

The impact of research and innovation on society as a whole: the Sustainable Development Goals

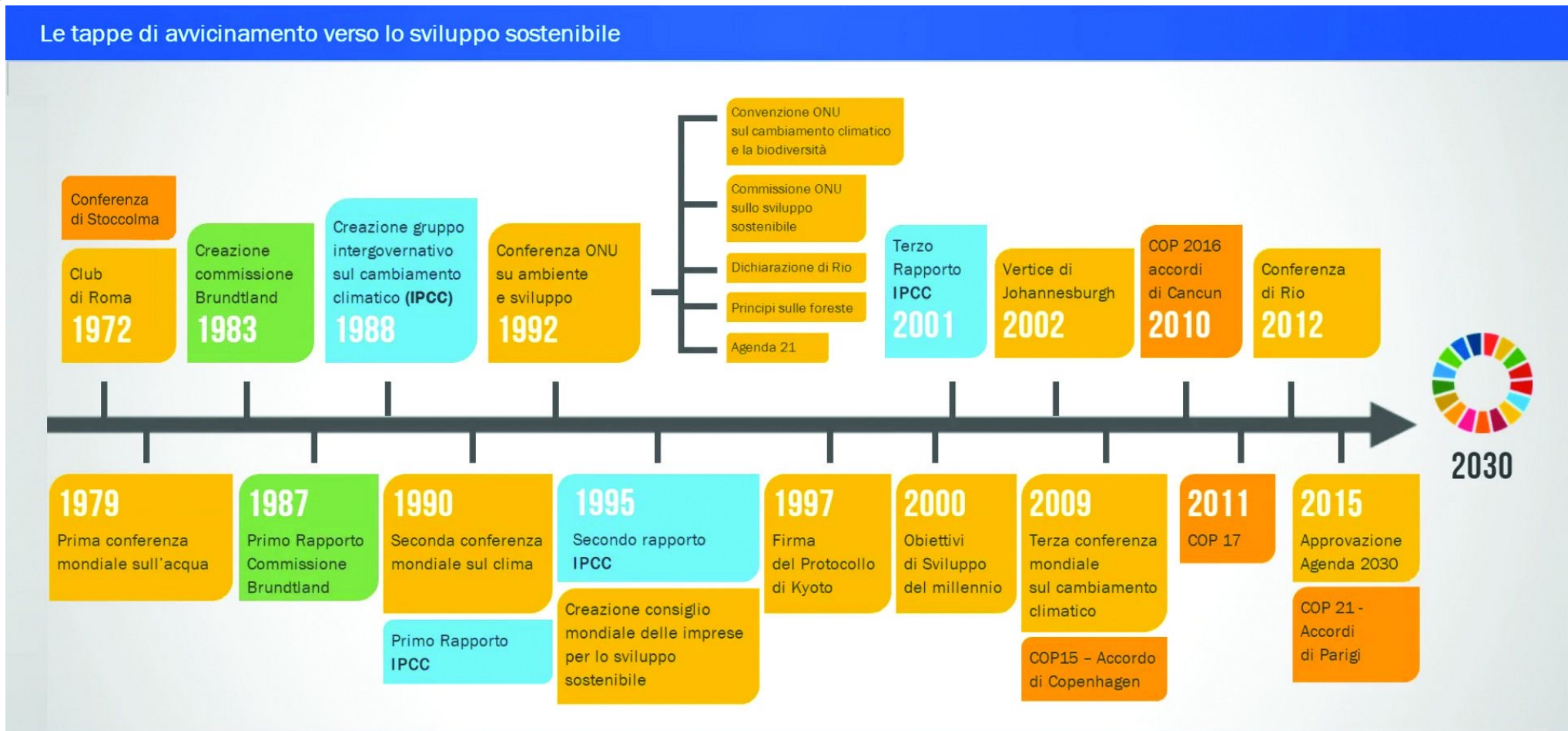
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www.asvis.it



