

Ministry of Higher Education and Science

Danish Agency for Science, Technology and Innovation

## SMEs in Horizon 2020

Opportunities and experiences so far...

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### EuroCenter

**National Contact Points (NCP)** 

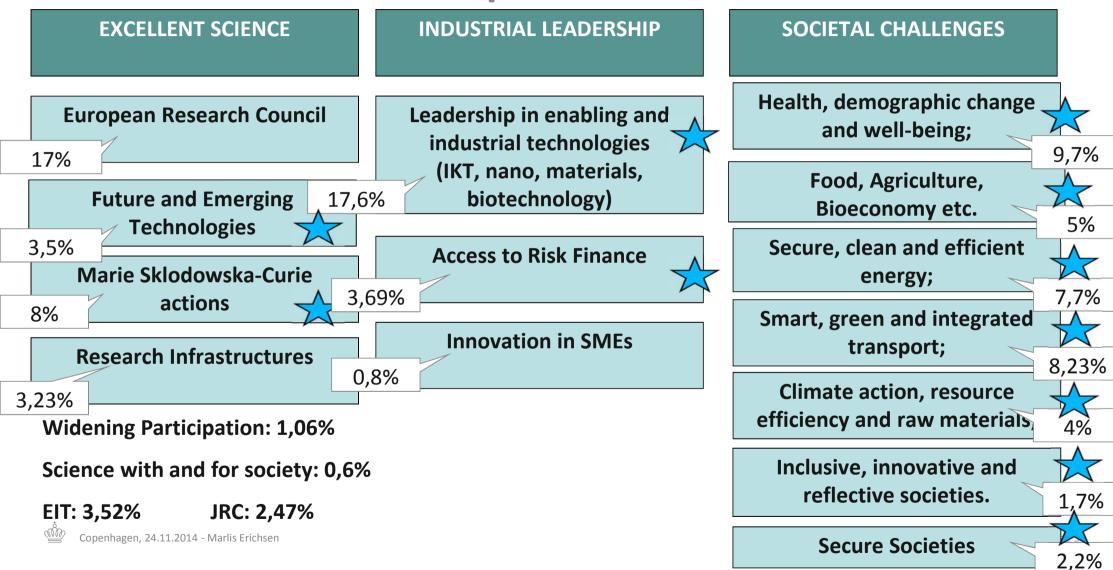
- Free advice on Horizon 2020 by telephone, e-mail and individual meetings
- Courses on financial rules, application writing, reporting etc. (participant fee)

### **Programme Committee members**

• Promote Danish interests

### SMV-instrument topics i Horizon 2020

Elixir - SMEs in H2020



#### 9 months into Horizon implementation. SMEs represent...

- 1/4 of applicants (24.82%)
- 1/5 of beneficiaries (19.55%)
- 1/6 of budget allocation (16.18%)

### **Opportunities for SMEs (I)**

SME-oriented R&I-topics, which are provided in Work Programmes (WP) under

- Leadership in enabling and industrial technologies (pillar2)
- Societal Challenges (pillar 3)

• SME-instrument (particular type of project), which is provided in WPs under

- Leadership in enabling and industrial technologies (pillar 2)
- Societal Challenges (pillar 3)

### **Opportunities for SMEs (II)**

- Fast track to innovation (particular type of project as of 2015), provided in Work Programmes (WP) under pillar 2 and 3
  - Bottom up within the framework of the given work programme
  - Greater emphasis on the "impact"-criterion during evaluation
  - Maximum support rate 3 mio. Euro
  - Time-to grant max. 6 months
  - Permanently open call three cut-off dates per year
  - Small consortia (3-5 partners)
- Eurostars (particular programme with national co-funding)
  - Close-to-market projects
  - Adressed towards research intensive SMEs
  - Projects of max. 3 years duration. Max 5 years from market introduction
  - Small consortia dominated by research intensive SME http://www.eurostars-eureka.eu/

### **Opportunities for SMEs (III)**

- Marie Skłodowska-Curie Actions (Programme under pillar 1)
  - "Free" researcher (ER) or Ph.d. (ESR) (secondment to company)
  - 2 possibilities:
    - SME becomes part of a network with research institutions
    - SME hosts Industrial Doctorates
  - Bottom up

For <u>MSCA</u>: first information confirms that SMEs have found their way to this scheme:

- 11.76% of applicants are SMEs
- 13.77% of beneficiaries are SMEs (// close to 15 % in FP7)
- 10.31% of the budget goes to SMEs (// close to 11% in FP7)
- 19.27% of SME applicants are successful (vs. 16.45% of all applicants)

# Marie Skłodowska-Curie Actions – researcher mobility

Companies can:

- Cooperate with research institutions
- Gain access to equipment, which only exists in academic institutions
- Create a connection between some of the highly qualified researchers from universities and the research activities of the company
- http://ec.europa.eu/research/mariecurieactions/about-msca/industry-sme/index\_en.htm
- <u>http://ufm.dk/forskning-og-innovation/tilskud-til-forskning-og-innovation/eu-og-internationale-programmer/eus-forsknings-og-innovationsprogram-horizon-2020/forskermobilitet-og-uddannelse</u>

### Call deadlines 2015

Call ID	Call Opens	Call Deadline	Budget (Mio EUR)
H2020-MSCA-ITN-2015	2-Sep-2014	13-Jan-2015	370.00
H2020-MSCA-RISE-2015	6-Jan-2015	28-Apr-2015	80.00
H2020-MSCA-IF-2015	12-Mar-2015	10-Sep-2015	215.00
H2020-MSCA-COFUND- 2015	14-Apr-2015	1-Oct-2015	80.00

### **The SME Instrument**

Elixir - SMEs in H2020

SEAMLESS BUSINESS INNOVATION SUPPORT FROM IDEA TO MARKET ...



### **Target group of the SME-Instrument**

"Premier League"

"Highly innovative firms that are ambitious and have the potential to develop, grow and have a European or international impact".

"Advisable that the SME has, and can demonstrate, a good knowledge and experience in the markets it intends to master".

"Companies which follow a development strategy that pursues breakthrough innovation and/or the potential to disrupt existing markets".

The European Commission

http://ec.europa.eu/easme/sme/

### **Technology Readiness Levels**

TRL 1 – basic principles observed

TRL 2 – technology concept formulated

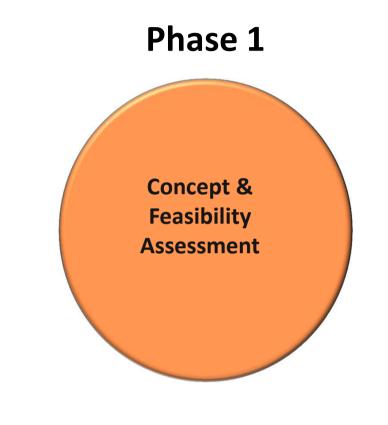
- TRL 3 experimental proof of concept
- TRL 4 technology validated in lab

TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)

- TRL 6 technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 7 system prototype demonstration in operational environment
- TRL 8 system complete and qualified

TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)





Copenhagen, 24.11.2014 - Marlis Erichsen

#### Target group:

- A single enterprise or a consortium of private enterprises (for profit)
- Focus on growth enterprises
- Projects with potential for European added value

#### Input and outcome:

Initial business plan -> Elaborated Business Plan

#### Call dates and time to grant:

Permanently open call – 4 cut-off dates annually 2+1 months

#### Size of grant:

50.000 euros – lump sum (70%) NB: if only parts of the activities are finalized, the <u>total</u> grant amount must be returned.

**Project duration** 6 months



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### Phase 1 - Proposal



#### Excellence

- 1.1 Objectives
- 1.2 Relation to the work programme
- 1.3 Concept and approach
- 1.4 Ambition

#### Impact

- 2.1 Expected Impacts
  - a) Users/ Market
  - b) Company
- 2.2 Measures to maximise impact
  - a) Dissemination and exploitation of results
  - b) Intellectual property, knowledge protection and regulatory issues

#### Implementation

- 3.1 Work plan work package and deliverable
- 3.2 Management structure and procedures (only to the extent relevant)
- 3.3 Consortium as a whole (if applicable)
- 3.4 Resources to be committed include a fixed budget table (no modifications possible)

#### Members of the consortium and third parties involved in the project (subcontracts)

#### **Ethics and security**

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### Phase 2



Can be applied for directly without previous participation in Phase 1

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#### Target group:

- A single enterprise or a consortium of private enterprises (for profit)
- Focus on growth enterprises
- Projects with potential for European added value

#### Input og outcome:

Elaborated business plan -> Investor ready business plan

#### Call dates and time to grant:

Permanently open call – 4 cut-off dates annually 4+2 months

#### Size of grant:

Typically 0.5-2.5 mio. Euro (70 % + 25%) (exception: PHC research projects 100 %+25%)

Project duration Ca. 12-24 months.



