conscious individuals from a young age, ensuring they contribute to mitigating climate change and safeguarding the planet for future generations.

## 5.1.2 Educational Topics and Challenges

Integrating SDG 13 into Early Childhood Education and Care introduces children to essential themes like climate change, environmental stewardship, and sustainable living. Topics such as climate change causes and impacts, biodiversity loss, pollution, and basic scientific concepts (weather, plants, animals, ecosystems) are central to the curriculum. Educators can focus on engaging children through outdoor and indoor activities that are age-appropriate and practice-oriented, helping them understand how their actions can protect the environment.

- **Environmental Stewardship:** By teaching children small, everyday actions—such as turning off lights or saving water—they learn to take care of the planet. Activities like gardening or sorting waste into recycling bins can help them grasp the impact of these simple habits.
- **Sustainable Practices:** Lessons about reducing waste, reusing items, and opting for sustainable food choices are key to fostering mindful consumption. Children can be introduced to plant-based diets or the importance of renewable energy in easy-to-understand ways.

Despite the importance of these themes, there are several challenges in integrating climate education into ECEC programs. Time and curriculum constraints often limit the depth at which climate action can be explored. Additionally, limited resources and economic challenges can prevent schools from adopting comprehensive environmental education programs. Some parents might have concerns about outdoor learning, believing that playing outside poses risks, which can conflict with climate education's nature-based learning approach.

Educators also face the challenge of cultural attitudes towards climate action. In communities where human dominance over nature is emphasized, children's environmental attitudes may be shaped accordingly, influencing their responses to climate-related topics. Addressing this requires thoughtful adaptation of climate content to ensure cultural sensitivity while promoting environmental responsibility.

Ultimately, the task of introducing SDG 13 into ECEC settings involves overcoming these obstacles while ensuring the material is developmentally appropriate. Through interactive, relatable activities and constant dialogue between children and educators, early learners can begin to understand and appreciate the importance of climate action.

## 5.1.3 Activities, Methods, and Tools for this SDG

According to international bibliography, several teaching methods combined with practical activities are highly effective in conveying climate action principles to young learners in ECEC settings.

### Teaching Methods and Activities

- **Nature-based learning:** Activities like outdoor play, tree climbing, and exploring nature to observe plants and animals (Ginsburg & Audley, 2020; Spiteri, 2023).
- **Place-based learning:** Involving children in community-based projects, such as cleaning up local areas (Spiteri, 2023).
- **Inquiry-based learning:** For instance, during slow forest walks, children observe nature and ask questions about plants, animals, and climate change, prompting critical thinking and research (Tulloch et al., 2023).
- **Project-based learning:** Organizing workshops, such as “energy workshops,” creating worm farms, or practicing community gardening fosters hands-on learning (Hayden, 2023).
- **Arts-based learning:** Incorporating storytelling and animated stories that explain environmental issues, like composting and recycling (e.g., Green Guardians lesson).
- **Experiential learning:** Role-playing activities such as “Habitats,” where children pretend to be species surviving in specific ecosystems.
- **Play-based learning:** Examples include the “Build a Bee Hotel” activity to promote biodiversity (Sundberg et al., 2019).

All these activities can be supported using natural and open-ended materials (sand, sandstone, moss, magazines, balls, baskets, paper plates, food containers, etc.) (Farrell, 2023). Furthermore, the following books are useful to teach about energy conservation (“Guzzler’s Party Book”, by Lucinda Jacob) (Hayden, 2023), renewable energy (“The Windy Farm”, by Anna Milbourne) and environmental protection (“The Tomorrow Book”, by Jackie French) (Boyd, 2023). Indisputably teaching about environmental sustainability could be enhanced by utilising digital resources combined with effective teaching methods, such as digital storytelling and especially collaborative storytelling, where children can “co-construct” a digital story, which arises from multiple individual stories, fostering dialogue, diversity and inclusion (a practice that aligns with quality education SDG) (Daskolia et al., 2015).

Educators can combine play-based learning with digital storytelling methods to achieve better learning outcomes. For instance, the interactive game “Great Reuse Reduce Recycle Relay” that engages children with waste sorting practice can be intertwined with the “Sharing a Small World” narrative, that appeals to children for acting towards the protection of the Earth. In particular, this brief story manages to make children identify with the Earth, through the exploration of the answers to questions, such as “How do you take care of your body?”, “What do you do to keep your room clean”? Afterwards, children are asked to share their thoughts on how we can take care of the Earth.