Le tappe di avvicinamento verso lo sviluppo sostenibile



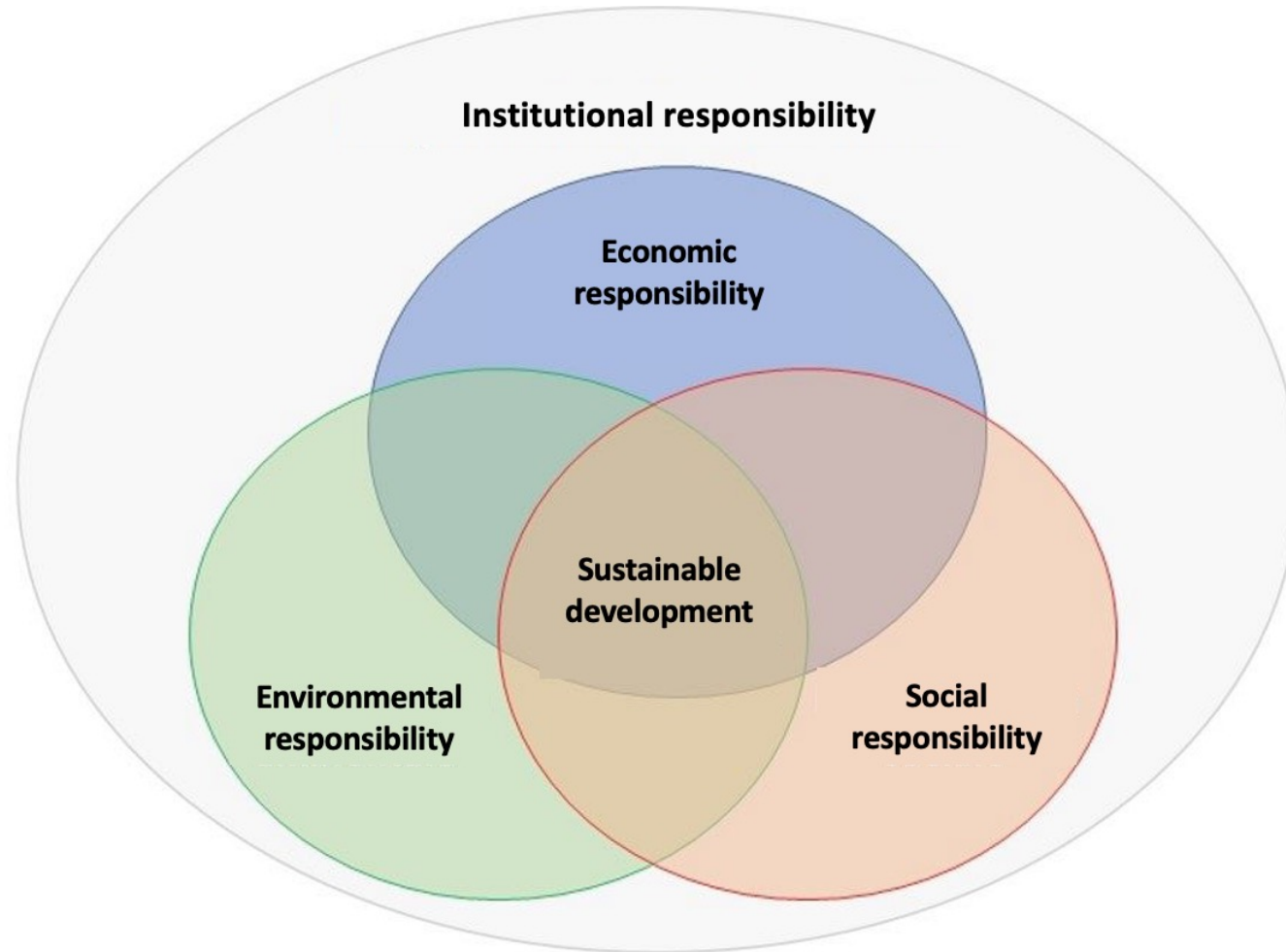
“Meeting the needs of the present without compromising the ability of future generations to meet their own needs”

