

IGLO Open: Implementing the Agenda 2030

How can Research and Innovation contribute to the Sustainable Development Goals?

- Maxime Schoch





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The Sustainable Development Goals (SDGs):

- 193 signatory countries of the United Nation (UN) adopted the **Agenda 2030** in 2015
- Roadmap to a sustainable future
- 17 goals, 169 sub-targets
- 3 dimensions of sustainable development (ecological, economical & societal)
- Interconnected
- Holistic approach

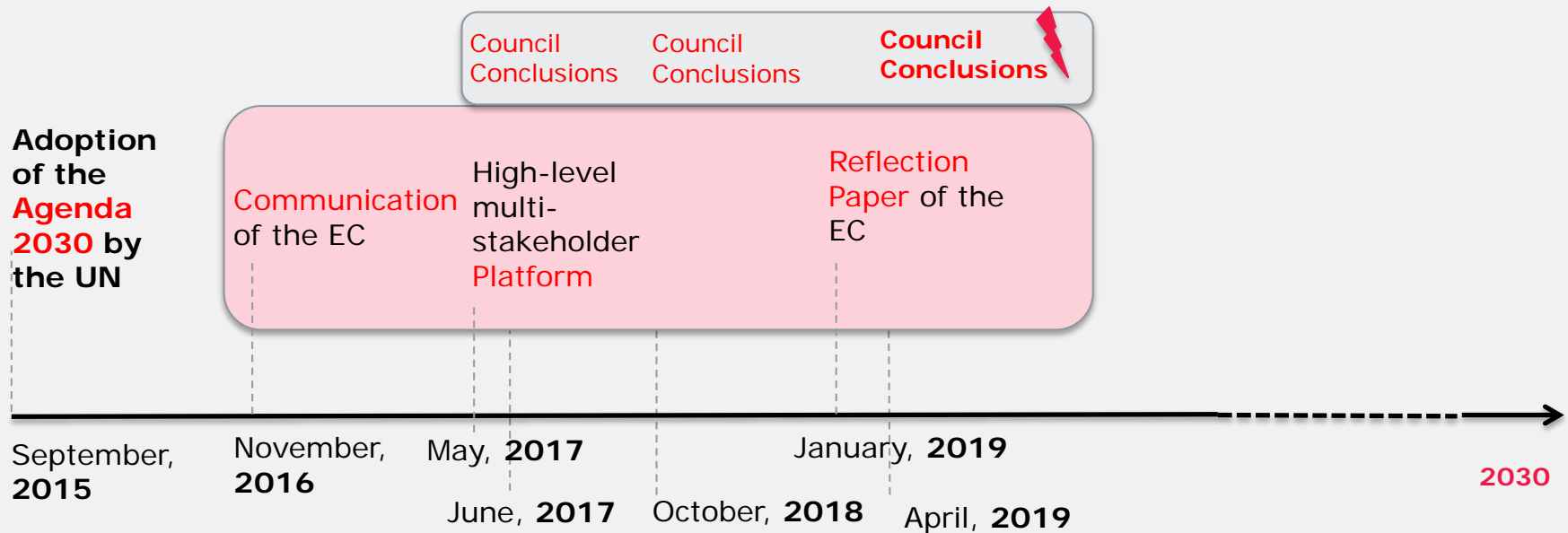




SDGs in a European Context.

European Union (EU) action for SDGs

- European Commission (EC) is in the lead
- Two part delivery work stream: Communication (2016) & Reflection Paper (2019)
- High-level multi-stakeholder Platform (2017)





Communication 2016:

- First EU reaction to the adoption of the Agenda 2030
- Already existing EU programmes address SDGs/external policy action

Reflection Paper 2019:

- Areas of planned policy action (intra EU)
- Outlines three possible scenarios for the future, preferred scenario: **overarching EU SDG implementation strategy**
- Mentions four **key enablers** for sustainable development

