TECHNISCHE UNIVERSITÄT DRESDEN

Dezernat 5, Forschungsförderung und Transfer, SG 5.2. European Project Center

Horizon 2020 – The EU Framework Programme for Research and Innovation

Nanoseminar, 12.09.2013

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DRESDEN concept
Exzellenz aus Wissenschaft und Kultur

Structure

1. General Information
2. Current status of Horizon 2020
3. Structure of the new Framework Programme
4. Nanotechnology Roadmap
5. Rules for Participation
6. Technology Readiness Level
7. Open Access

1. General Information (I)

-All information represent the current status of Horzion 2020 → changes are likely

- Horizon 2020 will unite the former separate programmes:
  - 7th Framework Programme
  - Programme for the Competitiveness of enterprises and SMEs (CIP)
  - European Institute of Innovation and Technology (EIT)

1. General Information (II)

Duration: 2014 to 2020

Budget: 70 billion EUR → world's largest research programme

Focus:

- *innovation* – developing **K**ey **E**nabling **T**echnologies (KETs)
- *market-driven approach* - bridge the gap between **research** and **market** + **commercialization** of innovative ideas

Official Homepage:
http://ec.europa.eu/research/horizon2020/index_en.cfm

2. Current status of Horizon 2020 (I)

- legislative procedure is not finalized yet

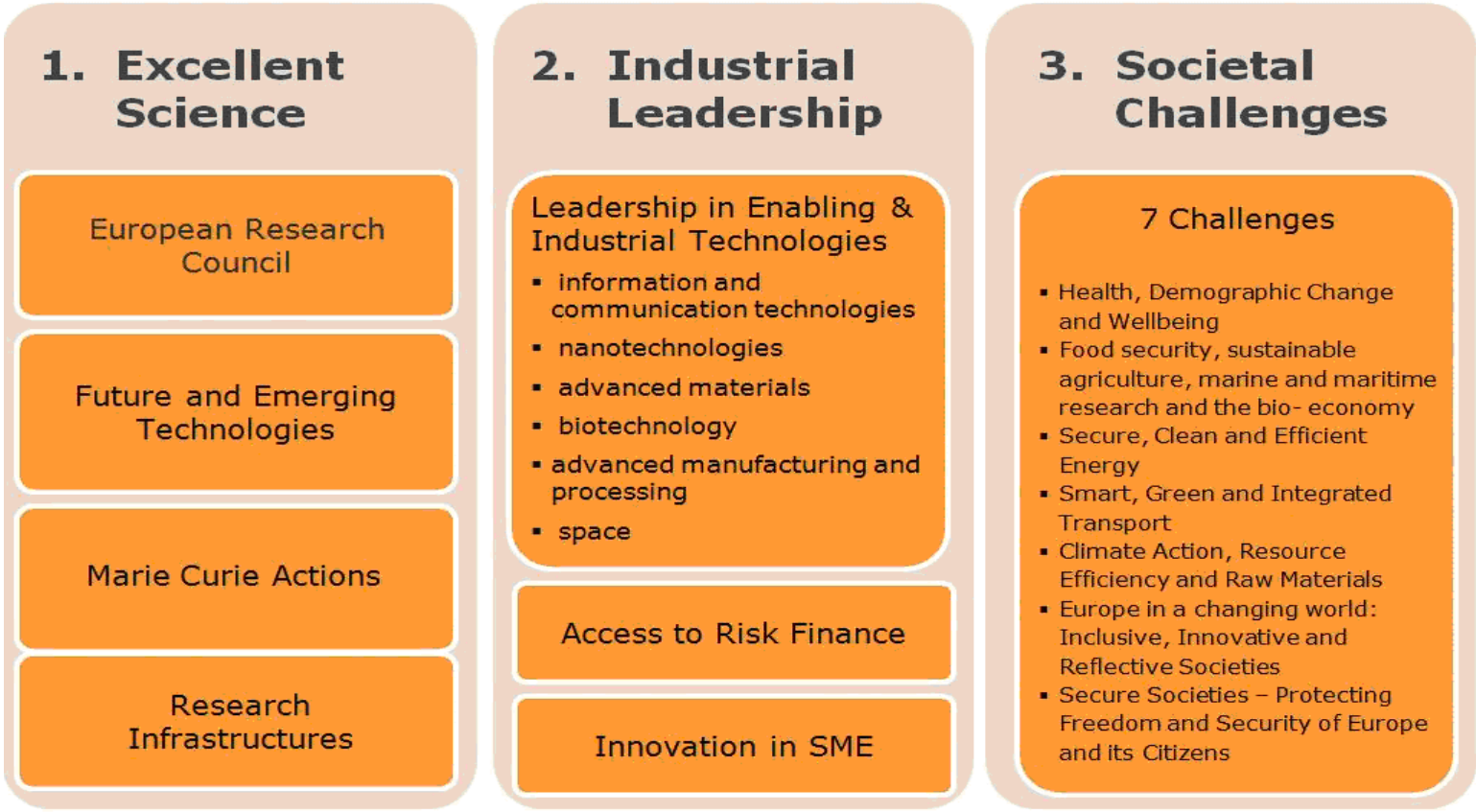
Timeline:

