Impact of Horizon 2020 to Small and Medium-Sized Enterprises

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Small and Medium-Sized Enterprise

Fundamental question:

How to build a high-tech competitive successful company?

1. Access to finance (public/private)
2. Knowledge, expertise, information
3. Networks, cooperation partners
4. Access to platforms / infrastructures
5. Access to customers
6. Visibility and recognition
Technology company life cycle

University

Small Business

Resources Invested

Public Funds

Research

Development

Commercialization

SBIR

Private Funds

Industry

Venture Capital

Angel Investors
HORIZON 2020

It is a CHANCE

Not this

386 participations
55,2 mil. € EC contribution
HORIZON 2020

It is a CHANCE

- to compete with other Europeans on equal basis
- to have access to same sources
- to be competitive through innovations
- to cooperate with top research partners
- to meet future customers
- to be faster, smarter and better
H2020 Pillar - Industrial Leadership
Key Enabling Technologies (KETs)

- Nanotechnologies
- Advanced Materials
- Micro- and nano- electronics
- Photonics
- Biotechnology
- Advanced Manufacturing

- Europe – strong position in science and patents
- Gap between technology and manufacturing
- Need for demonstrators, manufacturing and product development
Technology Readiness Levels (TRLs), a useful tool for KETs

- Two funding rates:
  - 100% funding: TRLs 3-6
  - 70% funding: TRLs 5-8
- Strategic research agendas, roadmaps and value chains
- Cross-cutting KETs
SME Innovation Support in Horizon 2020 over the full innovation cycle

Access to Ideas
- Developing Innovative Ideas for New Products and Services

Access to Knowledge
- Developing New Technology for New Products and Services

Access to Markets
- Demonstrating Benefits in Market for New Products and Services

Access to Finance
- Establishing Supply Capability for New Products and Services

Developing New Designs, Value Chain, Business and Organisational Models for New Products and Services
SME Innovation Support in Horizon 2020 over the full innovation cycle

- Access to Ideas
  - Innovation Exploratory Awards
- Access to Knowledge
  - Small Business Innovation Research
  - Research for SMEs Projects
- Access to Markets
  - Demonstration Projects
- Access to Finance
  - EIB Backed Venture Funds (RSFF)

EC Programmes

Coordinated National Programmes
Simplification

EU Financial Regulation

SINGLE SET OF RULES for Horizon 2020

...ETC
Risk-Finance in H2020 and SMEs

- For innovative SMEs access to needed sources
- 3.7% of the H2020 budget in the form of risk-sharing (loans / guarantees) and risk finance (equity)
- Goal: **Stimulate more investment in research and innovation** - Leverage effect by private sector
- New SME instrument:

**Phase 1**
- Concept & Feasibility Assessment
- Lump sum: ~ 50,000 € ~ 6 months

**Phase 2**
- Innovation R&D activities
- Output-based payments: 1 to 2.5 M€ 12 to 24

**Phase 3**
- Comercialisation
- No direct funding

**Market**
European Technology Platforms (ETPs)

- Key element in the European innovation ecosystem
- Industry-led stakeholder forums
- Derived Joint Technology Initiatives (PPPs)
- 36 ETPs and 5 JTIs
- Vision and Strategic Research Agenda (SRA)
Success story on a half way

2008: joining European Geothermal Energy Council and ETP on Renewable Heating and Cooling (ETP-RHC)

Until that time – focus on shallow geothermal issues

2009 – 2011: Active lobbying for deep drilling

2012: Contribution to SRA of ETP-RHC

December 2013: H2020 calls launched including Energy LCE-02-2014 topic containing “Deep geothermal energy” issues

Deadlines: April 2014 (1st round) / September 2014 (2nd round)

2015: Hopefully a project on deep drilling led by Slovak coordinator
Synergies with Structural Funds

- Increased funding for R&I available under regional funding
- National authorities in charge (not Commission)
- Unutilized opportunity for Slovakia:

More Structural Funds OP R&D

Lower Success in FP7

- Incoherence of national science policy with FP7/H2020
- ERA-NET participation
Case study GA Drilling – technology company
Bring Ideas
Travel
Network
Courage Beyond Horizons

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