

The Innovation Radar

Using Data Analytics to Identify Innovators and Innovations in EC-Funded R&D Support Programs

Dimitrios Mavridis

Digital Economy Unit
Joint Research Center of the European Commission

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Disclaimer: The views expressed in this presentation are those of the presenter do not necessarily reflect the official views or policies of the European Commission



Who We Are

3000 staff

almost 75% are scientists and researchers

JRC resources

Headquarters in Brussels and research facilities located in five Member States.

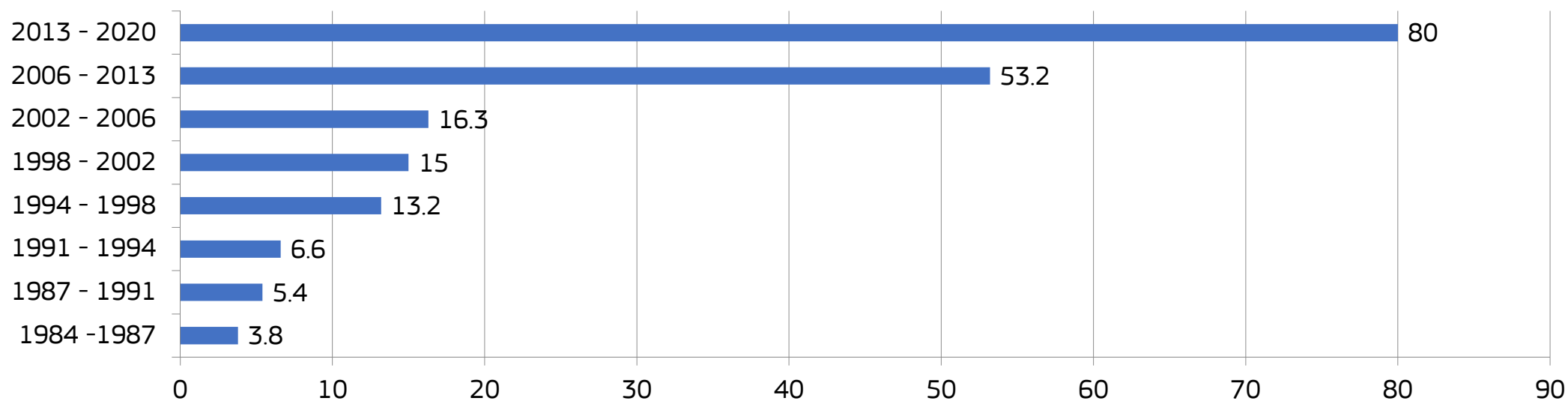
83%

of our core research staff are doctorate holders



The European Commission's R&D Support Program

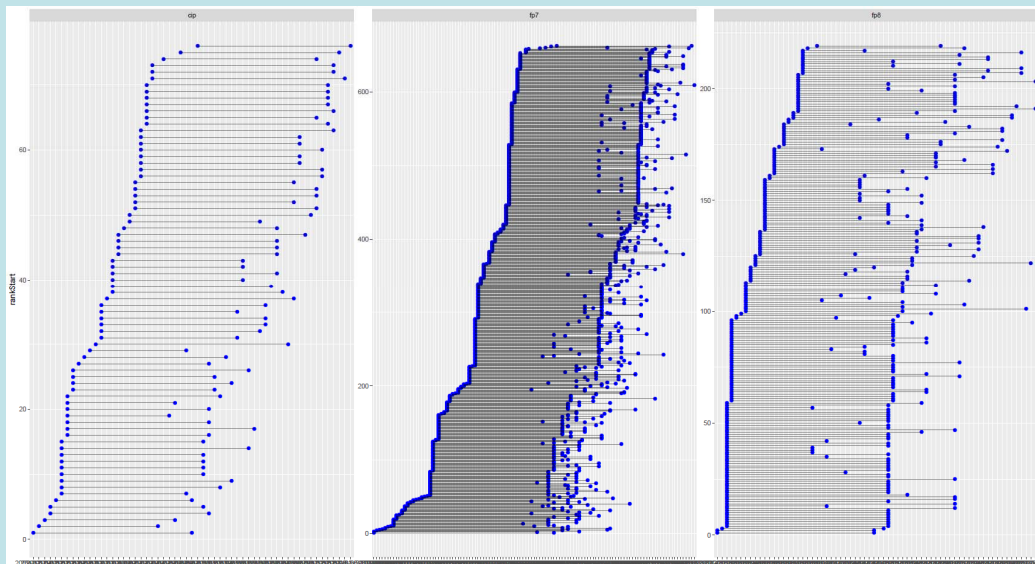
EU-Funded R&D Expenditure



	1984 - 1987	1987 - 1991	1991 - 1994	1994 - 1998	1998 - 2002	2002 - 2006	2006 - 2013	2013 - 2020
Series1	3.8	5.4	6.6	13.2	15	16.3	53.2	80

What We Do: The Innovation Radar

A structured, data-driven approach to identify innovations and innovators in EC-funded R&D projects jointly developed by the JRC and the DG for Communication Networks, Content, and Technology (DG CNECT)



- 0.1 Innovation Radar questionnaire**
- Innovation Radar Q1**
Note: the first 16 questions below are to be answered by the first 16 questions below are to be answered by one of their company's business units in project activities.
- Describe the innovation (in less than 300 characters)
 - Is the innovation developed within the
 - Under development
 - Already developed but not yet being exploited
 - being exploited
 - Characterise the type of innovation (one or more)
 - Significantly improved product
 - New product
 - Significantly improved service (except consulting services)
 - New service (except consulting services)
 - Significantly improved process
 - New process
 - Significantly improved marketing method
 - New marketing method
 - Significantly improved organisational method
 - New organisational method
 - Consulting services
 - Other
 - If other, please specify:
 - Characterise the macro type of innovator selected for Q2:
 - Product
 - Marketing method
 - Organisational method
 - Process
 - Service (non-consulting)
 - Consulting service
 - Do not know yet
 - Will the innovation be introduced to the market (one or more)
 - Introduced new to the market (core processes implemented, etc.)
 - Deployed within a partner (internal processes implemented, etc.)
 - No exploitation planned
 - If no exploitation planned, please explain
 - Is there a clear owner of the innovation in the consortium or multiple owners?
 - A clear owner
 - Multiple owners

9) Please indicate the 1 partner (excluding large enterprises) that the panel considers to be the most impressive in terms of innovation potential.

10) Please enter some tag words (comma separated) to represent what "innovation elements" are strong in the project.

11) Please enter some tag words (comma separated) to represent what "innovation elements" can be improved (or are absent) in the project.