- *November 2011*: Parliament and Council started negotiations on the basis of the Commission proposals
- *June 2013:* **informal** trilogue agreement between European Parliament, Council and Commission on Horzion 2020:
  - *structure*
  - *content and*
  - *budget distribution*

2. Current status of Horizon 2020 (II)

- *End of 2013:* Adoption of legislative acts by Parliament and Council for Horizon 2020
- *End of 2013/beginning of 2014:* launch of first calls for proposals
- *1st January 2014:* Horizon 2020 starts

3. Structure of the new Framework Programme (I)



Source: http://www.kowi.de/PortalData/2/Resources//einzelelemente/graphs/proposal-horizon2020.gif (modified)

3. Structure of the new Framework Programme – ERC (II)

- no changes of FP7 rules expected (the following table is based on FP7)

	Starting Grants (since 2007)	**Consolidator Grants (since 2012)**	**Advanced Grants (since 2008)**	***MIGHT NOT BE CONTINUED!!!*** *Synergy Grants (since 2011)*	**Proof of Concept (since 2010)**
Target group	1 scientist 2-7 years after Phd	1 scientist 7-12 years after PhD	1 established scientist	*2-4 (established scientists)*	Exclusively for ERC-Grantees
Project duration	max. 5 years	max. 5 years	max. 5 years	*max. 6 years*	max. 1 year
Project budget	1,5 Mio. € (2 Mio. €)	2 Mio. € (2,75 Mio. €)	2,5 Mio. € (3,5 Mio. €)	*max. 15 Mio. €*	max. 150.000 €

3. Structure of the new Framework Programme – Marie Curie Actions (III)

	Action 1	Action 2	Action 3	Action 4
Target group	Early-stage Researchers	Experienced researchers	-	-
Content	Training of researchers proposed by international networks of organisations from public and private sectors	Individual fellowships for most promising experienced researchers to develop their skills through international or inter-sector mobility	Exchange of Staff: International and inter-sector cooperation	Co-funding of regional, national and international researcher mobility programmes

3. Structure of the new Framework Programme – Future and Emerging Technology (IV)

	FET Open (Xtrack)	FET Proactive	FET Flagships
Content	Individual research projects	Development strategic partnerships on international cooperation	Development of common research agendas
	Bottom-up approach	Top down approach	Two 10-year research projects in Graphene and the Human Brain
	Front Edge Ideas and projects	Non-conventional approaches and foundational research in selected themes	Carry out large scale research in these advanced areas of science

3. Structure of the new Framework Programme – additional measures (V)

- **SME instrument**:
  - bottom up
  - 20% of total budget for SMEs

- **Fast Track to Innovation**
  - speed up time from idea to market (six months to award grant)
  - bottom up
  - implementened in pillar 2 + 3
  - 3 – 5 partners and 3 Mio EUR budget per project

