



Nanoelectronics

Status, vision and perspectives



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NEREID Workshop. Leuven, 11th September 2017

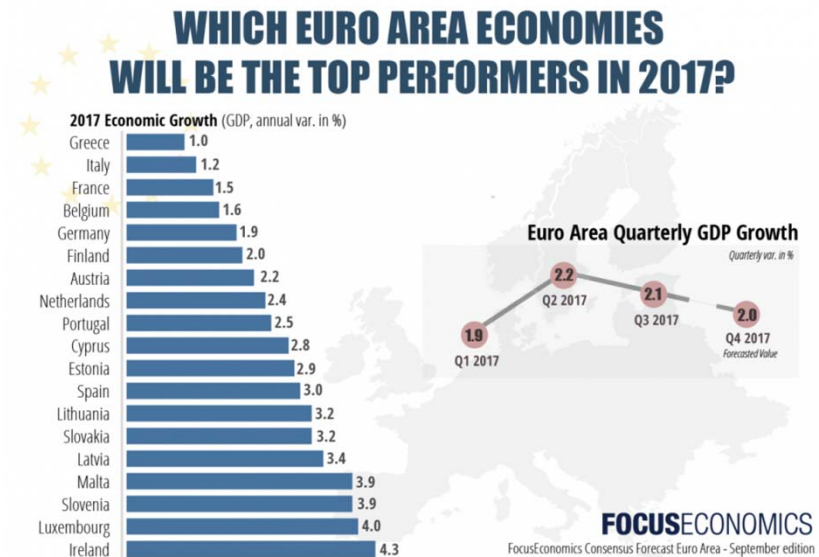
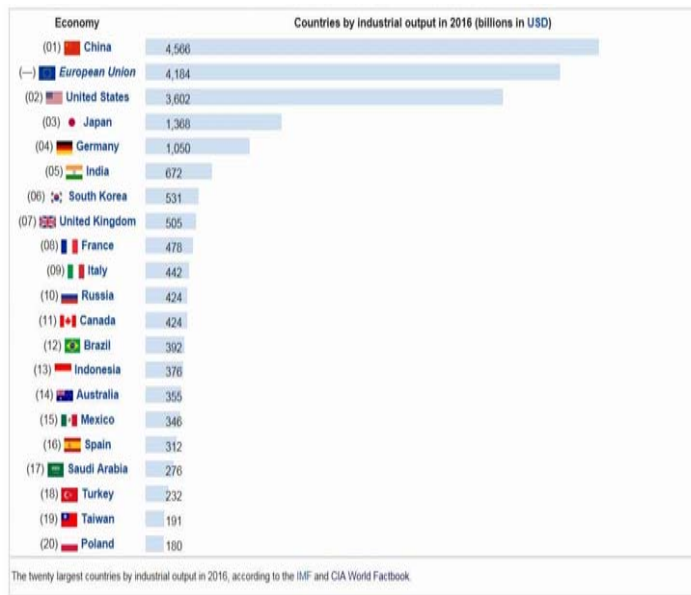


the context

social, political, economic, industrial, technological

the answer

education, research, innovation, cooperation, resources



R&I in Europe. Assessment and directions

- ▶ FP7 JUs evaluation
- ▶ ECSEL interim evaluation
- ▶ H2020 interim evaluation
- ▶ HLG report
- ▶ Inputs received
- ▶ On-going discussions



High Level Group Report (aka *Lamy report*)



Higher budget for R&I

Innovation Policy (EIC)

