



# Art Design & Sustainability

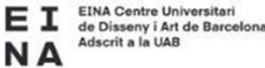
*Design for a better future*



Short Learning Program of “Art & Design & sustainability with special focus on environment and climate change. Cooperation partnerships in higher education.

## Module 1

*Sustainability & Climate change: historical perspective and their relationship with Arts*



# Lesson 1

## Topic 2

Sustainable  
Development Goals  
(SDGs)

## Essential Questions

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What are UN Sustainable Development Goals, their application, and their links with sustainability dimensions?

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How can the concept of sustainability and SDGs be linked to daily routines and work activities?

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How can we participate actively in sustainability actions in our communities

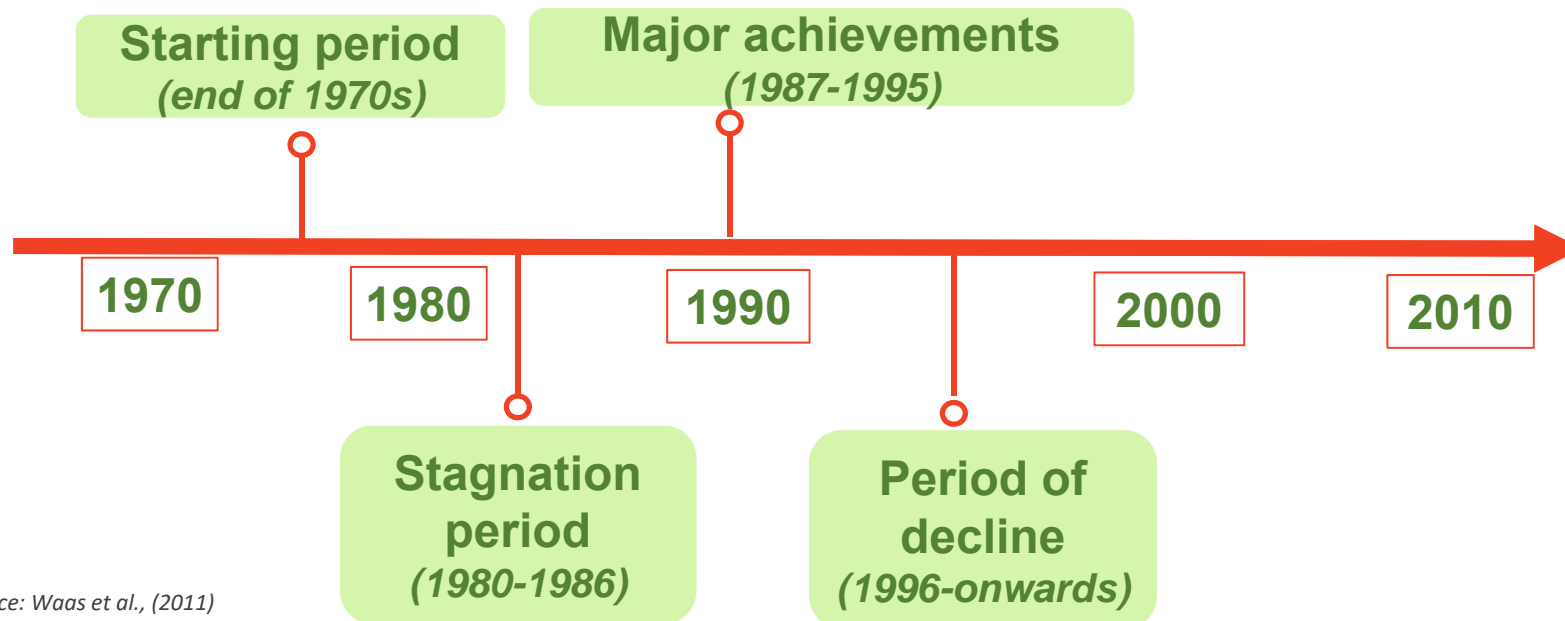