Some projects and programmes that have managed to successfully incorporate “climate action SDG” into ECEC are: a) the “Eco-Schools” global programme, implemented by member organisations of the FFE (Foundation for Environmental Education) that promotes education for sustainability and environmental values to new generations. The programme is implemented in 99 countries in total at an international level, b) the “Little Green Steps” project (2009-2010) aimed to provide ways of integrating education for climate action into

Australian preschool curriculum and empower children, parents and educators to achieve sustainability. The project operated in a number of children centres, located in Australia and managed to reduce resource consumption and waste, enhance children's education for climate action, through hands-on activities, participation and observation, supported educators and involved parents, through the implementation of workshops and trainings and lastly, c) the "Masters of Trash" recycling project, which was implemented by a public Finnish kindergarten, aiming to raise awareness between children, parents and educators for the protection of the environment, through the enhancement of their understanding about recycling. The results of the project indicated the importance of outdoor play and exploration for adopting environmental-friendly habits and managed to involve parents in promoting environmental sustainability (Sihvonen et al., 2024).

## 5.2 SDG 14: Life below water

### 5.2.1 Introduction to the SDG

Sustainable Development Goal (SDG) 14, Life Below Water, focuses on the conservation and sustainable use of oceans, seas, and marine resources. Oceans play a crucial role in supporting life on Earth, providing essential resources such as food, medicines, and biofuels. They also help regulate climate and reduce the impacts of natural disasters, while their ecosystems help mitigate climate change. However, rising pollution, plastic waste, and overfishing threaten marine biodiversity and the health of our oceans.



The core objectives of SDG 14 aim to significantly reduce marine pollution, protect marine and coastal ecosystems, and manage fish stocks sustainably. This includes ending practices like overfishing and destructive fishing techniques while expanding marine protected areas and promoting scientific research to better understand and protect marine life.

Incorporating SDG 14 into ECEC is essential as it introduces young children to the importance of oceans and marine life, helping them develop a sense of environmental responsibility from an early age. Oceans, often associated with vacations and play, can be a gateway for children to explore life under water. Through engaging activities such as storytelling and hands-on water exploration, educators can introduce children to marine ecosystems, pollution, and the importance of protecting our waters.

### 5.2.2 Educational Topics and Challenges

Incorporating SDG 14, Life Below Water, into ECEC involves introducing key themes related to oceans and marine conservation, while addressing challenges related to curriculum and resources. Possible education topics for ECEC related to this SDG are:

- **Water Cycle:** Explain the water cycle's connection to oceans, helping children understand how water bodies influence the planet's climate and weather.

- **Sustainable Practices:** Introduce sustainable habits like reducing plastic waste and responsible water use to protect oceans.
- **Ocean Conservation:** Explore the impact of pollution, overfishing, and how to protect marine environments.
- **Marine Ecosystems:** Teach children about ocean habitats, such as coral reefs, and emphasize their importance for marine life.

Young children can grasp the relevance of oceans by connecting these topics to their daily lives. Educators can explain how oceans provide food and recreation and why it's crucial to keep them clean and healthy. Children can be taught the idea that every small action counts, whether through recycling or simply reducing waste.

To introduce children to the importance of **protecting marine life**, educators can emphasize that even small actions, such as reducing waste or recycling, can make a significant difference in preserving oceans. Instilling **respect for nature** helps children appreciate the beauty and diversity of marine species, fostering a deeper emotional connection to the environment. Introducing the concept of **community responsibility** teaches children that everyone has a role to play in maintaining clean and healthy waterways, encouraging collective efforts to care for marine ecosystems.

However, integrating these ideas into early childhood education presents some challenges. The **complexity of marine ecosystems** and the science behind ocean conservation can be difficult to simplify for young learners. Furthermore, **resource limitations** in ECEC programs may restrict the availability of materials and tools necessary to effectively teach these topics. Additionally, **curriculum constraints** can limit the time and flexibility available for introducing new environmental lessons, leaving little room for topics like marine conservation.

Cultural and social factors also play a role in how these concepts are received. In communities that depend on fishing, there may be varying perspectives on **marine conservation**, which could influence how educators approach the subject. Similarly, **social awareness** about environmental issues may differ among families, affecting how engaged children and their communities are with SDG 14 topics.

To overcome these challenges, educators can use **hands-on learning** techniques, such as crafting ocean-themed art, participating in beach clean-ups, or exploring local bodies of water, to connect children with marine conservation efforts. **Storytelling and play** are also powerful tools to spark curiosity, as stories about marine animals can help children understand the impact of pollution and inspire a sense of wonder about the ocean. Lastly, **collaborative learning** that involves families and communities in marine conservation projects can deepen children's understanding and foster a sense of shared responsibility toward protecting oceans.

