"Information and Communication Technologies" Theme of the 7th Framework Programme (FP7-ICT)

What is FP7?

⇨ **A central instrument for supporting research activities**

⇨ **Complements the efforts of Member States and European industry**

⇨ **Contributes to the EU becoming the world's leading research area**

⇨ **Promotes world class state-of the-art research**

⇨ **Foresees common**
- ✓ *Goals*
- ✓ *Procedures*
- ✓ *Project selection and management*
- ✓ *Funding/audit*
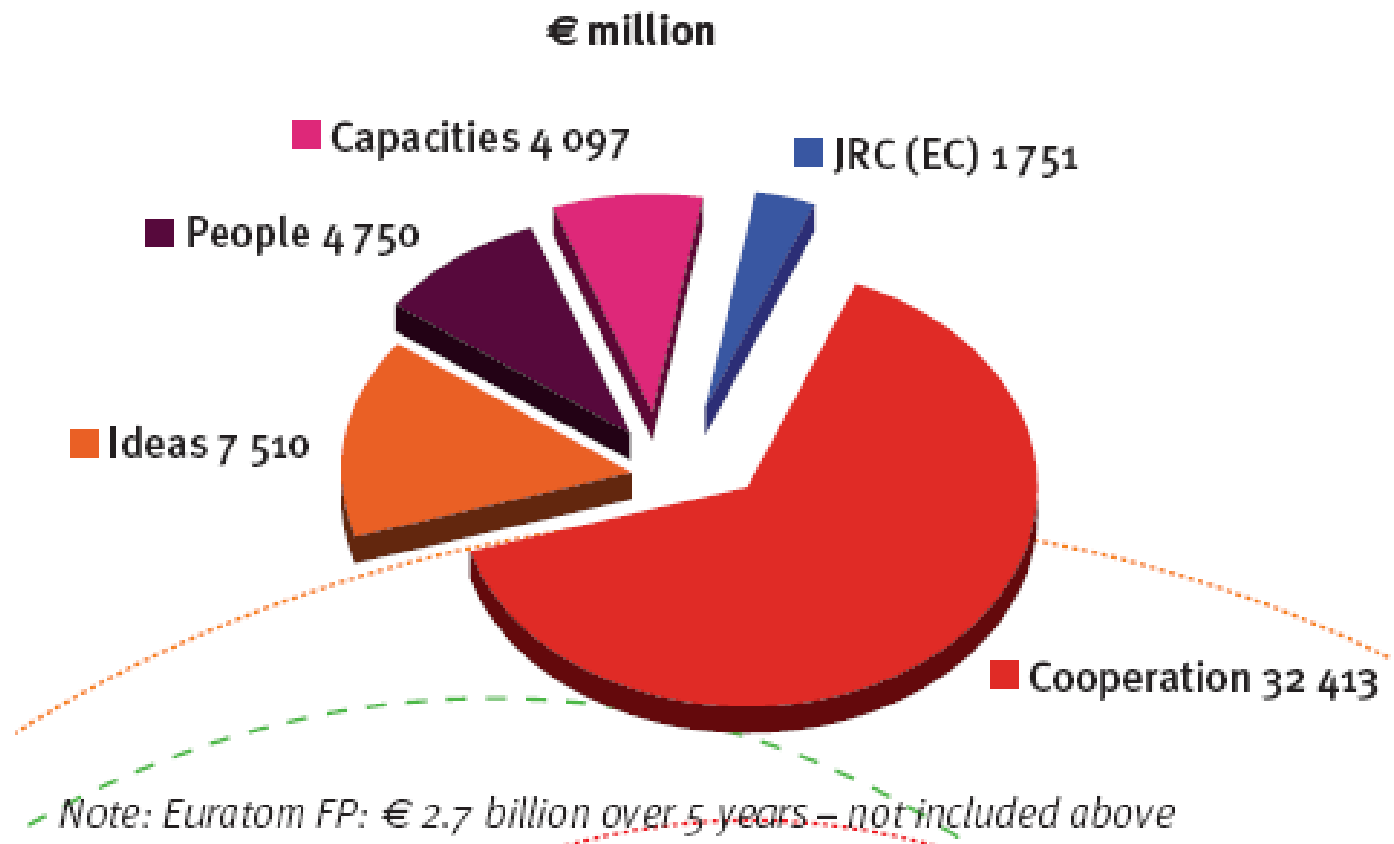
Structure of FP7

