



INVENTYA™

Bespoke Market Intelligence for Science and Technology

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17th January 2013

Workshop on Advanced Computing for Accelerators
Funding Possibilities

Workshop on Advanced Computing for Accelerators

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OVERVIEW

20 minutes presentation
followed by 20 minutes
Q&A

Overview

- An International Science, Engineering and Technology Commercialisation Consultancy
- Founded in 2006
- 15 full time staff with different technical backgrounds
- 6 offices - 3 in UK, Italy, France and Belgium

Key strengths

- Technology Expertise
- Research Excellence
- Funding Know-how
- Global Outlook

Key clients

- Businesses: From Blue chip to SMEs
- Investors: Venture funders, private investors, corporate investors and finance providers
- Research Organisations: Universities, Research Councils, and research centres

2. OUR SERVICES



Research

- Market Research
- Market Due Diligence
- Export Market Research

Strategy Development

- Proof of Market / Proof of Concept / Feasibility Studies
- Commercialisation and Go to Market Strategies
- Strategic Management Advice, Mentoring & Strategic Implementation Plans
- Start-Up Advice and Mentoring
- Business Growth Strategy Formulation
- Marketing advice and mentoring

Implementation

- Business Development & Business Planning
- IP / Technology Commercialisation
- Funding identification
- Funding application, assistance and guidance
- Commercial lead generation

3. EXAMPLE CURRENT PROJECTS

Centre for Global Eco-Innovation

Now open for applications from interested businesses

Register interest now for business support

R&D or product development support required?

What is Eco-Innovation?

Latest News

Fast fifty businesses announced in €9.8m eco-innovation centre

50 long term research projects confirmed

Vice Chancellor to welcome innovative businesses to Lancaster

The Mobility Motivator

MOB MOTIVATOR

Objectives

Expected results and impact

Partners

UNIVERSITY/ORGANISATION	TYPE	INDUSTRY	CONTRIBUTE
Laboratoire informatique des systèmes, université de Versailles St Germain (France)	R&D	France	http://www.ifs.versailles.fr
Unité de Neurosciences Cognitives	R&D	France	http://www.univ-lille.fr
Autismes	R&D	France	http://www.autismes.fr
Bureau I&D	R&D	Luxembourg	http://www.autismes.lu
Inventya Ltd	Business	UK	http://www.inventya.com
INNOVATION	EU	France	http://www.innovation.fr
Université de Valenciennes et de Hainaut-Cambresis	EU	France	http://www.univ-valenciennes.fr
Horizon 2014 Cross Application	EU	Netherlands	http://www.horizon2014.eu
La Motiva	R&D	Belgium	http://www.la-motiva.com

Cooperator: Université de Versailles Saint Quentin en Yvelines, France

Starting Date: June 1, 2012

Total budget: € 4.06 - € 716,000

Public contribution: 0 (0) - € 0

ACTIVE

Advancing Knowledge of Telecare for Independence and Vitality in later life project launched

Latest news

Participate in ACTIVE

Stakeholders' opinions

The Centre for Global Eco-innovation
 a £9.8 million ERDF project with Lancaster and Liverpool Universities designed to support 285 SMEs

Mobility Motivator
 a €4.0 million EC project led by Université de Versailles et to develop an engaging environment for promoting mobility and cognitive skills amongst elderly

ACTIVE
 a £2.1 million TSB project with Tunstall and Leeds and Oxford Universities to develop a knowledge base for UK Assisted Living Technology manufacturers