By focusing on these interactive and engaging methods, educators can effectively introduce young children to the principles of marine conservation, empowering them to take small, meaningful actions toward safeguarding the planet's oceans for future generations.



## 5.2.3 Activities, Methods, and Tools for this SDG

Incorporating SDG 14 into Early Childhood Education and Care (ECEC) settings requires a balance of engaging hands-on activities, family involvement, and educational tools. To make the topic relatable, start by exploring children's **immediate surroundings**. For instance, take children on **water discovery tours**, where they observe local water bodies using tools like magnifiers and notepads. Children can note and collect small findings, fostering curiosity about marine life. You can find helpful resources and activities to enrich these experiences through sites like the [Greenpeace marine protection initiative](#), which provides insights on marine conservation.

Many kindergartens have aquariums, allowing children to observe and care for marine life daily. This hands-on interaction helps children develop responsibility for the environment. Introduce children to the concept of **pollution** through their personal experiences. For example, children may have seen plastic waste floating in water on holidays. Encourage them to share these stories, discuss how plastic harms marine ecosystems, and work with parents to organize a **beach or river clean-up day**. This family activity makes the issue of pollution real and relatable, as children physically engage in the task of removing waste from natural water bodies. Follow-up discussions can involve children brainstorming ways to reduce pollution and waste.

An indoor **research project** in the classroom can also provide valuable insights. Set up an **aquarium** or pool where children can experiment with materials like plastic, paper, or organic waste, observing how different objects behave underwater. Children can wear **diving goggles** and observe, for instance, how plastic remains unchanged while paper dissolves over time. Such hands-on projects deepen their understanding of pollution and the environmental impact of waste.

Additionally, **storytelling and multimedia resources** play a vital role in bringing the ocean's significance to life. Websites like [Unicef's resource on life below water](#) and educational videos, such as [this explainer on marine ecosystems](#), offer digital content that can complement your teaching methods. Using these resources, children can learn how marine ecosystems function and how human actions can protect or harm these environments.

By combining **interactive storytelling**, **digital tools**, and hands-on activities like clean-up days or aquarium research projects, educators can bring SDG 14 to life in ways that resonate with young children. Introducing children to the importance of oceans, rivers, and other marine environments through practical, real-world examples encourages them to take an active role in protecting the environment. With a mix of fieldwork, community engagement, and classroom-based exploration, young children can learn the value of conservation in their daily lives.



## 5.3 SDG 15: Life on land

### 5.3.1 Introduction to the SDG



The goal "Life on land" refers to the essential need to protect ecosystems such as forests and rainforests, mountains, wetlands and deserts. Furthermore, it aims to end deforestation and sustainably manage and restore forests. But this goal also addresses biodiversity: Preserving biodiversity and protecting endangered animal and plant species is another aspect of it. The fast decline in variety of species is a big threat today

because about half of ecosystems are in a worse state and are not being used sustainably. Overexploitation through intensive agriculture, deforestation and the consequences of climate change are among the most important causes. 2 billion hectares of land worldwide are considered degraded.

This goal is based on the realisation that healthy ecosystems are the foundations of our lives and that humans need it to survive. Forests protect valleys from avalanches, mangrove forests protect coasts from flooding and rainforests convert CO<sub>2</sub> into oxygen (source: <https://17ziele.de/ziele/15.html>).

Interesting facts on this goal (<https://www.bmz.de/de/agenda-2030/sdg-15>):

- Only 17% of the world's land is protected
- 10 million hectares of forest are lost every year - that's a football pitch every four seconds.
- Intensive agriculture is the cause of almost 90 per cent of forest loss.
- 75% of the most biodiverse areas are in newly industrialising and developing countries
- Every day, up to 150 plant and animal species disappear from the earth (e.g. reptiles: 21% of species are threatened with extinction)
- Increasing soil degradation is affecting food and water security around the world - 1.3 billion people are already directly affected.

Like many other "planet" goals on the agenda, this one has a major impact on other goals and jeopardises their implementation, for example food security, clean water or the fight against climate change, which seems unrealisable without the preservation of tropical forests.

What can a sustainable use of terrestrial ecosystems look like? Here different perspectives and interests often clash - Agriculture, Environmental NGOs and governments do have different priorities and points of view when searching for an answer. Fact is that not only humans but as well animals and all life have their own needs and rights to an intact habitat.

