



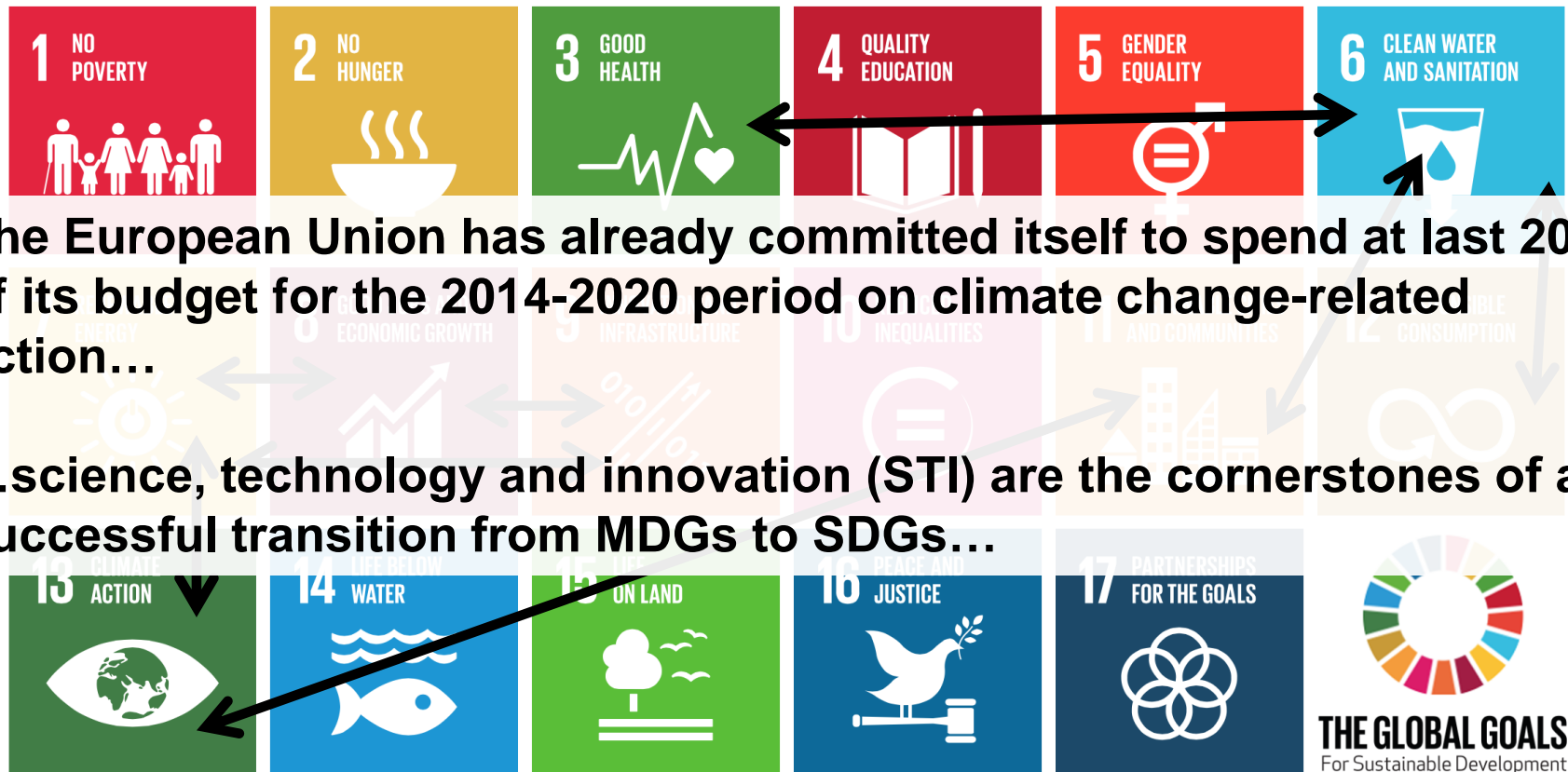
The ride on the green trajectory: Research and innovation to boost the transition to a greener economy