United Nations Brundtland Commission, 1987

“In the long term, economic growth, social cohesion and environmental protection must go hand in hand”

European Commission's proposal to the Gothenburg European Council, 2001





The 2030 Agenda for Sustainable Development



The United Nations' Global Agenda and the Sustainable Development Goals (SDGs):

17 Goals

169 Targets

240+ indicators

An integrated vision of development, based on four pillars:

Economy

Society

Environment

Institutions



Three principles: Integration, Universality, Participation



The 2030 Agenda for Sustainable Development



"The new Agenda is a promise by leaders to all people worldwide. It is an agenda for people, to end poverty in all its forms, an agenda for the planet, our common home."

Ban Ki-Moon, UN General-Secretary

*"We are determined to take the **bold and transformative steps** which are urgently needed to shift the world onto a sustainable and resilient path. As we embark on this collective journey, we pledge that **no one will be left behind.**"*

UN 2030 Agenda





- **CUM + PLECTERE:**

- Emergency
- Multiplicity
- Unity

- **Complex vs. Complicated** →
“Complex systems always kick back”

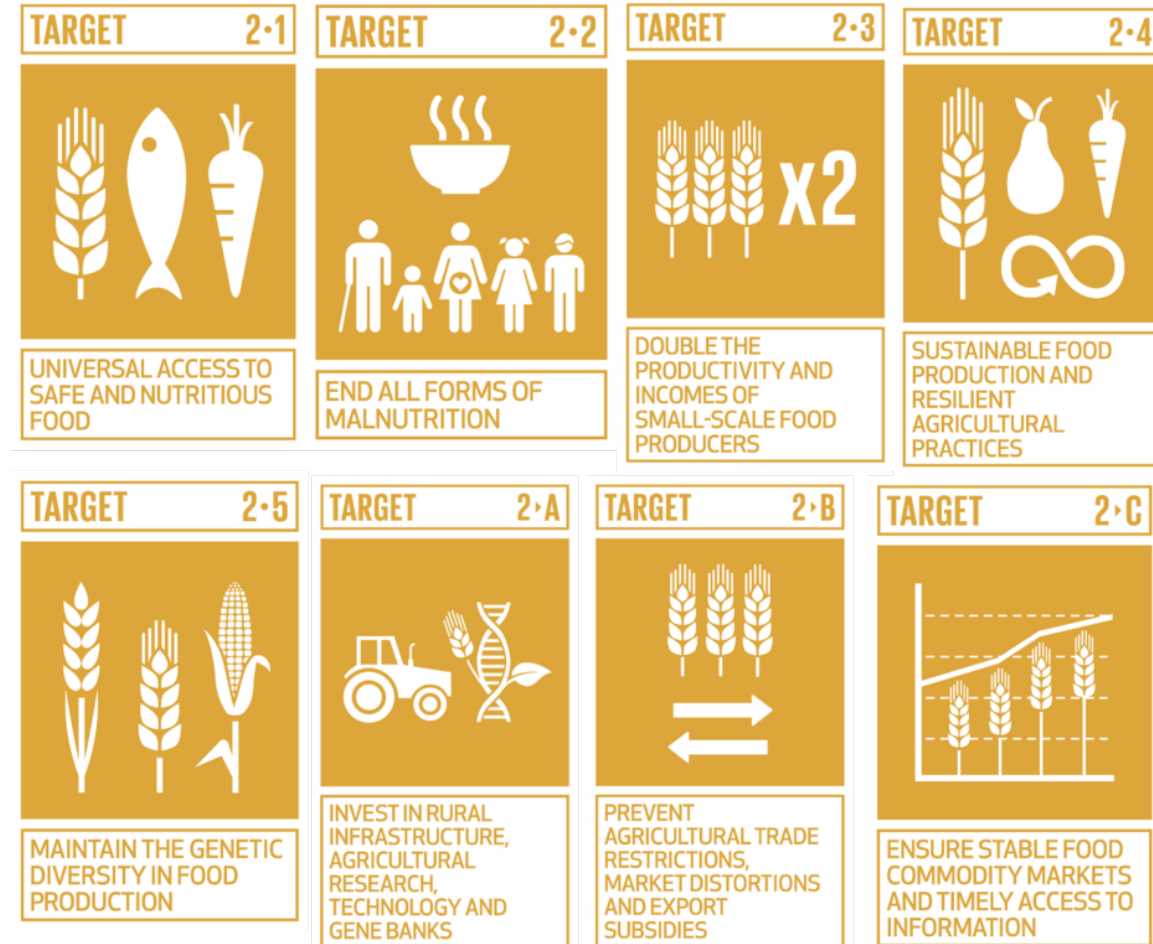
- **Systemic approach:**

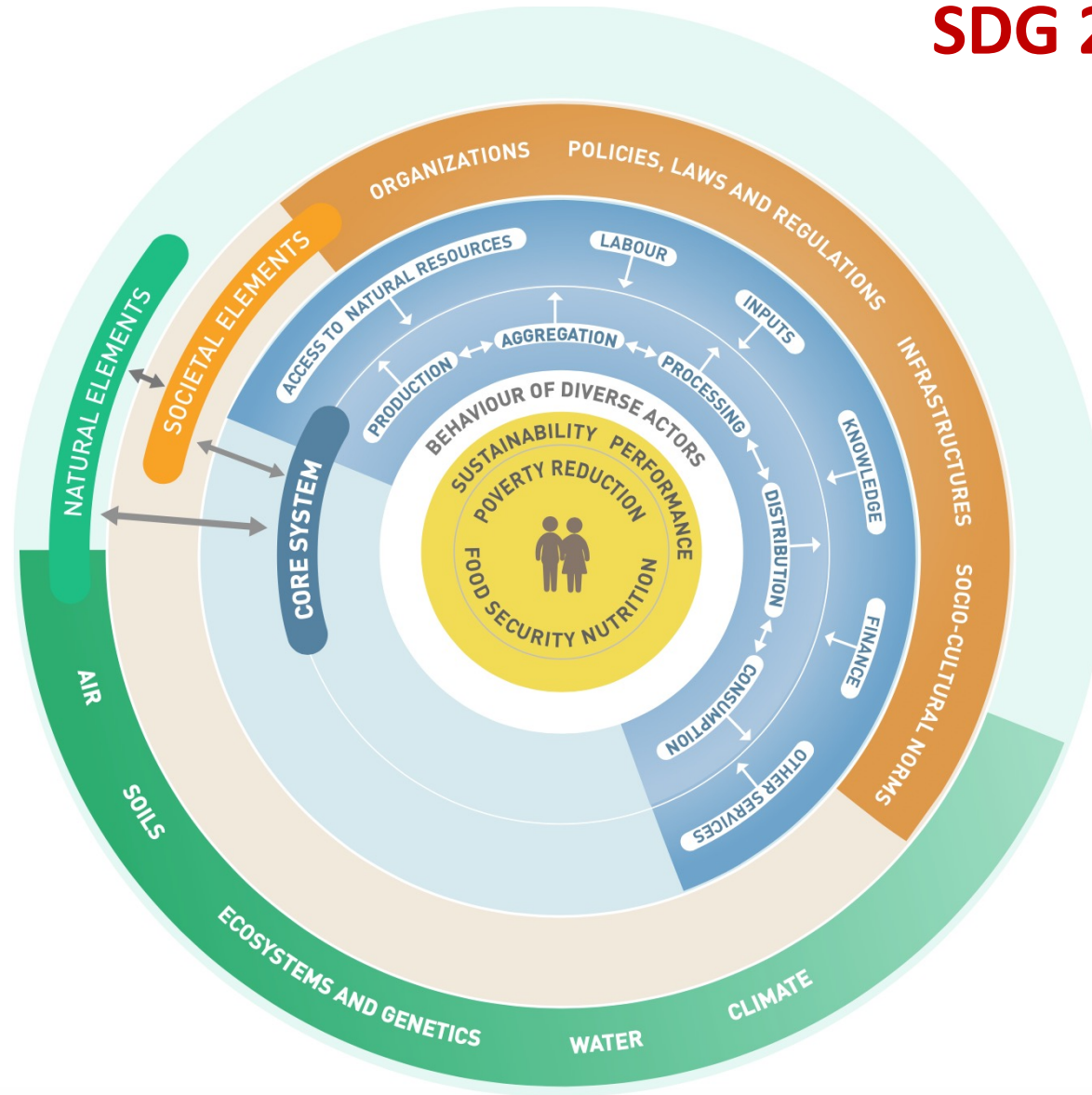
- Multiple causal chains intertwine
- Causality is circular

