



EuroNanoForum
2015

Trends in EU public funding for R&D

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AMIRES



Latvian Presidency
of the Council of the
European Union

EU2015.LV



HORIZON 2020
EUROPEAN UNION FUNDING
FOR RESEARCH & INNOVATION

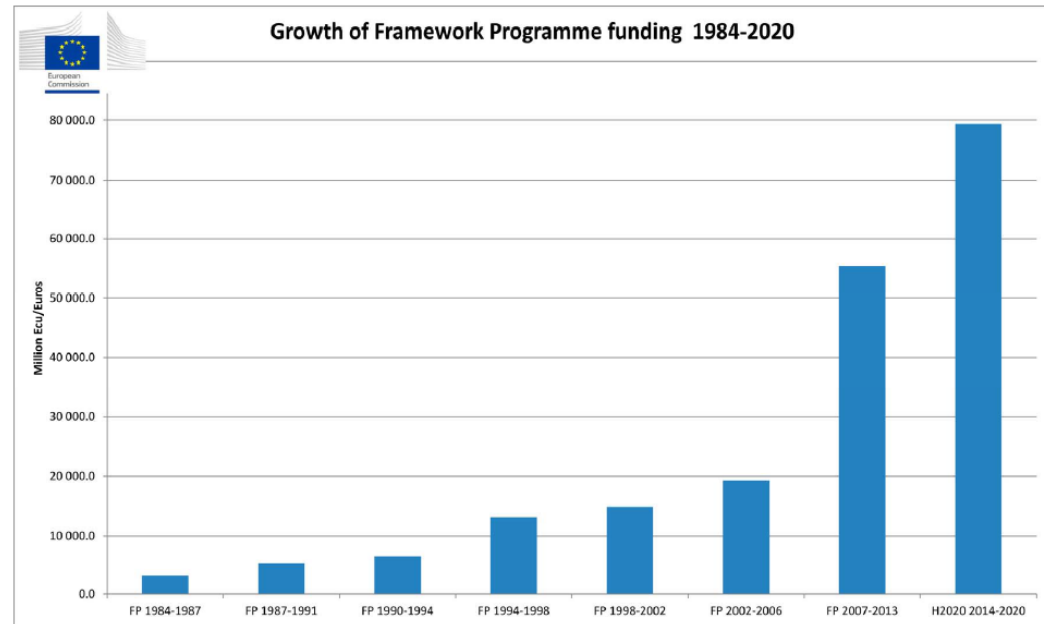
TRENDS IN EU PUBLIC FUNDING FOR R&D

- EU public funding landscape of R&D&I
- Focus on innovation
- Specialisation of topics and funding opportunities
- Outsourcing of programme management (EC activities)
- Open Access to Publications and Data
- Combined funding and synergies
- Clustering
- Outsourcing of project management
- Conclusions



EU PUBLIC FUNDING LANDSCAPE FOR R&D&I

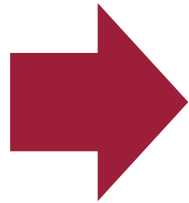
- FP = Framework Programmes supporting research and development (and innovation)
- Community / Union funding vs. Structural Funds funding
- FP1 (1984 – 1987), overall budget < 5bn €
- H2020 (2014 – 2020), overall budget ~ 80bn €



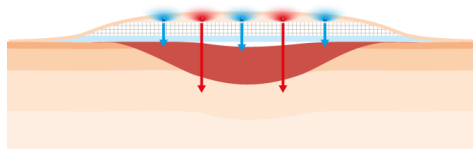
(c) European Union 2013

FOCUS ON INNOVATION

- Quantified impact (ROI, jobs) of EU funding
- Very few strategic innovators (more curiosity driven R&D)