NETGREEN Final Conference

15 October 2015

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DG Research and Innovation

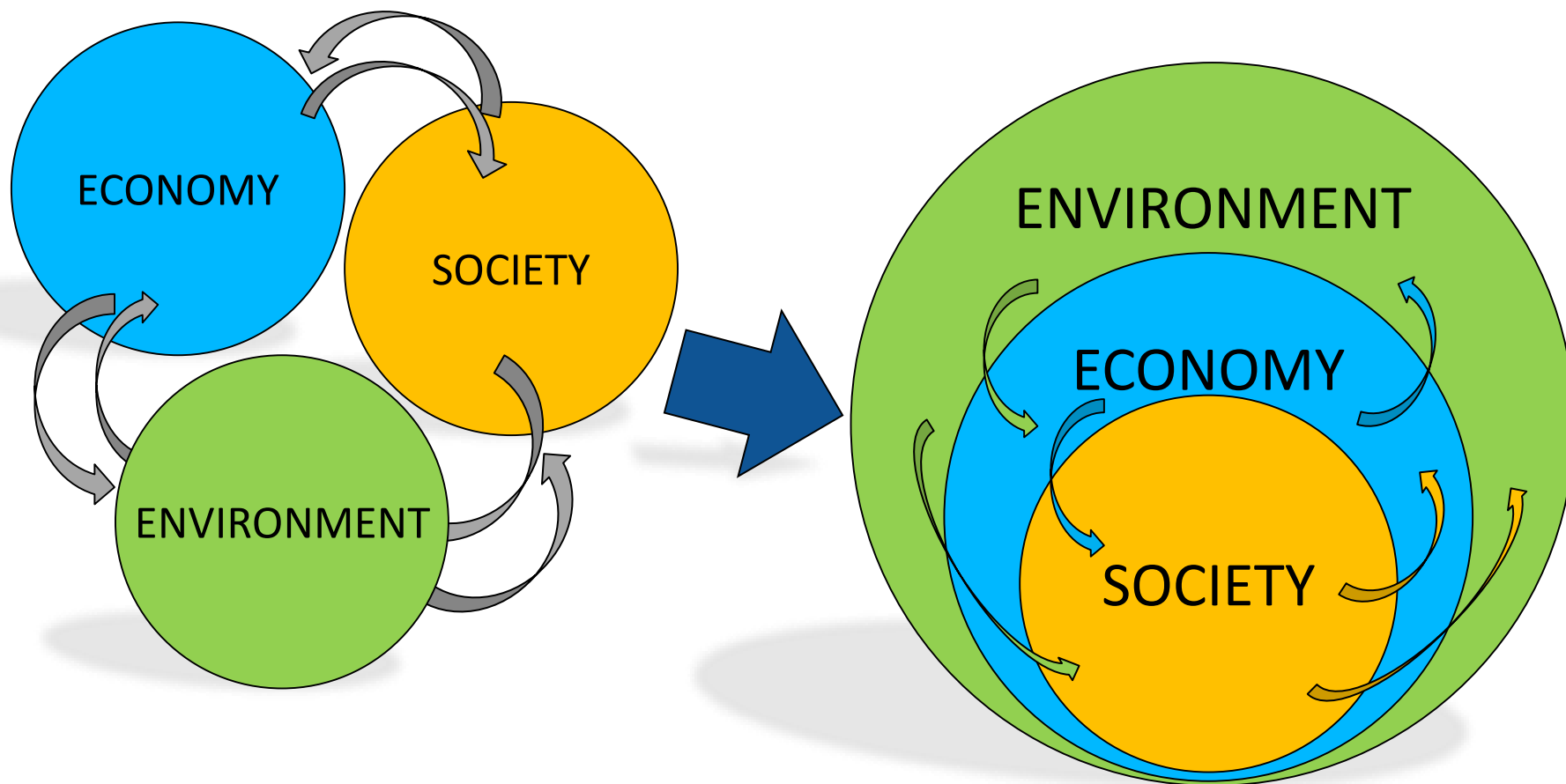
The Sustainable Development Goals



The European Union has already committed itself to spend at least 20% of its budget for the 2014-2020 period on climate change-related action...