4. Nanotechnology Roadmap (I)

Status quo:

- gap between research efforts and industrial and user needs

Vision:

- aims to play a market leader position, increasing its competitiveness in all different sectors where nanotechnology may have a strong added value

- growth and commercialization of nanotechnology must be guided and fostered by taking care of social and sustainability aspects

Source: http://www.euronanoforum2013.eu/wp-content/uploads/2013/07/P-Matteazzi-Nanofutures-Workshop.pdf

4. Nanotechnology Roadmap (II)

Vision:

- European Nanotechnology is expected to give an outstanding contribution to major grand challenges of our time
  - ➢ New energy economy
  - ➢ Ageing population
  - ➢ Sustainable food and environment
  - ➢ Intelligent, safe & connected world

Approach:

- market driven approach

Source: http://www.euronanoforum2013.eu/wp-content/uploads/2013/07/P-Matteazzi-Nanofutures-Workshop.pdf

5. Rules for Participation (I)

Funding rates:

- Research activities:
  - *100% direct costs* and
  - *25% indirect costs*
- Innovation activities:
  - *70% directs costs (foreseen 100% for non-profit organizations)*
  - *25% indirect costs*

VAT:

- foreseen to be eligible

5. Rules for participation (II)

Time to Grant:

- Reduced to 8 months (5 months evaluation and 3 months negotiation)

Single IT platform

Simplified grant agreement

Proposals:

- 2 stage applications are in discussion

5. Rules for participation (III)

Applicants:

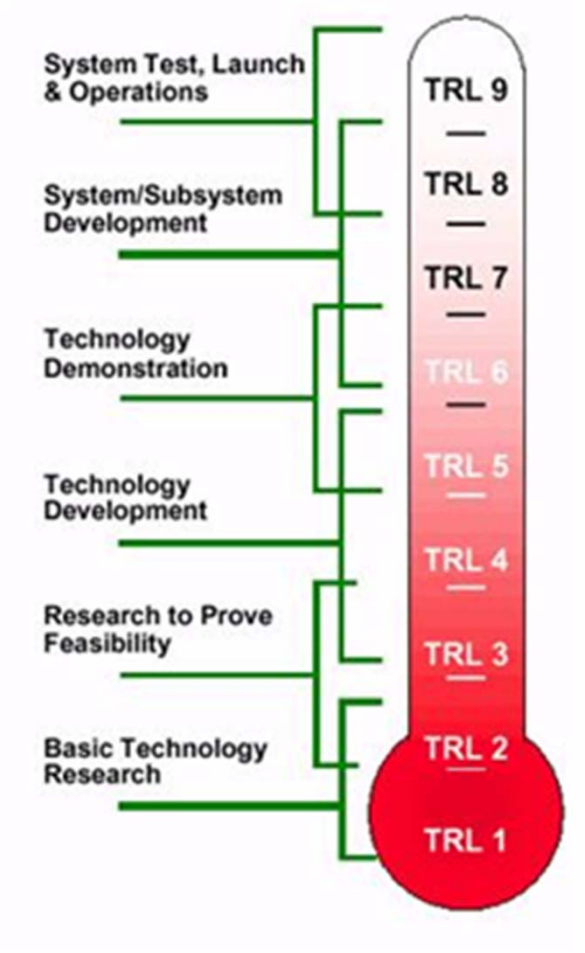
- no significant changes to FP7 expected:
  - min. of 3 partners – independent from each other
  - from 3 different EU Member States or Associated States
- additional requirements can be defined in the workprogrammes
- participation of third countries and international organisations is possible

5. Rules for participation (IV)

Evaluation Criteria:

- Excellence (only evaluation criteria for ERC proposals)
- Impact
- Quality and Efficiency of implementation

