



KEY HIGHLIGHTS

Hungary's participation level in H2020 partnerships was rather low, in particular in industry-led programmes such as cPPPs, P2Ps, JUs with public co-funding (ECSEL) and EIT KICs activities were the most successful areas. Hungary's performance improved towards the end of the programme (raised awareness and increased involvement and national co-funding in P2Ps). For Horizon Europe, a more strategic approach will be followed, since partnerships can play a key role in better integration of participants from Widening countries in European RDI networks and can be well aligned with national sectorial and S3 priorities. Therefore a significantly increased participation is foreseen in Horizon Europe partnerships with higher national funding allocations (including use of ERDF).

34 H2020
public
partnerships (*)

Or
34.34%
of total
(99 partnerships)

37 H2020
public
partnerships (*)
participations

Or
1.72%
of total

0 H2020
public
partnerships (*)
coordinations

Or
0%
of total

Source: ERA-LEARN database (cut-off date June 2021), H2020 period (2014-2020) Excluding EIT-KICs, EuroHPC and ECSEL

(*) Horizon 2020 public-public partnerships include ERA-NET Cofund, EJPs, Art 185 initiatives and JPIs. Partnership participations: number of partnerships a specific country takes part as participant – for certain countries more than one national organisation may take part. Thus the participations may be more than the number of partnerships a country is part of. Total partnership participations: number of partners from a specific country participating with any role (i.e. coordinator, participant, observer, other) in partnerships. Partnership coordinations: number of partnerships a specific country coordinates.

€11.45 million

in actual national contributions in public partnerships
during H2020 (2014-2020)

Or **0.53%** of total

€366

per researcher FTE (average between 2014-2019 based
on EUROSTAT data)

Source: ERA-LEARN database (cut-off date June 2021), H2020 period (2014-2020)

Actual national contributions is the funding given by each country to cover the participation of national science and technology groups in the funded projects of the joint transnational calls launched by the public partnerships. Actual contributions for each researcher are the total actual contributions by a country divided by the number of researchers in the country estimated in full-time equivalents (FTE) average between 2014-2019 based on EUROSTAT data

KEY INTENTIONS FOR THE FUTURE

The main thematic priorities for Hungary, reflected also in the investment into H2020 partnerships, were health, ICT, transport, and agricultural and food technologies. These areas were also identified as the priorities of the Hungarian S3 strategy for 2014-20 and in general these are the fields where Hungarian organisations perform the best in the traditional H2020 call as well. As for Horizon Europe, stronger links with national sectorial strategies will be ensured through specific coordination mechanisms with the responsible ministries. Hungary's participation in European Partnerships will be also aligned with the thematic priorities of the S3 Strategy for 2021-27 which are the following: health, digitalisation, agriculture and food industries, resource efficient economy, energy and climate, and creative industries.



TABLE 1: Distribution of funding under the different H2020 instruments (P2Ps, JUs, cPPPs and other H2020 projects, i.e. CSAs, RIAs, IAs, etc.) across thematic priorities

THEMATIC PRIORITIES	P2Ps PROJECTS	JUs PROJECTS	cPPPs PROJECTS	OTHER H2020 PROJECTS
Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, Biotechnology	5.91 %	0.48 %	1.74 %	9.18 %
Climate action, environment, resource efficiency and raw materials	2.71 %	0.00 %	2.33 %	7.92 %
Europe in a changing world - inclusive, innovative and reflective Societies	0.00 %		3.35 %	10.15 %
Food security, sustainable agriculture and forestry, marine and maritime and inland water research	6.71 %	4.35 %		16.03 %
Future and Emerging Technologies	10.54 %		0.00 %	4.89 %
Health, demographic change and wellbeing	57.00 %	22.75 %		12.40 %
Information and Communication Technologies		50.12 %	87.61 %	16.18 %
Secure, clean and efficient energy	2.71 %	0.13 %	4.97 %	11.71 %
Smart, green and integrated transport	14.42 %	22.17 %		11.53 %
	100,00 %	100,00 %	100,00 %	100,00 %

Source: ERA-LEARN database (cut-off date June 2021) based on actual national contributions for P2Ps; eCORDA based on net EU contribution; values are calculated as the share of investments of the specific instrument in the specific theme in the total investments under the specific instrument