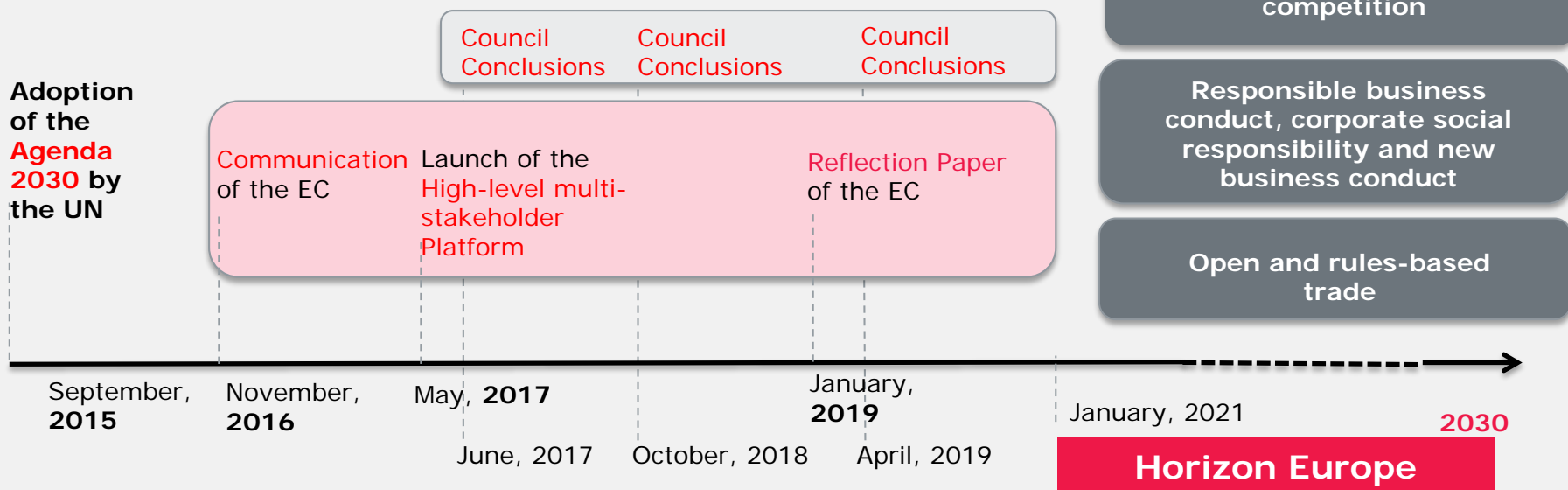


European R&I Framework Programmes

«R&I have an important role as a catalyst for change. (...) Investing in innovation and technological development today will in the longer run help us to lower the costs of meeting our long-term policy goals such as those related to our climate and our environmental targets.»

- Strengthening R&I through the 9th generation R&I framework programme:

Horizon Europe (2021-2027)





Horizon Europe Structure.

Pillar I

Excellent Science

European Research Council (ERC)

Marie Skłodowska-Curie Actions (MSCA)

Research Infrastructures

Pillar II

Global Challenges and European Industrial Competitiveness

Health

Culture, creativity and inclusive society

Civil Security for Society

Digital, Industry and Space

Climate, Energy and Mobility

Food, Bioeconomy, Natural Resources, Agriculture and Environment

Non-nuclear direct actions of the Joint Research Centre (JRC)

Pillar III

Innovative Europe

European Innovation Council

European Innovation Ecosystems

European Institute of Innovation and Technology (EIT)

Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

Reforming and enhancing the European R&I system





Pillar II: Thematic Clusters



Health

- SDG 3 (Good Health and well-being)
- SDG 13 (Climate Action)

Digital, Industry and Space

- SDG 8 (Decent Work and Economic Growth)
- SDG 9 (Industry, Innovation and Infrastructure)
- SDG 12 (Responsible Consumption and Production)
- SDG 13 (Climate Action)



Culture, creativity and inclusive society

- SDG 1 (No Poverty)
- SDG 3 (Good Health and Well-being)
- SDG 4 (Quality Education)
- SDG 5 (Gender Equality)
- 8 (Decent Work and Economic Growth)
- SDG 9 (Industry, Innovation and Infrastructure)
- SDG 10 (Reduced Inequalities)
- SDG 11 (Sustainable Cities and Communities)
- SDG 16 (Peace, Justice and strong Institutions)

