



Innovation and Manufacturing Brokerage Event

6 November 2019, Santiago de Compostela

Horizon Europe

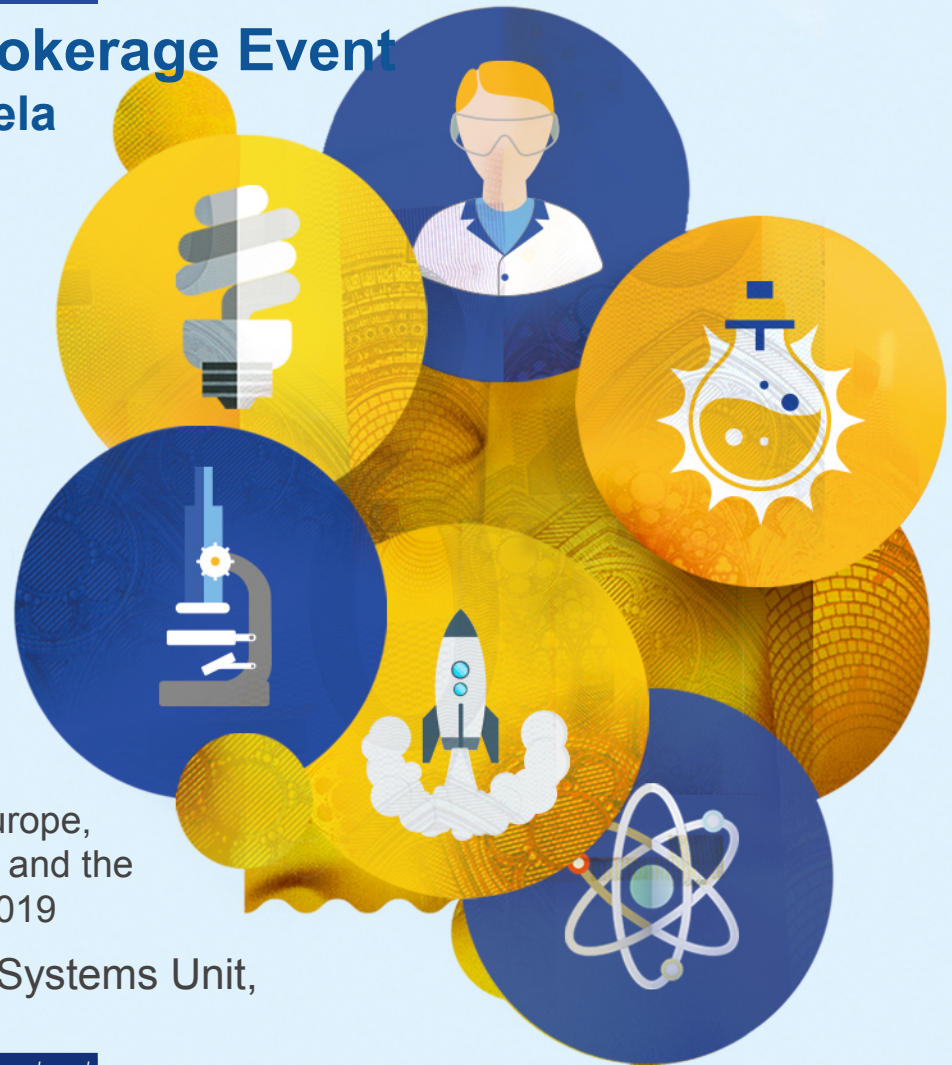
THE NEXT EU RESEARCH & INNOVATION
INVESTMENT PROGRAMME (2021 – 2027)

#HorizonEU

Based on the Commission Proposal for Horizon Europe,
the common understanding between co-legislators and the
Partial General Approach, both approved in April 2019

Jürgen Tiedje, Head of Sustainable Industry Systems Unit,
Directorate-General Research and Innovation

Research and
Innovation



Overview

- *State of play – Horizon Europe (2021-2027)*
- *Strategic Plan and manufacturing (2021 – 2024)*
- *European partnership: From Factories of the Future to Made in Europe*