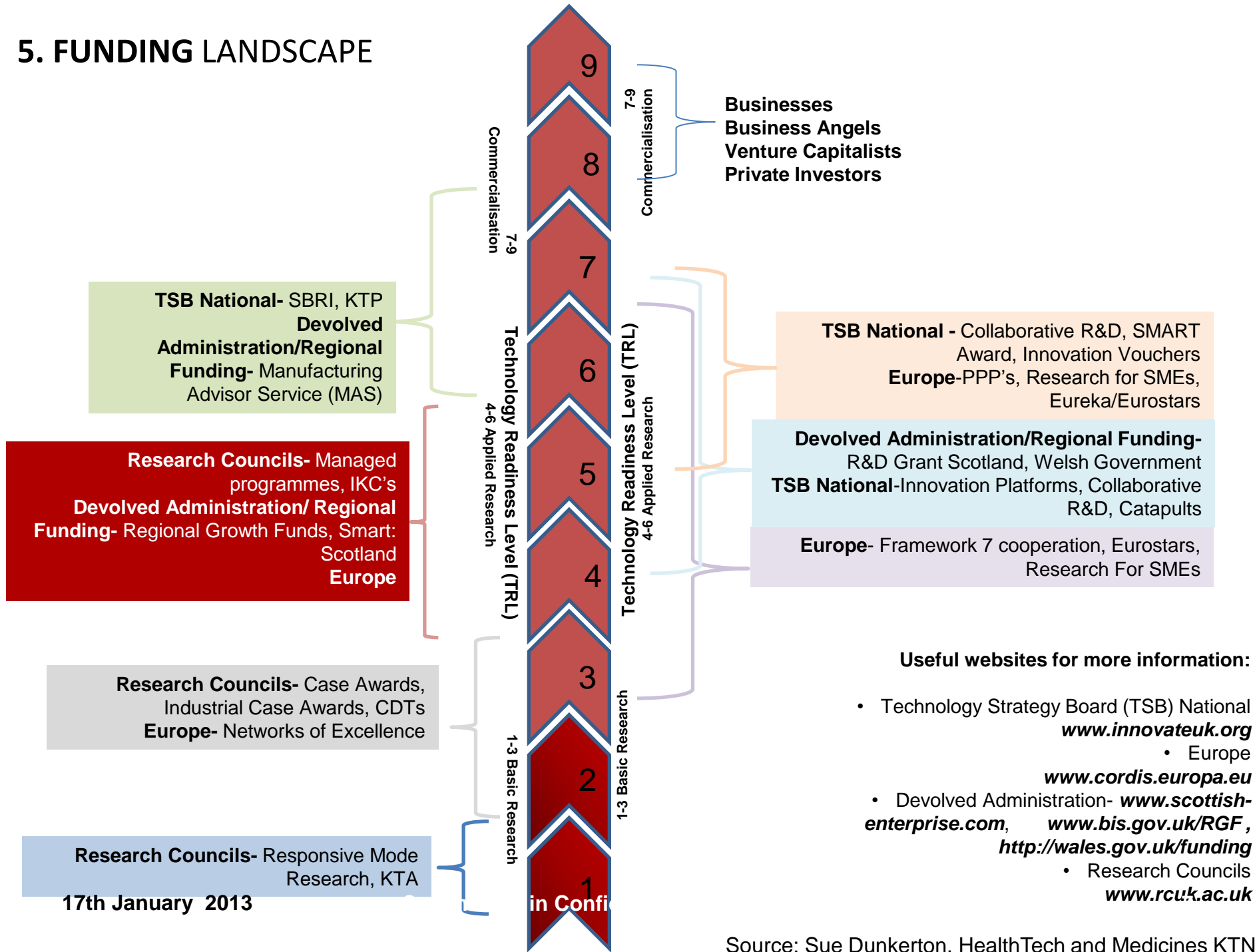
Why collaborate with SMEs

- SMEs are the motors of European economy (23 million SMEs in Europe)
- 85% of total employment growth attributed to SMEs
- SMES are a key focus for government and EU support
- SMEs need to innovate and access the results of R&D projects
- Universities need funding and routes to market for research
- Collaboration through EU or TSB or other funding schemes enable both parties to achieve their aims

Funding mechanisms

- EU FP7 and Horizon 2020 funding
- TSB collaborative
- Eurostars – SME focused, universities as subcontractors
- TSB Smart – SME focused, Universities subcontractors
- KTP
- Research councils
- Innovation vouchers
- Other schemes and project e.g. ERDF such as CGE facilitate collaboration