# ***I. UN-Agenda 2030:***

## ***Brief history***

# History of Sustainability

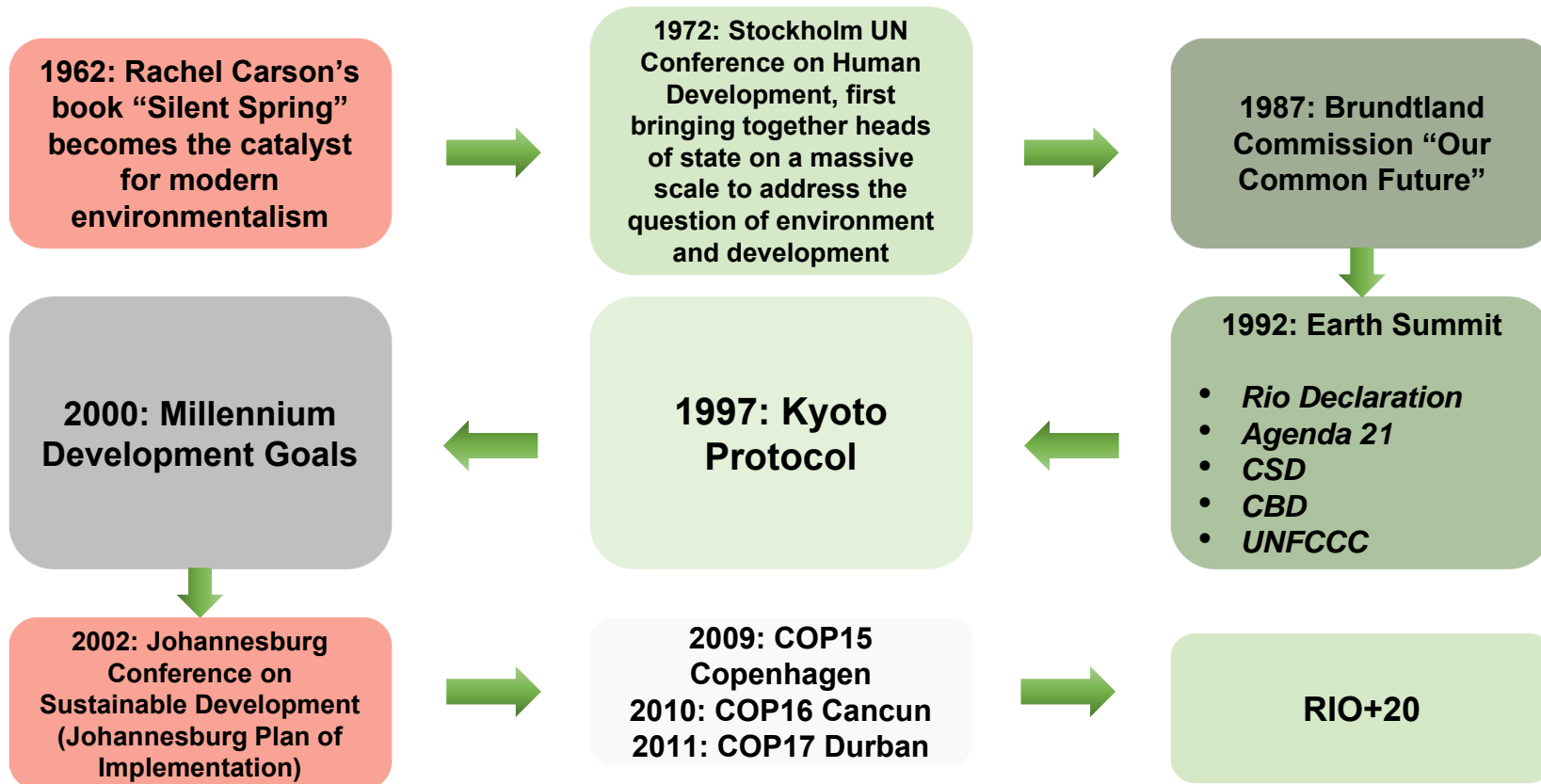
Environmental concerns and sustainable development are not new subjects in international politics.

Four major periods can be distinguished:



Source: Waas et al., (2011)

# A brief history of sustainable development



# Keys Milestones

**1972**

United nations conference on human environment in Stockholm, Sweden; “sustainable development” phrase first used

*Source: Waas et al., (2011)*

**1980**

The International Union for the Conservation of Nature and Natural Resources (IUCN), the Worldwide Fund for Nature (WWF), and United Nations Environment Programme (UNEP), produced the World Conservation Strategy (WCS; 1980)

**1987**

“Our Common Future”  
And  
the ‘Brundtland’ definition

**1992**

The Rio de Janeiro Earth Summit (United Nations Conference on Environment and Development); (UNCED; 1992)  
‘Agenda 21’ - an extensive international agenda for action for sustainable development for the 21st century.