Climate, Energy and Mobility

- SDG 6 (Clean Water and Sanitation)
- SDG 7 (Affordable and Clean Energy)
- SDG 9 (Industry, Innovation and Infrastructure)
- SDG 11 (Sustainable Cities and Communities)
- SDG 12 (Responsible Consumption and Production)
- SDG 13 (Climate Action)

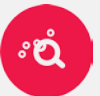


Civil Security for Society

- SDG 16 (Peace, Justice and strong Institutions)

Food, Bioeconomy, Natural Resources, Agriculture and Environment






- SDG 2 (Zero Hunger)
- SDG 3 (Good Health and Well-Being)
- SDG 6 (Clean Water and Sanitation)
- SDG 8 (Decent Work and Economic Growth)
- SDG 9 (Industry, Innovation and Infrastructure)
- SDG 11 (Sustainable Cities and Communities)
- SDG 12 (Responsible Consumption and Production)
- SDG 13 (Climate Action)
- SDG 14 (Life under Water)
- SDG 15 (Life on Land)





Pillar II: Thematic Clusters.

Table 1: which SDGs are addressed most within thematic Clusters?

N° of times mentioned (within the legal text of HEU)	SDG	Icon
4	9 (Industry, Innovation and Infrastructure)	
4	13 (Climate Action)	
3	3 (Good Health and Well-Being)	
3	8 (Decent Work and Economic Growth)	
3	11 (Sustainable Cities and Communities)	
3	12 (Responsible Consumption and Production)	





Missions are integrated in pillar II*:

- max. 10% of pillar II budget

«high-ambition, high-profile initiatives with the aim to deliver a transformative impact for society, the economy and the environment..» ...

«...should use SDGs as a source for their design and implementation»

- Mission-based approach: facilitate collaboration between different fields and sectors
- Mission areas are defined in the **Regulation** establishing Horizon Europe

* «Missions are integrated within pillar II, but 'may also benefit from actions carried out within other parts of the programme, as well as complementary actions carried out under other Union funding programmes»




Table 2: Defined Mission areas and potential SDGs addressed

Mission Area N°	Mission Area	Potential SDGs addressed
1	Adaptation to Climate Change, including Societal Transformation	5 (Gender Equality), 10 (Reduced Inequalities), 13 (Climate Change), 16 (Peace, Justice and strong Institutions)
2	Cancer	3 (Good Health and Well-Being)
3	Healthy Oceans, Seas, Coastal and Inland Water	6 (Clean Water and Sanitation), 13 (Climate Change), 14 (Life below Water)
4	Climate-Neutral and Smart Cities	11 (Sustainable Cities and Communities), 13 (Climate Action)
5	Soil Health and Food	2 (Zero Hunger), 12 (Responsible Consumption and Production), 13 (Climate Action)



R&I Missions.

Table 3: Which SDGs are addressed by Mission areas (preliminary assessment)

N° of times mentioned	SDG	Icon
3	13 (Climate Action)	
1	2 (Zero Hunger)	
1	3 (Good Health and Well-Being)	
1	5 (Gender Equality)	
1	6 (Clean Water and Sanitation)	
1	10 (Reduced Inequalities)	
1	11 (Sustainable Cities and Communities)	
1	12 (Responsible Consumption and Production)	
1	14 (Life below Water)	
1	16 (Peace, Justice and Strong Institutions)	