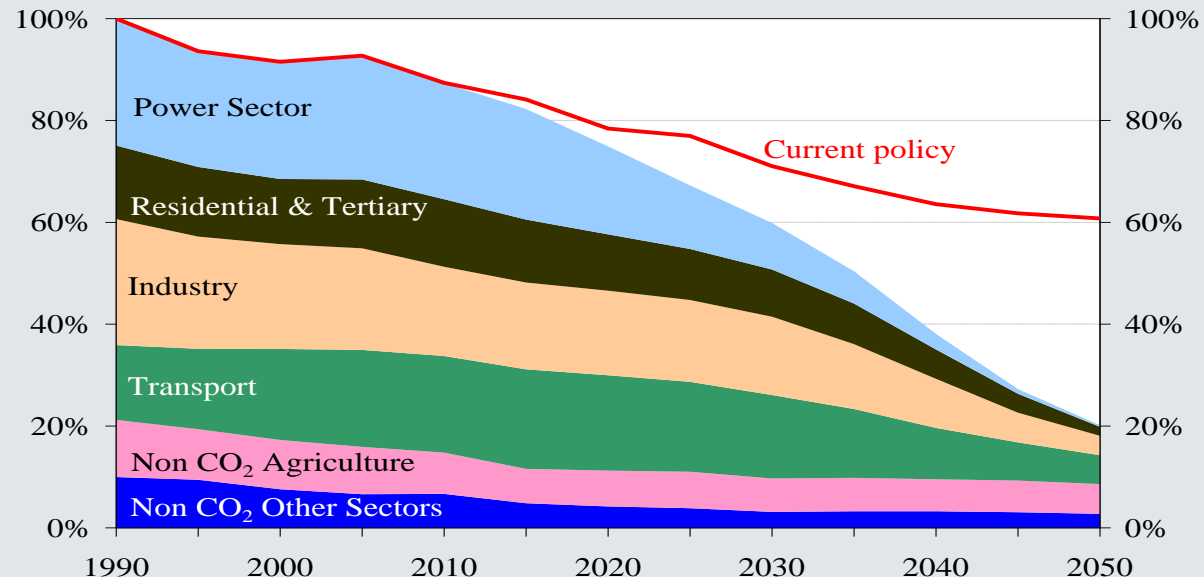
5. FUNDING LANDSCAPE

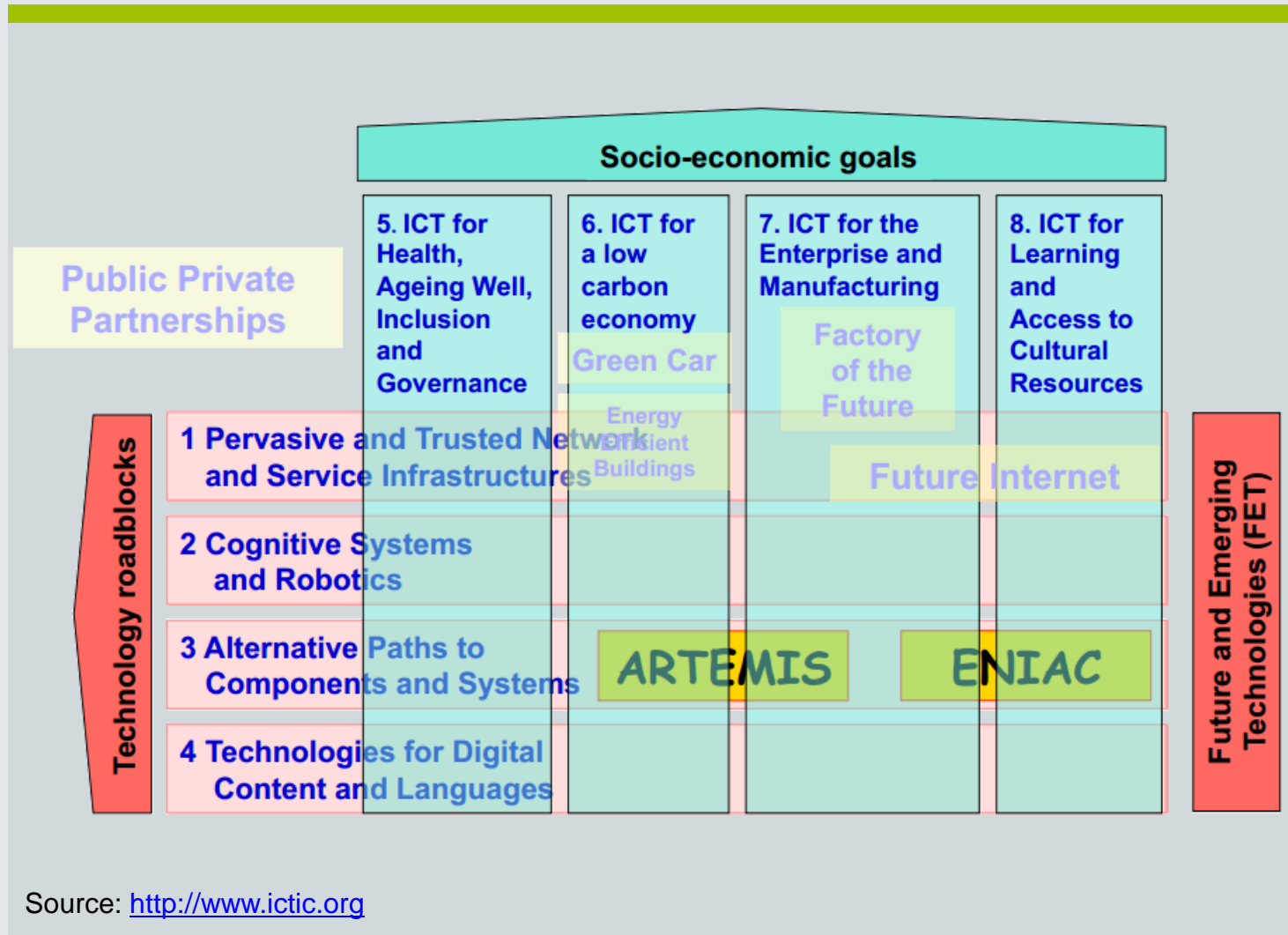


Strategy Development

- **2020 Smart, Sustainable and inclusive Growth**
 - Confirmation of three 20% targets
- **2050 A Roadmap for moving to a competitive low carbon economy**
 - http://ec.europa.eu/clima/policies/roadmap/index_en.htm
 - Reducing GHG emissions by 80-95% by 2050 compared to 1990; a fully decarbonised Power Sector
- **2030 Intermediate targets:**
 - e.g. the power sector reduces its carbon footprint between 54 and 68%

**80% reduction of
EU GHG emissions
(as of 1990 values)
by 2050**





ICT Call for Proposals 11

- Call identifier: FP7-ICT-2013-11
- Date of publication: 18 September 2012
- Deadline: 16 April 2013, at 17:00.00 Brussels local time
- Indicative budget: EUR 236.5 million

Challenge 1: Pervasive and Trusted Network and Service Infrastructures

- 1.1: Future Networks **Call 11**
- 1.2: Software Engineering, Services and Cloud Computing
- 1.3: Digital Enterprise
- 1.4: A reliable, smart and secure Internet of things for Smart Cities
- 1.5: trustworthy ICT
- 1.6: Connected and Social Media
- 1.7: Future Internet research Experimentation (FIRE)
- 1.8: Expansion of use Cases
- 1.9: Technology Foundation Extension and Usage

More information available from:

http://ec.europa.eu/research/participants/portal/page/call_FP7?callIdentifier=FP7-ICT-2013-11&specificProgram=COOPERATION#wlp_call_FP7

