

FP7UK

EU Funded Collaborative Research

Peter Walters

FP7UK National Contact Point Team

To help UK Organisations understand the Commission's offer
and to take benefit from it



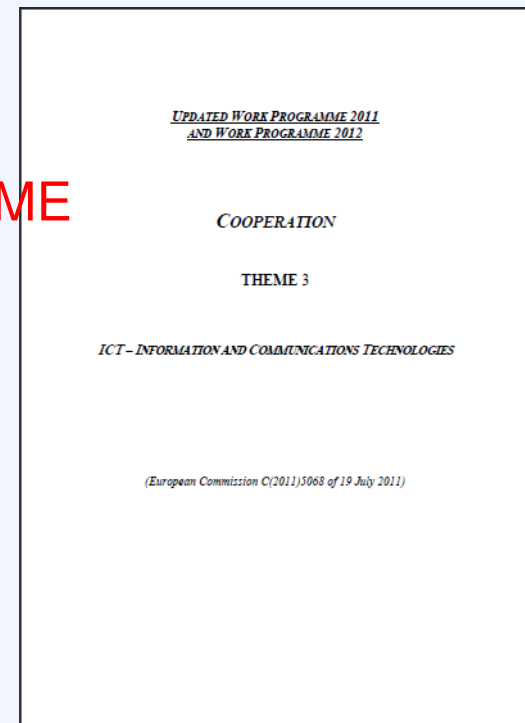
European Support for ICT Innovation

Technological Risk



FP7 ICT Research

ICT WORKPROGRAMME



5+ yrs

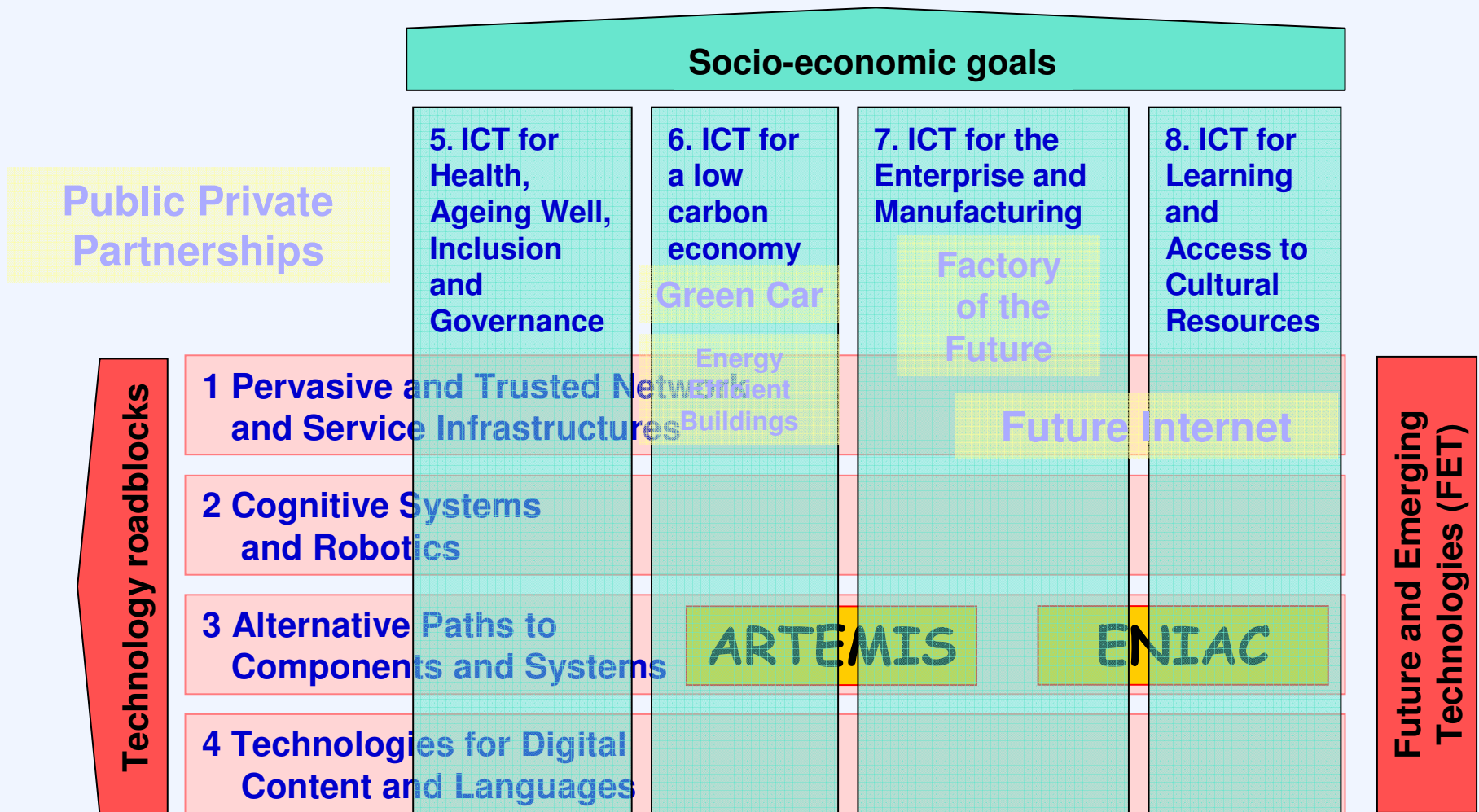
2-3 yrs

This yr



Time to Deployment

FP7 ICT Areas of Research 2011-2012



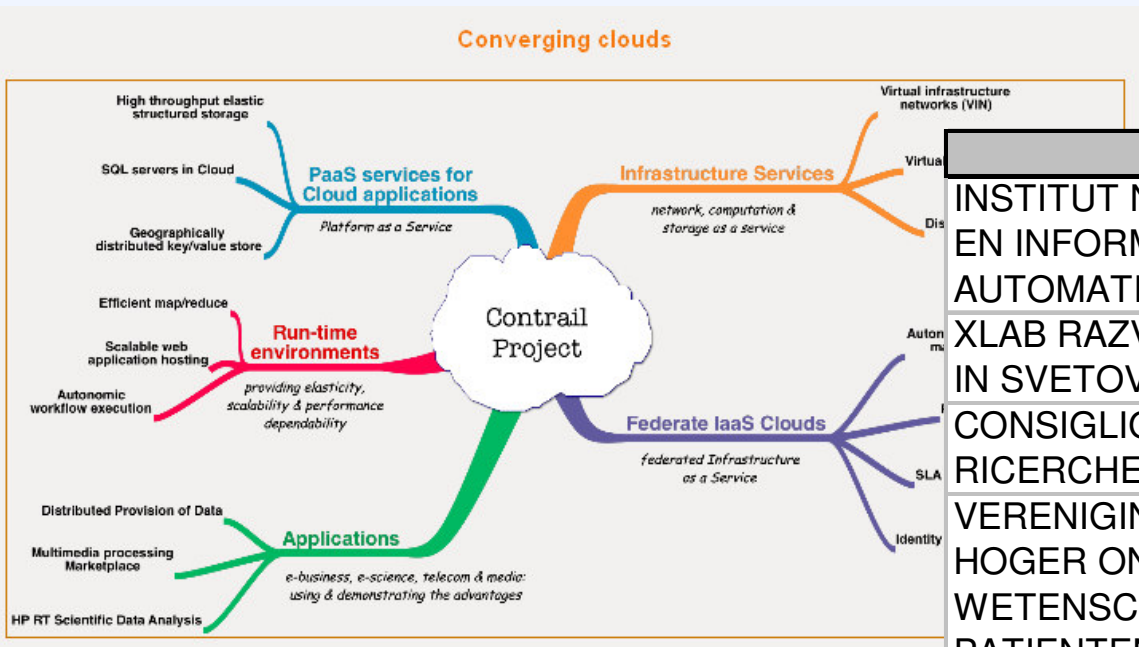
ICT Workprogramme 2011-12

Challenge		M€
1	Pervasive and Trusted Network and Service Infrastructures	625
2	Cognitive Systems and Robotics	155
3	Alternative Paths to Components and Systems	402
4	Technologies for Digital Content and Languages	165
5	ICT for Health, Ageing Well, Inclusion and Governance	260
6	ICT for a low carbon economy	280
7	ICT for the Enterprise and Manufacturing	140
8	ICT for Learning and Access to Cultural Resources	100
9	Future and Emerging Technologies	261
10	International Cooperation	15
11	Horizontal Actions	19
Budget 2011-12		2422

Challenge	Obj No	Call M€	Objective
1	Pervasive and Trusted Network and Service Infrastructures		
	1.1	160	Future Networks
	1.2	70	Cloud Computing, Internet of Services and Advanced Software Engineering
	1.3	30	Internet-connected objects
	1.4	80	Trustworthy ICT
	1.5	70	Networked Media and Search Systems
