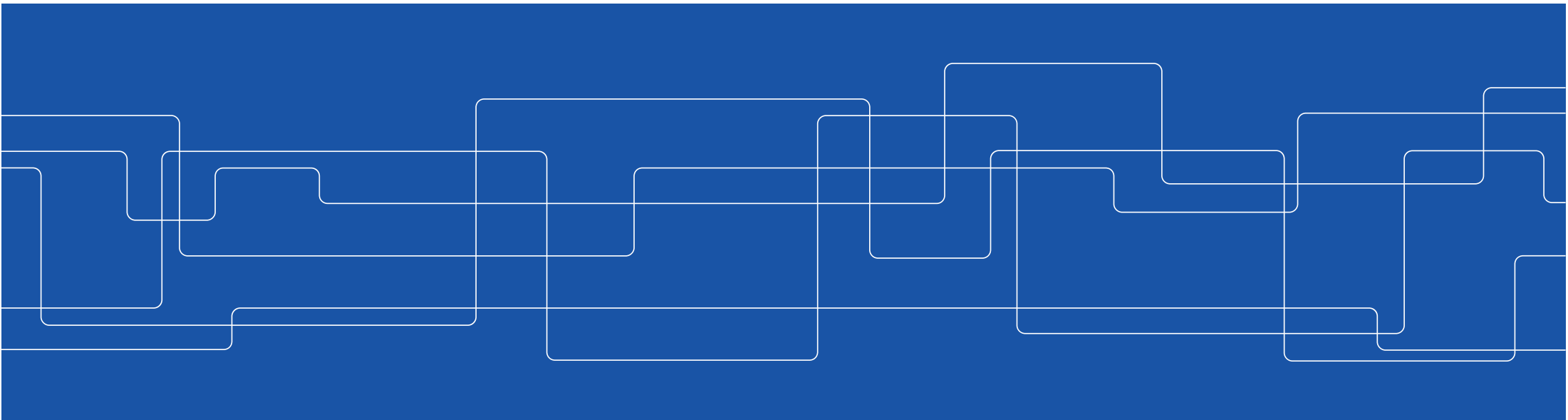# Sustainable development at KTH

Kristina von Oelreich, lawyer, Sustainability Manager at KTH 2018-05-15

An Ocean of Opportunities for Academia

- This presentation will share knowledge about the Sustainable development goals **(SDG:s)** and the Agenda 2015-2030.

- How KTH contributes to the sustainable development goals through a systematic work, including measuring and monitoring the impact of our sustainability efforts with a focus on continual improvement.

Balance the tree pillars of sustainable development

The definition of sustainable development includes an ideal location for society where living conditions and resource use meet human needs without endangering the sustainability of ecosystems and the environment, so that future generations can meet their needs."

Sustainability applies to different pillars that depend on each other:

- Social progress
- Economic growth
- Environmental protection

Millennium Development Goals (MDGs), 2000-2015

Key MDG achievements

- More than 1 billion people have been lifted out of extreme poverty (since 1990)
- Child mortality dropped by more than half (since 1990)
- The number of out of school children has dropped by more than half (since 1990)
- HIV/AIDS infections fell by almost 40 percent (since 2000)

Next steps

- 800 000 000 living on less than 1,25 dollar per day
- 1/9 People are hungry each night
- Deforestations remains high
- Oceans are becoming more acidic
- 1/6 adults is illiterate

The 17 Sustainable Development Goals
Agenda 2015-2030 for Sustainable Development