# Keys Milestones

**2000**

United Nations Millennium Summit, world leaders adopted the UN Millennium Declaration, to reduce extreme poverty with a series of time-bound targets - with a deadline of 2015. Known as the Millennium Development Goals. ([www.un.org/millenniumgoals/](http://www.un.org/millenniumgoals/))

**2002**

United nations World Summit on Sustainable Development (WSSD) took place in Johannesburg.

**2012**

Rio+20 United Nations Conference on Sustainable Development (UNCSD)

**2015**

In Rio+20, Member States decided to launch a process to develop a set of Sustainable Development Goals (SDGs), which was build upon the Millennium Development Goals and converged with the post development agenda.

*Source: Waas et al., (2011)*

# Sustainable Development Goals 2030

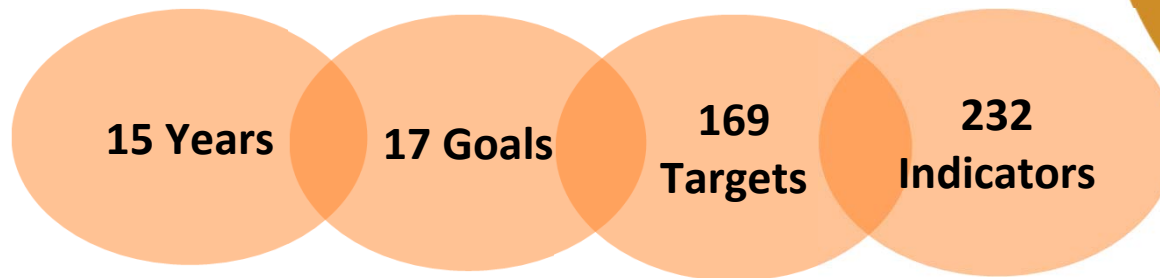


Source: <https://sustainabledevelopment.un.org/>

From 2015 onwards...

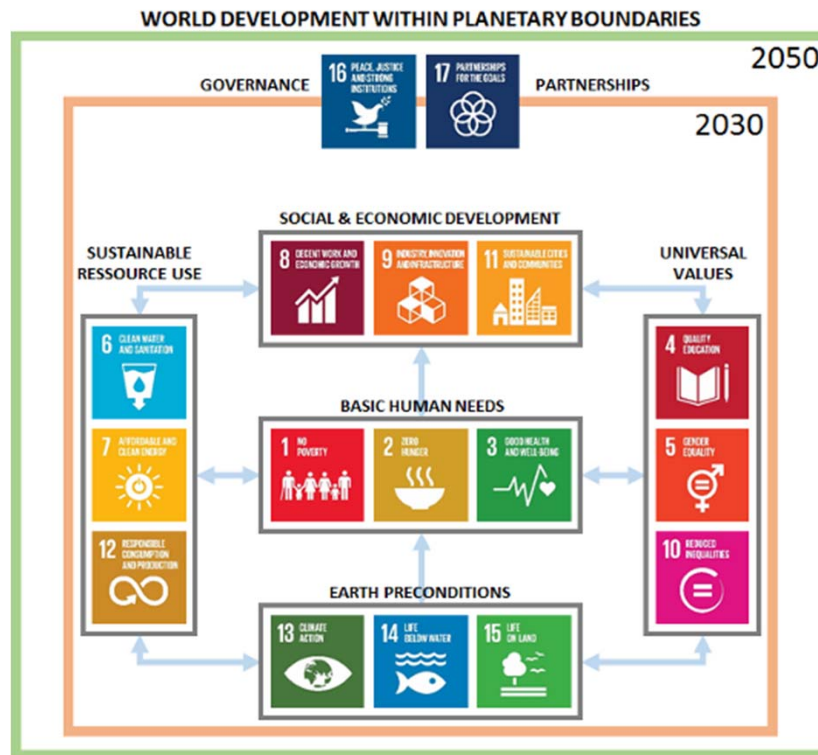
# Sustainable Development Goals 2030

- A set of **17 goals** for the world's future, through 2030
- Backed up by a set of **169 Targets**
- Negotiated over a three-year period at the **United Nations**
- Agreed to by nearly **all the world's** nations, on 25th Sept 2015