	1.6	20	Future Internet Research and Experimentation (FIRE)
FI PPP	Future Internet Public Private Partnership		
2	Cognitive Systems and Robotics		
	2.1	82	Cognitive Systems and Robotics
3	Alternative Paths to Components and Systems		
	3.1	60	Very advanced nanoelectronic components: design, engineering, technology and manufacturability
	3.2	41	Smart components and smart systems integration
	3.3	50	New paradigms for embedded systems, monitoring and control towards complex systems engineering
	3.4	45	Computing Systems
	3.5	25	Core and disruptive photonic technologies
	3.6	50	Flexible, Organic and Large Area Electronics and Photonics
4	Technologies for Digital Content and Languages		
	4.1	35	SME initiative on Digital Content and Languages (2stp)
	4.2	50	Language Technologies
	4.3	30	Digital Preservation
	4.4	50	Intelligent Information Management

1.2 Example project : CONTRAIL 257438 STREP

9 Partners:



Partner Name	Country
INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE	FR
XLAB RAZVOJ PROGRAMSKE OPREME IN SVETOVANJE DOO	SI
CONSIGLIO NAZIONALE DELLE RICERCHE	IT
VERENIGING VOOR CHRISTELIJK HOGER ONDERWIJS WETENSCHAPPELIJK ONDERZOEK EN PATIENTENZORG	NL
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL	UK
GENIAS BENELUX BV	NL
TISCALI ITALIA SPA	IT
Konrad-Zuse-Zentrum für Informationstechnik Berlin	DE
HEWLETT PACKARD ITALIANA SRL	IT
CONSTELLATION TECHNOLOGIES LTD	UK