SDG 2 – Key priorities



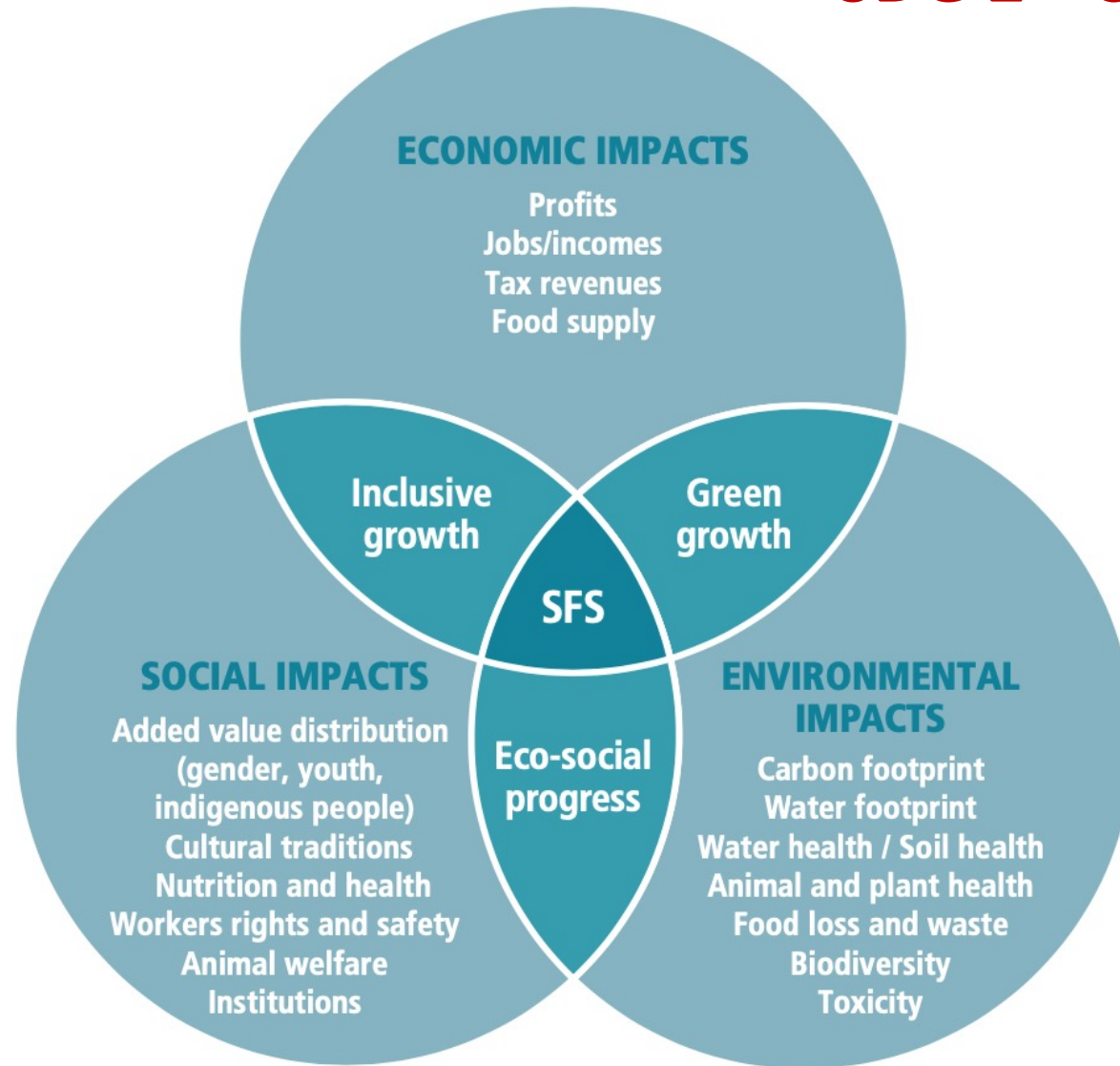
- **Food security**
 - Availability
 - Access
 - Utilization
 - Stability
- **Food safety**
- **Improved nutrition**
 - Undernutrition
 - Inadequate vitamins or minerals
 - Overweight
 - Obesity
 - Diet-related noncommunicable diseases
- **Sustainable agriculture**
 - Agricultural productivity
 - Environmental sustainability of agriculture