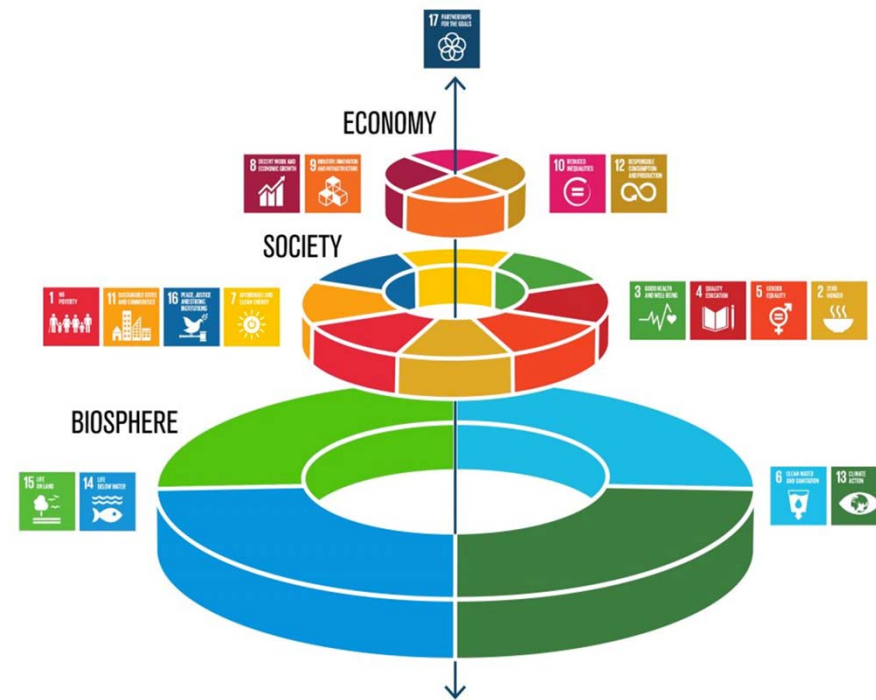


Source: <https://sustainabledevelopment.un.org/>

# Different framework for SDGs



Source: The World in 2050 Annual Report 2017  
[https://iiasa.ac.at/web/home/research/twi/Annual\\_Report\\_TWI2050.pdf](https://iiasa.ac.at/web/home/research/twi/Annual_Report_TWI2050.pdf)



Source: Stockholm Resilience Center

## Five areas (5Ps) of critical importance for humanity and the planet

- One way to measure progress is to focus on the “5 Ps” that shape the SDGs: People, Planet, Prosperity, Peace, and Partnerships. The 5 Ps highlight how the SDGs are an intertwined framework instead of a group of siloed goals.
- Since January 2015 the UN General Assembly has been discussing 17 goals and 169 targets, leading to their adoption by the heads of states and governments at the UN Sustainable Development Summit in September 2015. They address five areas of critical importance for humanity and the planet



Human Development Report (2015)

# What are the five areas (5Ps) about?



Source: Human Development Report (2015)

[http://hdr.undp.org/sites/default/files/2015\\_human\\_development\\_report\\_0.pdf](http://hdr.undp.org/sites/default/files/2015_human_development_report_0.pdf)

# What is new and different about the 17 SDGs?



## Universality

First, and most important, these Goals apply to **every nation and every sector**. Cities, businesses, schools, organizations, all are challenged to act.



## Integration

Second, it is recognized that the Goals are all **inter-connected**, in a system. We cannot aim to achieve just one Goal. We must achieve them all.



## Transformation

And finally, it is widely recognized that achieving these Goals involves making very big, **fundamental changes** in how we live on Earth.