The first step in the next generation of Internet Services

Making Cloud & Grid services available to ordinary companies

[Web link](#)

Challenge	Obj No	Call M€	Objective
5	ICT for Health, Ageing Well, Inclusion and Governance		
	5.1	60	Personal Health Systems (PHS)
	5.2	66.5	Virtual Physiological Human
	5.3	35	Patient Guidance Services (PGS), safety + ...information reuse
	5.4	37	ICT for Ageing and Wellbeing
	5.5	35	ICT for smart and personalised inclusion
	5.6	25	ICT solutions for governance and policy modelling
6	ICT for a low carbon economy		
	6.1	30	Smart Energy Grid
	6.2	35	ICT systems for energy efficiency
	6.3	15	ICT for efficient water resources management
	6.4	20	ICT for energy-efficient buildings and spaces of public use
	6.5	30	ICT for energy-positive neighbourhoods
	6.6	50	Low carbon multi-modal mobility and freight transport
	6.7	40	Cooperative Systems for energy efficient and sustainable mobility
	6.8	30	ICT for fully electric vehicle
7	ICT for the Enterprise and Manufacturing		
	7.1	40	Smart Factories: Energy-aware, agile manufacturing ...
	7.2	20	Manufacturing solutions for new ICT products
	7.3	45	Virtual Factories and enterprises
	7.4	35	Digital factories: Manufacturing design and product lifecycle..
8	ICT for Learning and Access to Cultural Resources		
	8.1	60	Technology-enhanced learning
	8.2	40	ICT for access to cultural resources

8.1 Technology Enhanced Learning

Example Projects

Link → **xDelia**: Xcellence in Decision-making through Enhanced Learning in Immersive Applications

“Competence in financial matters has become part and parcel of everyday life, both at work and at home. Traditional learning cannot deliver the necessary skills.....”

Link → **MIRROR** Reflective Learning at Work
Reflective Learning at Work

“....enable employees to learn lessons from their own and others experiences to perform better in the future. The project facilitates learning 'on the job', at the workplace, through collaboration and reflection technologies.

Background Document

Challenge	Obj No	Call M€	Objective
9	Future and Emerging Technologies		
	FET Open		
	9.1	75	Challenging current Thinking
	9.2	9	High-Tech Research Intensive SMEs in FET research
	9.3	6	FET Young Explorers
	9.4	3	International cooperation on FET research
	9.5	10	FET Flagship Initiative Preparatory Actions
	9.6	130	FET Proactive:
			Unconventional Computation, Dynamics of Multi-Level Complex Systems, Minimising Energy Consumption of Computing to the Limit, etc
	9.13	25	Exa-scale computing, software and simulation
	9.14	3.5	Joint Call ICT-SSH on 'Science of Global Systems'
10	International Cooperation		
	10.3	2	International partnership building and support to dialogues
11	Horizontal Actions		
	11.1	5	Pre-Commercial Procurement Coordination Actions
	11.2	4	Trans National Cooperation NCPs
	11.3	10	Supplements to strengthen Cooperation in an enlarged European Union

FP7UK

Choose the bit that works for you

But I've forgotten already!

Introduction to the ICT workprogramme

Briefly outlines FP7

- Focuses on ICT
- Outlines the Challenges
- Lists the calls
- Lists the objectives
- Drills into Workprogramme text

<http://tinyurl.com/ict-precis>

<http://tinyurl.com/ict-driller>

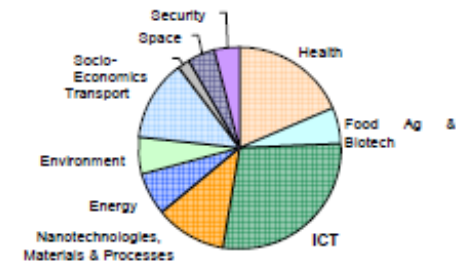
ICT - Information and Communication Technologies

A brief overview of Framework 7 ICT 2010-2012
Including PPPs

UK ICT NCP 19 May 2011

Collaborative Research enables organisations to develop the knowledge underpinning future products and services. It brings access to skills from a wider compass than may be directly available to the individual organisation, at the same time as enabling a wider outlet for skills and knowledge of their own. It delivers enhanced business networks, enables a broader world view and access to a greater marketplace.

The European Commission seeks to encourage collaborative research for the benefit of the population and the Competitiveness of European Industry. It does this by launching objective driven calls for proposals addressing particular technological challenges. The Collaboration Programme of the Seventh European Research Framework will spend 32 Billion Euros supporting Collaborative research over ten Thematic domains in the seven year period 2007-13



Projects and Funding. Proposals in response to a Commission call involving at least three independent collaborating participants from different member or associated states have to be submitted electronically by a published date and time. These proposals are marked against published criteria by independent evaluators in the following six weeks or so. Those achieving highest scores subsequently enter negotiation of a grant agreement with the Commission.