4 Specific Programmes

Cooperation	**Ideas**
People	**Capacities**

Structure of FP7 (cont)

FP7 budget (€ 50 521 million, current prices)

€ million

Capacities 4 097

JRC (EC) 1 751

People 4 750

Ideas 7 510

Cooperation 32 413

Note: Euratom FP: € 2.7 billion over 5 years – not included above

FP7 Cooperation

⇨ **The core of FP7** *(~2/3 of total budget)*

⇨ **Fosters <u>collaborative</u> research <u>across Europe and other partner countries</u>**

⇨ **Supports projects by <u>transnational consortia</u> of <u>industry and academia</u>**

⇨ **10 thematic areas are foreseen** (*'Themes'*)

1. Health	6.	Environment (including Climate Change)
2. Food, Agriculture and Fisheries, Biotechnology	7.	Transport (including aeronautics)
3. Information & communication technologies	8.	Socio-economic Sciences and the Humanities
4. Nanosciences, nanotechnologies, materials & new production technologies	9.	Space
5. Energy	10.	Security

FP7 Cooperation (cont)

⇨ **Cooperation with "third countries" is explicitly encouraged in FP7 in order to:**

    ✓ **Support European competitiveness in selected fields through strategic partnerships with "third countries" and initiatives that <u>encourage the</u> <u>best "third country" scientists to work in and with Europe</u>**

    ✓ **<u>Address specific problems</u> that either have a global character or are commonly faced by "third countries" <u>on the basis of mutual benefit</u>.**

FP7 Cooperation (cont)

⇨ **The EC publishes 1-2 Calls for Proposals per year for each Theme**

⇨ **For each Theme there is a Workprogramme which provides details on**

- ✓ *Research priorities*
- ✓ *Proposal/consortium requirements*
- ✓ *Budget*
- ✓ *Deadlines*

FP7 Cooperation *(cont)*

⇨ **Type of projects** *("funding schemes")*
  - ✓ **Collaborative projects**
    - ✓ **Small scale** *(STREP)*
    - ✓ **Large scale** *(IP)*
  - ✓ **Networks of Excellence** *(NoE)*
  - ✓ **Coordination and Support Action** *(CSA)*