Challenge	Objectives	Funding schemes
Challenge 1: Pervasive and Trusted Network and Service Infrastructures	ICT-2013.1.1 Future Networks	IP/STREP, CSA
Challenge 3: Alternative Paths to Components and Systems	ICT-2013.3.1 Nanoelectronics	STREP, CSA (SA only)
	ICT-2013.3.2 Photonics	IP, STREP, CSA, ERANET Plus
Challenge 4: Technologies for Digital Content and Languages	ICT-2013.4.2 Scalable data analytics	IP/STREP, CSA
Challenge 6: ICT for a Low Carbon Economy	ICT-2013.6.1 Smart Energy Grids	STREP
	ICT-2013.6.3 ICT for water resources management	STREP
Challenge 8: ICT for learning and Access to Cultural resources	ICT-2013.8.2 Technology-enhanced learning	IP/STREP, CP-CSA, CSA
Future and Emerging Technologies	ICT-2013.9.9 FET Flagship Initiatives (b)	CSA

Target Outcomes

- A) Next generation heterogeneous wireless and mobile broadband systems, based on flexible spectrum usage and reduced EMF and interference. (IP, STREP)
 - B) High throughput low-latency infrastructures, based on dynamic all-optical networks and hybrid wireless and cable networks. (IP, STREP)
 - C) Internet architectures enabling innovation in network virtualization, specifically through programmability of network functions and protocols. (IP, STREP)
 - D) Tighter integration of satellite and terrestrial communications technologies, as a critical infrastructure, in particular for public safety/security applications. (IP, STREP)
 - E) Coordination and support actions for (re)structuring the research effort in the sector. (CSA)
-
- **Targets a, b, c, d**
 - IP/STREP: EUR 46.5 million, of which a minimum of 50% to IPs and 30% to STREPs
 - **Target e**
 - CSA: EUR 2 million

Expected Impact

- Developing key enabling technologies for the future generations of the European high-speed broadband and mobile network infrastructure (factor of 10 overall capacity increase, plus factor of 10 radio efficiency increase).
- Improved flexibility and economic, spectral and energy efficiency of access/transport infrastructures (factor of 4 reduction in watts/bit).
- Strengthened positioning of European industry in the fields of Future Internet technologies, mobile and wireless broadband systems, optical networks, and network management technologies.
- Contributions to standards and regulation as well as the related IPR.
- Adoption by network operators of integrated all-optical networks and of spectrum flexible broadband wireless systems (by 2020).

More information available from: <http://ec.europa.eu/research/participants/portal/download?docId=32767>

12. TECHNOLOGY STRATEGY BOARD - TECHNOLOGY – INSPIRED INNOVATION FUNDING CALL

Expected Impact

- The Technology Strategy Board is to invest up to £10m in fast-track and collaborative research and development projects that stimulate innovation across the key enabling technology areas of advanced materials, biosciences, electronics, sensors and photonics and information and communications technology
- Competition is now open and deadline for registering express of interest is 23rd January 2013



13. OTHER UK GOVERNMENT SCHEMES

UKTI

- Passport to Export
- Export Marketing Research Scheme
- Overseas Market Introduction Service
- Gateway to Global Growth
- UKTI Venture Capital Team

Other

- £300m Enterprise Capital Funds (ECF) programme
- UK Innovation Investment Fund
- UK Future Technologies Fund (UKFTF)
- £50m Business Angel co-investment Fund

Fiscal Measures

- R&D tax credit for SMEs - increased the level of super-deduction relief available to 225%
- Patent Box - 10% rate of corporation tax on profits from patents/IP
- 24% Corporate Tax Rate

- Biggest funding pot in EU for Research and Development
- Commission proposal for a 80 billion euro research and innovation funding programme (2014-20)
- Part of proposals for next EU budget, complementing Structural Funds, education, etc.
- A core part of Europe 2020, Innovation Union & European Research Area:
 - Responding to the economic crisis to invest in future jobs and growth
 - Addressing peoples' concerns about their livelihoods, safety and environment.
 - Strengthening Europe's global position in research, innovation and technology

Overview

- **A single programme** bringing together three separate programmes/initiatives*
- **Coupling research to innovation** - from research to retail, all forms of innovation
- **Focus on societal challenges** facing EU society, e.g. health, clean energy and transport
- **Simplified access**, for all companies, universities, open to institutes in all EU countries, associated countries and beyond.