Successful proposals result from understanding, excellence and a high degree of commitment in their writing, as calls are commonly oversubscribed.

Research projects - in a variety of forms and sizes; sharply focussed 'STREPS' or the more general Integrating Projects consume more than 90% of the available funding. Networks of Excellence deliver organisation and focus in specific fields, whilst Coordination and Support Actions underpin the organisation and success of the programme



Local Support - keep up to date

FP7UK ICT Official Group

[Join this group](#)

Overview [Our group >](#) [News](#) [Members](#) [Documents](#)

Information and Communication Technologies

Information and Communication Technologies

Welcome to the UK National Contact Point for programmes covering the European Commission's

- Framework Seven Information and Communication Technologies (ICT) Programme
- ICT Policy Support Programme
- ARTEMIS & ENIAC Joint Technology Initiatives

FP7UK activities provide support for Research, Development and Innovation collaborations addressing objectives set out in the respective work programmes and following calls for proposals published in the Official Journal.

This NCP exists to provide a free support service to help you understand what these programmes offer in the context of your organisation. We will provide impartial advice on the opportunities these programmes offer to your organisation.

<https://ktn.innovateuk.org/web/fp7-ict/news>

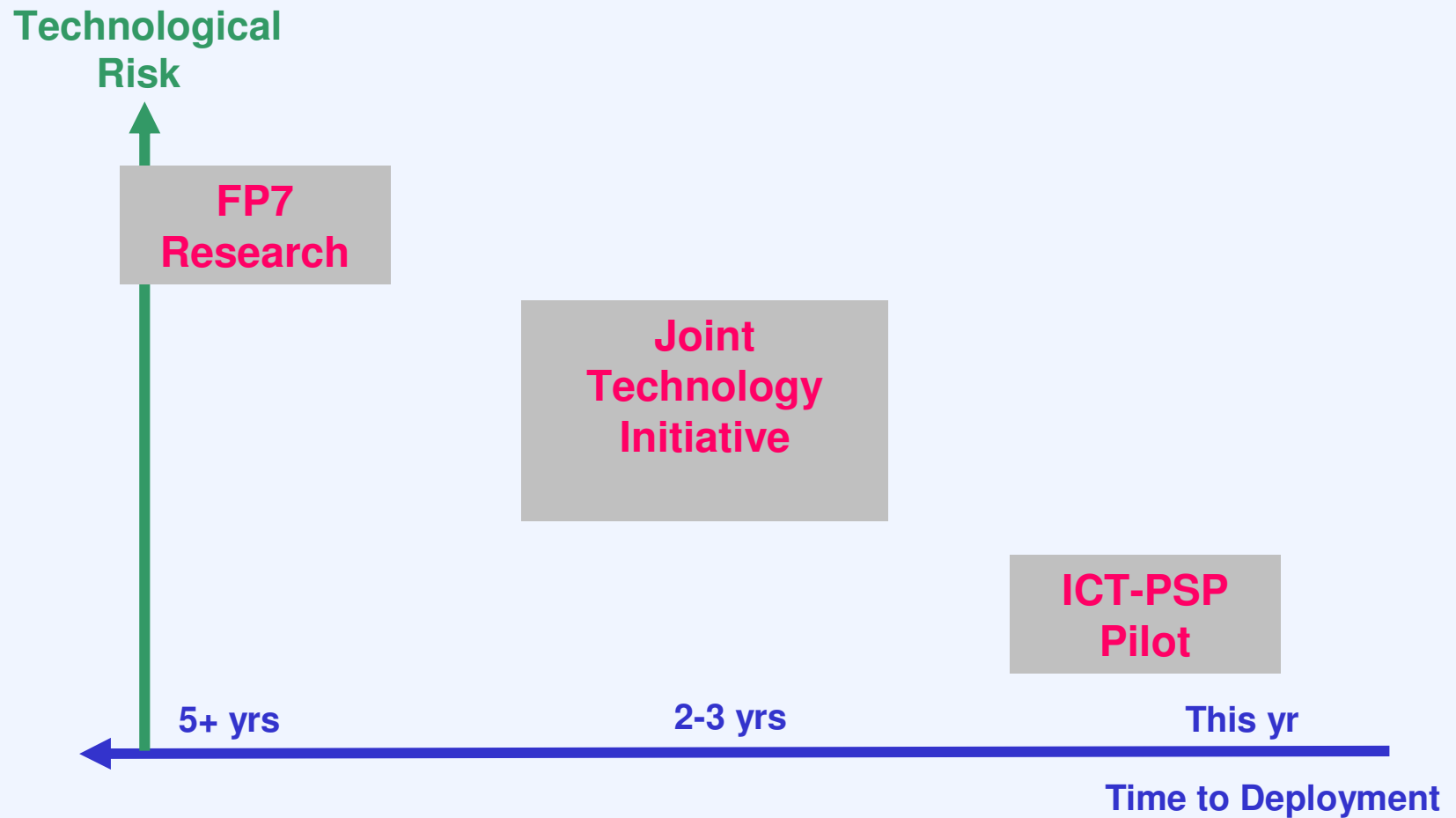
Newest members

- Richard Miskin**
Joined: Today
- Fridolin Wild**
Joined: 25 August
- Brian Bell**
Joined: 02 August
- Claire Palmer**
Joined: 25 July
- Stamatis Karnouskos**
Joined: 07 July

