

# Africa-EU Cooperation on ICT Status/ Perspectives

**EUROAFRICA-ICT coordination meeting**

**Brussels, 10/12/08**

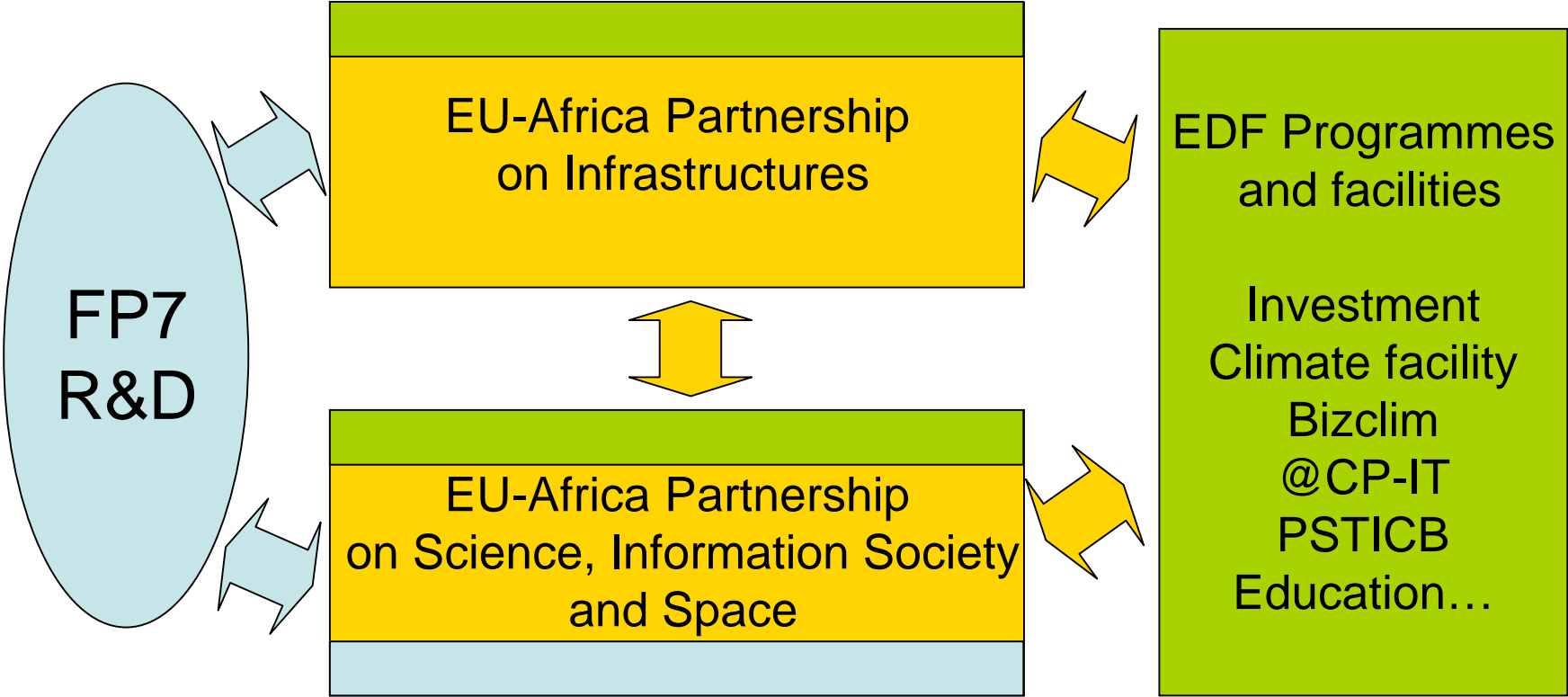
**Thierry Devars**

**European Commission / DG INFSO**

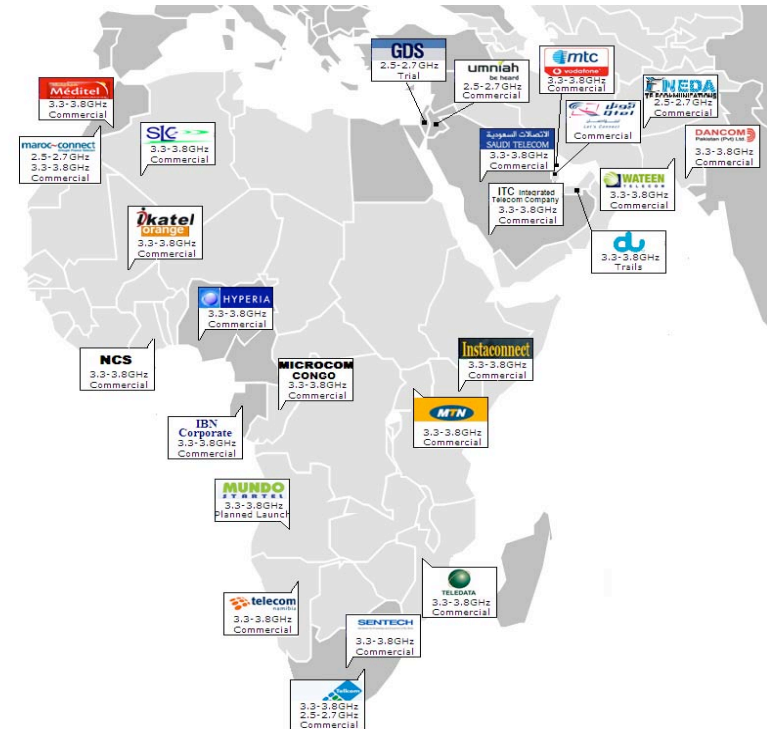
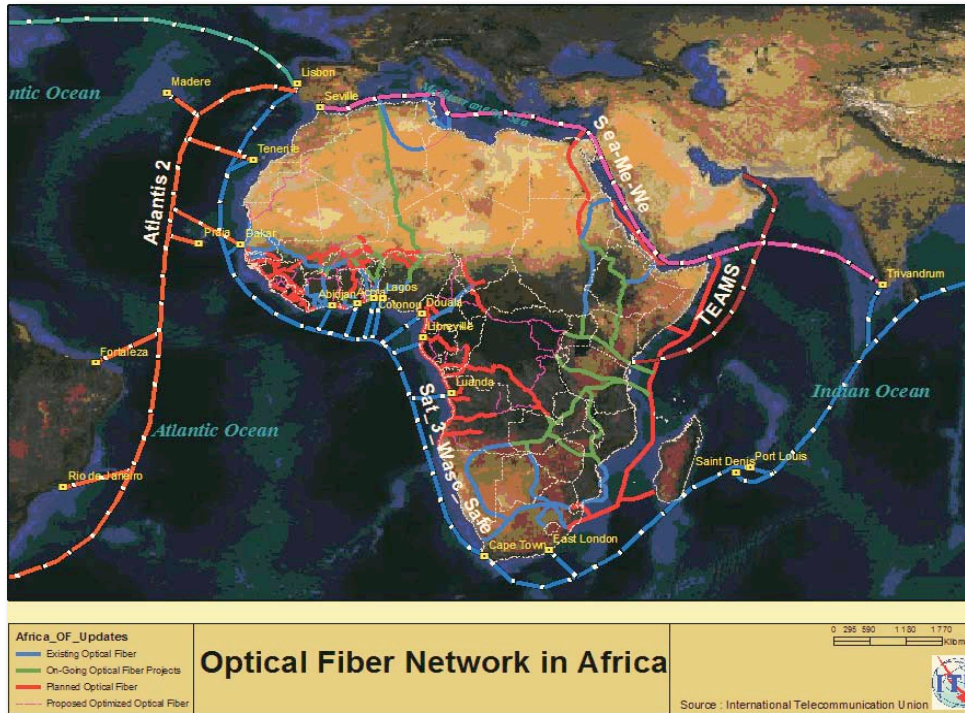


**[thierry.devars@ec.europa.eu](mailto:thierry.devars@ec.europa.eu)**

# A comprehensive cooperation framework now in place...



# Broadband deployment



Notable Wimax deployments : source WIMAX counts

Need for hybrid solutions : fiber +broadband wireless (satellite/WIMAX/2,5-3G-HSPA)

Need for a comprehensive dedicated approach (infrastructures, regulation, capacities)

# Partnership on Infrastructures

- Officially launched last October, support to AU/NEPAD i-STAP (Infrastructures Short Term Action Plan)
- 4 sectors : Energy, Water, Transport, ICT / trans-border networks
- 5,6 B€ earmarked from the 10th EDF
- Creation of a Trust Fund with the European Investment Bank
- Innovative governance : coordination between EU and AU, NEPAD, Regional Economic Communities, African Bank for Development, EIB (interface with Infrastructure Consortium for Africa)
- EASSY (East African Submarine cable) identified as flagship project; 6 new projects (Broadband « missing links », currently identified with the AUC



