EWF

European Welding Federation

Addressing EU Challenges

Training and Education

Horizon 2020



Horizon 2020

Three Pillars

Excellent science

- **European Research Council**
  - *Frontier research by the best individual teams*
- **Future and Emerging Technologies**
  - *Collaborative research to open new fields of innovation*
- **Marie Skłodowska Curie actions**
  - *Opportunities for training and career development*
- **Research infrastructures** (including e-infrastructure)
  - *Ensuring access to world-class facilities*

Industrial Technologies

- **Leadership in enabling and industrial technologies**
  - *ICT, nanotechnologies, materials, biotechnology, manufacturing, space*
- **Access to risk finance**
  - *Leveraging private finance and venture capital for research and innovation*
- **Innovation in SMEs**
  - *Fostering all forms of innovation in all types of SMEs*

Societal challenges

- **Health, demographic change and wellbeing**
- **Food security, sustainable agriculture, marine and maritime research & the bioeconomy**
- **Secure, clean and efficient energy**
- **Smart, green and integrated transport**
- **Climate action, resource efficiency and raw materials**
- **Inclusive, innovative and reflective societies**
- **Security society**

Horizon 2020

Three mutually reinforcing priorities

Strenthen industrial leadership in innovation. Includes major investment in key technologies, great access to capital and support for SMEs



Reflects the priorities of the EU 2020 strategy, addressing major concerns shared by all Europeans