[Subscribe to these activities.](#)

groups

European Support for Innovation



ICT – Policy Support Programme

Objectives

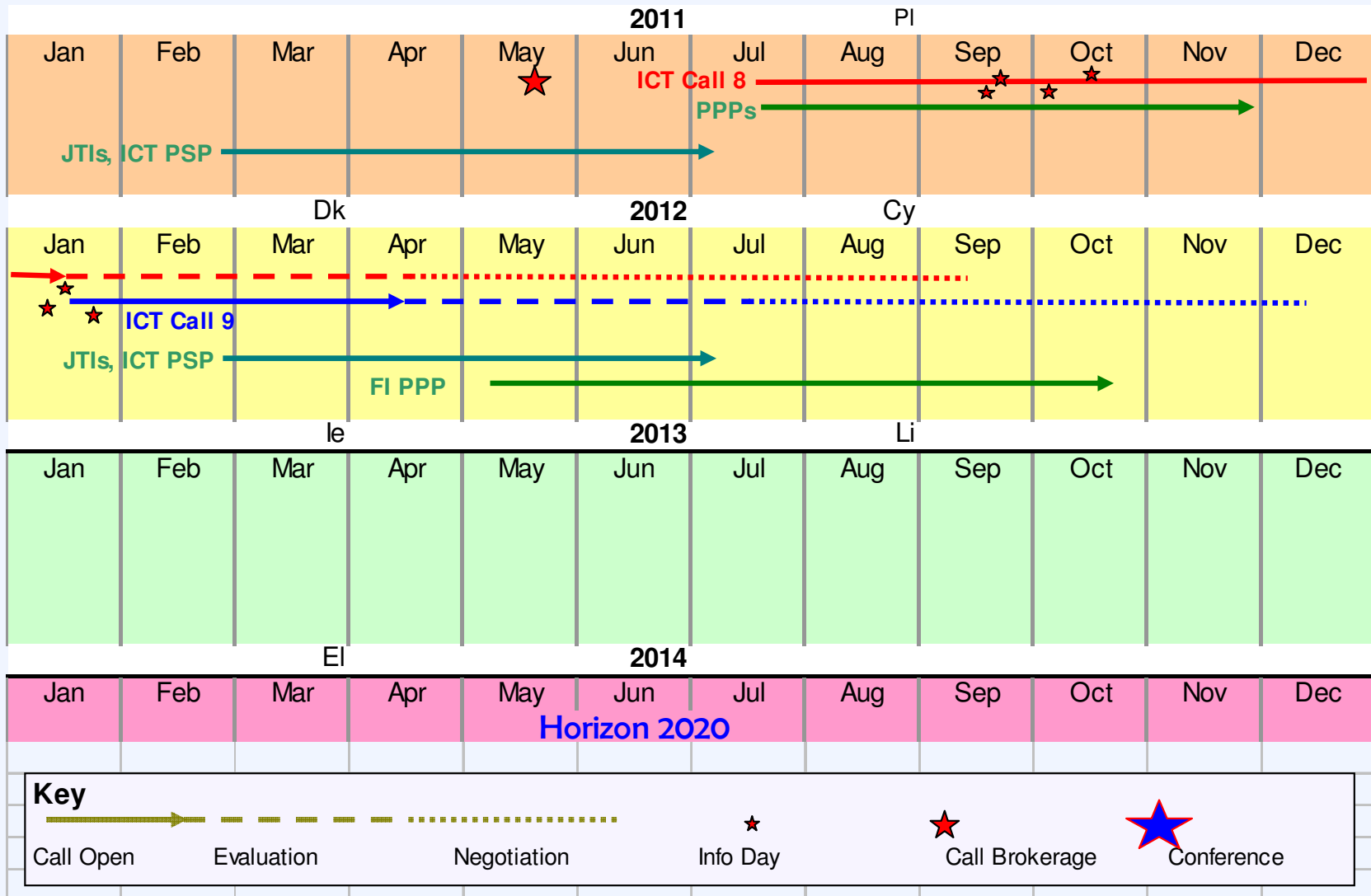
- stimulate **innovation** and **competitiveness** and accelerate the development of a **sustainable, competitive, innovative and inclusive information society**
- uptake of ICT ... in areas of **public interest** like health, inclusion, cultural heritage, public sector information, learning, public administrations, and energy efficiency
- ...