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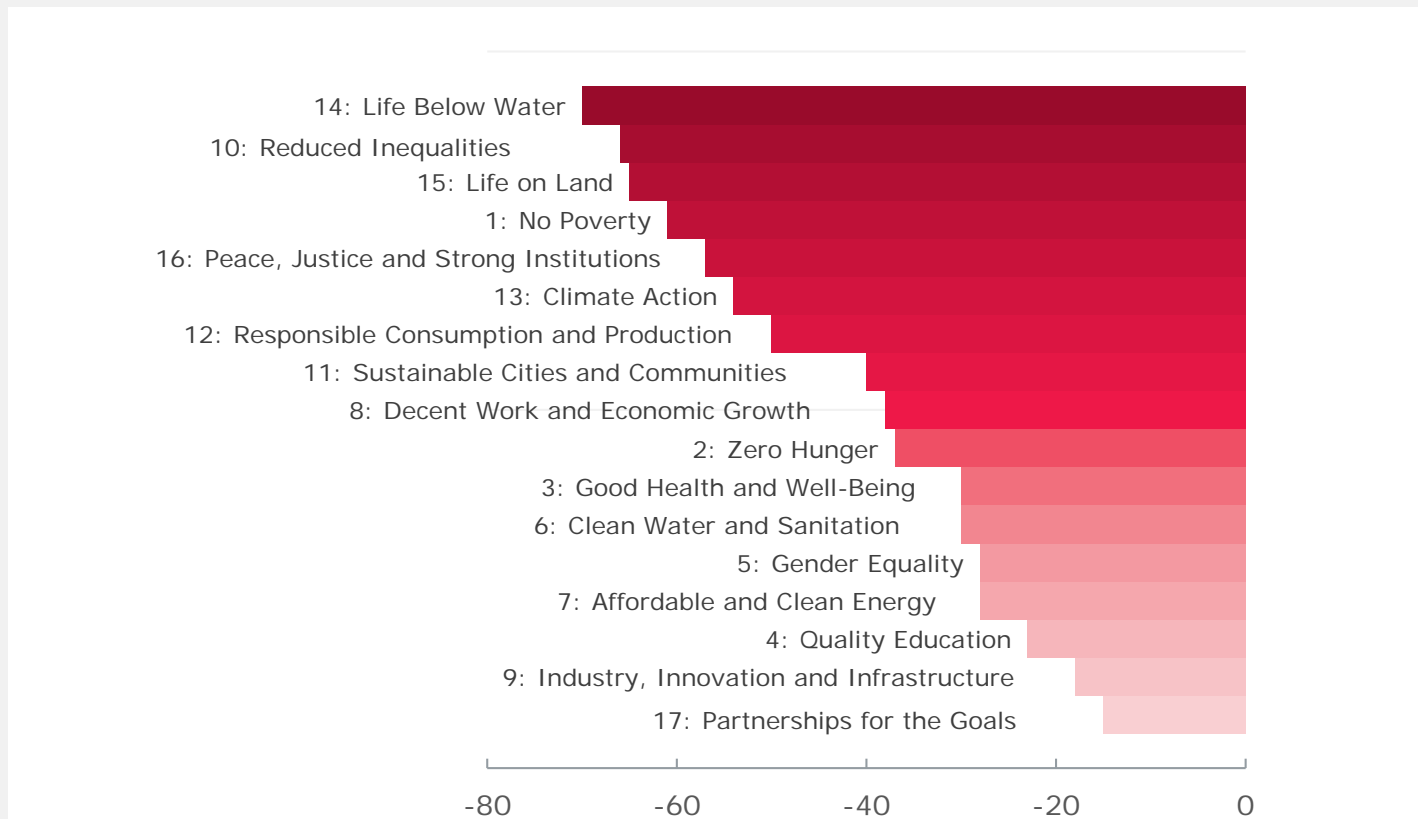
- Mission-based approach: facilitate collaboration between different fields and sectors
- SDGs **were mentioned** in the legislative text on Missions
- SDGs **were not mentioned** in the call for Mission board members
- EC can steer SDG coverage under Missions in:
 - **Appointing** suitable Mission board members
 - **Agreeing** on the selected concrete Missions

* «Missions are integrated within pillar II, but 'may also benefit from actions carried out within other parts of the programme, as well as complementary actions carried out under other Union funding programmes»





