



HORIZON 2020

First Experiences and Results

Lessons Learned from the First Calls

CORUÑA, 25 November 2014

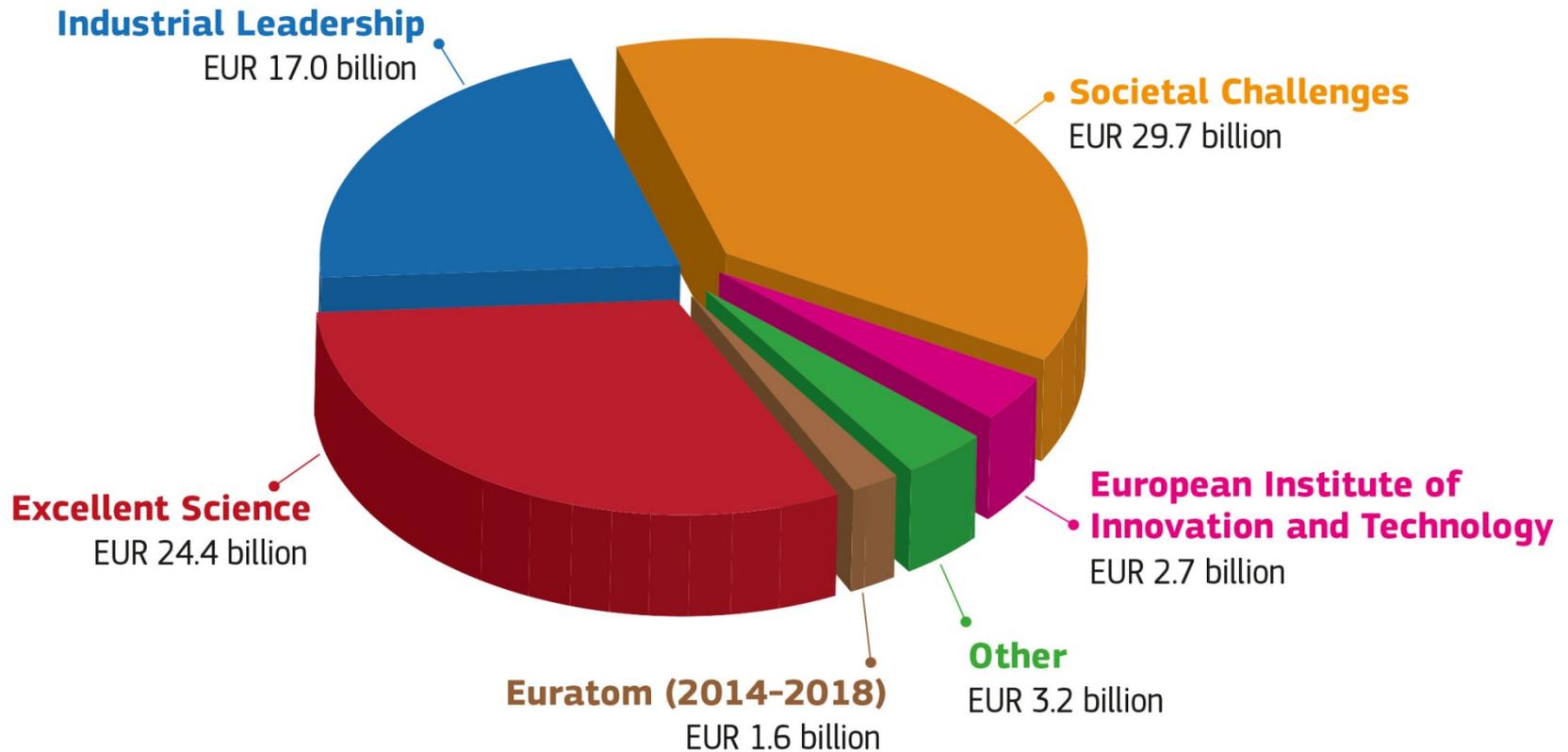


Wolfgang Burtscher
Deputy Director-General
DG Research and Innovation
European Commission

Horizon 2020

- **The new European Union framework programme for research and innovation for 2014-2020**
- **A budget of about €80 billion;** 30 per cent higher in real terms than the 2007-2013 period (FP7)
- **A core part of Europe 2020, Innovation Union & European Research Area:**
 - Strengthening the EU's global position in research, innovation and technology
 - Responding to the economic crisis to invest in jobs and growth
 - Addressing people's concerns about their livelihoods, safety and environment

HORIZON 2020 BUDGET (in current prices)