Projects -Mostly Pilots - to show:

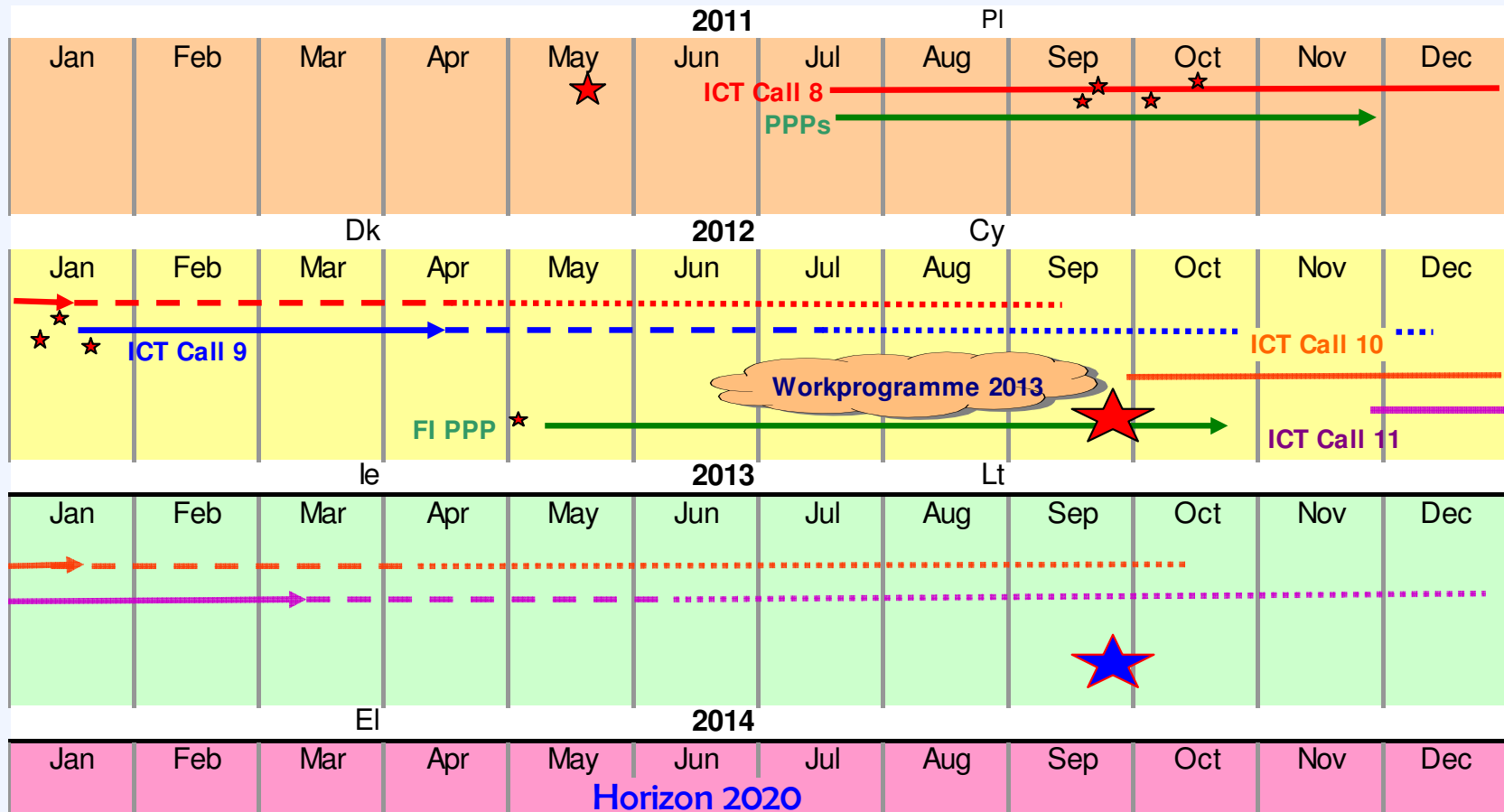
Alignment, Long Term Impact, Ability to Fly Free

