



HORIZON 2020

Key achievements and impacts- Slovakia

January 2020

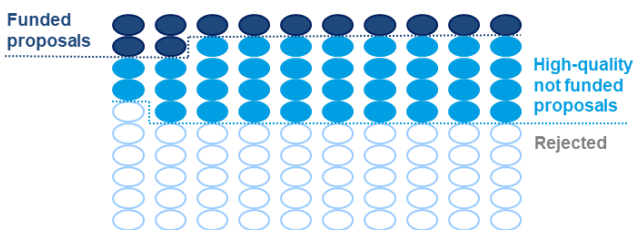


Horizon 2020 is the EU Framework Programme for Research and Innovation (2014 – 2020) with a dedicated budget of EUR 77 billion over seven years. It is a unique programme in the World designed to drive economic growth and create jobs in Europe by investing in excellent science, industrial leadership and societal challenges.

5 YEARS OF IMPLEMENTING HORIZON 2020

| | | | | | |
|--|---|--|---|---|--|
| €45b | 31% | 59% | 25% | 31 525 | 24 574 |
| of EU investment for Research & Innovation | of investment for climate Research & Innovation | of investment to higher education institutions & research organisations, 28% to private-for profit companies | of investment to SMEs (target: 20%) involved in tackling Societal Challenges and Leadership in Enabling & Industrial Technologies | unique participating entities, incl. 65% of newcomers and 14268 unique SMEs | grants signed from 204 750 proposals, involving 708 901 applications |

The programme is **ATTRACTIVE** but less than 1 in 3 high-quality proposals are funded: additional €116 bn would have been needed to fund them all



200,000 proposals (twice as much per year compared to the predecessor programme FP7)

12% of them received funding

83% of projects declare they **would not have gone ahead** without EU funding

Horizon 2020 investments are **EFFECTIVE** they generate a **GDP gain estimated between EUR 400 to EUR 600 billion by 2030** (EUR 1 → EUR 6 to 8.5)



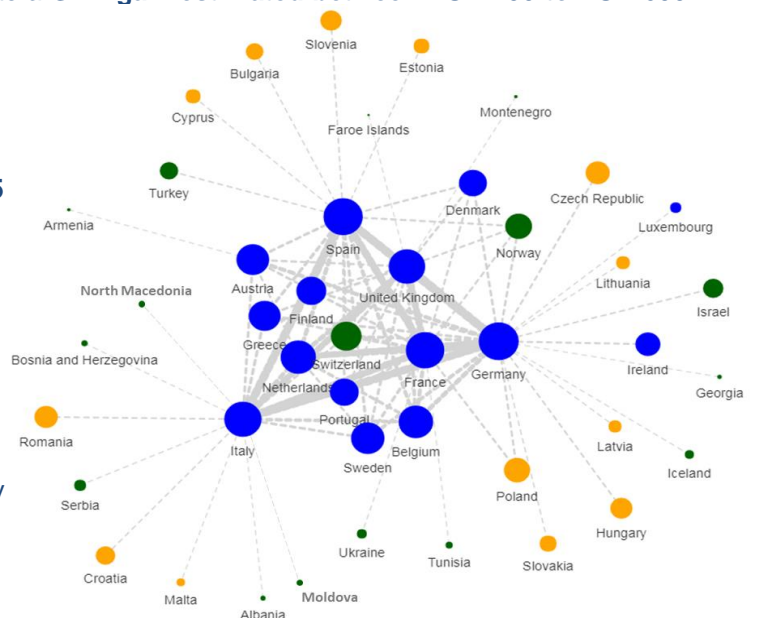
Creating networks and integrating research and innovation efforts **across countries** (154 countries involved), **sectors and disciplines: 1.5 million one-to-one collaborations in projects**



Generating scientific breakthroughs with 62,000 peer-reviewed publications, cited more than twice the world average, 3/5 based on private sector / academia collaboration



Generating innovation, including more than 1,600 patent applications and **benefits** on society expected from most projects (e.g Ebola research, IPCC panel, anti-microbial resistance)



SLOVAKIA IN HORIZON 2020

Horizon 2020 is well aligned with Slovak research and innovation priorities and helps Slovakia progress from being a moderate innovator to becoming a strong innovator in Europe.

€102m

of EU contribution

516

Participations from Slovakia

49

MSCA beneficiaries in Slovakia



Research and innovation efforts in Europe

- Slovakia is a **moderate innovator**. Innovation performance increased by 5.8 % in 2018. On the Global Innovation Index Slovakia ranks on position 37 out of 126
- The **top priority areas in the H2020** budget going to Slovakia are Food security, sustainable agriculture and forestry; marine and maritime and inland water research and the bioeconomy (EUR 26 million) and Teaming of excellent research institutions and low



Securing European funding through Horizon 2020

- Applying successfully** to Horizon 2020 with a higher than average level of success of applications involving Slovak participants in Horizon 2020 (13.6%)
- Based on current trends, it is estimated that Slovak participants would **receive EUR 152 million in EU contribution by the end of Horizon 2020** (compared to EUR 77 million in FP7)



Performing research and innovation

- 127 SME participations from Slovakia** in Horizon 2020 with an EU financial contribution of EUR 21 million
- In **Spreading Excellence and Widening Participation pillar Slovakia received 17 million**, ranking 9th among eligible countries

TOP 5 SLOVAK ORGANISATIONS BY EU CONTRIBUTION FROM HORIZON 2020

- TRENCIANSKA UNIVERZITA ALEXANDRA DUBCEKA V TRENCINE (EUR 12.7m)
- ENERGOCHEMICA TRADING AS (EUR 10.1m)
- UNIVERZITA KOMENSKÉHO V BRATISLAVE (EUR 6.7m)
- CHEMSTROJ SRO (EUR 5.4m)
- SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE (EUR 4.5m)

Slovakia in the current EIC pilots:

- 23 Slovak start-ups & SMEs** awarded funding worth € 2.17 million the EIC Accelerator's pilot (SME Instrument) under Horizon 2020 (2014-2019)
- Blended finance pilot call: 18 Slovak SMEs applied** to first call for blended finance, including 4 requesting equity investments (totally € 49.6 million). **7** of these were evaluated as **excellent**, among which one was invited to the interview and selected for funding, while the **6 others will receive the Seal of Excellence**.

H2020 EU Contribution to Top 15 Priority Areas (mil EUR)