...science, technology and innovation (STI) are the cornerstones of a successful transition from MDGs to SDGs...

A systemic approach to sustainability

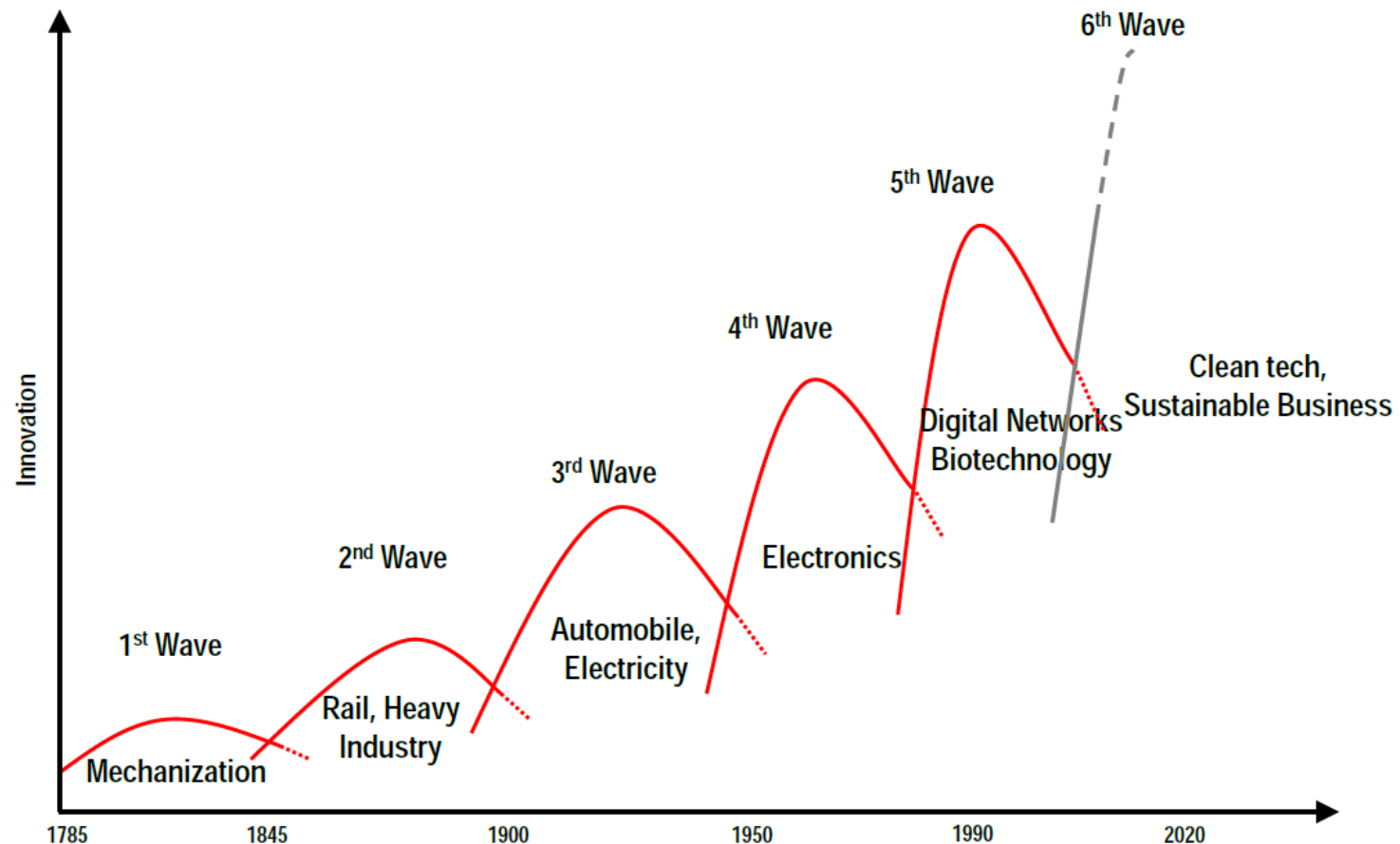


A systemic approach to sustainability

- Systemic innovation is understood as innovation that aims at responding to a societal challenge by obtaining a **systems-wide transformation through affecting the system's economic, social and environmental dimensions** as well as their interconnections.
- This implies a perspective that integrates technology, business and economic models, finance, governance and regulation as well as skills and social innovation.
- Systemic innovation therefore calls for a trans-disciplinary approach.