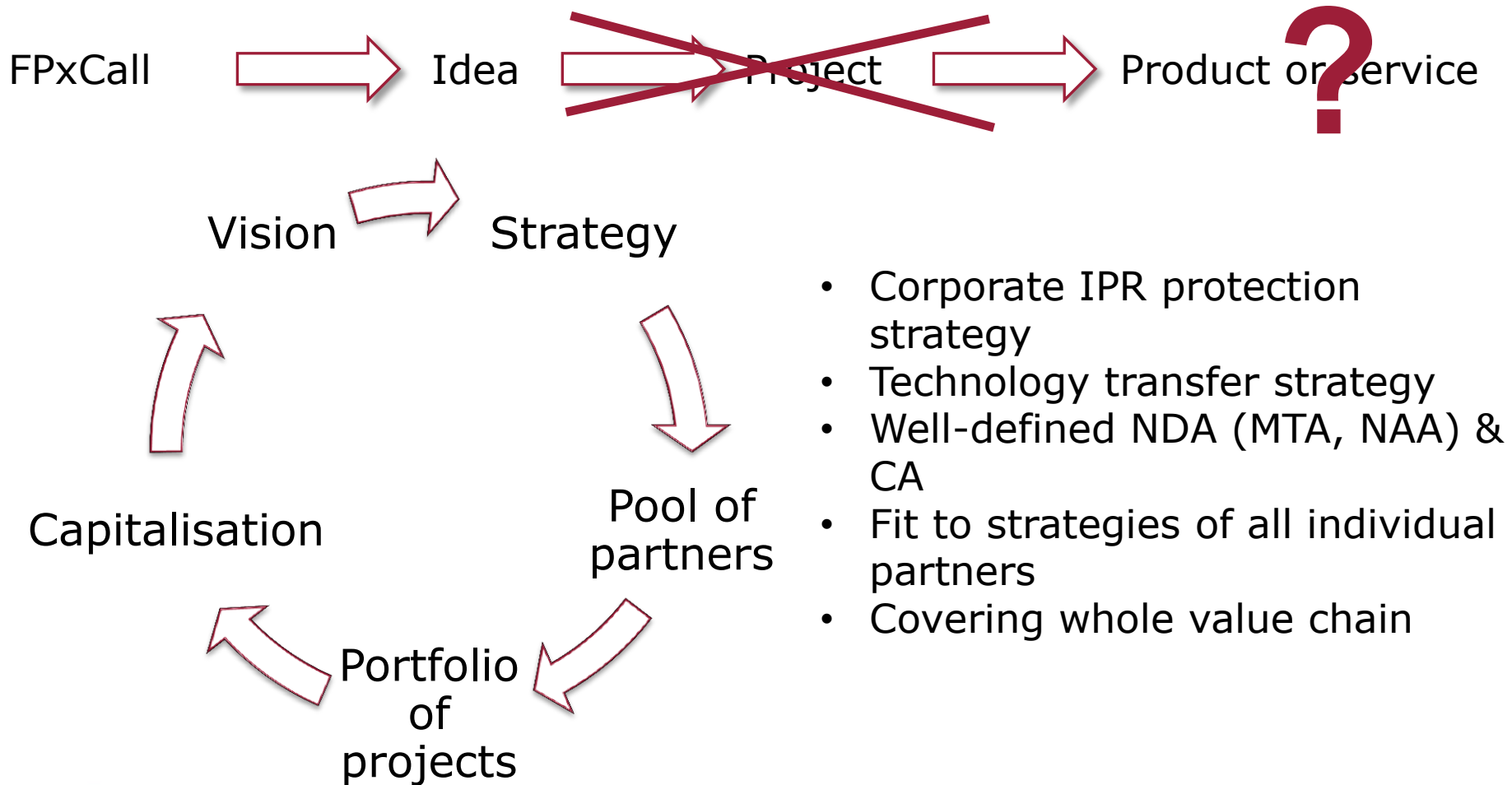
- PUDK (FP7), ESS (NMP - FP7), ESIC (NMP-FP7)
- DG Research and Innovation (FP7)
- TRL targets (H2020)
- Industry encouraged, value chains obligatory (H2020)
- Business planning already on the proposal level (H2020)
- Proper innovation management as an important aspect of evaluations (H2020)



www.medilight-project.eu
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FOCUS ON INNOVATION:

Open to Innovation through European R&D



Cathodoluminiscence

SEM

Confocal Raman
Spectrometer

TOF-SIMS

Focused Ion
beam

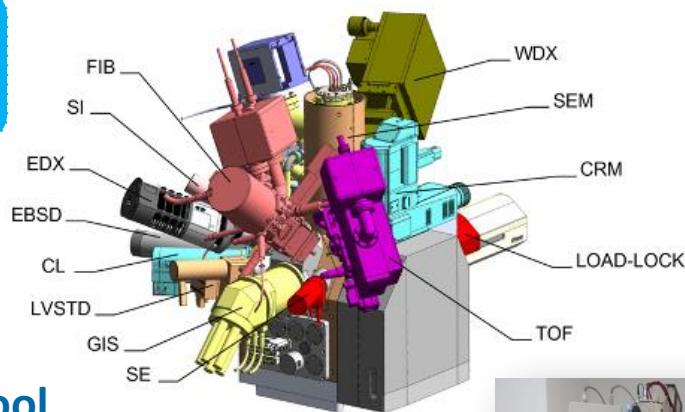
Scanning Probe
Microscopy

Tomography

2010 - 2011

2013

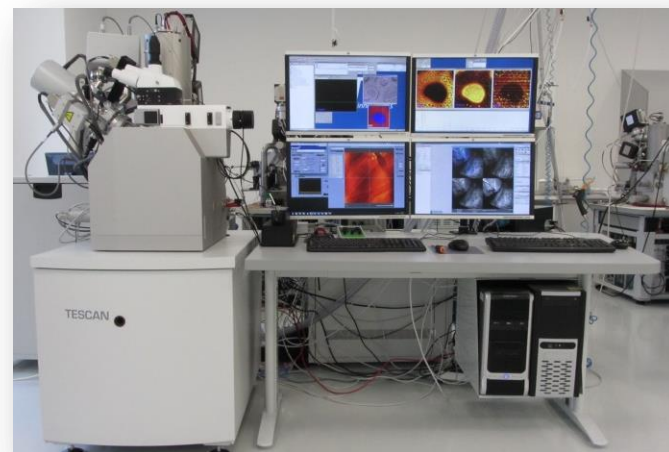
2014



UnivSEM: Novel multianalytical tool

- a vision capability
- a chemical analysis
- structural characterization
- a non-destructive optical analysis
- a tomography capability
- correlation between all methods

(www.univsem.eu)



8 partners, 3 countries (CZ, CH, DE), 4 products, 16 exploitable results, 200 publications



The project UnivSEM receives funding from the European Union Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 280566


SPECIALISATION OF TOPICS AND FUNDING TOOLS

FP7-ICT-2011-7
CONFIDENTIAL

Large-scale integrating collaborative project
SUNFLOWER – Sustainable Novel Flexible Organic Watts Efficient Reliable

SEVENTH FRAMEWORK PROGRAMME

SUNFLOWER



Sustainable Novel Flexible Organic Watts Efficiently Reliable

Type of funding scheme: Large-scale integrating collaborative project (IP)

Work programme topic: Objective 2.6 Teraflex, Organic and Large Area Electronics and Photonics

Duration of the project: 48 months

Coordinating person details:

Name	NGATO Giovanni
Organisation	CSEM - Centre Suisse d'Electronique et de Microtechnique SA
Address	Switzerland, CH-1500 Yverdon
Phone	+41 61 690 6039







List of participants:

Part no.	Participant organisation name	Short name	Country	Nature
1	Centre Suisse d'Electronique et de Microtechnique SA	CSEM	CH	RTD
2	BASE AG	BASE	CH	IND
3	DePur-Tecno Film U.K. Limited	DTP	GB	IND
4	AMCOR Plastics Innovation AG	AMC	CH	IND
5	Phosco AG	PHO	CH	IND
6	Phosco AG	PHO	CH	IND
7	Phosco AG	PHO	CH	IND
8	Phosco AG	PHO	CH	IND
9	Phosco AG	PHO	CH	IND
10	Phosco AG	PHO	CH	IND
11	Phosco AG	PHO	CH	IND
12	Phosco AG	PHO	CH	IND
13	Phosco AG	PHO	CH	IND
14	Phosco AG	PHO	CH	IND
15	Phosco AG	PHO	CH	IND
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18	Phosco AG	PHO	CH	IND