http://ec.europa.eu/ict_psp

Calendar



And Then



Horizon 2020 – objectives & structure

Europe 2020 priorities

International cooperation

European Research Area

Shared objectives and principles

Tackling Societal Challenges

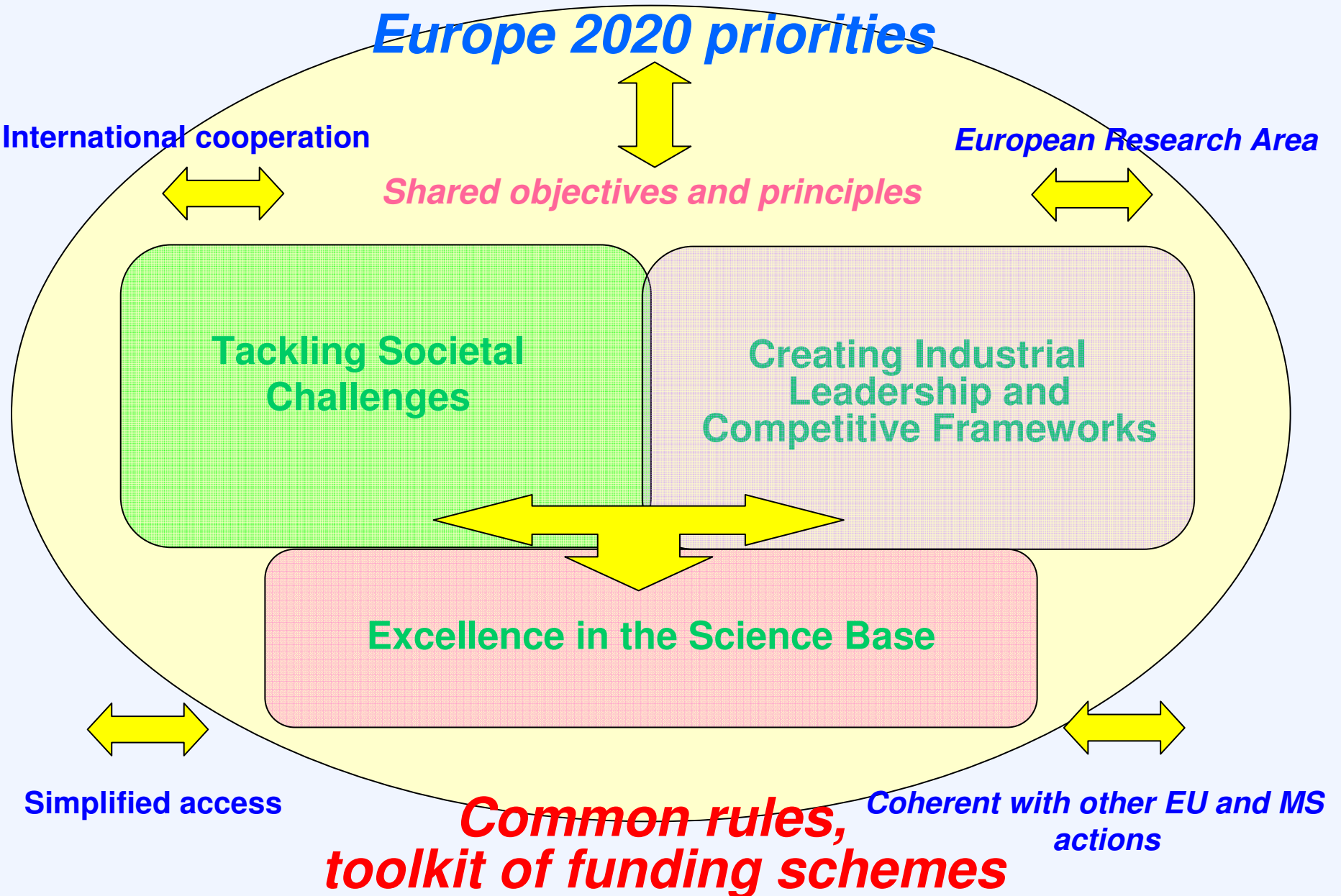
Creating Industrial Leadership and Competitive Frameworks

Excellence in the Science Base

Simplified access

Coherent with other EU and MS actions

***Common rules,
toolkit of funding schemes***



Excellence in the Science Base

World class excellence; developing and attracting talent

- The **European Research Council**
- **Future and Emerging Technologies**
 - Including the full FET suite:
 - FET OPEn
 - FET Proactive
 - FET Flagships (2-6)
- **Marie Curie** actions on skills, training and career development
- European **research infrastructures** (including eInfrastructures)

Tackling Societal Challenges

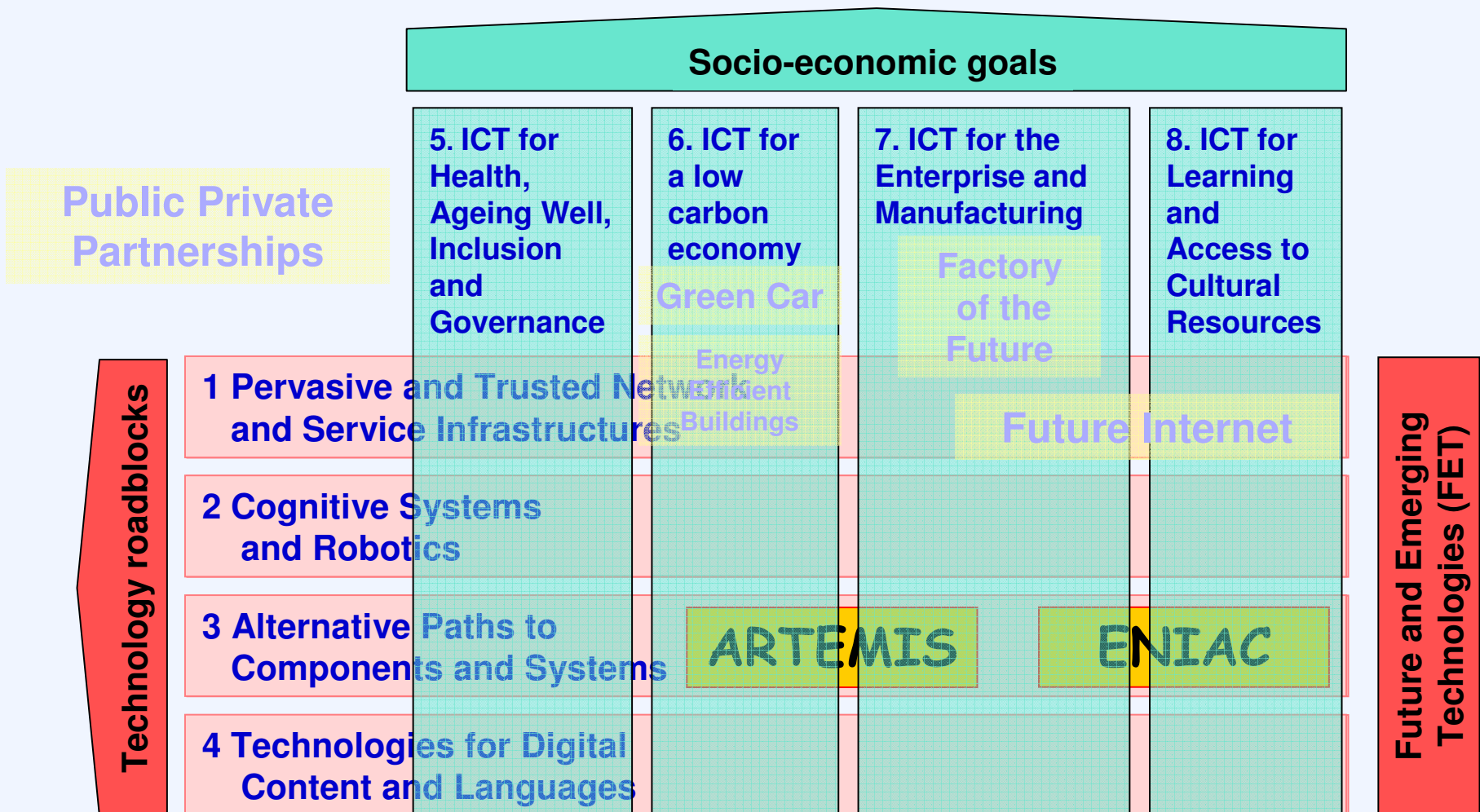
**Responding directly to EU objectives;
whole cycle from research to market**