Simplification

- **Single set of** simpler and more coherent participation **rules**.
- New **balance between trust and control**.
- Moving from multiple **funding rates** for different beneficiaries and activities to just two.
- Replacing the four methods to calculate overhead or "indirect costs" with a **single flat rate**.
- Major simplification under the **forthcoming financial regulation**
- **Successful applicants to get working on projects more quickly**

1 Excellent science

- World class science is the foundation of tomorrow's technologies, jobs and wellbeing
- Europe needs to develop, attract and retain research talent
- Researchers need access to the best infrastructures

2 Industrial leadership

- Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) underpin innovation across existing and emerging sectors
- Europe needs to attract more private investment in research and innovation
- Europe needs more innovative SMEs to create growth and jobs

3 Societal challenges

- Concerns of citizens and society/EU policy objectives (climate, environment, energy, transport etc) cannot be achieved without innovation
- Breakthrough solutions come from multi-disciplinary collaborations, including social sciences & humanities
- Promising solutions need to be tested, demonstrated and scaled up

- From 30/11:** Parliament and Council negotiations on the basis of the Commission proposals
- Ongoing:** Parliament and Council negotiations on EU budget 2014-20 (including overall budget for Horizon 2020)
- Mid 2012:** Final calls under 7th Framework Programme for Research to bridge gap towards Horizon 2020
- Mid 2013:** Adoption of legislative acts by Parliament and Council on Horizon 2020
- 1/1/2014:** **Horizon 2020 starts; launch of first calls**

18. Centre for Global Eco-Innovation



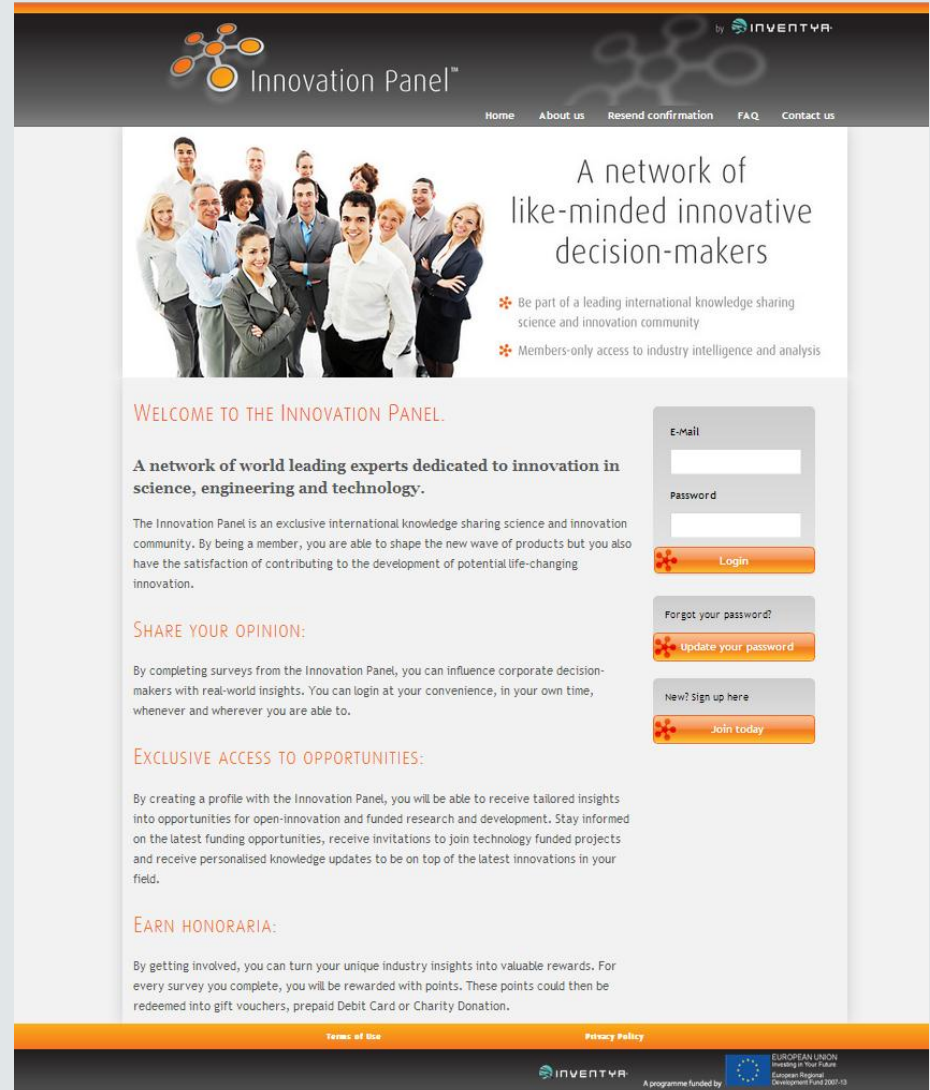
- For SMEs in the North West
- Eco-innovative products, processes or services
- Any technology that has beneficial environmental impact
 - Apps, databases and IT systems
 - Crop enhancement
 - Environmentally friendly chemicals and processes
 - Low carbon vehicles and buildings
 - Use of recycled materials
 - Renewable energy
 - Resource usage reduction
- Deliverables: GVA and employment increases, environmental benefits
- Free & subsidised R&D
- Free commercialisation support: taking to (new) markets
- **Now recruiting SMEs to benefit**