## ***II. Overview of the 17 Sustainable Development Goals (SDGs)***

# Sustainable Development Goals 2030

1 - End poverty in all its forms everywhere

1 NO POVERTY



2 - End hunger, achieve food security and improved nutrition and promote sustainable agriculture

2 ZERO HUNGER



3 - Ensure healthy lives and promote well-being for all at all ages

3 GOOD HEALTH AND WELL-BEING



Source: <http://17goals.org/17goals-basic-slide-set/>

# Sustainable Development Goals 2030

4 - Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

4 QUALITY EDUCATION



5- Achieve gender equality and empower all women and girls

5 GENDER EQUALITY



6- Ensure availability and sustainable management of water and sanitation for all

6 CLEAN WATER AND SANITATION



Source: <http://17goals.org/17goals-basic-slide-set/>

# Sustainable Development Goals 2030

**7** AFFORDABLE AND  
CLEAN ENERGY



**7 - Ensure access to affordable, reliable, sustainable and modern energy for all**

**8** DECENT WORK AND  
ECONOMIC GROWTH



**8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all**

**9** INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



**9 - Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation**

Source: <http://17goals.org/17goals-basic-slide-set/>

# Sustainable Development Goals 2030

**10 - Reduce inequality within and among countries**

**11 - Make cities and human settlements inclusive, safe, resilient and sustainable**

**12 - Ensure sustainable consumption and production patterns**

**10** REDUCED INEQUALITIES



**11** SUSTAINABLE CITIES AND COMMUNITIES



**12** RESPONSIBLE CONSUMPTION AND PRODUCTION



Source: <http://17goals.org/17goals-basic-slide-set/>

# Sustainable Development Goals 2030

**13** CLIMATE ACTION



**13 - Take urgent action to combat climate change and its impacts**

**14** LIFE BELOW WATER



**14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development**

**15** LIFE ON LAND



**15 - Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss**

Source: <http://17goals.org/17goals-basic-slide-set/>

# Sustainable Development Goals 2030



**16** PEACE, JUSTICE AND STRONG INSTITUTIONS



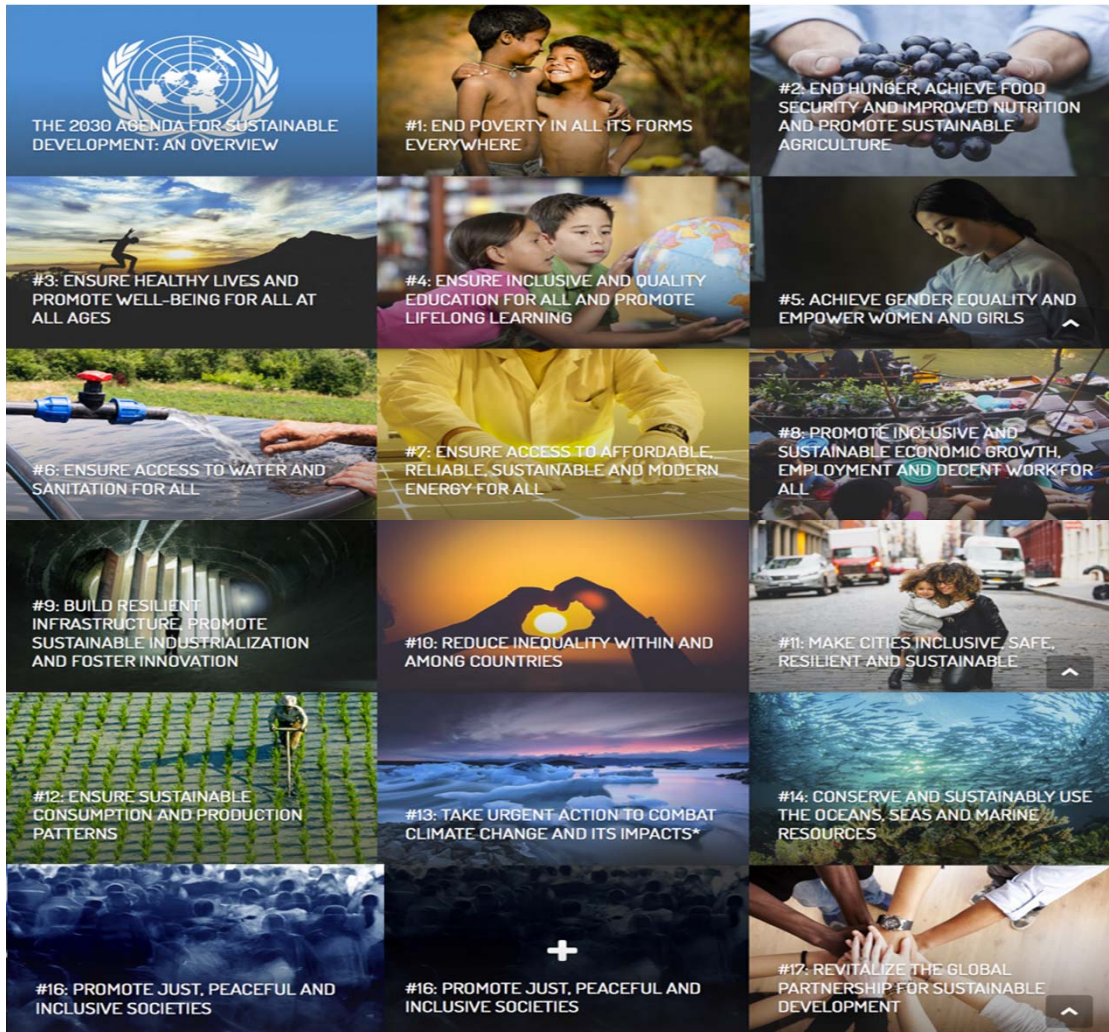
16 - Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