Balance the economic, social and environmental perspective

Targets and 230 global indicators for measuring development

Follow-up and evaluate on international level

230 global indicators for measuring development

Table 1.5 | The SDG Index

Rank	Country	Score		Rank	Country	Score
1	Sweden	85.6		41	Argentina	72.5
2	Denmark	84.2		42	United States	72.4
3	Finland	84.0		43	Armenia	71.7
4	Norway	83.9		44	Chile	71.6
5	Czech Republic	81.9		45	Uzbekistan	71.2
6	Germany	81.7		46	Kazakhstan	71.1
7	Austria	81.4		47	Uruguay	71.0
8	Switzerland	81.2		48	Azerbaijan	70.8
9	Slovenia	80.5		49	Kyrgyz Republic	70.7
10	France	80.3		50	Cyprus	70.6
11	Japan	80.2		51	Suriname	70.4
12	Belgium	80.0		52	Israel	70.1
13	Netherlands	79.9		53	Costa Rica	69.8
14	Iceland	79.3		54	Malaysia	69.7
15	Estonia	78.6		55	Thailand	69.5
16	United Kingdom	78.3		56	Brazil	69.5
17	Canada	78.0		57	Macedonia, FYR	69.4
18	Hungary	78.0		58	Mexico	69.1
19	Ireland	77.9		59	Trinidad and Tobago	69.1
20	New Zealand	77.6		60	Ecuador	69.0
21	Belarus	77.1		61	Singapore	69.0
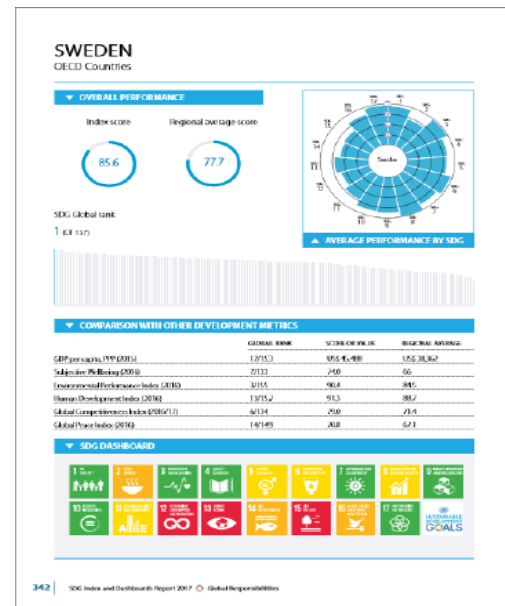
Follow up and evaluate on a national level

49 of 169 targets are fullfilled

There are six priority areas

1. Gender equality and equal society
2. Sustainable cities
3. Circular economy benefit to society
4. Strong business community with sustainable practices
5. Sustainable and healthy foods
6. Strengthened knowledge and innovation

KTH- Sustainable development

Expectations of internal and external interested parties

Common value base for government employees

The Swedish Constitution

Regulation for higher education

Swedish Environmental Code

Private and public sector
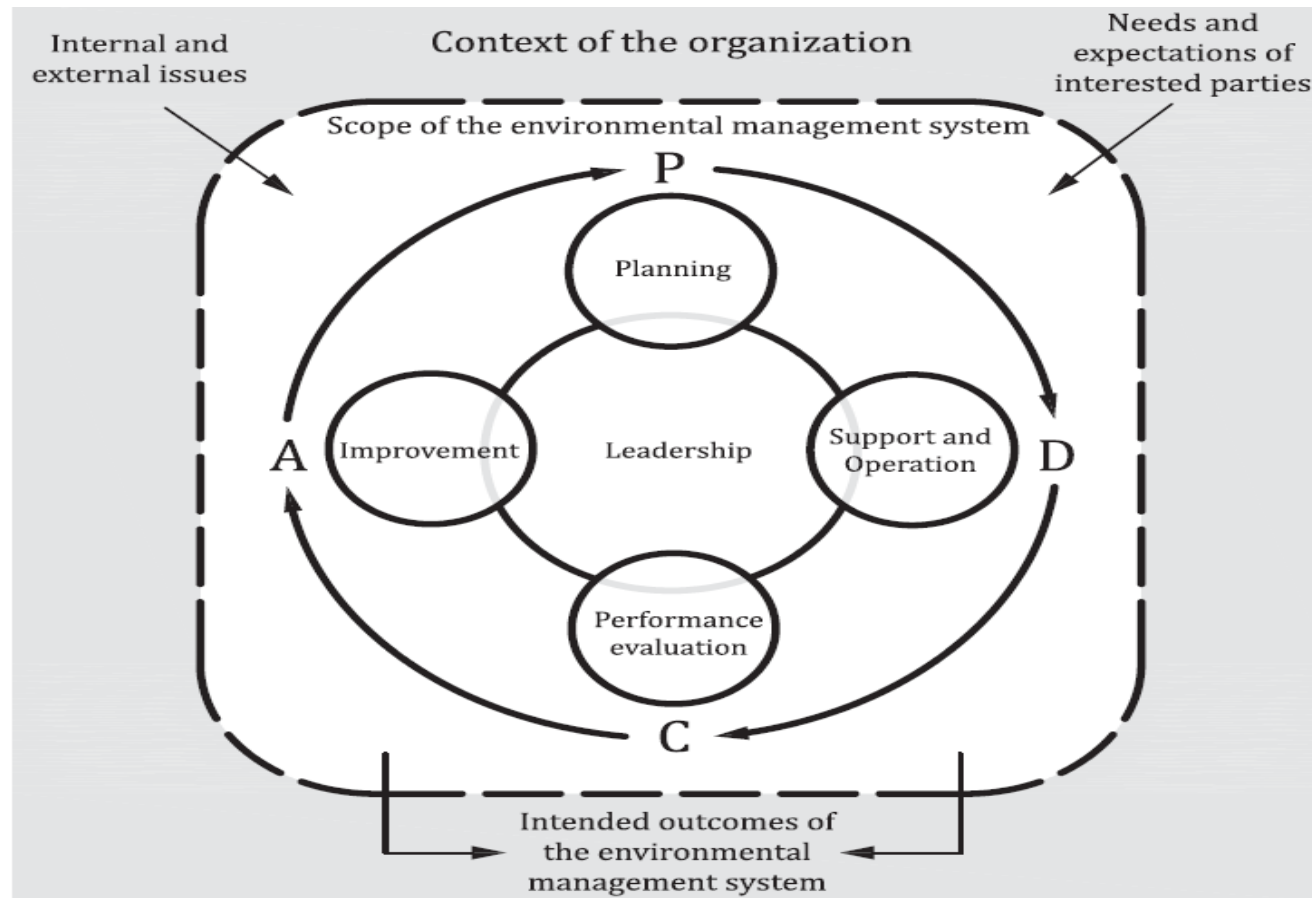
17 Sustainable development goals