# Partnership on Science, **Information Society** and Space

**6M€ EC-ITU Agreement to support regulatory reforms in Africa**

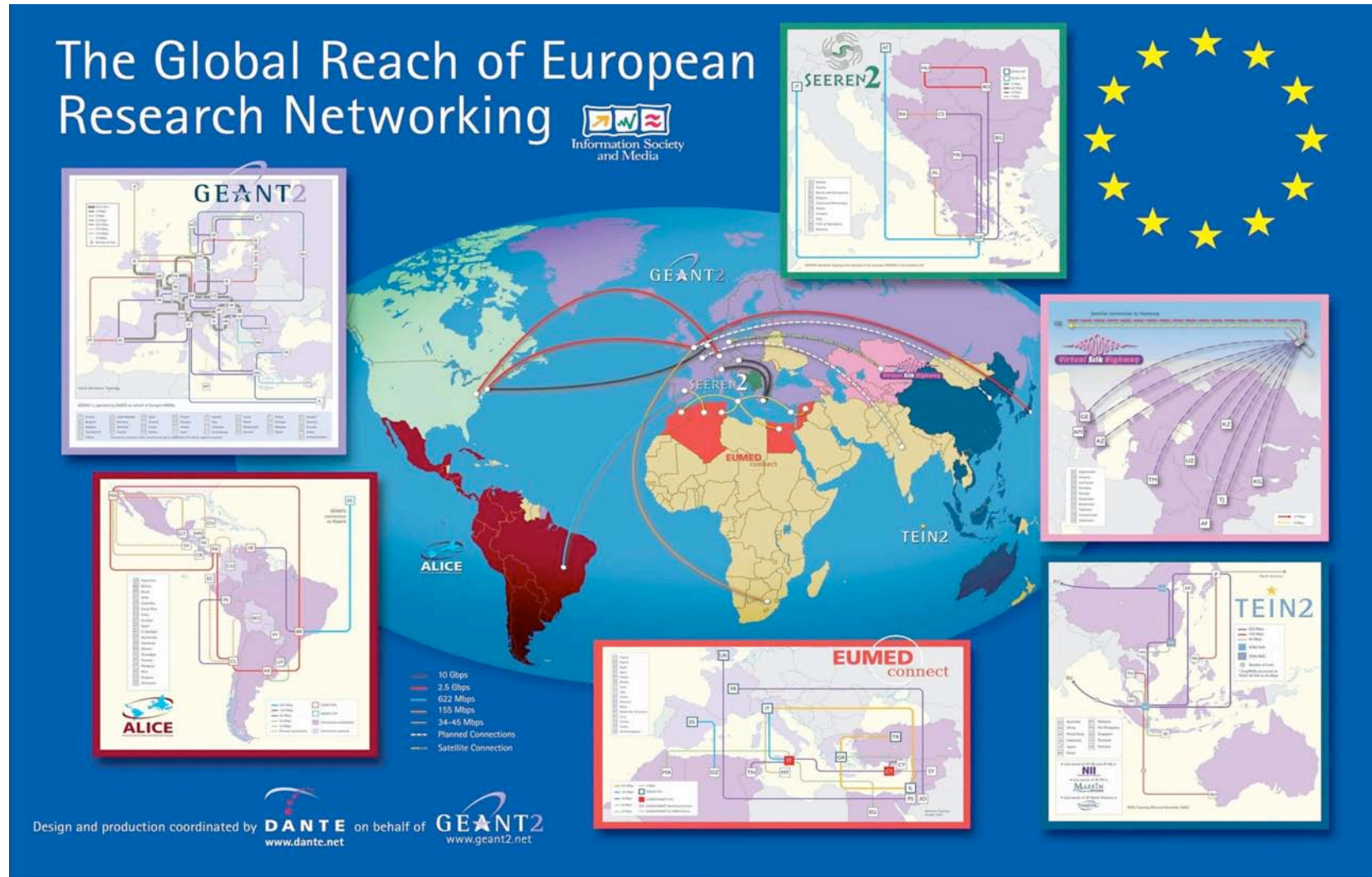
**5 flagship pan-African projects jointly identified with the AUC in direct support of ARAPKE :**

- **AXIS** : establishment of national IXPs + regional internet hubs
- **Africa Connect** : GEANT extension to sub-saharan Africa
- ALICT: training programme for IT professionals and policy-makers
- AYIN : e-skills for the youth
- African Virtual Campus : e-learning network