**17** PARTNERSHIPS FOR THE GOALS



17 - Strengthen the means of implementation and revitalize the global partnership for sustainable development

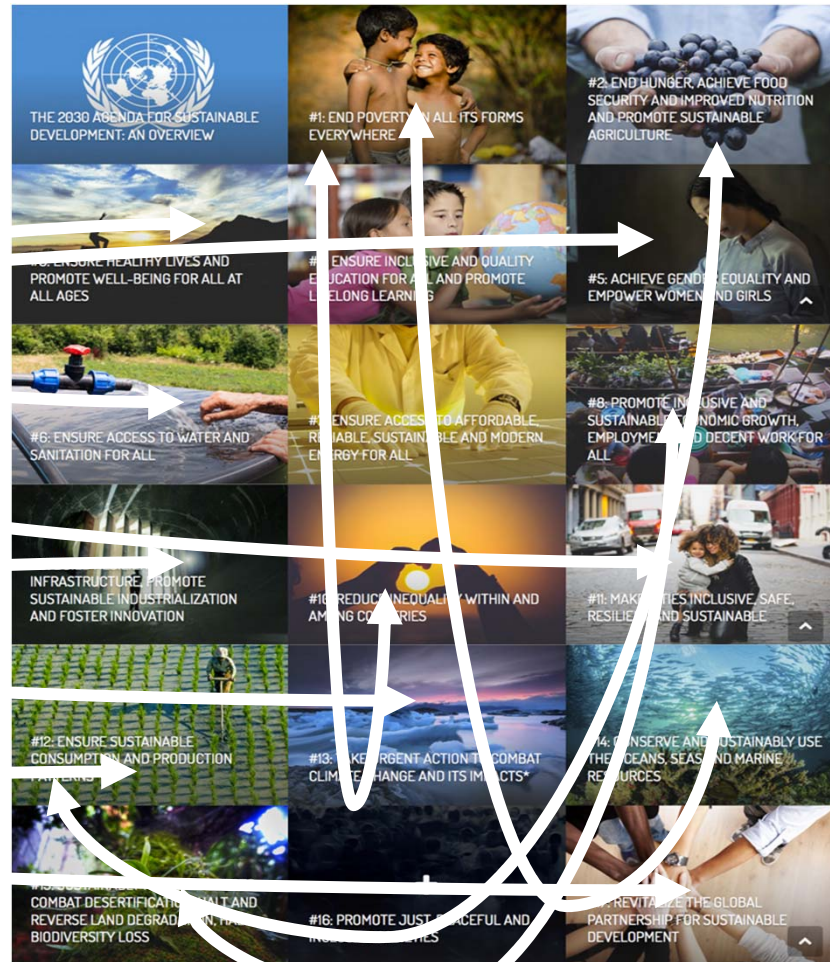
Source: <http://17goals.org/17goals-basic-slide-set/>



**Each goal is important by itself ...**

Source: <http://17goals.org/17goals-basic-slide-set/>

Each goal is important by itself ...