Staff and students

ISO 14001 Environmental mangement system

Swedish Regulation on Environmental Managemet system

ISO 14001- KTH Systematic work with continuous improvements

KTH- Plan-Do-Check-Act (PDCA)

Plan: establish objectives and processes necessary to deliver results in accordance with the organization's policy.

Do: implement the processes as planned.

Check: monitor and measure processes against the policy, including its commitments, objectives and operating criteria, and report the results to the top management.

**Act:** take actions to continually improve your sustainability work.

KTH- Environment and sustainable development

- Vision 2027 - for a brighter tomorrow

- Policy for sustainable development at KTH

- Sustainable development objectives 2016-2020 and action-plans

- Governance structure (roles, responsibilites and functions)

- Environmental representatives on each schools and the administration.

- The environmental work is described at the Universitys internal and external webbsites.

- Procedures for follow up and report on the fullfilment of the sustainable objectives

- Procedures for the management review to
   evaluate the effectives of the environmental
   managementent system and the environmental performance.

Sustainable development objectives 2016-2020
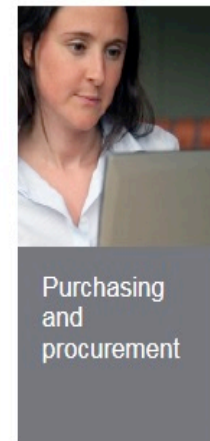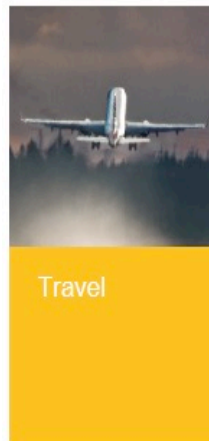
Sustainable development objectives

- **Education** – we shall increase all employees' and students' knowledge about sustainable development and it shall be integrated into all educational programs.
- **Research-** research base for sustainable development shall increase.
- **Collaboration-** With new and existing stakeholders, KTH shall work to contribute to sustainable development. Stronger picture of KTH as a leading technical university in sustainable development.
- **Travel -** Achieve a 20% percent reduction in carbon emissions resulting from business travel and increase the use of IT solutions for travel free meetings.
- **Management of Chemicals-** create conditions for an effective management of chemicals.

Sustainable development objectives

Campuses

- The highest environmental performance when constructing or renovating facilities and buildings should be used.

- Energy consumption shall be reduced by 10 %.

- The use of sustainable means of travel and transport to, from and between our campuses shall increase.

- Have a safe and effective management of hazardous waste.

- Appropriate conditions for sorting all relevant waste fractions.

- **Purchasing and Procurement -** Sustainability requirements shall be made in all procurements and purchases, where possible.
- **Organisation-** integration of environment and sustainable development into KTH:s business processes, strategic direction and decision making.

Examples of activities

Biking-days
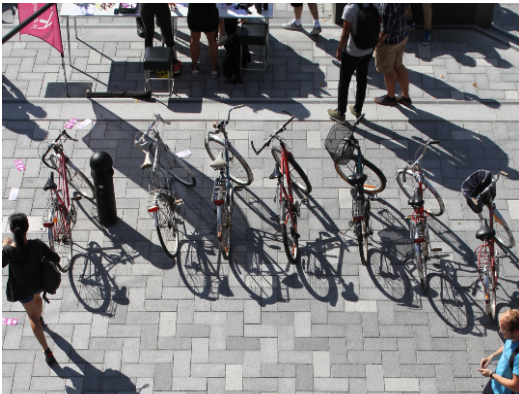
Beehives

Cultivation boxes

Everybody needs to contribute

- What does the SDG:s and Agenda 2030 mean to us?

- How do we implement the SDG:s into strategies, business goals and processes?