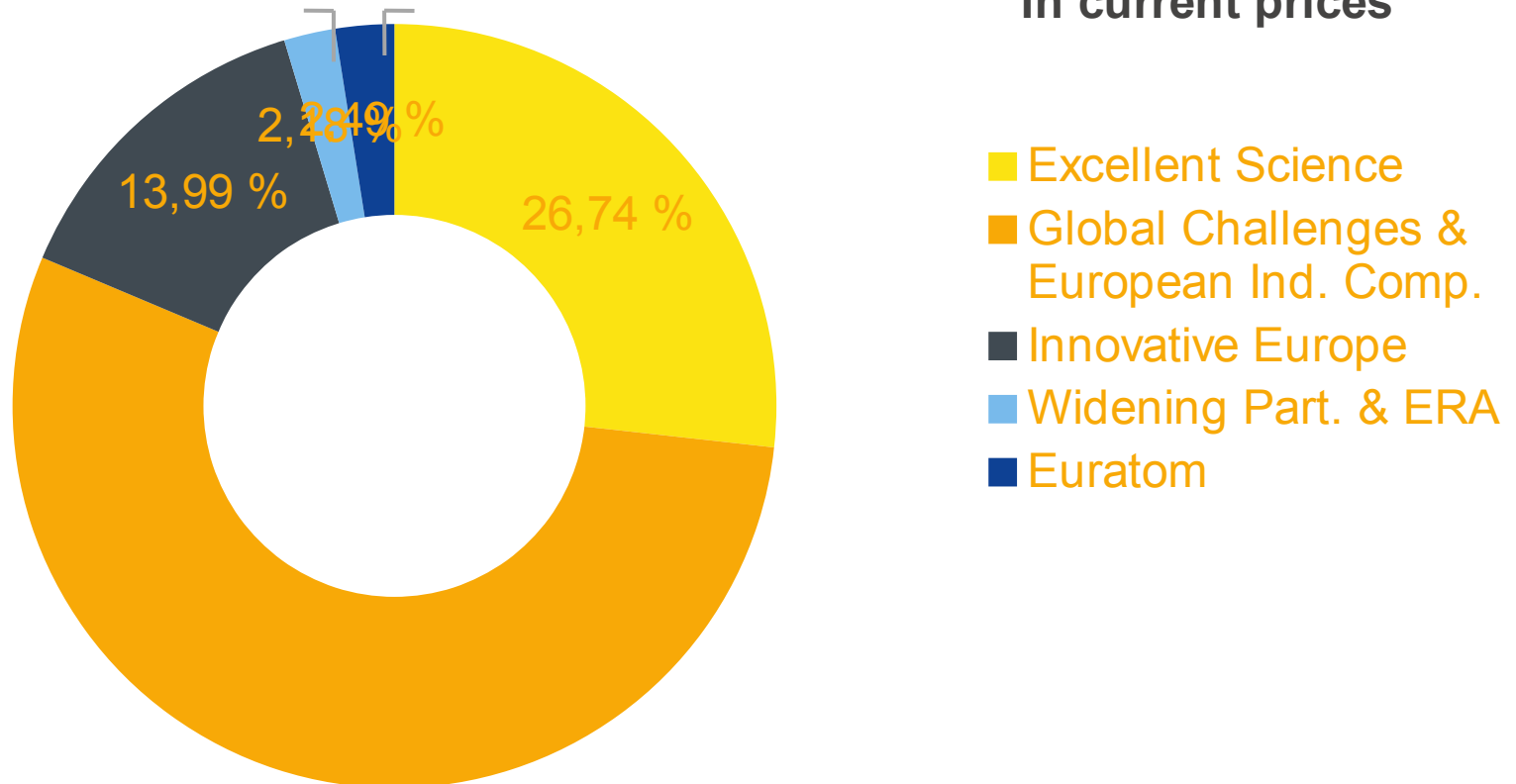
European Parliament and Council reached a common understanding on Horizon Europe on 19 March 2019

- Budget, synergies and third country association still pending, depending on the overall MFF negotiations
- Commission has started preparations for the implementation of Horizon Europe



Not agreed to date – budget under MFF: €100 billion* (2021-2027)