This goal is therefore central to a sustainable future for our children, because terrestrial ecosystems are the basis of our lives - now and in the future. Even at this age, children can

understand the importance of treating them fairly and carefully if suitable educational programmes and activities are provided: Experiences in nature and with nature - plants and animals - are important for this, as are scientific knowledge and joint activities on environmental protection and age-appropriate reflection on consumer behaviour.

Raising awareness at a young age has an influence on the value children place on nature and the environment and therefore influences their behaviour - adults are of course role models here.

### 5.3.2 Educational Topics and Challenges

Learning responsibility for nature and the environment - to an appropriate extent - and reflecting on the value of intact nature itself is part of the value formation that begins in kindergarten. It is beneficial to work on this over a longer period of time and to provide suitable play activities or opportunities to experience nature. Another opportunity lies in the fact that when children develop an awareness of sustainability, they usually also sensitise their families and thus generate longer-lasting positive effects.

The educational area of nature and technology in the educational framework plan already contains a number of references in the area of **pedagogical action**:

- What nature observations are children encouraged to make? What activities are offered on the subject of environmental protection?
- When children are in the garden and forest: what games do we play?
- **Sensory experiences**: what does a tree feel like, what does an animal's fur feel like, what sounds does the forest make, what do the berries on the bush taste like, what do animal tracks look like ...
- How can children be involved in caring for plants and animals and working in the garden? How can we encourage children to engage with animals?
- How do the children react to natural events and animals? Which pets can be brought along?
- What questions about science and the environment do children ask? What strategies can children learn to answer questions?
- How are teachers doing at explaining scientific relationships to children in a simple but factual way?
- What activities encourage children to discover and experiment in nature?
- **Parent work**: do we know which children have nature experiences and do we talk to parents about them?

(Source: Province of Salzburg, Department 2 (ed.): Bildungs Rahmen Plan Umsetzung. Province of Salzburg, 2022. p. 44f.)

**Challenges or Obstacles** can be seen in cultural differences how children get in touch with nature and which leisure activities families do: If they spend a lot of time outside, in the garden, park or forest or if they mainly stay at home - depending also from existing possibilities (including time capacities) and place of residence. If children have pets or have visited a farm or simply have some knowledge about animals makes a difference.

Teachers may encounter difficulties if children have detailed questions or do not feel sufficiently prepared to explain events in nature and scientific relationships. Here, it is a good idea to research together with the children and look for answers - a teacher does not have to know everything. Nature education programmes such as guided tours of forests, meadows or farms are already available in many towns and communities. Non-fiction books for children from libraries also provide age-appropriate knowledge.

The core message of working towards this goal is the appreciation of nature itself and the importance of biodiversity for the planet - regardless of its benefits for us humans. We are part of the earth's ecosystem and have a responsibility towards nature. Plants and animals also need living space and have rights; humans must protect them and ensure a fair distribution of resources.

We recommend the publication "Sustainability for children": This also identifies the alienation process between humans and nature as a hurdle in sustainability education and emphasises the need for education to be more mindful of all living beings.

### 5.3.3 Activities, Methods, and Tools for this SDG

Sensitivity towards nature and knowledge about it can best be developed through hands-on activities and sensory experiences. Engaging with plants and animals during walks, excursions, or while gardening allows children to learn about biodiversity, the importance of trees, and small-scale environmental protection. For example, exploring the forest helps children identify different trees and understand their role in climate regulation and habitat protection. Workshops such as "See you soon in the forest" and "Forest pharmacy" in the Salzburg Lungau Biosphere Reserve are excellent models of these educational experiences.

- **Forest:** What trees do we have and is the forest healthy? What do trees do for the climate? Why is it important to plant trees? What functions does the forest have (climate, protection, commercial forest, habitat). A concrete example of an educational programme are the workshops: "See you soon in the forest - forest life in every season" and "Forest pharmacy - the gentle healing power of trees" in the Salzburg Lungau Biosphere Reserve.
- **Animals:** What wild animals are there in my neighbourhood? What should I look out for when I encounter them? Many children are afraid of arachnids or other insects, snakes etc.. The aim here is to arouse curiosity and explore the function of these animals. The children can also bring their pets with them by prior arrangement.
- **Biodiversity:** Why do we need all these different plants and animals, what significance do they have? Which animals and plants can be found on the farm and which in the wild? We can collect different species with a magnifying glass and

learn about them. A vegetable patch can be created in the kindergarten itself, where the children can do their own work. Projects about bees are also a great way to show the interdependence of animals, plants and humans.