⇨ **Funding concept**
  - ✓ **International consortia**
  - ✓ **Forward thinking (improve state-of the-art)**
  - ✓ **Problem-oriented research activities**
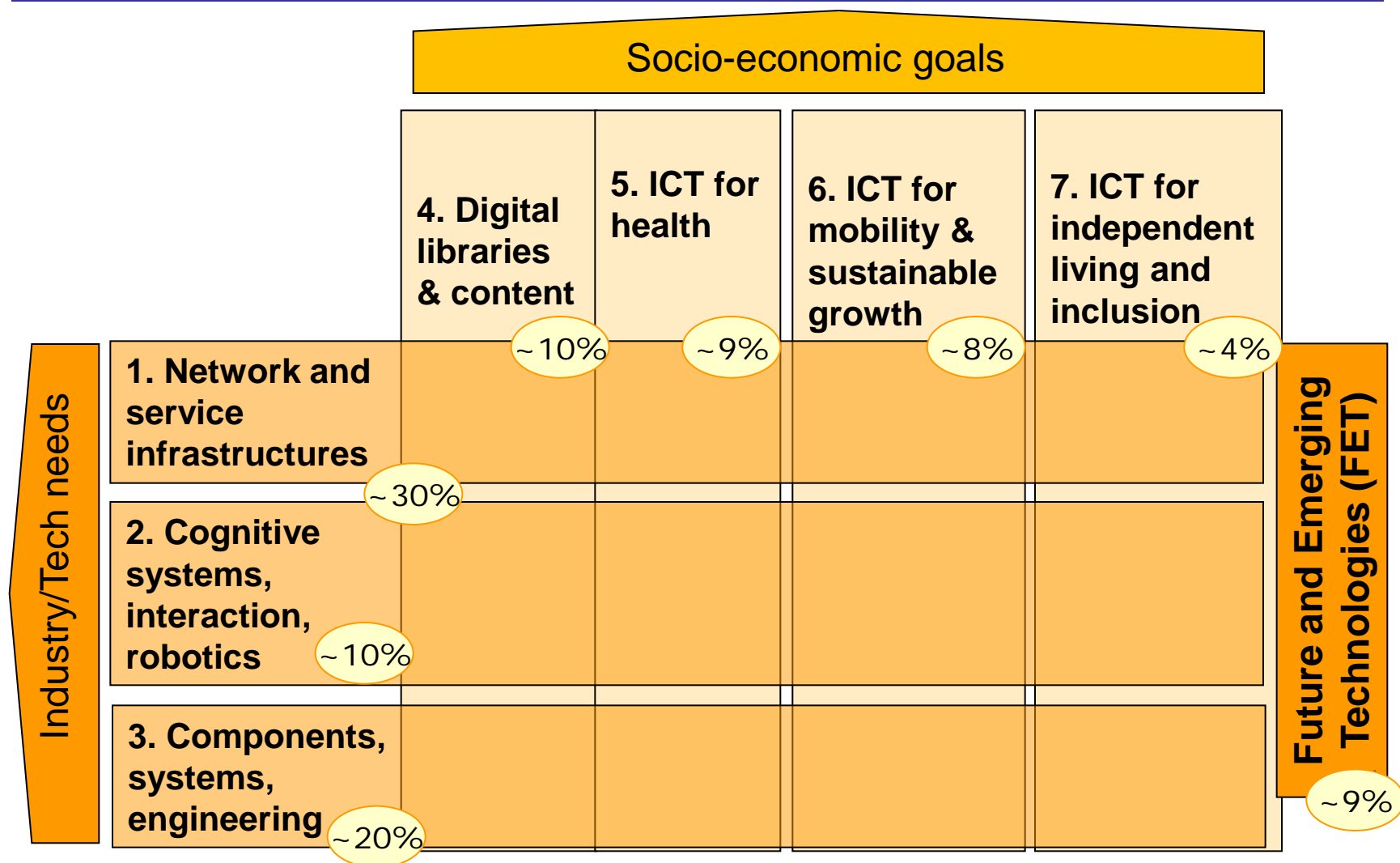 - ✓ **Risk-sharing (financially support part of the activities)**

FP7 Cooperation *(cont)*

Funded Activities	EC upper funding limit
Research and Technological Development (RTD)	75%
Demonstration activities	50%
Support and coordination activities, training, other	100%
Management	100%

FP7 Cooperation *(cont)*

Budget breakdown of the Seventh Framework Programme of the European Community (EC) (2007-2013) and Euratom (2007-2011) (in EUR million)

	Themes	April 2005 (*)	May 2006 (**)	July 2006 (***)	December 2006 (****)
COOPERATION	Health	8317	5984	6050	6100
	Food, Agriculture and Fisheries, and Biotechnology	2455	1935	1935	1935
	Information and Communication Technologies	12670	9110	9110	9050
	Nanosciences, Nanotechnologies, Materials and new Production Technologies	4832	3467	3500	3475
	Energy	2931	2265	2300	2350
	Environment (including Climate Change)	2535	1886	1900	1890
	Transport (including Aeronautics)	5940	4180	4180	4160
	Socio-economic Sciences and the Humanities	792	607	610	623
	Security and Space	3960	2858	Space 1430	Space 1430
				Security 1350	Security 1400
Total COOPERATION		44432	32292	32365	32413

FP7-ICT (WP 2009-2010)

Socio-economic goals

Industry/Tech needs	4. Digital libraries & content	5. ICT for health	6. ICT for mobility & sustainable growth	7. ICT for independent living and inclusion	Future and Emerging Technologies (FET)
	~10%	~9%	~8%	~4%	
1. Network and service infrastructures ~30%					
2. Cognitive systems, interaction, robotics ~10%					
3. Components, systems, engineering ~20%					~9%