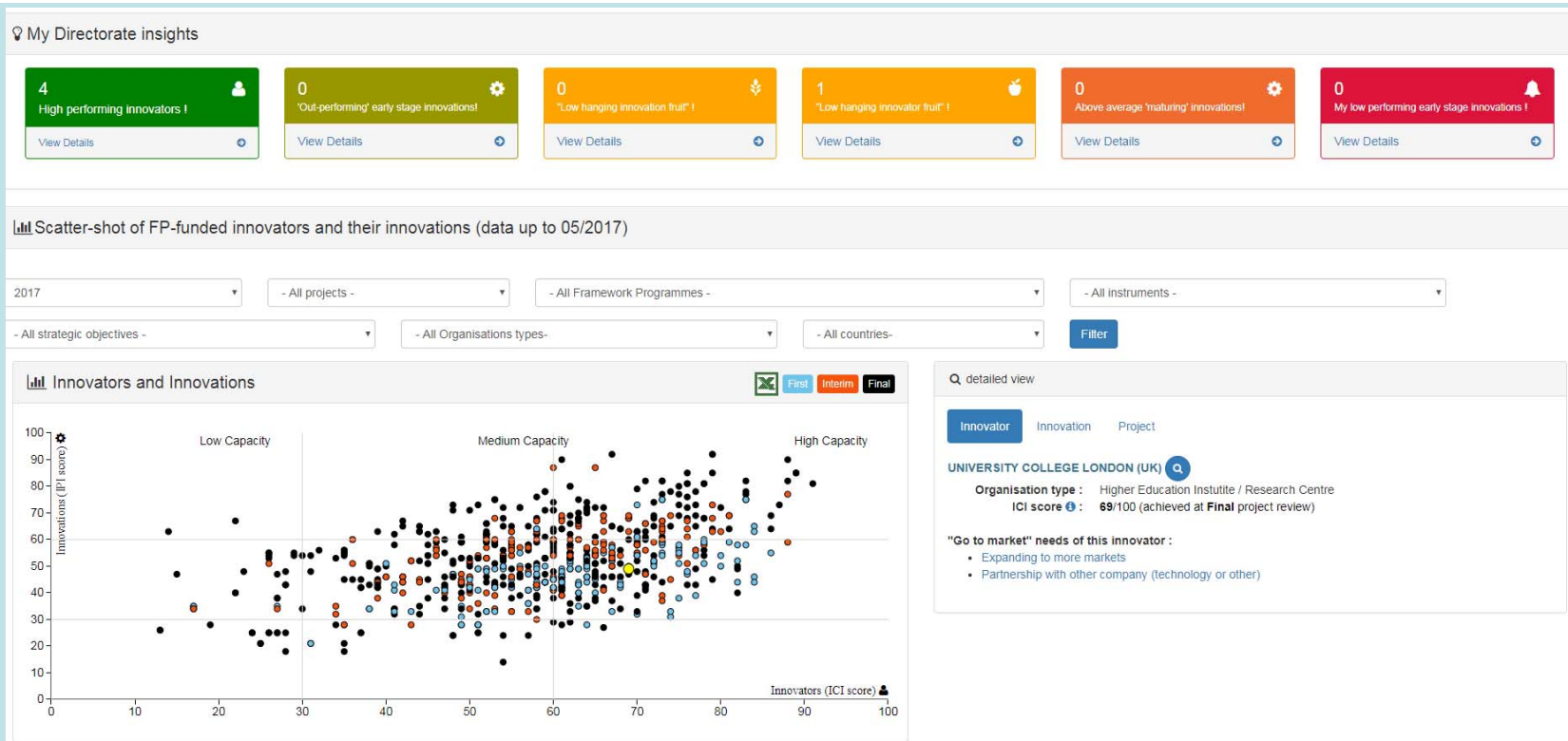
0.2 Matching survey questions with assessment criteria

0.2.1 Innovation potential assessment framework
Table 9 presents the result of matching assessment criteria defined in Section 3.1.1 with relevant questions of the Innovation Radar Questionnaire.

Table 9: Innovation potential assessment framework: Market potential

Criteria & questions		Question code	Scoring
			Max 10
Market potential	Type of innovation (if Q2b or Q2c selected): New product, process or service	Q3	1
	Significantly improved product, process or service		0.75
	New marketing or organisational method		0.5
Type of innovation (if Q2a selected): Product or service	Significantly improved marketing or organisational method, other Consulting services		0.25
	Product or service	Q5	0.4
	Process, marketing or organizational method		0
Innovation exploitation	Commercial exploitation	Q6	1
	Internal exploitation		0.25
External barriers	No external IP/ issues that could compromise the ability of a project partner to exploit the innovation	Q6a	0.5
	No standards issues that could compromise the ability of a project partner to exploit the innovation	Q6b	0.5
	No regulation issues that could compromise the ability of a project partner to exploit the innovation	Q6c	0.5
	No financing issues that could compromise the ability of a project partner to exploit the innovation	Q6d	0.5
	No trade issues that could compromise the ability of a project partner to exploit the innovation	Q6e	0.5
	No other issues that could compromise the ability of a project partner to exploit the innovation	Q6f	0.5
Needs of key organisations	No investor readiness training need	Q13	0.5
	No investor introductions need	Q13a	0.5
	No business plan development need	Q13b	0.5
	No need for more markets need	Q13c	0.5
	No legal advice (IP/ or other) need	Q13d	0.5
	No marketing need	Q13e	0.5
	No partnership with other company (technology or other) need	Q13f	0.5
	No incubation need	Q13g	0.5
No stamp/accelerator need	Q13h	0.5	
Number of patents have been applied for by the project	Q5	0.5	
	Q7	0.5	