€ billion
In current prices

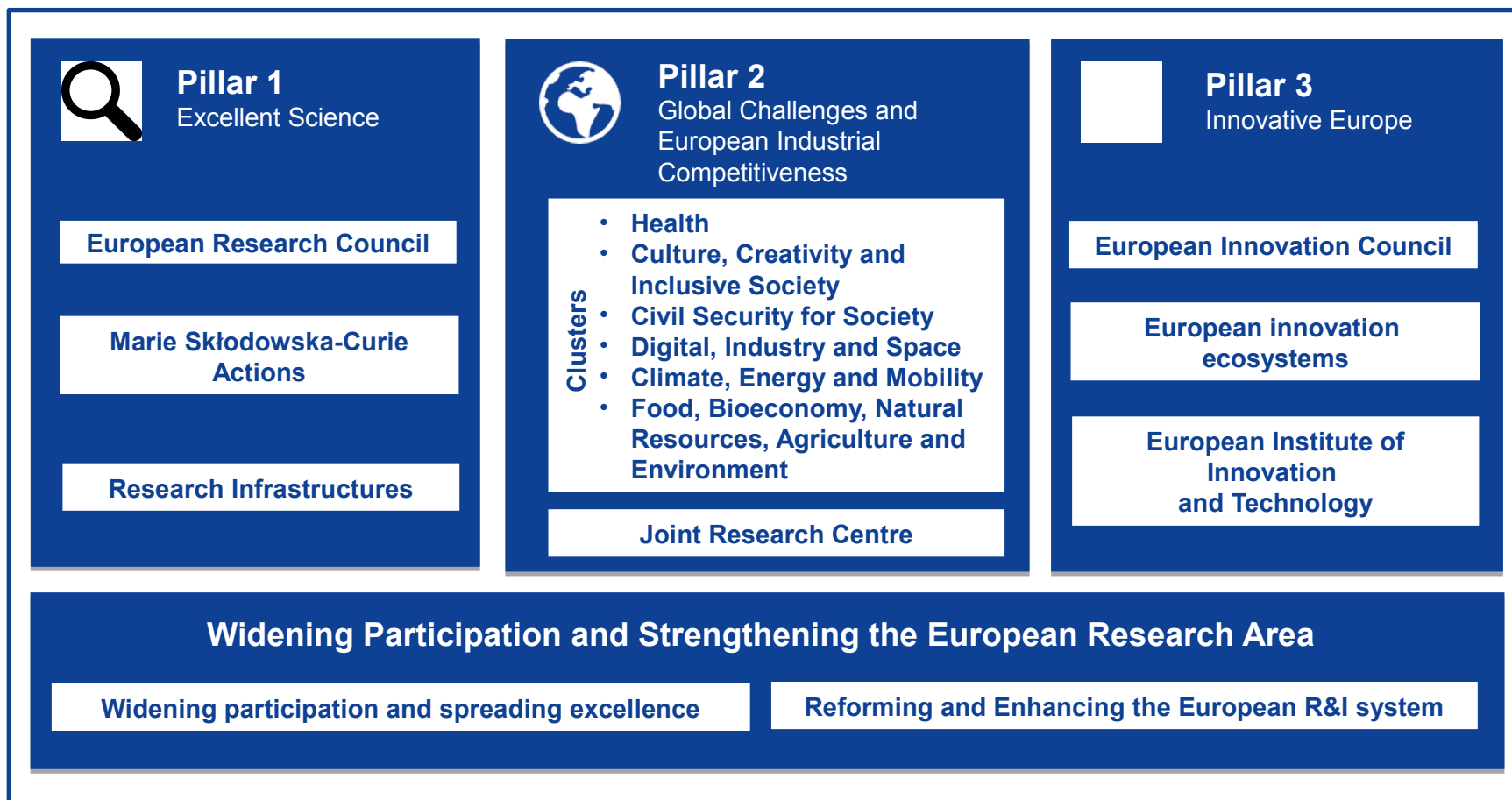


* This envelope includes EUR 3.5 billion allocated under the InvestEU Fund.

Key elements of Horizon Europe agreed to date

- ✓ Three pillar structure addressing fundamental science, global challenges and innovation
- ✓ A new cross-sectoral clusters approach
- ✓ Missions as key novelty for more impact and visibility
- ✓ EIC as one-stop shop for innovation to help small companies to innovate and scale up
- ✓ Strategic planning directing work programs under pillar 2
- ✓ New approach to partnerships to rationalise the landscape
- ✓ Impact pathways to track progress with the achievement of the Programme's objectives over time.
- ✓ Rules for participation aiming at further simplification and a more robust Open Access regime.