6. Technology Readiness Level (TRL)

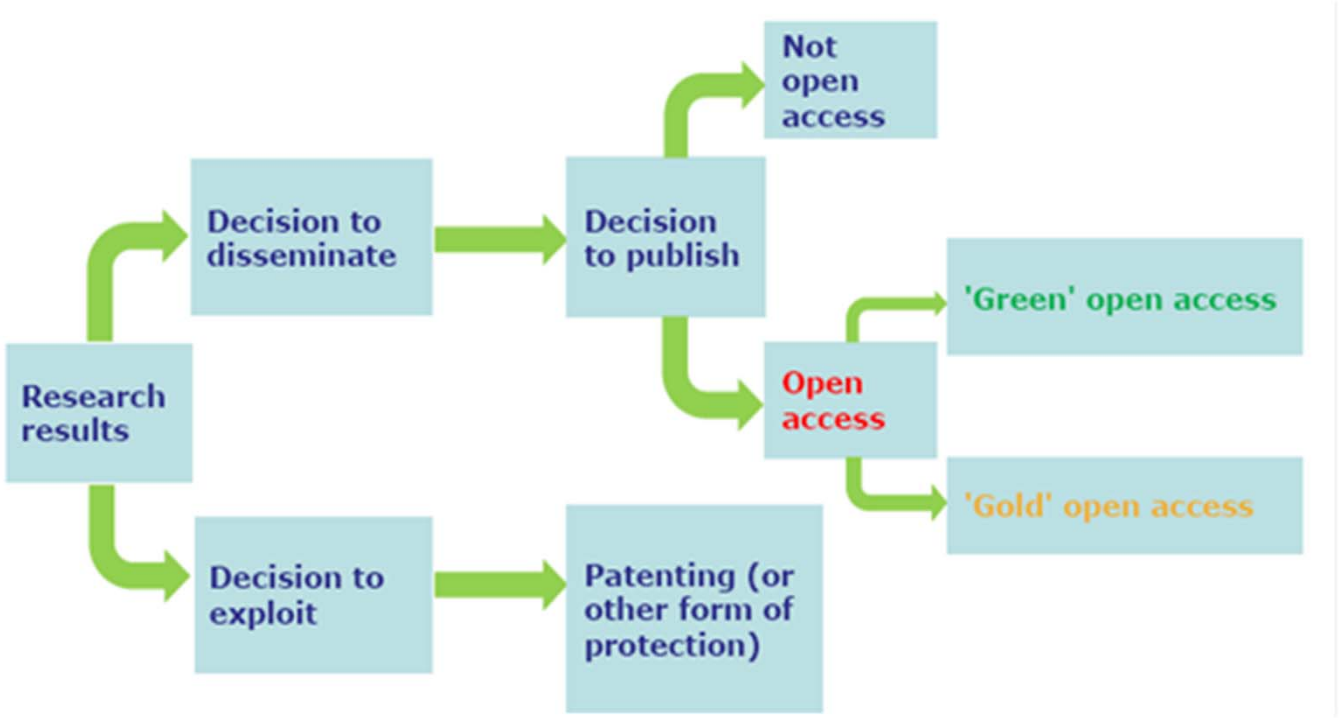


- the workprogrammes include information what TRL should be achieved at the end of the project

- partly information on what TRL the project should start

7. Open Access

- Open access will be mandatory for publications resulting from EU-funded research



Source: Quelle: http://www.kowi.de/Portaldata/2/Resources/vortraege/2013-wien-oa/2013-06-04-Spichtinger-DGRTD.pdf
(Presentation by Daniel Spichtinger – Open Access Policy Officer)

Save the Date

Information Event:
Horizon2020 with the focus on ICT

- Organized by European Project Center

DATE: 13.11.2013
TIME: before noon
LOCATION: Technische Universitaet Dresden

- More details will soon be published on EPC Website:
www.epc-dresden.de

TECHNISCHE UNIVERSITÄT DRESDEN

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Thank you for your attention!

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DRESDEN concept
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