- **Soil:** Who lives in the soil? Did you know that around 100 earthworms live in one cubic metre of healthy soil? And millions of other worms, bacteria, larvae, isopods, spiders, snails, etc.? These soil creatures can be studied with a beaker magnifying glass, and a worm box can be purchased or built to visualise the performance of earthworms.
- **Environmental protection and economical use of resources:** activities to reduce pollution and avoid waste are on the programme at most kindergartens, and upcycling workshops are also popular. Here are a few examples:
  - Waste separation: There is already a range of materials and templates for practising this in a playful way. Rubbish can be separated with the youngest children, for example paper from plastic. Then you can track down and collect rubbish in the neighbourhood and separate it properly in your own group room - instructions can be found here: <https://www.prokita-portal.de/bildungsbereiche-entwicklungsziele-kita/umgang-muell-kinder/>
  - Food waste: Is there food waste in kindergarten? What happens to leftovers at snack and lunch? If so, what ideas are there for avoiding it? Why does a sliced apple turn brown? If children know what happens here chemically, they are more likely to eat it.

Reflecting on **consumer behaviour** - work can be done with the children here, the kindergarten as an institution should also act as a role model here, because children at this age imitate what they observe in adults. This means that educators and the kindergarten itself should also reflect on their own behaviour and ideally:

- Buy and consume less - reuse, share, swap, do without or recycle if necessary
- Look for seals that prove that products have been produced sustainably and fairly and do not contribute to deforestation.
- Implement climate and environmental protection measures in the organisation

## Handicrafts and crafts

Natural materials are a wonderful way to do handicrafts and crafts in keeping with the season, allowing you to experience nature in a tactile way. Earth, clay, branches and tree cones, chestnuts, leaves, etc. are naturally used in kindergartens. A mandala made from various materials is also a great idea.

Animal and nature drawings as well as making hand puppets (to show the transformation of insects, for example) are just a few of the countless things that are done in kindergartens.

Nursery school teachers tell us about the changes they observe when children become more involved with the environment and nature:

- The children begin to talk about home (e.g. what they do when there is leftover food)
- The children talk about what they have learnt at home
- Children pay more attention to the environment and to what adults do
- The children can then make better decisions about how to help shape their environment
- Everyone must help together! Realising this promotes a sense of community!

## 6 Peace

### 6.1 SDG 16: Peace justice and strong institutions

#### 6.1.1 Introduction to the SDG



Sustainable Development Goal 16 (SDG 16) is focused on promoting peace, justice, and strong institutions as a foundation for sustainable development. The core objectives include reducing violence, ensuring access to justice, combating corruption, and fostering inclusive, transparent institutions at all levels. It emphasizes the protection of children's rights, eliminating abuse, and promoting non-discriminatory policies. SDG 16 is

highly relevant to Early Childhood Education and Care (ECEC) by creating safe, inclusive environments essential for children's emotional, social, and cognitive development. By upholding justice, equality, and transparency, it fosters a society where every child has the opportunity to thrive.

Promoting peace in early childhood settings is vital as a stable, secure environment fosters healthy child development. ECEC institutions can help by teaching children non-violent conflict resolution, encouraging empathy, and nurturing an inclusive mindset. Legal protections for children's rights, as stressed by SDG 16, ensure that children are shielded from abuse, neglect, and exploitation, which is critical for their physical and psychological well-being.

The fight against corruption, another key focus of SDG 16, directly impacts the quality of early childhood education. Corruption undermines public trust and diverts resources from essential services. When institutions are transparent and accountable, children benefit from more effective allocation of resources, including access to quality education and healthcare. The inclusion of non-discriminatory policies guarantees that every child, irrespective of race, gender, or socioeconomic status, can access the same opportunities and services, fostering equality from an early age.

Educators can actively engage young learners with concepts tied to peace, justice, and fairness through interactive methods such as storytelling, role-playing, and group activities that emphasize cooperation, respect, and empathy. By integrating principles of SDG 16 into

the classroom, ECEC providers contribute to raising a generation of socially responsible individuals who understand the importance of justice and inclusivity. Institutions that operate transparently also set a strong example, demonstrating the importance of accountability and the role it plays in societal well-being. This builds trust in governance and social systems, benefiting future generations.

In summary, SDG 16 aligns with the goals of Early Childhood Education by creating peaceful, just, and inclusive societies. These goals are not only critical for children's immediate development but also lay the groundwork for a just and equitable future, ensuring that young learners grow up in environments where they feel safe, valued, and empowered to contribute to a more peaceful and fair world.

### 6.1.2 Educational Topics and Challenges

Sustainable Development Goal 16 (SDG 16) offers various themes and subjects that can be integrated into Early Childhood Education and Care (ECEC) to teach peace, justice, and the importance of strong institutions. Several key themes can be introduced to help young children grasp these important concepts.