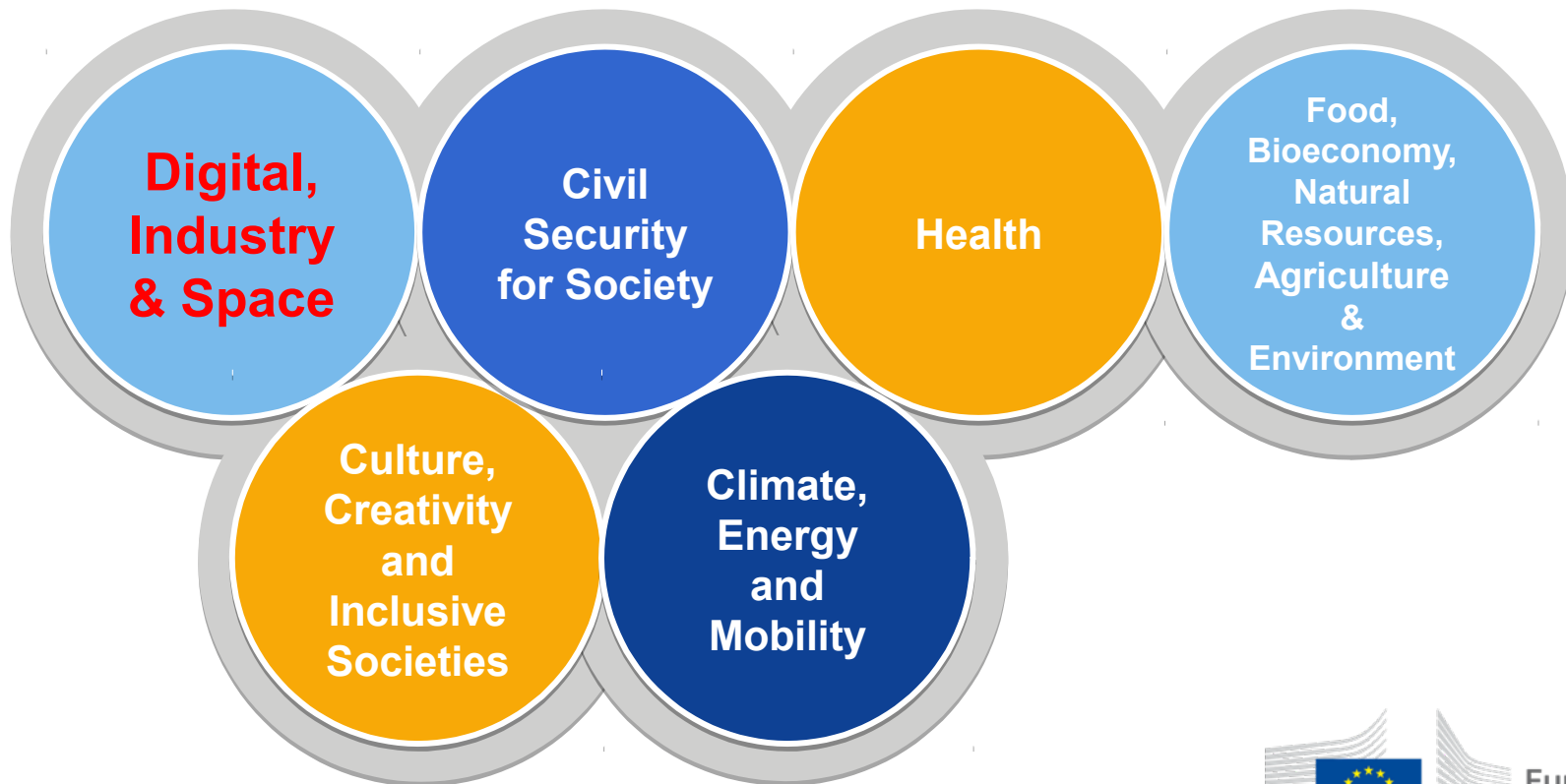
Horizon Europe: Pillar 2, 6 clusters



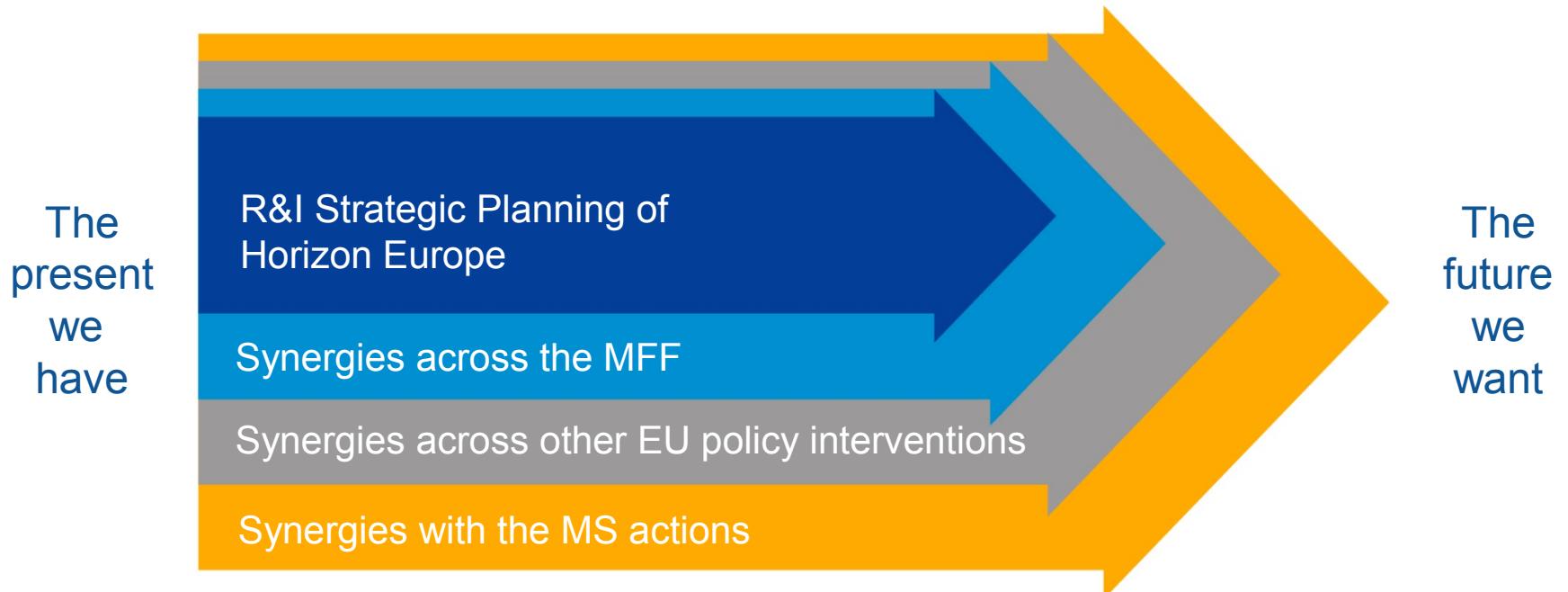
Strategic plan and manufacturing

Pillar 2 : Global Challenges & European Industrial Competitiveness: **Cluster 4**

Commission proposal for budget: € 52.7 billion



The Strategic Planning Process



... and our strategic plan will attract attention and cooperation at international/global level

Ongoing consultation!!

A separate agenda: Implementation Strategy

- **Enhancing synergies with other EU programmes**
- **Simplifying the model grant agreements and guidance to be beneficiaries**
- **Funding and tenders portal – one-stop-shop for easy access to EU funding and project implementation**

**Early consultation with stakeholders/programme
ready to start in 2021**

“

human centred, highly flexible and sustainable enterprises, providing attractive jobs, including in urban areas, supporting leadership in strategic value chains and offering new products for new markets

”

Strategic plan to define
desired impact for our
investment in manufacturing



European
Commission

Manufacturing under the Strategic plan (1)

- *New value added job creation*
 - Technologies in design, engineering, logistics and end-of life management
 - Customisation and product-service systems
 - Emerging technologies, such as artificial intelligence and human-robot collaboration
- *Value chains based on digital industrial platforms (B2B)*
 - In all production sectors (from automotive, aerospace to health and food processing)
- *Raise productivity and shorten innovation cycles*
 - New business models,
 - Urban and distributed manufacturing
 - Higher quality products

Manufacturing and strategic plan (2)

- *Circular economy: products reused in new value chains*
 - Zero-waste manufacturing
 - De- and remanufacturing, including smart recycling
 - Re-use of raw materials, repair and refurbishment
- *Bio-integrated manufacturing*
 - Research in biology, engineering, machine learning,
 - Biomachining, biomimetics, biomechanics, bio-inspired digital manufacturing
- *Enabling a new way to build*



European Partnerships: a new approach

New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

Key features

- **Simple architecture and toolbox**
- **Coherent life-cycle approach**
- **Strategic orientation**

Co-programmed

Based on Memoranda of Understanding / contractual arrangements; implemented independently by the partners and by Horizon Europe