Riding on the "green" trajectory: a systemic approach to sustainability

Each wave goes through irruption, frenzy, rerouting and synergy



Source: HSBC, adapted from Carlota Perez, Technological Revolutions and Financial Capital

Riding on the "green" trajectory: a systemic approach to sustainability

Adopting a challenge-driven, solutions-oriented research and innovation strategy that crosses disciplinary boundaries and involves co-creation of knowledge and co-delivery of outcomes with economic operators and/or civil society...

We aim to invest in the co-creation of future markets for:

- ✓ **Circular economy solutions**
- ✓ **Climate services**
- ✓ **Nature-based solutions**
- ✓ **Value adding earth observation services**
- ✓ **Cultural heritage services**



HORIZON 2020: addressing Europe's challenges

Investing in research and innovation 2014

It is expected that at **least 60%** of the overall Horizon 2020 budget should be related to **sustainable development**.

It is also expected that **climate-related expenditure should exceed 35% of the overall Horizon 2020 budget**, including mutually compatible measures improving resource efficiency.

Research Area

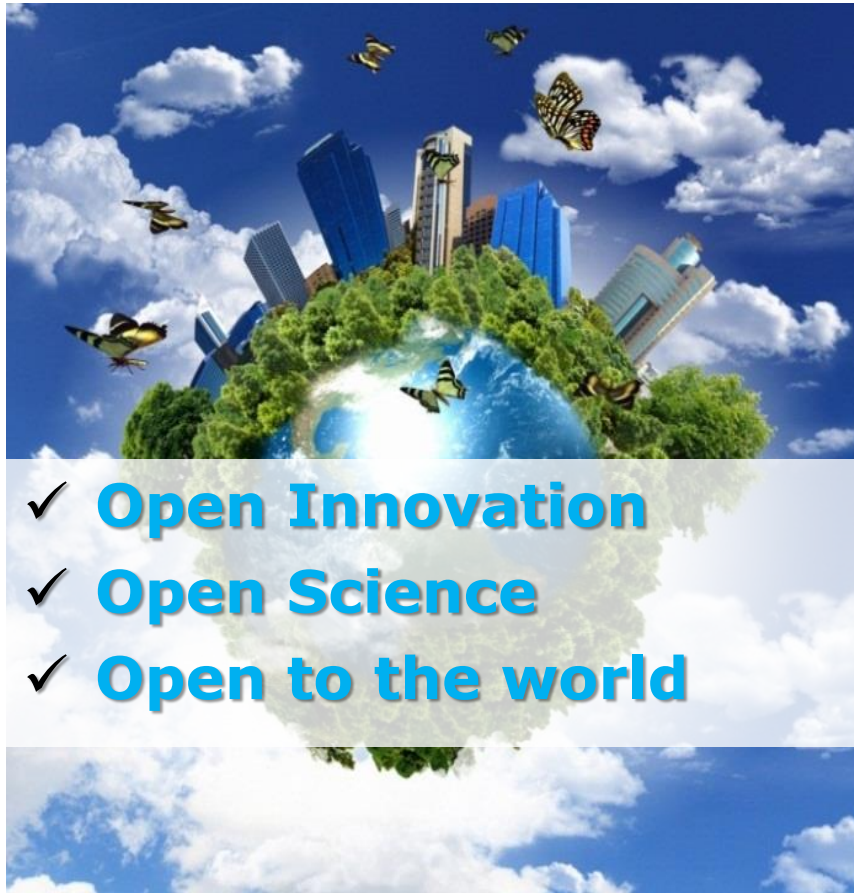
SC 5: Climate action, environment, resource efficiency and raw materials