Budget share

FP7-ICT: New Opportunities for International Co-operation
May 19-20, 2010 – Minsk, Belarus

FP7-ICT Challenges

Challenge 1: Pervasive and Trusted Network and Service Infrastructures
ICT 2009.1.1 The Network of the Future
ICT 2009.1.2 Internet of Services, Software & virtualisation
ICT 2009.1.3 Internet of Things and enterprise environments
ICT 2009.1.4 Trustworthy ICT
ICT 2009.1.5 Networked Media & 3D Internet
ICT 2009.1.6 Future Internet Experimental Facility and Experimentally-driven Research
Challenge 2: Cognitive systems, interaction, robotics
ICT 2009.2.1 Cognitive Systems and Robotics
ICT 2009.2.2. Language-Based Interaction

FP7-ICT Challenges (cont)

Challenge 3: Components, systems, engineering
ICT 2009.3.1 Nanoelectronics Technology
ICT 2009.3.2 Design of Semiconductor Components & Electronic-based Miniaturised Systems
ICT 2009.3.3 Flexible, Organic and Large Area Electronics
ICT 2009.3.4 Embedded Systems Design
ICT 2009.3.5 Engineering of Networked Monitoring and Control Systems
ICT 2009.3.6 Computing Systems
ICT 2009.3.7 Photonics
ICT 2009.3.8 Organic Photonics and other Disruptive Photonics Technologies
ICT 2009.3.9 Microsystems and Smart Miniaturised Systems
Challenge 4: Digital Libraries and Content
ICT 2009.4.1 Digital Libraries and Digital Preservation
ICT 2009.4.2 Technology-Enhanced Learning
ICT 2009.4.3 Intelligent information management

FP7-ICT Challenges (cont)

Challenge 5: Towards sustainable and personalised healthcare
ICT 2009.5.1 Personal Health Systems
ICT 2009.5.2 ICT for Patient Safety
ICT 2009.5.3 Virtual Physiological Human
ICT 2009.5.4: International Cooperation on Virtual Physiological Human
Challenge 6: ICT for mobility, environmental sustainability and energy efficiency
ICT 2009.6.1 ICT for Safety and Energy Efficiency in Mobility
ICT 2009.6.2 ICT for Mobility of the Future
ICT 2009.6.3 ICT for Energy Efficiency
ICT 2009.6.4 ICT for Environmental Services & Climate Change Adaptation
ICT 2009.6.5: Novel ICT solutions for Smart Electricity Distribution Networks

FP7-ICT Challenges (cont)

Challenge 7: ICT for independent living, inclusion and participatory governance
ICT 2009.7.1 ICT and Ageing
ICT 2009.7.2 Accessible and Assistive ICT
ICT 2009.7.3 ICT for Governance and Policy Modelling
Future and emerging technologies
ICT 2009.8.1 Concurrent Tera-Device Computing
ICT 2009.8.2 Quantum Information Foundations & Technologies
ICT 2009.8.3 Bio-Chemistry based Information Technology
ICT 2009.8.4 Human-Computer Confluence
ICT 2009.8.5 Self-Awareness in Autonomic Systems
ICT 2009.8.6 Towards Zero-Power ICT
ICT 2009.8.7 Molecular Scale Devices and Systems
ICT 2009.8.8 Brain Inspired ICT
ICT 2009.8.9 Coordinating Communities, Plans & Actions in FET Proactive Initiatives
ICT 2009.8.10 Identifying new research topics, Assessing emerging global S&T trends in ICT for future FET Proactive Initiatives

Practical info

⇨ **Launch of the WP for 2011-2013**
- ✓ *September 2010 (ICT 2010 event)*

⇨ **Next Call for Proposals**
- ✓ *Most probably early 2011*

⇨ **Useful links**
- ✓ *http://cordis.europa.eu/fp7/home_en.html*
- ✓ *http://cordis.europa.eu/fp7/ict/*

Do your background reading and searching

Ask for support

Be patient and persistent

Thank you for your attention

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