Innovation Radar Indicators and Scoreboarding



1.85

Innovations per FP-funded project

70%

Percentage of all innovations destined to be brought to the market **within 2 years**

25%

Innovations that are **already developed** but **not yet being exploited**

Project "Argus"

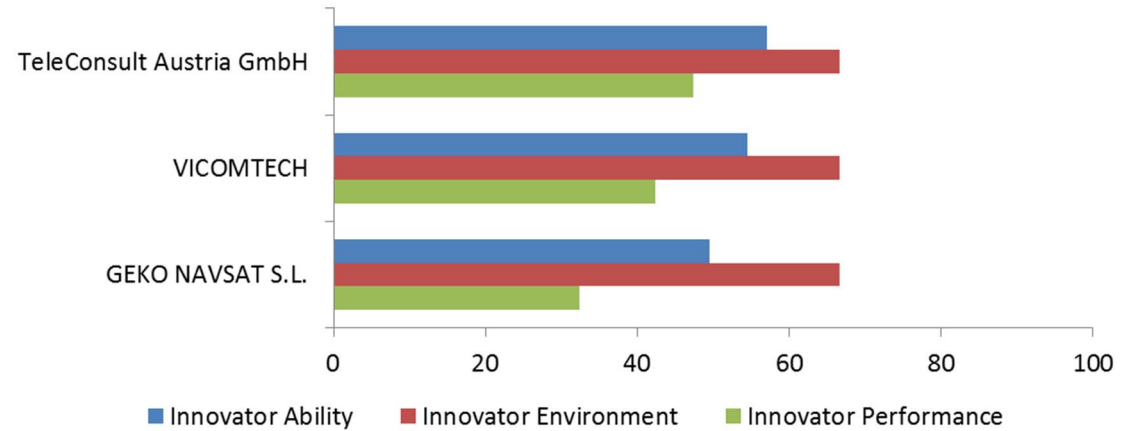
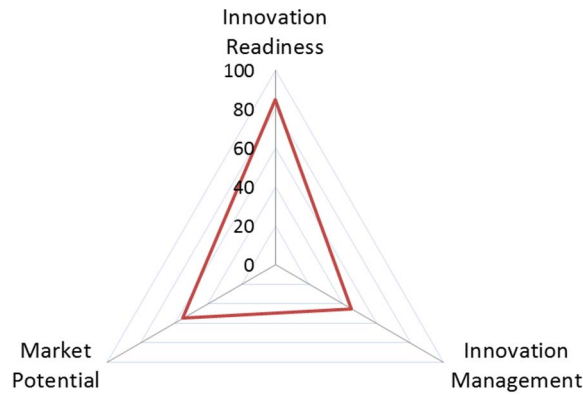
Innovation description

Development of a GNSS-based mobility service for people with impaired visually capabilities, to guide them along a pre-defined track, using 3D sounds, which meets the level of accuracy and reliability they need in urban/suburban environment to improve their day-to-day life autonomy.

Time to commercialization

Less than a year





External bottlenecks	Organization	Needs
Regulation Financing	GEKO NAVSAT	Investor introductions ; Biz plan development; Legal advice; Partnership with other company
	Tele Consult Austria	Investor introductions ; Biz plan development; Expanding to more markets; Partnership with other company
	VICOMTECH	Investor introductions ; Legal advice; Startup accelerator

Data-Driven Research Tools Assisting Policy Design

Assisting collaborative R&D projects to reach their targets:

- Bridging beneficiaries with external stakeholders
- Access to Finance
- Partnerships for Competitiveness



Any questions?

You can find me dimitrios.mavridis@ec.europa.eu