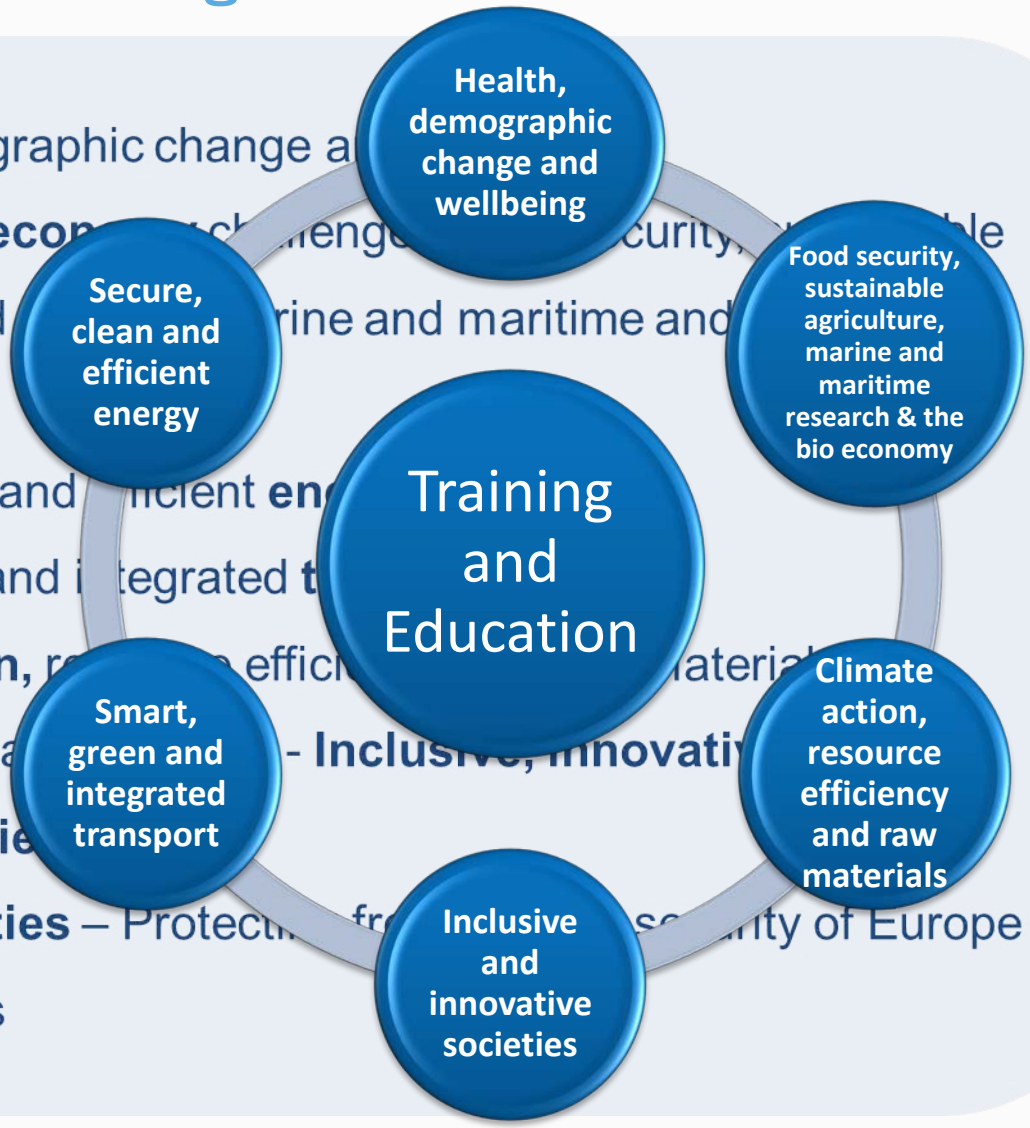


Support EU's position as a world leader in science, with an increase in funding to the European Research Council



Horizon 2020
Societal Challenges

1. **Health,** demographic change a
2. European **bioecon** ch lenge curity, le agriculture and rine and maritime and research
3. Secure, clean and icient **en**
4. Smart, green and i tegrated **t**
5. **Climate action,** r effici aterial
6. Europe in a cha - **Inclusive, innovati reflective socie**
7. **Secure societies** – Protecti fr sc rity of Europe and its citizens