The screenshot shows the website for the Centre for Global Eco-Innovation, a joint venture between Lancaster University, the University of Liverpool, and Inventya. The page features a navigation bar with links for Home, About, News and Events, Business, Doctoral Projects, Contact, and The Centre. A main banner image shows a woman, Dr. Ruth Nicock, with the text: "We recognise that sustainable management of our global resources requires multidisciplinary, solution-focused academic expertise and through networks of partnerships that are able to facilitate the exchange of knowledge locally, nationally and globally. The Centre for Global Eco-Innovation has enormous potential to create positive environmental, social and economic benefits and impact." Below this, there are several sections: "Now open for applications from interested businesses" (listing business support, networking, and R&D support), "Register interest now for business support" (listing looking for ways to make money, seeking new markets, and looking for commercialisation), "R&D or product development support required?" (listing need assistance with R&D, cost a problem to solve, and need assistance to determine how to access a market), "What is Eco-Innovation?" (defining it as development of new and improvement of existing products, processes and services), "Latest News" (announcing first fifty businesses, long term research projects confirmed, and Vice Chancellor welcoming innovative businesses to Lancaster).



19. INNOVATION PANEL

- Proprietary Innovation Panel to support the market assessment of innovation
- Inventya has over 25,000 contacts
- By registering a profile, help identify the right expert for collaboration
- Invited to participate in collaborative R&D projects
- Register on:
www.innovationpanel.com



The screenshot shows the homepage of the Innovation Panel website. At the top, there is a navigation bar with links for Home, About us, Resend confirmation, FAQ, and Contact us. The main header features the 'Innovation Panel' logo and the tagline 'A network of like-minded innovative decision-makers'. Below this, there is a group photo of diverse professionals. The page is divided into several sections: 'WELCOME TO THE INNOVATION PANEL' with a login form (E-Mail, Password, Login button), 'SHARE YOUR OPINION' with a link to 'Update your password', 'EXCLUSIVE ACCESS TO OPPORTUNITIES' with a link to 'Join today', and 'EARN HONORARIA' with a link to 'Join today'. The footer contains 'Terms of Use', 'Privacy Policy', and logos for 'INVENTYA' and the 'EUROPEAN UNION'.



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