- One such theme is **peace education**, where children learn about the importance of peace, conflict resolution, and cooperation through age-appropriate activities, stories, and discussions. These lessons help to cultivate empathy, understanding, and respect for others' perspectives. **Social and Emotional Learning (SEL)** can also be incorporated, as it helps children develop empathy, self-regulation, and problem-solving skills, all of which are essential for fostering positive relationships and peaceful interactions.
- The idea of **diversity and inclusion** can also be promoted by celebrating differences in cultures, languages, and traditions through multicultural books, materials, and activities. This allows children to develop an appreciation for diversity and respect for all individuals. Along with this, it is important to introduce children to the concept of **rights and responsibilities** by teaching them about their own rights and the need to respect the rights of others. Role-playing and discussions about fairness, equality, and justice can help children understand these concepts in a simple, relatable way.
- Another crucial theme is **community engagement**, where children are encouraged to participate in community projects, such as service projects or visits to local institutions, helping them recognize the role of community and institutions in maintaining peace and justice. Educators can also teach **conflict resolution skills** by providing strategies like "I-messages" to express feelings and helping children practice these skills through role-playing and peer mediation.
- **Environmental stewardship** can also be tied to SDG 16 by exploring how taking care of the environment connects to peace, teaching children the importance of conservation and responsible resource use. **Critical thinking and media literacy** can be introduced in age-appropriate ways to help children evaluate messages and



information, empowering them to be informed participants in shaping a just society.

Conveying these ideas to young children is most effective when using simple language, relatable stories, and hands-on activities. For example, educators can teach about fairness by encouraging children to share and take turns, emphasizing that everyone deserves equal treatment. Through collaborative art projects, role-playing games, and storytelling, children can learn the importance of cooperation and problem-solving.

However, there are **several challenges** to integrating SDG 16 into ECEC programs. These challenges include the complexity of the concepts, limited resources, and curriculum constraints. Simplifying complex ideas such as justice and institutions can be difficult, and educators may struggle with finding age-appropriate materials. In addition, integrating these lessons into already packed curriculums can be difficult, as these topics may not be explicitly addressed in current frameworks.

Cultural and social factors also play a role in how SDG 16 is introduced in early education settings. For example, diverse cultural norms and values can affect how families and communities perceive topics such as peace, justice, and equality. Additionally, socioeconomic factors may influence children's access to programs that incorporate SDG 16 principles. Educators must work to create inclusive environments that take into account the diverse backgrounds of their students.

When introducing SDG 16 concepts to young children, educators must also be mindful of **age-appropriateness**. While young children can understand simple concepts like fairness and cooperation, more complex ideas about justice and institutions may be beyond their developmental level. Educators may also face difficulties finding suitable materials that effectively communicate these themes to young learners. It is important to strike a balance between providing accurate information and simplifying complex ideas to avoid overwhelming children.

Despite these challenges, integrating SDG 16 into early childhood education offers valuable opportunities for fostering empathy, responsibility, and social awareness in young learners. By teaching children about peace, justice, and inclusion in developmentally appropriate ways, educators can help lay the foundation for a more peaceful, just, and equitable future.

In summary, Sustainable Development Goal 16 can be integrated into Early Childhood Education and Care programs by focusing on themes such as peace education, social justice, diversity, and community engagement. While there are obstacles such as limited awareness, resources, and cultural factors, addressing these themes in early education offers important opportunities for fostering positive values in young children and helping them grow into responsible and empathetic global citizens.

### 6.1.3 Activities, Methods, and Tools for this SDG

To engage children with Sustainable Development Goal 16 (SDG 16), which focuses on peace, justice, and strong institutions, educators can use a variety of age-appropriate activities, methods, and tools.

- **Storytelling and role-playing** are powerful methods. Through stories featuring characters who resolve conflicts peacefully and demonstrate fairness, children can learn empathy and problem-solving skills. Role-playing scenarios allow children to act out real-life situations, such as sharing toys or working through disagreements, helping them internalize the values of SDG 16.
- **Collaborative art projects** can also promote themes of peace and cooperation. Children can work together to create murals or drawings that reflect their vision of a fair and peaceful community. This not only encourages teamwork but also opens discussions about what makes a safe and just environment.
- Involving children in creating **classroom rules and assigning responsibilities** fosters a sense of justice and accountability. By allowing children to contribute to the rules that govern their daily activities, they learn the importance of fairness and respecting others' rights.
- Similarly, **conflict resolution games** and activities that teach children how to express their feelings and listen to others are crucial in promoting peaceful interactions. Games that involve role-playing or using "I-messages" to express feelings can help children practice resolving conflicts in a non-violent manner.
- **Peaceful playtime** and games that require teamwork and cooperation help children practice the principles of collaboration and peaceful problem-solving in a fun, interactive setting. Educators can guide children through real-life situations to discuss fairness, helping them understand justice through their everyday interactions.