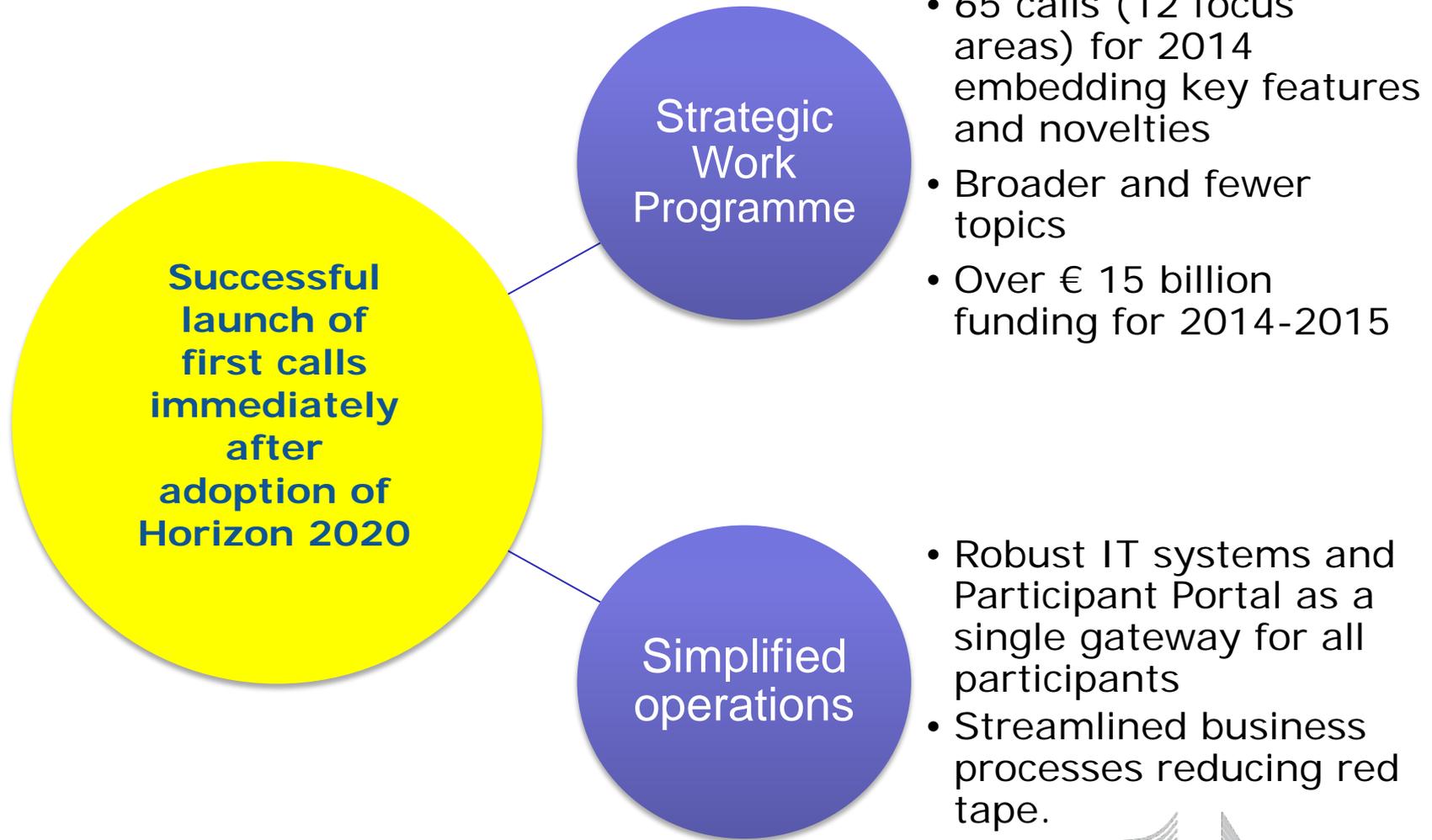


What is new?

- **A single programme** bringing together three separate programmes/initiatives*
- **Coupling research to innovation** – from research to retail, all forms of innovation
- **Focus on societal challenges** EU society is faced with, e.g. health, clean energy and transport
- **Simplified access**, for all companies, universities, institutes in all EU countries and beyond



Launch of Horizon 2020: A major achievement



Response to Horizon 2020 calls in first 10 months

- More than **2.1 million visits on Participant Portal** in December 2013 and increasing in the following months, **just over 3 million visits per month**
- Ca. **35,000 proposals** submitted
- Nearly **11,000 expert evaluators** contracted (74,000 experts registered);
- Attracted **newcomers** and evidence of **increase in industry participation;**
- High number of applications reflects **popularity of Horizon 2020.**



Lessons Learned from first H2020 calls

Analysis of the experiences with the first calls with the objectives:

- Take-stock
- Prepare (necessary) corrective measures
- Feed into Work Programme cycle for 2016-17

Based on

- **Statistical analysis of concluded calls**
- Feedback from **Commission services and Executive Agencies**
- **Observers' reports** from evaluations
- Feedback from some **stakeholders, certain NCPs and some Member States**

Lessons Learned: Work Programme and Information for applicants

Objective: Easy retrieval of information and simplified access for all applicants

Findings: **Participant Portal valued** by R&I community, but **work programme needs to be more visible**

Delays in **handling questions and providing information** to NCPs, applicants etc.

