

# REASONS TO STEP UP EU INVESTMENT IN RESEARCH AND INNOVATION

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## 1 VALUE FOR MONEY

R&I is a public good at the European level. Spending at this level enhances synergies, reduces excessive duplication and fragmentation, creates critical mass and generates economies of scale. As a result, the tax payer's money is more efficiently used.



## LEVERAGE 2

The EU Framework Programme has a proven value for research and innovation support in Europe. Every €1 invested generates on average €13 in increased value added of the business sector. Estimated GDP gains by 2030: 6 to 8.5 times the initial investment.

## 3 ADDITIONALITY

Today, the bulk of research investment is taking place at the national level. EU investment in R&I is complementary and funds research work with distinctive features. The interim evaluation of Horizon 2020 has shown that 83% of projects would not have gone ahead without Horizon 2020 funding. EU funding is not interchangeable with national funding.



## NURTURING THE NEXT GENERATION OF RESEARCHERS AND INNOVATORS 4



The Marie Skłodowska-Curie Actions have created new career pathways for young researchers throughout Europe. The ERC funded grantees in turn create on average more than 6 new research positions. EU R&I investment is effectively supporting the emergence of a new type of research community.

## 5 AT THE ROOT OF EVERYTHING

European investment in R&I *in fine* supports all other European policies. Research and Innovation underpin Europe's economic growth and societal progress. R&I investment fuels competitive innovation and therefore contributes to all key policy priorities, such as job creation, energy, climate change, social inclusion, migration and sustainability.



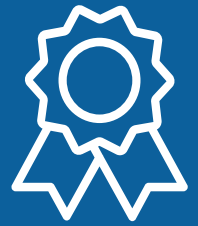


## BROADENED EXCELLENCE POOL 6

Pan-EU research competition allows for the identification of the best and give the most promising projects the means they need to come to fruition, delivering outputs that benefit all and potentially create EU-wide and even global impact.

## 7 TOP QUALITY

EU-funded research has a higher field-weighted citation index than national research, which is testament to the value of cross-continent competitive funding. First publications were cited twice as often as the world average.



## EUROPEAN AWARENESS AND IDENTITY 8

Supporting transnational collaborative research creates frameworks and networks for professionals and academics to work together concretely, beyond borders, reinforcing European awareness and identity. No other EU programme achieves this collaborative dimension to this scale.



## 9 THE UNDERFUNDING CHALLENGE

EU R&I investment must be stepped up because the Framework Programme is currently unable to accommodate 75% of the high quality proposals submitted. Such waste of talent and resources can only be addressed via significantly increasing funding.



## SCIENCE DIPLOMACY AS A GEOPOLITICAL ASSET 10

Horizon 2020 is the most open international research programme in the world. This enhances its capacity to address global challenges and allows for the development of stronger scientific ties with other countries. Beyond academic exchanges, EU R&I investment creates a long-term reliable framework for constructive science diplomacy.



## 11 MATCHING THE LEVEL OF INVESTMENT WITH THE SCALE OF CHALLENGES

The world faces considerable challenges, of global nature, addressed through the Sustainable Development Goals. The EU provides an integrated framework for R&I investment and activities that does not exist at a global level and allows for the building of scientific critical mass, in collaboration with partner countries, to best tackle such future-defining challenges.