### Phase 2 - Proposal

#### Excellence

- 1.1 Objectives
- 1.2 Relation to the work programme
- 1.3 Concept and approach
- 1.4 Ambition

#### Impact

- 2.1 Expected Impacts
  - a) Users/ Market
  - b) Company

#### 2.2 Measures to maximise impact

- a) Dissemination and exploitation of results
- b) Intellectual property, knowledge protection and regulatory issues
- c) Communication

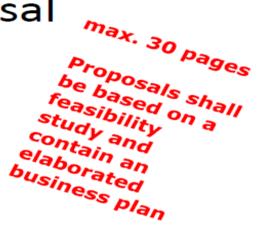
#### Implementation

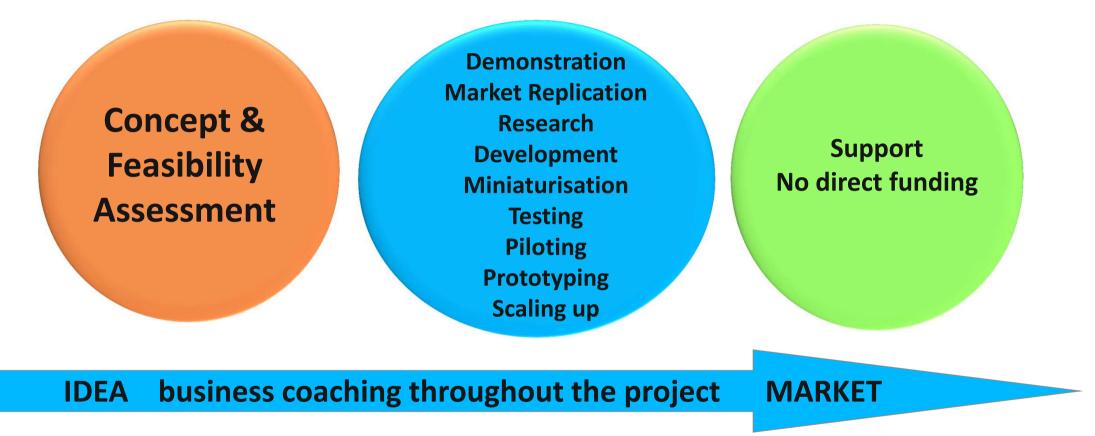
- 3.1 Work plan work package and deliverable
- 3.2 Management structure and procedures (only to the extent relevant)
- 3.3 Consortium as a whole (if applicable)
- 3.4 Resources to be committed (table on person months and possibly other direct costs)

Members of the consortium and third parties involved in the project (subcontracts)

#### Ethics and security

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### Cut-off dates 2014/2015

#### Cut-off dates

2014		2015		
Phase 1	Phase 2	Phase 1	Phase 2	
<del>- 18/06/2014</del> - <del>24/09/2014</del> 17/12/2014	<del>- 09/10/2014-</del> 17/12/2014	[18/03/2015 17/06/2015 17/09/2015 16/12/2015]	[18/03/2015 17/06/2015 17/09/2015 16/12/2015]	