Recommendations:

- ✓ Enhance presentation of calls in Participant Portal
- ✓ Continuous improvement of Horizon 2020's IT system.
- ✓ Reinforce Commission efforts to help NCPs do their job
- ✓ Update regularly Frequently Asked Questions (FAQs)

Lessons Learned: Response to calls

Objective: Challenge-based calls allowing applicants considerable freedom to come up with innovative solutions and focusing more on impact

Findings: **Challenge based approach liked** by R&I community
Newcomers attracted and evidence of increase in **industry participation**

Perhaps one of the reasons for the high number of applications and consequently lower success rates.

However, picture remains largely diverse and requires further analysis! Around 1/3 of good proposals (i.e. above threshold) can be funded!

Success rate in 1st stage of 2-stage calls too high

Recommendations:

- ✓ Further analysis of reasons for increase in number of applications and related success rates
- ✓ Maintain the challenge-based approach, but improve clarity of topic descriptions (impact statements)
- ✓ Adapt call conditions for two-stage evaluations ensuring a 1:3 (budget-wise) success rate in the second phase

Lessons Learned: Proposal Evaluation

Objective: High quality of evaluation process

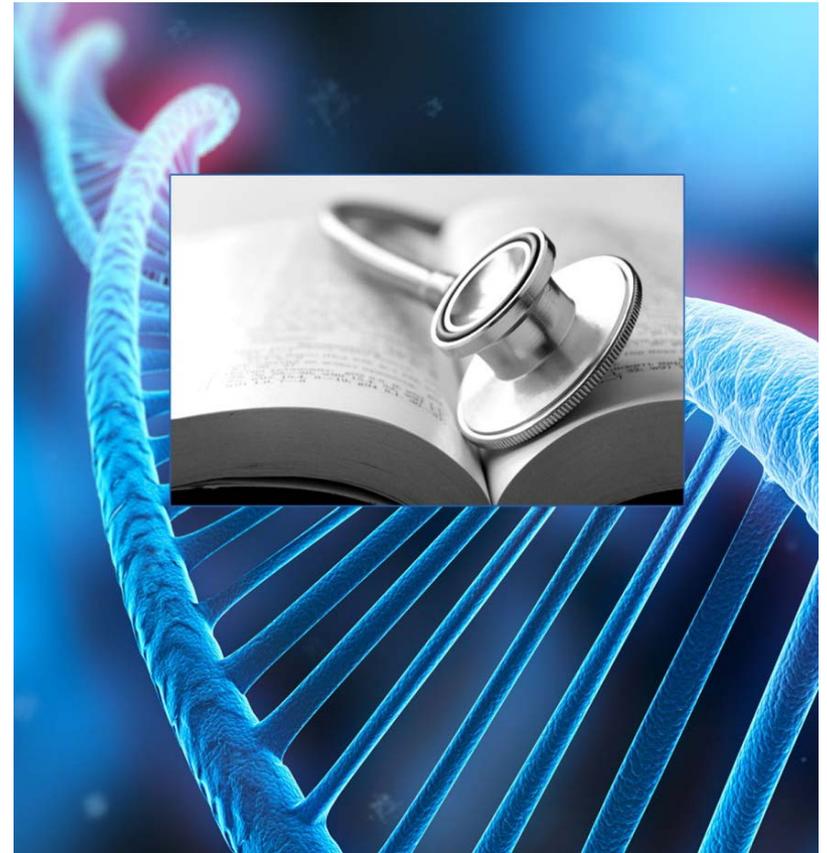
Findings: According to observers' reports **overall excellent quality of evaluations with good mix of experts.**
Some concerns regarding **interpretation of criteria and new concepts** (e.g. innovation management).
Lack of certain expertise in database (women, experts in innovation and business planning)
Difference in level of **feed-back provided** to applicants

Recommendations:

- ✓ Update briefings and guideline documents, including information for applicants, and evaluation process in response to feedback received
- ✓ Reinforce efforts to attract experts
- ✓ Develop a set of minimum standards on feedback

Lessons Learned: Further recommendations

- ✓ Carry out further monitoring of implementation processes (e.g. TTG), particularly when they affect applicants
- ✓ Address **key features and novelties** upstream in the work programme preparation cycle to ensure embedding in priority setting as well as implementation