Co-funded

Based on a joint programme agreed and implemented by partners; commitment of partners for financial and in-kind contributions

Institutionalised

Based on long-term dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT-Regulation supported by Horizon Europe

Made in Europe

**Replacing
Factories of the
Future (FoF)**

**Strategic plan
2021-2024**

**Work programme
2021/2022**

**Example of
co-
programmed
partnership**

**Mainly Cluster 4
of Horizon
Europe**

**EIT
Manufacturing**

Synergies

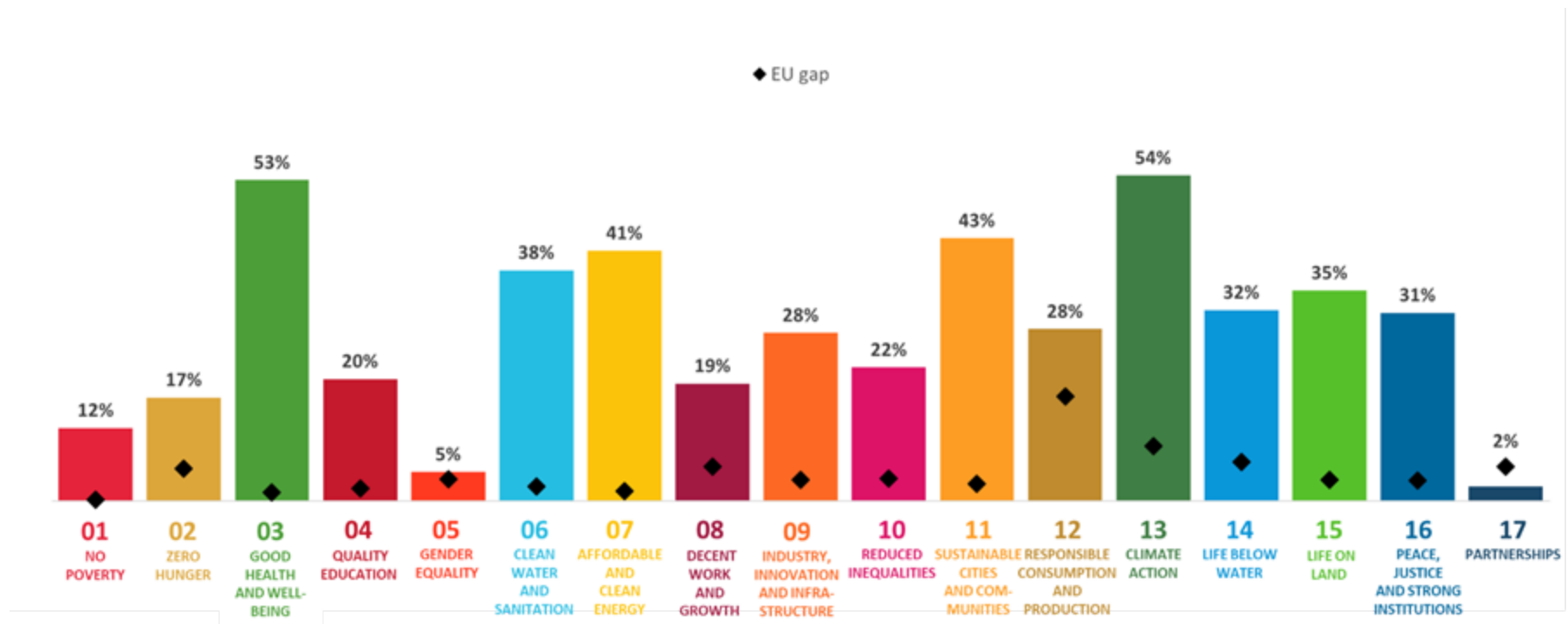
Our vision

*A sustainable, fair and **prosperous** future for **people** and **planet** based on European values*

- *Tackling **climate change** (35% budgetary target)*
- *Helping to achieve the **Sustainable Development Goals***
- *Boosting the Union's **competitiveness and growth***



Share of H2020 investment on SDGs and the EU distance to target



Total H2020 investment:
EUR 37.7 billion in 20,994 different projects

Conclusions

1. Priorities set for manufacturing for 2021-2024
2. Competitiveness very important but also sustainability and inclusiveness
3. From “Factories of the Future” to “Made in Europe”



Thank you!

#HorizonEU

<http://ec.europa.eu/horizon-europe>