- Health, demographics changes and wellbeing
- Food security, sustainable agriculture and the bio-based economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action and, resource efficiency, including raw materials
- Inclusive, innovative and secure societies

Creating Industrial Leadership and Competitive Frameworks

- Business led R&I; raising private investment
- Leadership in enabling and industrial technologies of:
 - Information and Communication Technologies
 - Nanotechnologies, advanced materials, advanced manufacturing and processing
 - Biotechnology
 - Space.
- Innovation in SMEs
- Access to risk finance

FP7 ICT Areas of Research 2011-2012



FP7 ICT Areas of Research 2014-2020

**3 Alternative Paths to
Components and Systems**

**1 Pervasive and Trusted Network
and Service Infrastructures**

Future Internet

**4 Technologies for Digital
Content and Languages**

**2 Cognitive Systems
and Robotics**

Horizon 2020 – objectives & structure

Europe 2020 priorities

International cooperation

European Research Area

Shared objectives and principles

Tackling Societal Challenges

Health, demographic change and wellbeing
Food security and the bio-based economy
Secure, clean and efficient energy
Smart, green and integrated transport
Climate action, resource efficiency, including raw materials
Inclusive, innovative and secure societies

Creating Industrial Leadership and Competitive Frameworks

Information and Communication Technologies (ICT)
Nanotechnology, Materials, Manufacturing and Processing
Biotechnology
Space
Access to risk finance
Innovation in SMEs

Excellence in the Science Base

- Frontier research (ERC)
- Future and Emerging Technologies (FET)
- Skills and career development (Marie Curie)
- Research infrastructures

Simplified access

Coherent with other EU and MS actions

Common rules, toolkit of funding schemes

ICT
ICT
ICT
ICT
ICT

ICT

ICT

ICT

So:

- **ICT Call 8 20 July 2011 – 17 Jan 2012** **Budget 787 M€**
 - and other dates for PPP calls
- **ICT Call 9 18 Jan 2012 – 17 Apr 2012** **Budget 291 M€**
- **ICT – PSP Call 5 Spring 2012** **Budget ~ 120 M€**

- Summer 2012 **Workprogramme – 2013**
- ICT Call 10 ?? Sept 2012 – Jan 2013 Budget 750 M€
- ICT Call 11 'late' 2013 – spring 2013 Budget 750 M€

- Autumn 2013 Horizon 2020 Draft Workprogramme

- Decide if you want to participate
- Study existing projects – Talk to UK Participants
- Join KTNs – they will help you to be aware of opportunities
- Follow FP7UK ICT NEWS

- Go to ICT events

- Talk to NCP
- TALK TO THE COMMISSION

Advice and Assistance in the UK

FP7UK National Contact Points:

Technology Strategy Board: Business Support Group: 0300 321 4357
(does not ring - lady asks you for which option FP7 is option 3)

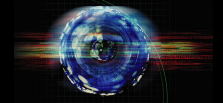
ICT Web Presence <https://ktn.innovateuk.org/web/fp7-ict>

The NEWS tab carries latest news <https://ktn.innovateuk.org/web/fp7-ict/news>

Explanatory Document <http://tinyurl.com/ict-precis>

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This Slideset:

PHX PEW ICT.pdf

<http://tinyurl.com/ict-slides>