Objective: *"to achieve a resource – and water – efficient and climate change resilient economy and society, the protection and sustainable management of natural resources and ecosystems, and a sustainable supply and use of raw materials, in order to meet the needs of a growing global population within the sustainable limits of the planet's natural resources and eco-systems."*



Societal Challenge 5: contributing to the Juncker Commission's policy agenda



- ✓ **Open Innovation**
- ✓ **Open Science**
- ✓ **Open to the world**

- ✓ A new boost for **jobs, growth and investment**
- ✓ A Connected **Digital Single Market**
- ✓ A deeper and fairer internal market with a **strengthened industrial base**
- ✓ A resilient Energy Union with a **forward looking climate change policy**
- ✓ **A stronger global actor**

SC5: new focus for 2016-2017



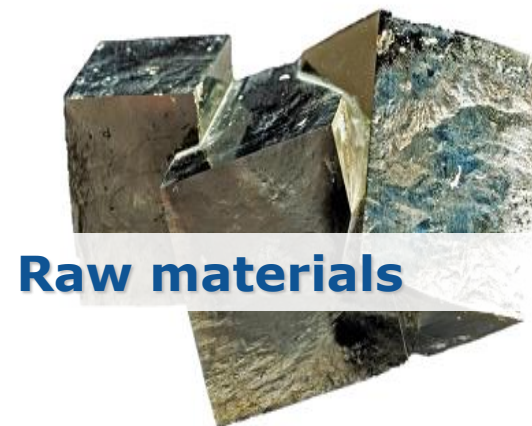
- ✓ **Open Innovation**
- ✓ **Open Science**
- ✓ **Open to the world**

- ✓ **Increased emphasis on delivering innovative solutions**
- ✓ **Transformative agenda**
- ✓ **Systemic approach to innovation**
- ✓ **Unlocking private and public investment in future solutions**
- ✓ **Large-scale demonstration projects with replication potential**

SC5-WP 2016-2017: Structure of the calls

- **SC5 call 'Greening the economy'**
- **Contribution to cross-cutting calls:**
 - 'Industry 2020 in the Circular Economy'
 - 'Smart and Sustainable Cities'
- **Contribution to calls in other WP parts:**
 - 'Blue growth – demonstrating an ocean of opportunities' (SC2)
 - 'Sustainable Food Security – Resilient and resource-efficient value chains' (SC2)
 - 'Competitive low-carbon energy' (SC3; cross-challenge topic)
 - SME Instrument call

SC5-WP 2016-2017: Greening the economy



SC5-WP 2016-2017: Greening the economy



Earth observations



Cultural heritage



**Support to policy
and preparing for
innovation
procurement**

**SME Instrument call - SC5 topic: Boosting
the potential of small businesses in the
areas and priorities of SC5**

Fast Track to Innovation pilot

Experts groups

Policy initiatives supported by the work of specific Experts Groups:

- **Climate services: "Roadmap for climate services"**
- **Systemic Approach to Eco-Innovation to achieve a low carbon, Circular Economy: "From Niche to Norm"**
- **Nature-Based Solutions and Re-Naturing Cities : "Towards an EU Research and Innovation Policy Agenda for Nature-Based Solutions and Re-Naturing Cities"**
- **Cultural Heritage: "Getting cultural heritage to work for Europe"**
- **Follow-up to Rio+20, notably the Sustainable Development Goals (soon to be published)**
- **R&I framework for Green Growth and Jobs: (final report January 2016)**

For further information

- **Research Participant Portal**

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

- **Horizon 2020 Helpdesk**

<http://ec.europa.eu/research/enquiries>

- **Expert evaluators needed!**

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

- **Learn more about Horizon 2020**

<http://ec.europa.eu/horizon2020>

- **Join our social media network on 'Yammer'**

<http://www.yammer.com/euresearchinnovationshapingagreenerfuture>

<http://www.tinyurl.com/greenRTD>



Thanks for your attention

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