FIGURE 1: Eligible proposals, projects and success rates

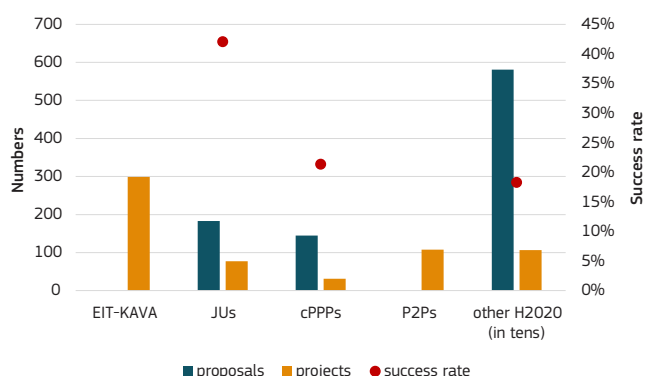
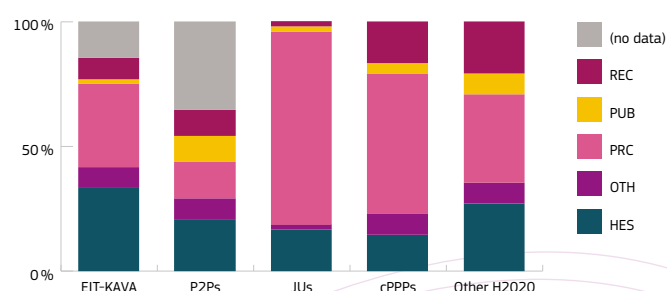


FIGURE 2: Types of project beneficiaries (%)



Source: ERA-LEARN database for P2Ps (cut-off date June 2021); eCORDA for EIT-KAVA, JUs, cPPPs, other H2020 projects (RIAs, CSAs, etc.)

No proposal data for P2Ps, EIT-KICs (Figure 1). EIT-KAVA: KIC Added Value Activities; HES: higher education; OTH: other; PRC: private for-profit companies; PUB: public bodies; REC: research organisations (Figure 2)

In Hungary the source of national co-financing for successful participants in H2020 partnerships was the National Research Development and Innovation Fund (NRDI Fund). Co-funding provided by the European Commission enabled the support of more projects.



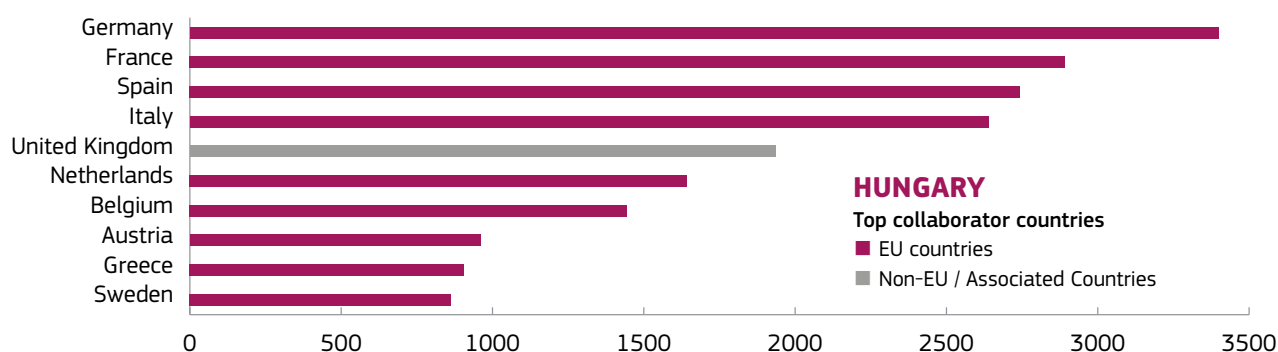
COMPLEMENTARY AND CUMULATIVE FUNDING

For Horizon Europe partnerships it is foreseen that in addition to the national funding (NRDI Fund) ERDF sources will also be used to support Hungarian participation (ERDF for convergence regions and the NRDI Fund for the capital region). ERDF funding allocated to support Hungarian participation in Horizon Europe partnerships will be part of the Economic Development and Innovation Operational Programme Plus (EDIOP Plus).

ADDITIONAL INVESTMENTS TRIGGERED

As a positive impact of a stronger coordination with sectorial ministries in relation to participation in H2020 partnerships, a more intense working level cooperation has been established through collaboration in thematic working groups, national hubs with a broader scope than the partnerships. Discussions have started on how to mobilise additional funding from the budget of sectorial ministries to support Hungarian participation in Horizon Europe partnerships.

FIGURE 3: Top collaborators of Hungarian researchers under Horizon 2020 projects (including JUs, cPPPs, P2Ps and other H2020 projects)



Source: eCorda; Showing top-10 collaborator-countries



SUCCESS STORIES

- ✦ **Impact on policy, programme design/management:** in the last years of Horizon 2020 a national umbrella programme was created for co-funding Hungarian participation in ERA-NETs. The previously fragmented programmes to co-fund certain ERA-NETs have been aligned. This approach makes it possible to use national co-funding in a more efficient way by re-allocating the funding between different sub-programmes if needed based on Hungary's performance in specific ERA-NETs.
- ✦ **Impact on the national coordination mechanism:** in the preparation phase for Horizon Europe coordination with the ministries responsible for sectorial policies and strategies has improved a lot. The process is managed by the National Research Development and Innovation Office. Awareness was raised about partnerships and Horizon Europe priorities in general, discussions were organised on how to set priorities regarding Hungarian participation in partnerships, and regular communication channels were established.