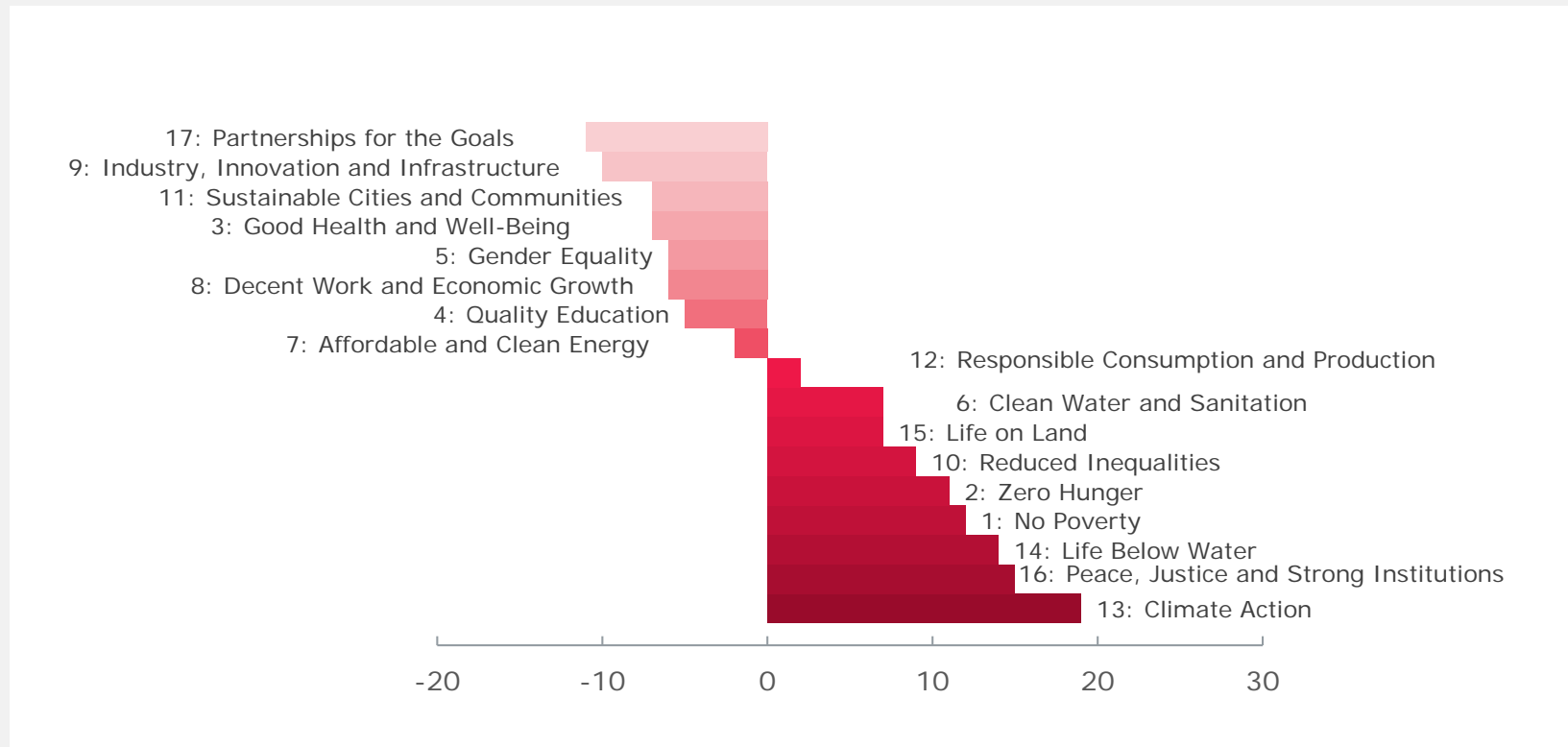
Graph 1: Net Progress on SDGs in Europe
(Source: GlobeScan and SustainAbility, 2018)





Assesment of SDG coverage under Horizon Europe.



**Graph 2: Gap Analysis of urgency required and attention received
(Source: GlobeScan and SustainAbility, 2018)**





Thematic Clusters.

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Clusters:

- SDGs with lowest net progress scores are not addressed most within the thematic clusters
- Strong focus on **industry**
 - Global Challenges and industrial competitiveness
- do not seem to address the most urgent SDGs

Missions:

- SDG coverage is still unclear (no concrete Missions yet)
- **Seem to address urgent SDGs/close SDG coverage gap**
- **Holistic approach through aligning different sectors/inter-disciplinary**



In general:

- Importance of the **strategic plan**: what **impact** shall Horizon Europe achieve?
- Horizon Europe has the SDGs at its heart
- Horizon Europe has the potential to be an important tool for SDG implementation of the EC
- Climate Change the most addressed SDG (also very urgent)
- **More action needed for Biodiversity (on land and under water), Climate Change and for reducing inequalities**



Thank you.



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