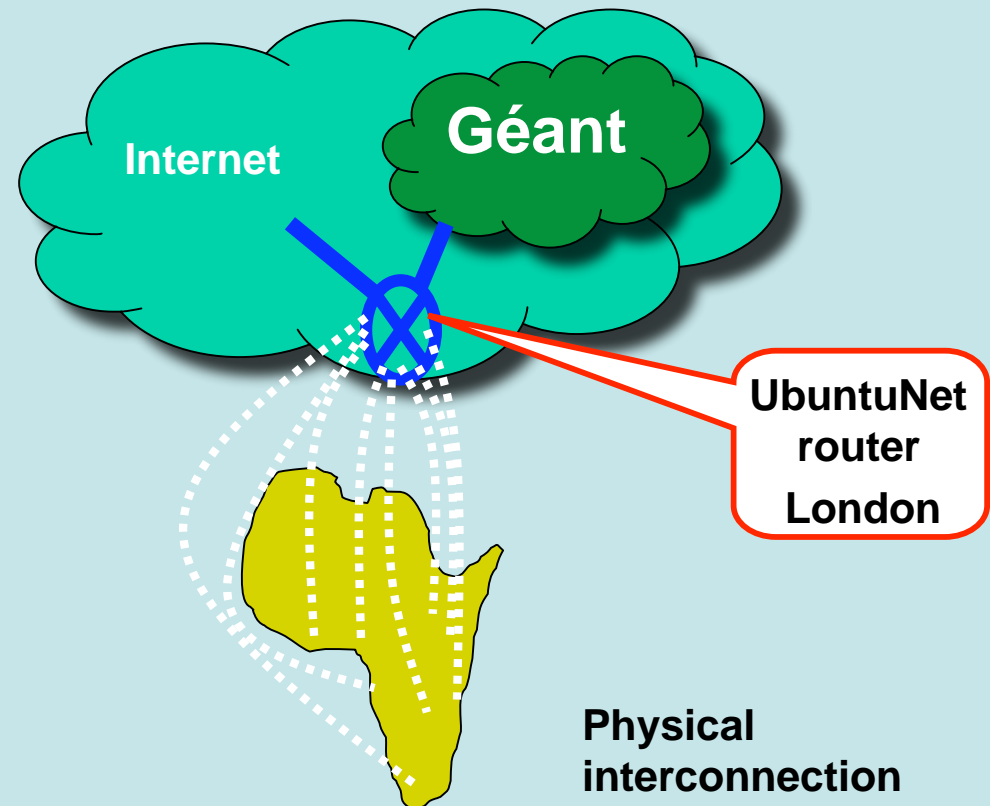
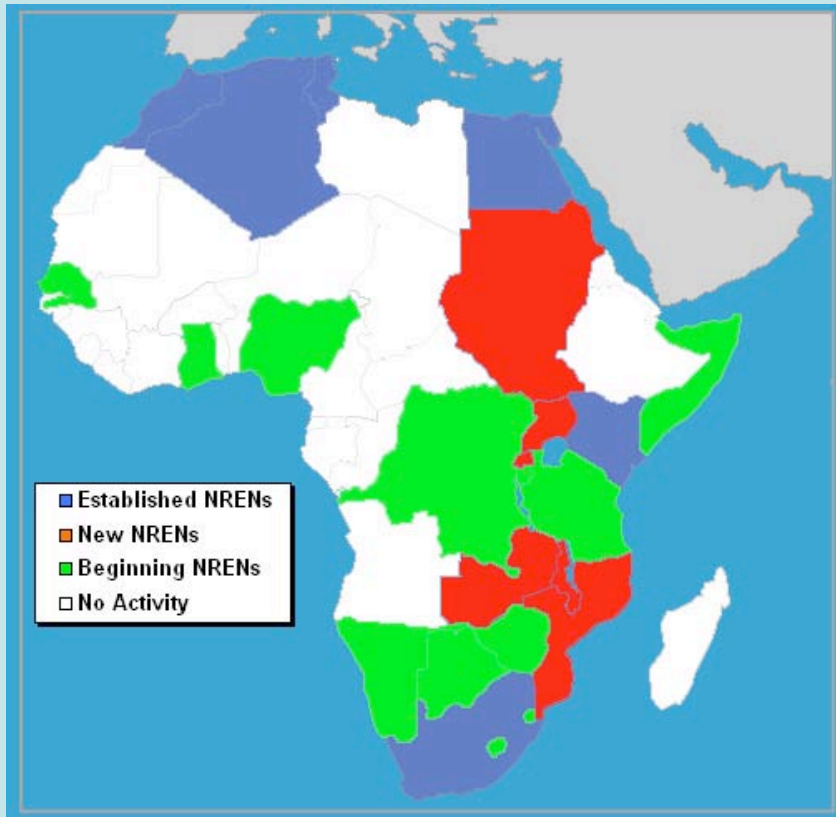
**Critical mass : PPP (EU-Africa Business Forum); civil society; financial institutions**