**Books** like "The Peace Book" by Todd Parr or "Last Stop on Market Street" by Matt de la Peña are valuable resources for introducing the idea of peace and justice in a relatable and colorful way. These books can serve as conversation starters about kindness, empathy, and fairness.

Role-playing tools, such as **puppets and costumes**, can also be used to make abstract concepts more concrete. Children can act out scenarios that involve conflict resolution or cooperation, helping them understand these concepts through play.

**Hands-on materials**, such as building blocks, can be used in activities that emphasize teamwork and cooperation. Collaborative projects, like creating a "Peace Mural" or a "Fairness Garden," allow each child to contribute to a larger, shared goal.

Additionally, **guest speakers** from the local community, such as police officers or government officials, can help children understand the roles of institutions in maintaining peace and justice. These visits make the concepts of SDG 16 more accessible by providing real-world examples that children can relate to.

## Successful Projects and Initiatives

Several successful projects in Europe have effectively incorporated SDG 16 into ECEC. For example, the **Living Peace International** initiative in Italy promotes a culture of peace through education, using peace-themed activities and games. The **Roots of Empathy** program,



implemented in Ireland, fosters emotional literacy and empathy by bringing a baby and parent into the classroom, allowing children to learn about emotions and empathy in a tangible way.

In the UK, the **Seeds of Peace** initiative focuses on teaching conflict resolution and empathy through interactive activities and storytelling. The **Reggio Emilia Approach**, originating in Italy, and the **Montessori Method** also provide experiential and child-centered learning environments that align with the goals of SDG 16, focusing on independence, respect, and community collaboration.

By using these methods and tools, educators can help young children understand and engage with the principles of peace, justice, and strong institutions in a meaningful and developmentally appropriate way. These activities not only teach children about fairness and cooperation but also empower them to contribute to creating a peaceful and just world.



## 7 Partnership

### 7.1 SDG 17: Partnerships for the goals

#### 7.1.1 Introduction to the SDG



Sustainable Development Goal 17 aims to strengthen global partnerships between governments, the private sector, and civil society to mobilize resources, share knowledge, and foster cooperation to achieve sustainable development. By encouraging cross-sector collaboration, SDG 17 seeks to build synergies and ensure that all sectors are working together towards the common goal of sustainable and equitable growth.

SDG 17 is relevant to Early Childhood Education and Care because **effective partnerships are essential to ensuring that all children, regardless of background, have access to quality education, health, and social services**. Collaboration between educational institutions, community organizations, governments, and private entities helps fill funding gaps, provides capacity-building, and ensures that comprehensive, well-resourced programs are available for children in early learning stages.

Partnerships help connect ECEC with broader social goals, such as poverty reduction, gender equality, and improved health outcomes. In particular, partnerships enable the integration of health, nutrition, and educational services in a more holistic manner, ensuring that children benefit from multidimensional support.

SDG 17 contributes to the well-being of young children by facilitating resources and expertise to ensure high-quality early childhood education and care. Strong partnerships allow communities to build innovative programs, improve teacher training, and increase access to early learning facilities, particularly in underserved areas. By bridging gaps in resources and knowledge, SDG 17 helps promote equitable opportunities for young children, fostering environments conducive to their cognitive, emotional, and social development.

These partnerships ensure that no child is left behind and that all children have the opportunity to thrive, laying the foundation for lifelong success. Partnerships in ECEC also emphasize the need for joint accountability in meeting children's developmental needs, enhancing long-term educational outcomes, and supporting families in creating positive learning environments. Through these collaborations, SDG 17 paves the way for more inclusive and comprehensive approaches to early childhood care.

#### 7.1.2 Educational Topics and Challenges

Incorporating SDG 17 into the Early Childhood Education and Care (ECEC) curriculum involves teaching collaboration, community engagement, and the importance of working together. Themes like **teamwork, global partnerships, and helping others** can be introduced through group activities, storytelling, and role-playing. Educators can focus on simple



concepts like sharing resources and the importance of everyone contributing to a collective goal.