Themes	Call id 2014	1	Call id 2015		
	Phase 1	Phase 2	Phase 1	Phase 2	
High risk ICT innovation	<u>ICT-37-2014-1</u>	<u>ICT-37-2014</u>	ICT-37-2015-1	<u>ICT-37-2015</u>	
	90 projects €4.5m	~26 projects €40m	90 projects €4.5m	~26 projects €40m	
Nanotech, or other advanced tech for	<u>NMP-25-2014-1</u>	<u>NMP-25-2014</u>	<u>NMP-25-2015-1.</u>	<u>NMP-25-2015</u>	
manufacturing and materials	43 projects €2.2m	~13 projects €19m	47 projects €2.4m	14 projects €21m	
Space research and development	Space-SME-2014-1	Space-SME-2014-2	Space-SME-2015-1	Space-SME-2015-2	
	17 projects €0.8m	~5 projects €7.5m	18 projects €0.9m	~13 projects €7.7m	
Diagnostics devices and biomarkers	PHC-12-2014-1	PHC-12-2014	PHC-12-2015-1	PHC-12-2015	
	132 projects €6.6m	~38 projects €53m	90 projects €4.5m	~26 projects €40m	
Sustainable food production and processing	SFS-08-2014-1	<u>SFS 08-2014</u>	<u>SFS-08-2015-1</u>	<u>SFS-08-2015</u>	
	18 projects €0.9m	~5 projects €8m	18 projects €1.7m	~10 projects €15m	
Seas and oceans (Blue growth)	BG-12-2014-1	BG-12-2014	BG-12-2015-1	BG-12-2015	
	6 projects €0.3m	1-2 projects €2.6m	10 projects €0.5m	2-3 projects €4m	
Low carbon energy systems	SIE-01-2014-1	SIE-01-2014	<u>SIE-01-2015-1</u>	<u>SIE-01-2015</u>	
	67 projects €3.4m	~20 projects €29m	74 projects €3.7m	~22 projects €31m	
Greener and more integrated transport	<u>IT-1-2014-1</u>	<u>IT-1-2014</u>	<u>IT-1-2015-1</u>	<u>IT-1-2015</u>	
	72 projects €3.6m	~21 projects €32m	78 projects €3.9m	23 projects €34m	
Eco-innovation and sustainable raw material supply	<u>SC5-20-2014-1</u>	<u>SC5-20-2014</u>	<u>SC5-20-2015-1</u>	<u>SC5-20-2015</u>	
	~34 projects €1.7m	~10 projects €15m	38 projects €1.9m	~11 projects €17m	
Urban critical infrastructure	DRS-17-2014-1	DRS-17-2014	DRS-17-2015-1	DRS-17-2015	
	14 projects €0.7m	4 projects - 66m	14 projects €0.7m	~4 projects €6.5m	
Biotechnology-based industrial processes	BIOTEC-5a-2014-1	BIOTEC-5a-2014	BIOTEC-5b-2015-1	BIOTEC-5b-2015	
	8 projects €0.4m	~2 projects €3.3m	5 projects €0.2m	1 project €2m	
Mobile e-government applications	-	-	<u>INSO-9-2015-1</u> 8 projects €0.4m	INSO-9-2015 ~2 projects €3.5m	
SME business modelsinnovation 4 - Marlis Erichsen	-	-	INSO-10-2015-1 22 projects €1.1m	INSO-10-2015 ~6 projects €9m <sup>Page 19</sup>	
TOTAL	~500 projects	~145 projects	~510 projects	~160 projects	

### **Results from the first cut-off for Phase 1**

#### **Overall:**

2602 applications received
155 succesful applications
317 (12 %) applications over threshhold
85 % of all applications were sent within the last 48 hours before the cut-off date
434 experts were used

#### DK:

72 Danish applications were sent4 succesful applications (IKT, transport, 2 x nano)60 applications under threshhold

### 6 lessons learnt from the first round – tips for future applicants

- 1. Too much focused on the project and **not enough on the business opportunity**;
- 2. Not convincing when **describing the company** (you have to explain why your company will succeed and not your competitor);
- 3. Not providing enough information on **competing solutions**;
- 4. Having a **too low level of innovation**, planning to develop a product that already exists on the market;
- 5. Proposing just an idea without any concept for its commercialization;
- 6. Just **trying their luck** (the SME Instrument is not a lottery!).