**EU-AU process : Engage not only EC and AUC, but ALL Member States**

# Research and Education Networks : GEANT



# ***NReNs in Africa : Current dynamics***



**Physical  
interconnection  
achieved  
January 2008**

**Source – Lishan Adam**

# FP 7 STRUCTURE

(2007-2013)



**Co-operation (10 thematic priorities) : 32,4 B€**

Health
Food, Agriculture and Biotechnology
<b>Information and Communication Technologies 9,1B€</b>
Nanosciences, Nanotechnologies, Materials and new Production Technologies
Energy
Environment (including Climate Change)
Transport
Socio-Economic Sciences and the Humanities
Security
Space

**Capacities : 4,1 B€**

Research Infrastructures
Research for the Benefit Of SMEs
Regions of Knowledge
Research Potential
Science in Society
Activities of International Co-operation
Coherent Development of Policies

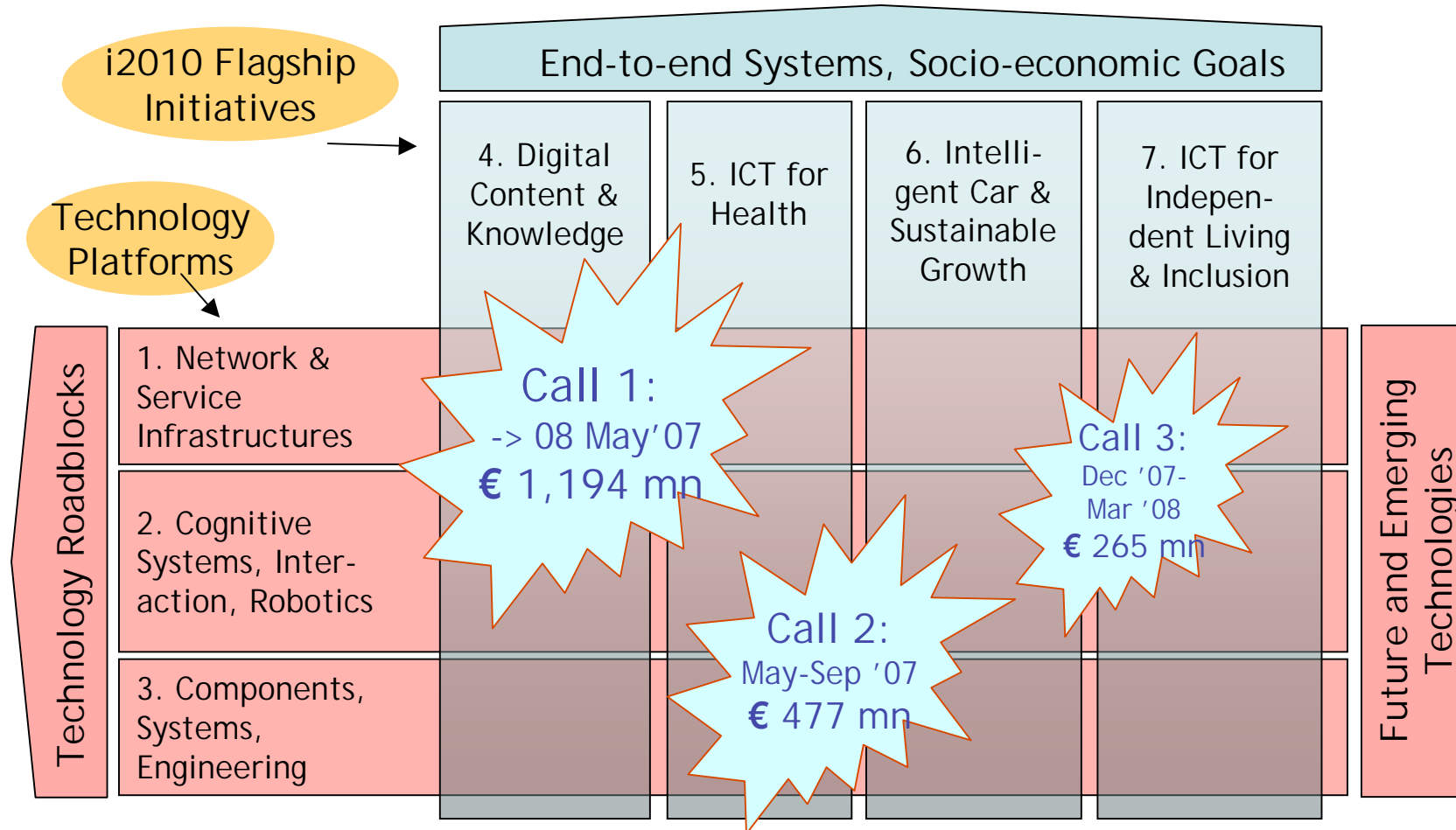
**Ideas – European Research Council (ERC) : 7,5 B€**