FAO 2018, Food System Wheel

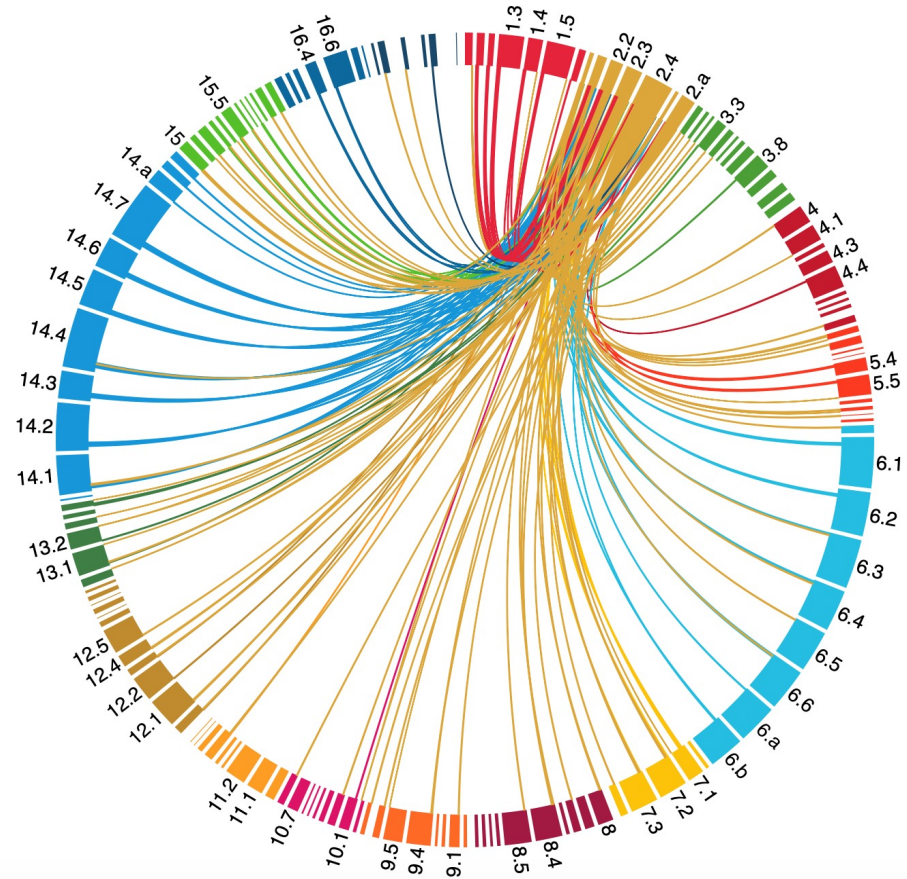




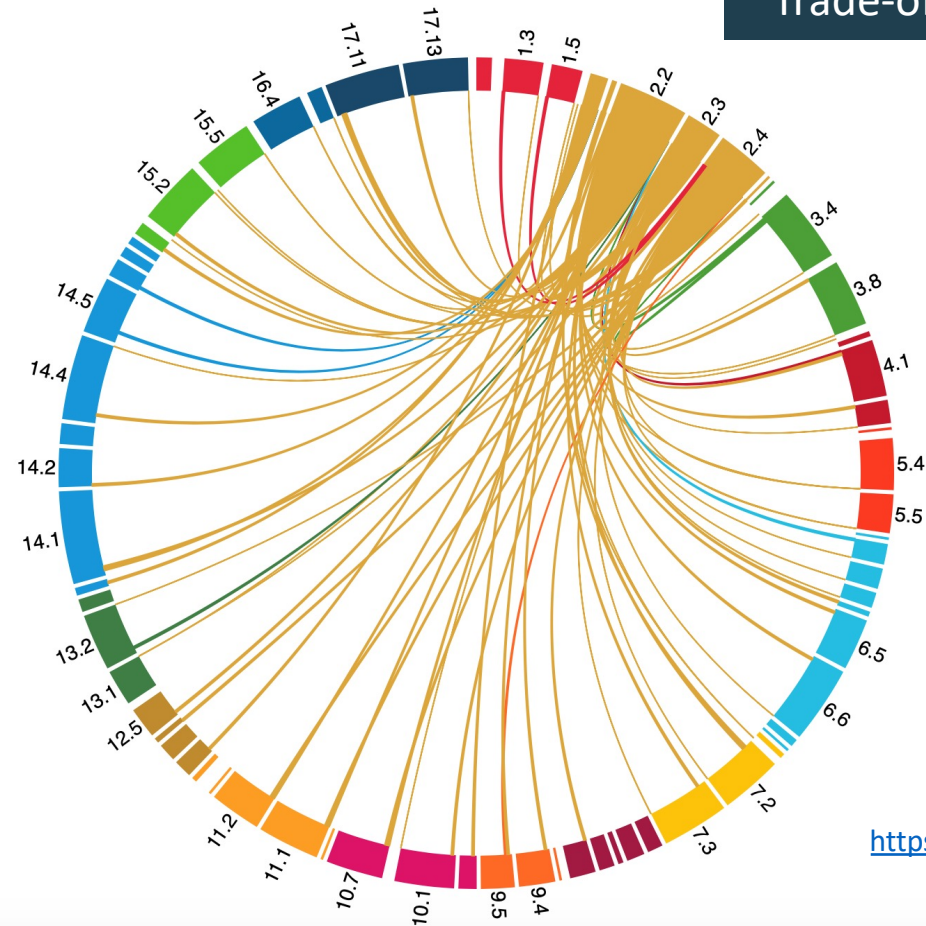
SDG 2 – Synergies and trade-offs



Synergies



Trade-offs



<https://knowsdgs.jrc.ec.europa.eu/interlinkages-visualization>



- To achieve the Sustainable Development Goals by 2030, new modalities for development are needed.
- **Innovation**, intended both as new forms of social practice and organization and as improved technological products and processes, is not only an explicit focus of SDG 9 but also a **key enabler of all the SDGs**.
- Considerable progress has been made over the last decade but there are still significant gaps in knowledge and further steps are needed to improve:
 - **Data collection and research**
 - **Science-policy interface**
 - Support **monitoring and review** of the SDGs



For an SDG Impact Assessment tool, see <https://sdgimpactassessmenttool.org/en-gb>