Source: <http://17goals.org/17goals-basic-slide-set/>

And they are **all** connected

**“Never doubt that a small group of thoughtful, committed individuals can change the world; indeed, its the only thing that ever has”**

**Margaret Mead**



Image source: Robert Collins. <https://unsplash.com/photos/tvc5imO5pXk>



## Activity 2 - Summary

Name of Activity	Setting	Aim	Time (h)
A2. Connecting your daily life with Sustainability and SDGs	Both individual and group work  Online and Classroom	This activity aims to connect the sustainability dimensions and the SDGs with your daily activities/behaviors	4



# Activity 2 - Instructions

This activity is part II of the previous activity.

## Part II

**Step 1-** Go back to Activity 1 and the original photo of your daily activity or behavior that you already shared.

**Step 2-** Find a link between your photo and at least two Sustainable Development Goals (SDGs) by answering the following questions (Between 150-200 words):

- Which two SDGs are most connected to your selected example, and how?
- Is there any link/connection between the selected SDGs? If yes, explain how they are interconnected.
- What are two solutions or changes that can be made to your selected example which could increase its alignment with multiple SDGs and the sustainability dimensions?

**Step 3-** Share your response on the Forum/Class.

**Step 4-** After sharing your example on the Forum/Class, comment (between 150-200 words) on an example and its description shared by one other participant. Your comment should answer one of the following questions:

- How another participant's example (or solutions) is/are (or not) linked with multiple SDGs? Or
- Propose one more solution on another participant example that is suited to SDGs or sustainability dimensions.

Note: You should also cite at least one of the readings references available in lesson 1, while developing your work or commenting on the works of other students.

## Further reading

- Wackernagel, M., Hanscom, L., & Lin, D. (2017). Making the Sustainable Development Goals Consistent with Sustainability. *Frontiers in Energy Research*, 5. <https://doi.org/10.3389/fenrg.2017.00018>
- United Nations. Department of Economics and Social Affairs. Sustainable Development. <https://sustainabledevelopment.un.org/sdgs>

## References

- Leal Filho, W., Shiel, C., Paço, A., Mifsud, M., Ávila, L.V., Brandli, L.L., Molthan-Hill, P., Pace, P., Azeiteiro, U.M., Vargas, V.R., Caeiro, S., 2019. Sustainable Development Goals and sustainability teaching at universities: Falling behind or getting ahead of the pack? *J. Clean. Prod.* 232, 285–294. <https://doi.org/10.1016/j.jclepro.2019.05.309>
- Moreno Pires, S., Theodosiou, N., Bacelar-Nicolau, P., Caeiro, S., Galli, A., Malandrakis, G., Niccolucci, V., Nicolau, M., Papadopoulou, A., Mapar, M., Patrizi, N., Pulselli, F.M., Zachos, D. (2022). EUSTEPs MOOC. Sustainability and Ecological Footprint: from theory to practice. Topic 1/Part 3- Sustainable Development Goals (SDGs)- Action towards 2030 (Slides). ERASMUS+, KA203 2019-2022, Agreement No. 2019-1-ELO1-KA203-062941. <https://repositorioaberto.uab.pt/handle/10400.2/12982>
- United Nations Development Programme. UNDP SDGs booklet. pp 24. <https://www.undp.org/content/undp/en/home/librarypage/corporate/sustainable-development-goals-booklet.html>
- United Nations (n.d.). Sustainable Development Goals. <https://unric.org/en/sdgs-in-your-language/>
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# Module 1 - Lesson 1 - Topic 2

## Material Development

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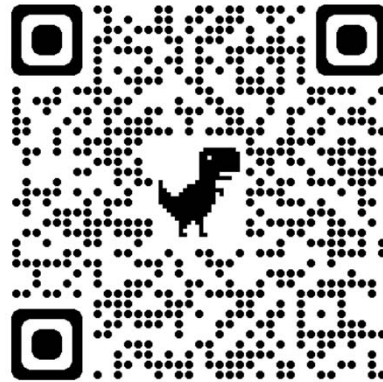
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