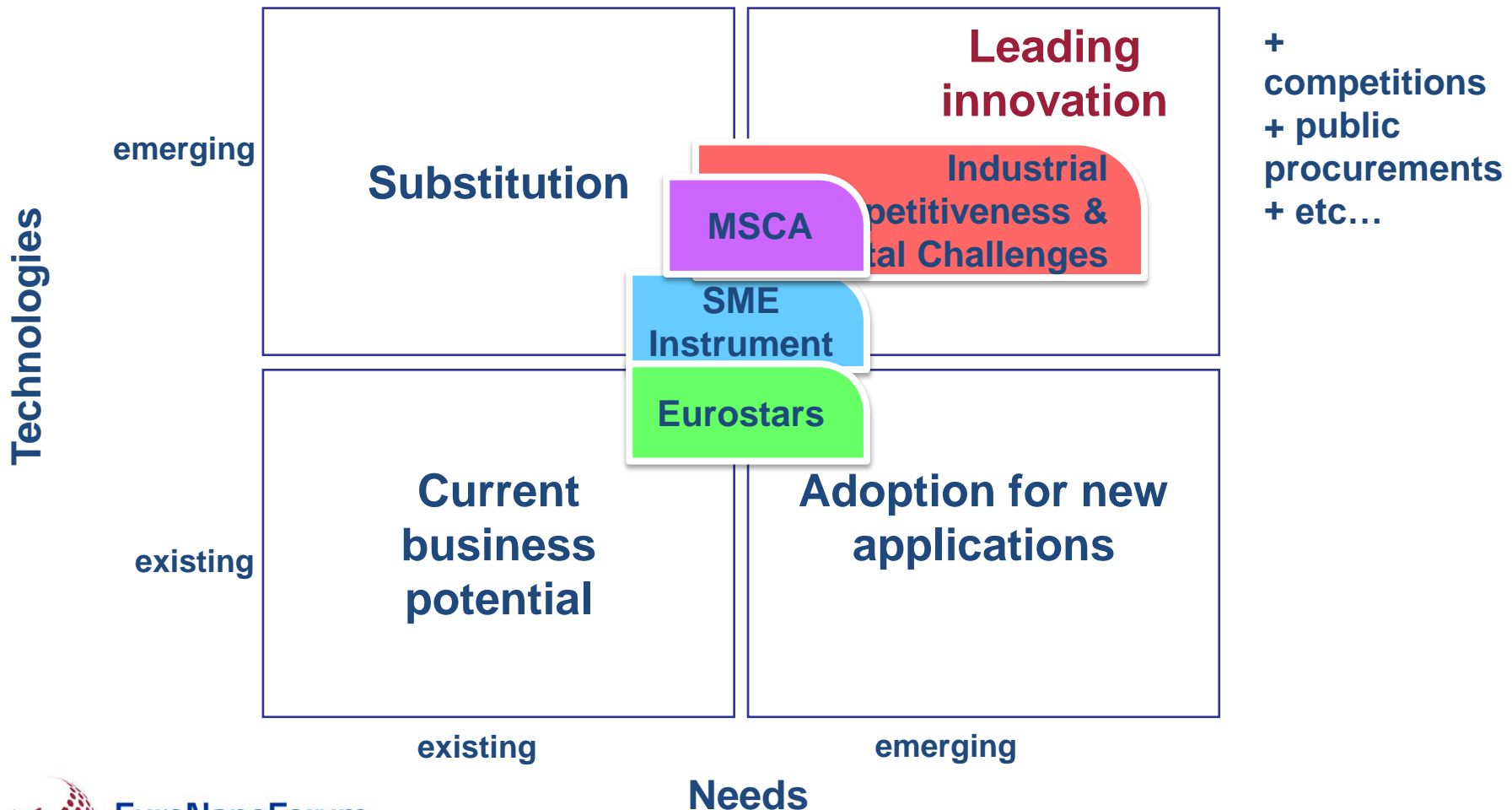
Proposed Part B Page 1 of 130

- Idea novelty
 - Clarity
- Level of details
- Work planning
- Selection of funding tool
 - Size of consortium
 - Competences
 - Budget justification
 - Value chain
 - Societal impact
 - Business impact
 - Ethics
 - Formatting
 - Length



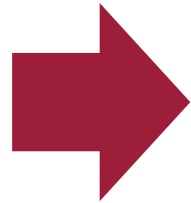
	Industrial Leadership + Societal Challenges	SME instrument	MSCA	Eurostars II
	Small to Large projects (TRL)	1.Phase – feasibility 2.Phase – R&D	ITN, EID, EJD, individual, RISE, etc.	Collaboration for developed markets
	All (incl. companies)	SME outsourcing research	All (incl. companies)	Research-perform. SME + others
	Top-down	Bottom up in broad domains	Bottom-up	Bottom-up
	3 from 3	SME alone	2-4 and many	2 from 2
	3-5 years	0.5-3 years	3-4 years	2-4 years
	280 k€	50-1500 k€	248 k€	206 k€

SPECIALISATION OF TOPICS AND FUNDING TOOLS: Business innovation matrix



OUTSOURCING OF PROGRAMME MANAGEMENT

- Rapid growth of available funding with limited in-house staff
- Attempts to distribute funds more effectively

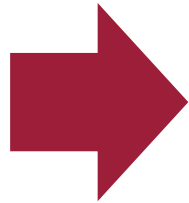


- External evaluators & reviewers (FP6, FP7 & H2020)
- PTA (NMP-FP7)
- JTIs, ERC, REA, Flagships, EIT, JPIs (FP7, H2020)
- More external agencies managing the programme (EASME, ERC Executive Agency, REA, INEA) (H2020)
- Centralized evaluations for most of the topics organized by REA (H2020)



OPEN ACCESS AND DATA MANAGEMENT

- Access to publicly funded scientific information incl. improvement of knowledge circulation and thus innovation
- Ensure research integrity and reproducibility, accuracy and completeness of data
- Prevent duplication of effort