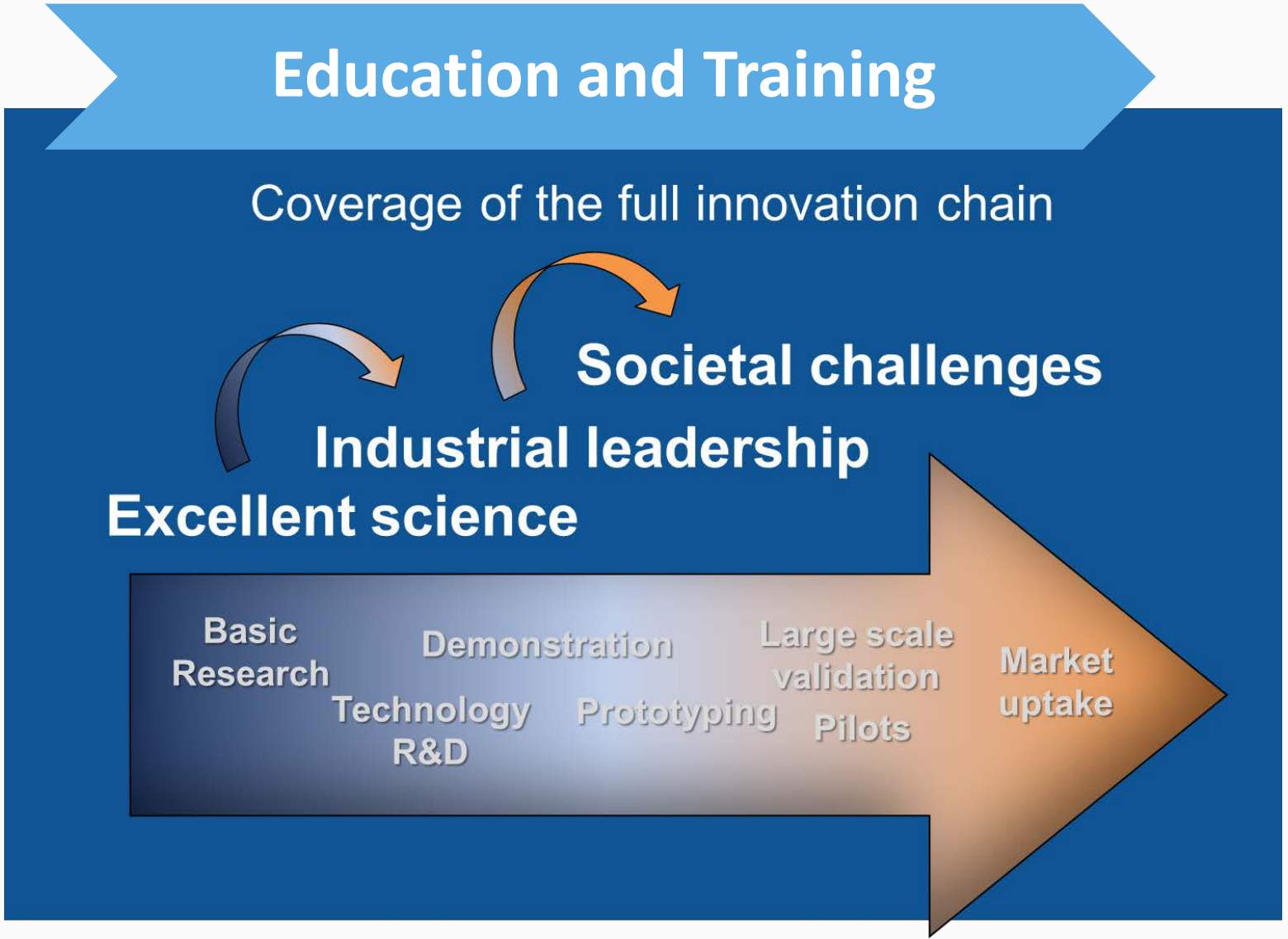






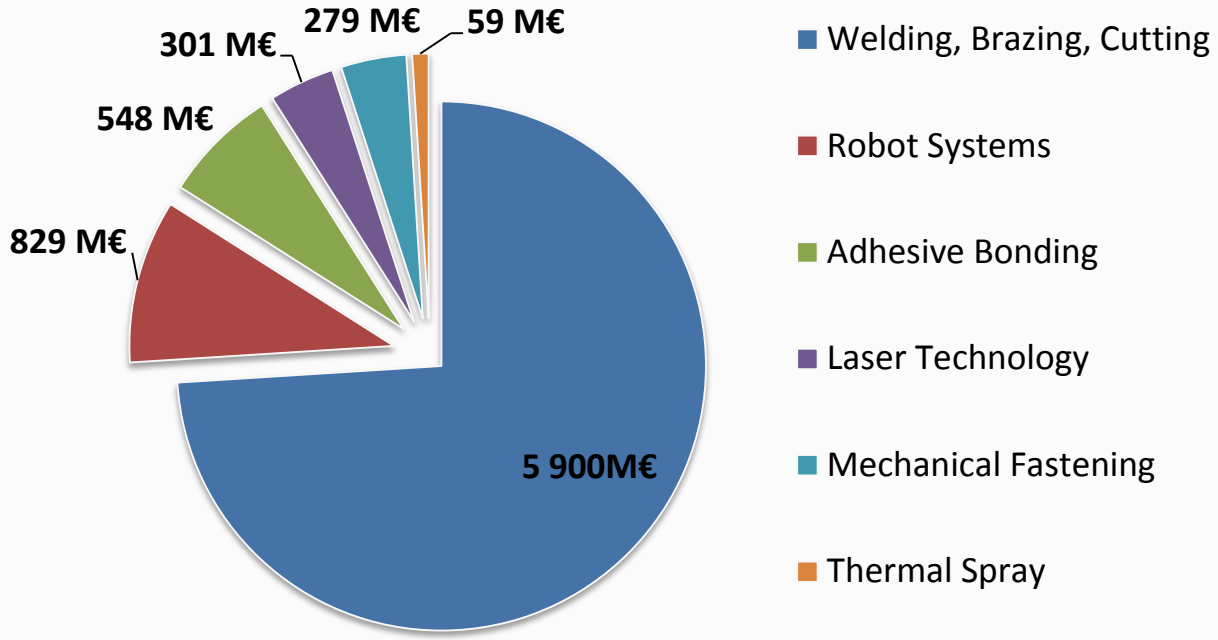
Horizon 2020

Covering the Innovation chain



Education and Training
Welding Case

"The value added by manufacture and application of Joining technology in Europe amounted to around EUR 65 billion in 2010. Over 1.25 million employees were connected with this added value within Europe in 2010" (Moos 2013).



PRODUCTION / VALUE ADDED: Devices and Systems 2010

Education and Training

Conclusions

- Joining has a key role in the European Manufacture industry
- Well educated and trained workers are necessary in order to achieve all the European objectives
- Horizon 2020 is a unique opportunity to strengthen the European manufacturing base by educating and training the necessary workforce

Education and Training Impact

- Growing to a sustainable and job-rich future
- Industry to approach 20% of GDP 2020
- Increase trade in goods in the internal market to 25% of GDP by 2020



Thank You

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