#### EASME: <u>http://ec.europa.eu/easme/en/news/sme-instrument-statistics-first-cut-date-phase-1-released</u>

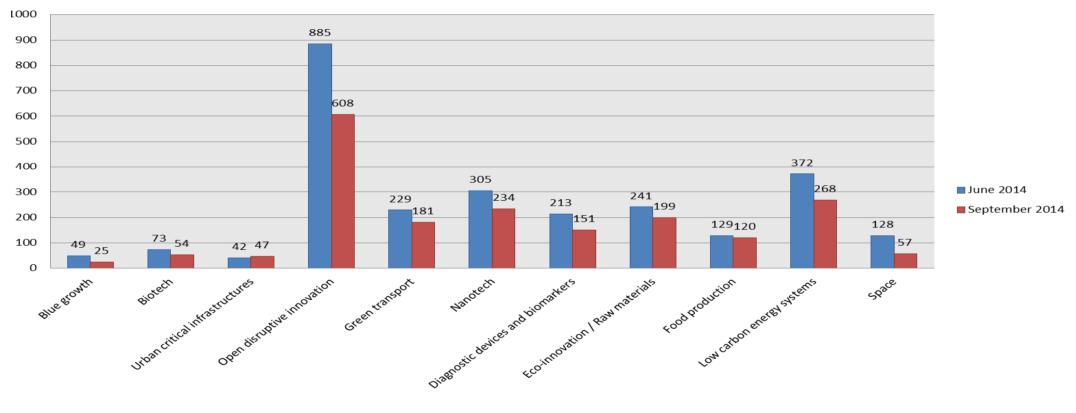
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### Number of proposals submitted by topic for the 2 cut-off dates:

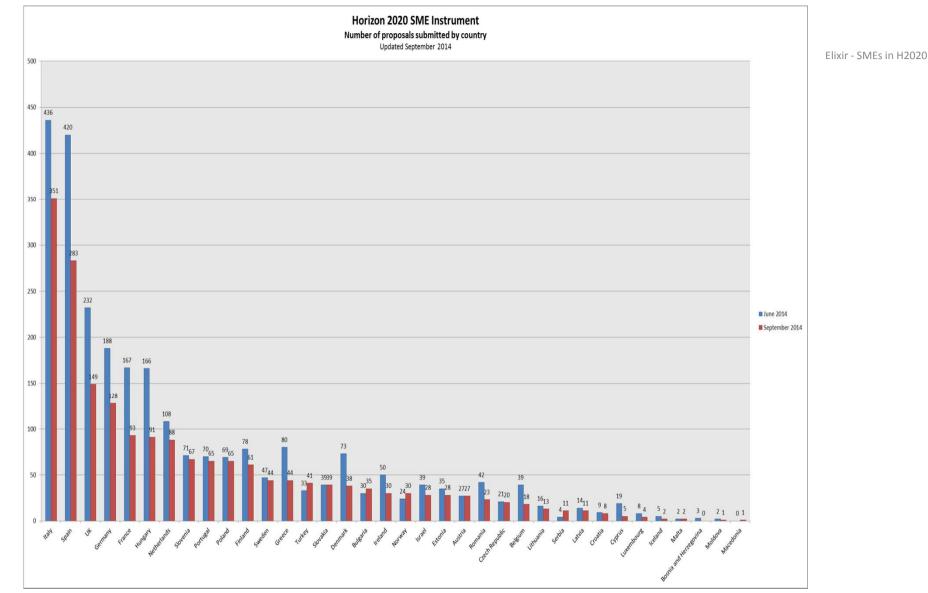
#### Horizon 2020 SME Instrument

Number of proposals submitted by topic

Updated September 2014







### **Useful links:**

Elixir - SMEs in H2020



- Short cut to work programmes, rules for participation, templates for applications etc.: <u>http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference\_docs.html</u>
- Example of application template Phase 1 SME-instrument:
- http://ec.europa.eu/research/participants/data/ref/h2020/call\_ptef/pt/h2020-call-pt-sme-1\_en.pdf
- Example of application template Phase 2 SME-instrument: <u>http://ec.europa.eu/research/participants/data/ref/h2020/call\_ptef/pt/h2020-call-pt-sme-2\_en.pdf</u>
- Executive Agency for Small and Medium-Sized Enterprises (EASME):
- <u>http://ec.europa.eu/easme/sme\_en.htm</u>
- Danish Agency for Science, Technology and Innovation: <u>http://ufm.dk/forskning-og-innovation/tilskud-til-forskning-og-innovation/typiske-sporgsmal/horizon-2020-</u> <u>typiske-sporgsmal/fag-smv-instrumentet/spoergsmael-og-svar-om-ansoegninger-til-SMV-instrumentet</u>

### **Getting started...**

Find your relevant topic: http://ec.europa.eu/research/participants/portal/desktop/en/home.html

**Find partners, if needed.** Use your own network or get match-making help from Enterprise Europe Network (EEN) <u>http://www.enterprise-europe.dk/</u>

Use all the help you can get! <u>www.eusupport.dk</u>

# Thanks for your attention!



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