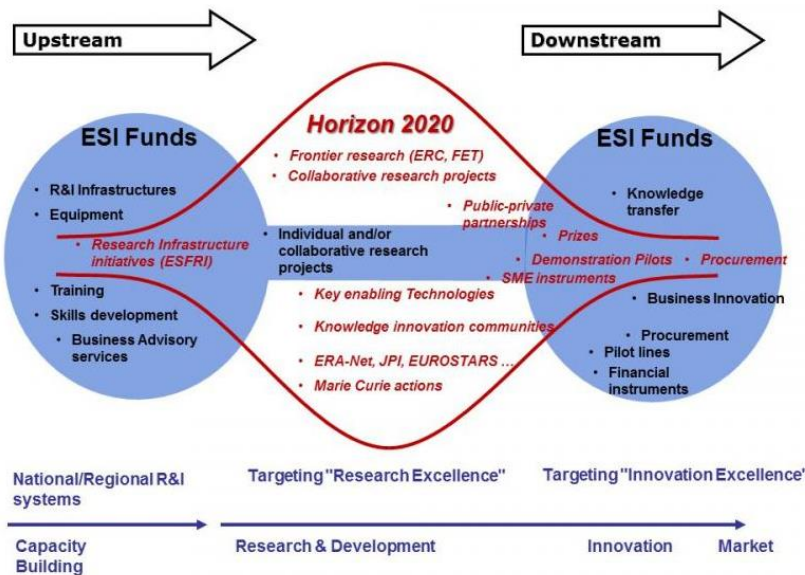
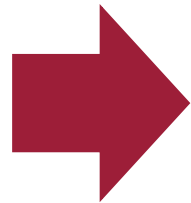


- Open Access Pilot for some thematic priorities (FP7)
- Open Access compulsory (H2020) – deposit – repository – open access (gold or green access)
- Open Research Data Pilot (H2020) – compulsory for some of the priorities, voluntary for the other projects
 - including associated metadata
 - Data Management Plan document preparation during first 6 months of the project



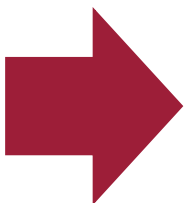
COMBINED FUNDING AND SYNERGIES

- Efficient and effective use of public investment research
- Regional dimension of innovation



- Smart specialisation strategies concept (S3 strategies) (FP7, H2020)
- Regions of Knowledge, Research Potential (FP7), Teaming, Twinning (H2020)
- Active seek of synergies with relevant national / regional R&I programmes (H2020)
- Cumulative funding with European Structural and Investment Funds (ESIF) (H2020) - exploit complementarities while at the same time avoid overlaps and exclude double-financing

CLUSTERING

- Avoiding defragmentation of support and duplication of work
 - Building critical mass for evidence based research and innovation policy making
 - Direct impact on European, regional and national effort is expected
- 
- European Technology Platforms (FP6, FP7)
 - CSA projects supporting clustering and synergies of projects in similar topics / domains (FP7, H2020)
 - Open groups with no direct funding (EU project coordinators and project partners play proactive role) (H2020)



*NanoSafety
Cluster*

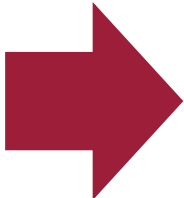


nano4water



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OUTSOURCING OF PROJECT MANAGEMENT

- Higher complexity and specificity of funding tools require specialized expertise (companies, large R&D centers don't have dedicated staff)
 - Lower reimbursement rate for MNG activities
- 
- Encouragement to have a dedicated WP (FP7)
 - External management readily accepted by evaluators for certain size of projects (FP7)
 - Many requests specifically for this activity (H2020)



TRENDS IN EU FUNDING

Conclusions

1. Focus on innovation
 2. Specialization of funding tools
 3. Outsourcing of programme management (EC activities)
 4. Open Access to Publications and Data
 5. Combined funding and synergies
 6. Clustering
 7. Outsourcing of project management
1. Business strategy and tactics planning, tune for motivation, well aligned consortium partners
 2. Selecting the right and most fitting funding tool based on the proper project positioning
 3. Dealing with multiple services over the whole lifetime of the projects, specialisation in proposal writing
 4. Planning in advance at the same time bearing IPR issues on your mind while not limiting the business impact
 5. Check and plan possible synergies with regional / national initiatives and programmes
 6. Look for pan-European networks, be ready to advise, assist and execute the national or international measures
 7. Product oriented project management as a key element of a successful project

QUESTIONS?



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THANK YOU FOR YOUR ATTENTION



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