Invest in people

R&I designed for a high impact

R&I missions for global challenges

Focus on a few funding schemes

Simplify further

Involve citizens

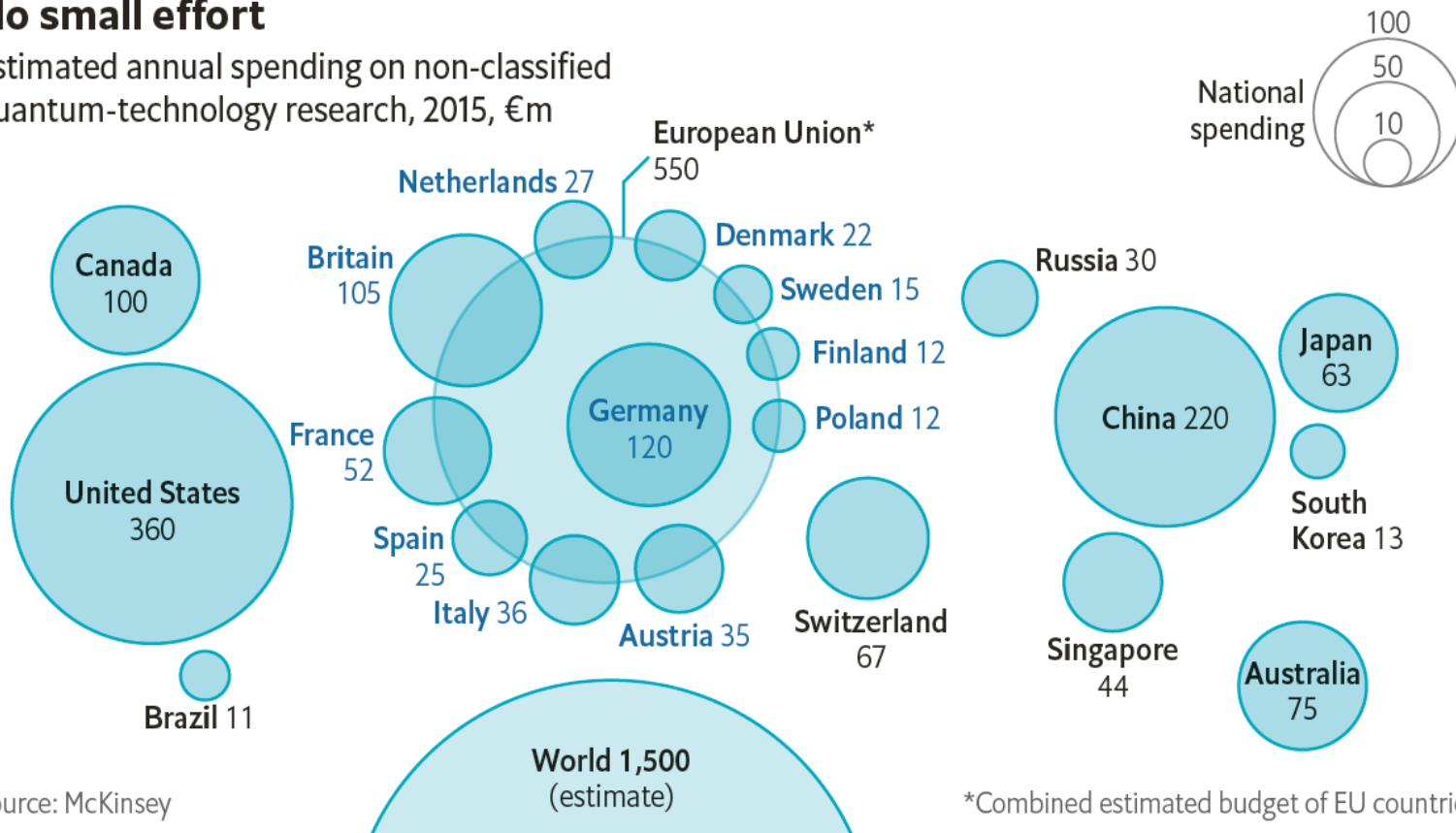
Align EU and national investments

Open the programme to international cooperation

Capture and communicate impact

No small effort

Estimated annual spending on non-classified quantum-technology research, 2015, €m




Source: McKinsey



Nanoelectronics

ELG strategy

European Electronics companies set to invest €100 billion; create 250,000 jobs; and double European computer chip production by 2020

- ▶ Act on supply and demand
 - ▶ Focus on investment
 - ▶ Critical role of RTOs
 - ▶ Promote a tri-partite model for R&D
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NEREID



- ▶ Combined expertise
- ▶ Broad base
- ▶ Industrial advise
- ▶ International input

Draft roadmap

- ▶ Fit for purpose
- ▶ Credible
- ▶ Attractive
- ▶ Large consensus

2018-19 Nanoelectronics Roadmap