- **Explaining the Importance of Partnerships:** Educators can explain SDG 17 by relating it to the children's immediate experiences, such as sharing toys or helping each other. By explaining that when people come together, they can achieve more, children can grasp the importance of partnerships. Activities like group art projects, working on a community garden, or organizing charity events teach children how collaboration makes positive changes.

### Key Messages for Early Learners

- **Teamwork Matters:** By working together, we can make our communities better places.
- **Helping Others:** Sharing and helping improve everyone's situation.
- **The World is Connected:** Communities, schools, and families can achieve great things when they work together.

However, not all schools have the tools or time to emphasize global collaboration. Additionally, **abstract concepts** like global partnerships might be challenging for young children to grasp. Educators need to find developmentally appropriate ways to explain these ideas. Cultural norms around sharing and teamwork may vary, influencing how concepts related to SDG 17 are taught. Some cultures may prioritize individual achievement over collaboration, which can impact how children perceive teamwork. Educators need to navigate these cultural differences sensitively while promoting inclusiveness.

Younger children may find it difficult to understand the global implications of SDG 17. Educators must adapt the content to be developmentally appropriate by focusing on **small-scale cooperation** and **local partnerships** first. Building an understanding of teamwork and collaboration can be gradually expanded as children mature.

In conclusion, integrating SDG 17 into ECEC programs can help foster a sense of global citizenship and cooperation in young learners. Through hands-on activities, discussions, and community involvement, children can begin to understand the value of partnerships and working together to build a better world.

### 7.1.3 Activities, Methods, and Tools for this SDG

In our classrooms, we can use storytelling to understand partnerships. To help our children understand and engage with SDG 17, educators can use a variety of hands-on, interactive activities that **emphasize teamwork and collaboration**. Children can take turns adding to a story where the characters work together to solve a problem. This helps them understand how partnerships and teamwork lead to success.

- Teachers and children can work together on a **large artwork project**, where each child contributes a part (e.g., animals in a jungle or a town with homes). This visualizes the idea of contributing to a shared goal.

- Children can learn and play **community helpers in theater** (e.g., doctors, teachers, farmers), showing how people in different roles work together to help a community thrive.
- In Arts and Crafts class children can use blocks or recycled materials and collaborate to build something as a group, like a bridge or a house, learning the importance of teamwork.
- If a kindergarten space allows for it, a class **garden** can be created where everyone takes responsibility for planting, watering, and harvesting can model the benefits of shared effort and resources.

All these activities can be digitalized by the children by providing them with cameras or similar. After that they can use the pictures to tell their own story about what they achieved and why it might be important what they did.

### Effective Teaching Methods for SDG 17:

Young children respond well to stories that illustrate collaboration, where characters must work together to achieve a common goal. Through role-play, children can better understand social dynamics and cooperation.

Encouraging children to work on small projects together, such as completing puzzles, or doing science experiments as a team. This approach makes the learning process interactive and focused on group effort.

Create a space for children to share their experiences during circle time, where they can talk about experiences they had working together and collaborating on activities.

**Partnerships:** Creating partnerships with local institutions like libraries and facilities that promote sustainability will teach the children early on how important teamwork is to make a change and learn about the world

**Cooperative Games:** Games that work towards a common goal like „telephone“ help the children to understand cooperation and teamwork. The game idea could even be extended to include an actual story in the end.

**Technology:** Educational apps that promote collaboration, such as *Endless Alphabet* (which can be played by more than one child), or group-friendly coding activities (like using robots that require shared commands) can be helpful in introducing the concept of working together through fun, tech-based activities.

### Examples of Successful ECEC Projects Incorporating SDG 17:

- **Community Garden Initiatives:** Some preschools have created community garden projects where children, teachers, parents, and local volunteers work together to plant and maintain a garden. This not only teaches teamwork but also shows how partnerships extend beyond the classroom.
- **Partnerships with Local Organizations:** Early childhood centers often partner with libraries, museums, or environmental organizations to co-create educational

events for children. These initiatives promote collaboration and expose children to different areas of learning while reinforcing the importance of community.

- **Classroom Buddy Systems:** Some programs implement buddy systems where older children help younger children with tasks or learning activities. This fosters a sense of responsibility, collaboration, and partnership between different age groups.
- **Global Pen Pal Projects:** Even at the kindergarten level, connecting children with classrooms from other parts of the world through pictures, simple letters, or videos can introduce them to the concept of global partnership and how working together globally can solve problems. Telling them stories in letters and sharing projects with photos promotes a feeling of teamwork across space and time.

By incorporating these activities, methods, and resources, children can better understand the principles of SDG 17 and see firsthand how partnerships lead to positive outcomes for themselves and their communities.



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