Key feature: Covering the full research & innovation cycle

Work Programme 2014-2015

- ✓ **More support for innovation, activities close to market and demand side approaches**
€2 billion allocated to 100 topics for Innovation Actions (IA) in Societal Challenges and LEITs; €120+ million for innovation procurement (PCP/PPI); five inducement prices (2015) etc.
- ✓ **Engagement of industry**
€800 million for contractual PPPs; €516 million for SME instrument topics; more than €1.7 billion investment in JTIs; €630 million goes to debt and equity facilities; and substantial investment in P2Ps

First calls:

- ✓ Increased industry participation
- ✓ Good uptake of IA, other new innovation instruments to be monitored
- ✓ Need to continue and, where appropriate, reinforce broad approach to innovation (service, social innovation etc.)

Key feature: SMEs

Work Programme 2014-2015



- ✓ **SME opportunities across the whole work programme**, notably in Societal Challenges and LEITs (20% budgetary target) plus measures to enhance SME innovation capacity and debt and equity financial instruments (in addition Eurostars Joint Programme)
- ✓ **SME instrument**: around €512 million through 13 open topics of Societal challenges and LEITs

First calls:

- ✓ Around 18% of funding for SMEs, but full impact of SME instrument still to kick in
- ✓ Successful launch of SME instrument with high demand: 94% single company applications at first cut-off date for Phase 1 (feasibility assessment); low success rate (6%), but every other 'good' proposal funded (i.e. 49% of applications above threshold)

Key feature: Social Sciences and Humanities

Work Programme 2014-2015

SSH aspects embedded in calls and lines of activity of all WP parts, including through addressing end-user perspectives

- ✓ **199 SSH-flagged topics** (37% of the topics) in Work Programme representing a budget share of 5.3 % (considerably larger than FP7)
- ✓ Significant opportunities in **Marie Skłodowska-Curie** actions (about 11 % of budget to SSH) and in **ERC** (17 % to SSH; from 2015 no pre-defined budget envelope for scientific domains)

First calls:

- ✓ SSH coverage in proposals can be enhanced by, for example, improving wording of WP topic descriptions and evaluator briefing
- ✓ SSH expertise well represented in evaluation panels for SSH-flagged topics

Key feature: Gender

Work Programme 2014-2015

Explicitly integrated in all the sections of Work Programme

- ✓ Total of **99 gendered topics** (16% of total in Work Programme)
- ✓ **Specific call** under Science with and for Society (€ 9.5 million)
- ✓ **Topics are flagged** to ease access for applicants

First calls:

- ✓ Still room to improve gender balance in evaluation panels
- ✓ Gender issues more frequent in flagged topics
- ✓ Continued efforts needed to address gender dimension in preparation and implementation of work programme

Key feature: International cooperation

Work Programme 2014-2015

General openness to international participants & targeted activities in all relevant WP parts

- ✓ Topics with **international participation as a recommendation (20% or topics)**
- ✓ Relying more on **topics with critical mass and multi-lateral approaches (e.g. Health, Resource Efficiency)**

First calls:

- ✓ Drop in participation of international partners (no automatic funding for emerging economies – BRIC & Mexico)
- ✓ Continued good level in ERC and MSCA.
- ✓ Need to increase international cooperation activities (flagship initiatives together with accompanying actions)



Work Programme Update for 2015

- **Confirmation of the 2015 budget**
- **New call launched: Fast Track to Innovation:**
 - A last push to promising ideas before entering the market
 - Substantial industry involvement
 - Open from January 2015 to small consortia of three to five organisations
 - EU support of €100 million
- **Five inducement prizes announced** to induce technological breakthroughs in key areas:
 - Material: Reduction of Particulate Matter Air Pollution – €3 million
 - Reduction of Use of Antibiotics for Respiratory Infection – €1 million
 - Food-Scanner Prize – €1 million
 - Collaborative Sharing of Spectrum – €0,5 million
 - Optical transmission – €0,5 million

Lessons Learned – Next Steps

- ❑ Tackle **issues that can be adapted in the short term** and strive for continuous improvements
- ❑ **Further in-depth analysis and feedback** from a wider audience, notably applicants
- ❑ Take full account of 'Lessons Learned' in the **preparation of the work programme 2016-2017** that is to be adopted in the third quarter 2015 (calls for 2016)



For further information

- **Participant Portal**

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

- **Helpdesk**

<http://ec.europa.eu/research/enquiries>

- **Expert evaluators needed!**

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

- **Learn more about Horizon 2020**

<http://ec.europa.eu/horizon2020>

Thank you for your attention!