GA Drilling

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

HORIZON 2020

It is a **CHANCE**

Not this

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

SME Innovation Support in Horizon 2020 over the full innovation cycle

Simplification

SINGLE SET OF RULES
for Horizon 2020

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:

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)

Bio-based economy	Energy	Environment	ICT	Production and processes	Transport
EATIP	Biofuels	WssTP	ARTEMIS	ECTP	ACARE
ETPGAH	EU PV TP		EUROP	ESTEP	ERRAC
Food for Life	TPWind		ETP4HPC	EuMaT	ERTRAC
Forest-based	RHC		ENIAC	FTC	Logistics
Plants	SmartGrids		EPoSS	SusChem	Waterborne
FABRE TP	SNETP		ISI	Nanomedicine	
TP Organics	ZEP		Net!Works	ETP-SMR	
			NEM	Manufuture	
			NESSI		
			Photonics 21		

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

Renewable Heating & Cooling
European Technology Platform

EGEC GEOTHERMAL

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

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Lower Success in FP7

- Incoherence of national science policy with FP7/H2020
- ERA-NET participation

THE CHALLENGE

GA Drilling

Case study GA Drilling – technology company

GA Drilling

Bring Ideas
Travel
Network
Courage Beyond Horizons

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