Starting Independent Researcher Grants
Advanced Investigator Grants

**People – Marie Curie : 4,75B€**

Initial Training of Researchers
Lifelong Learning and Career Development
Industry-Academia Partnerships and Pathways
The International Dimension
Specific Actions

# ICT Work Programme 2007-08

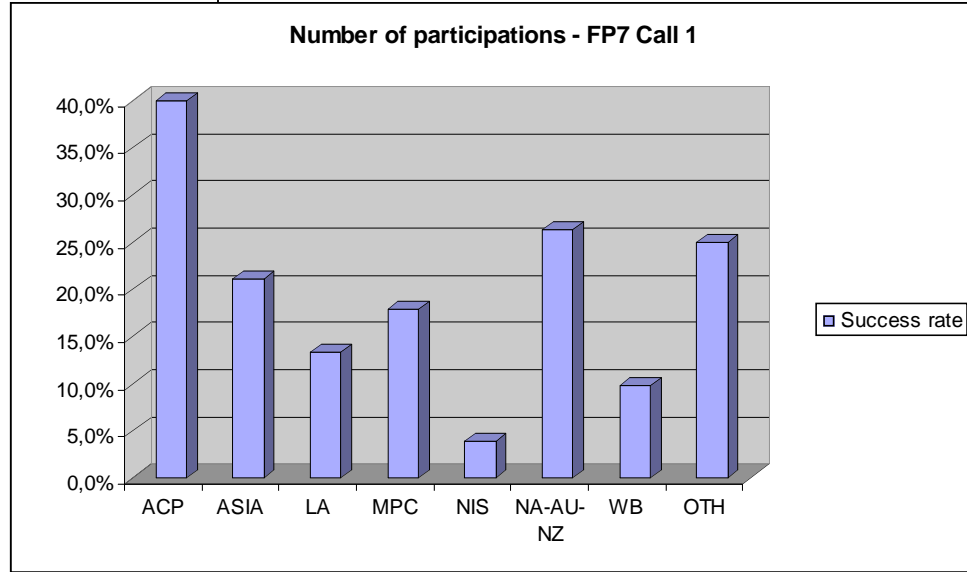
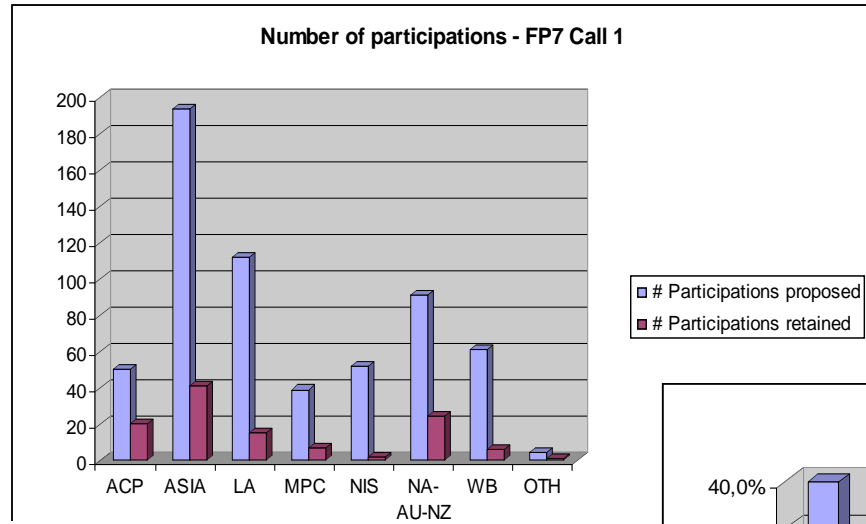


WP 2009-2010 finalised : Call 4 = 18/11/08 (850 M€)

# Status ICT/ FP7

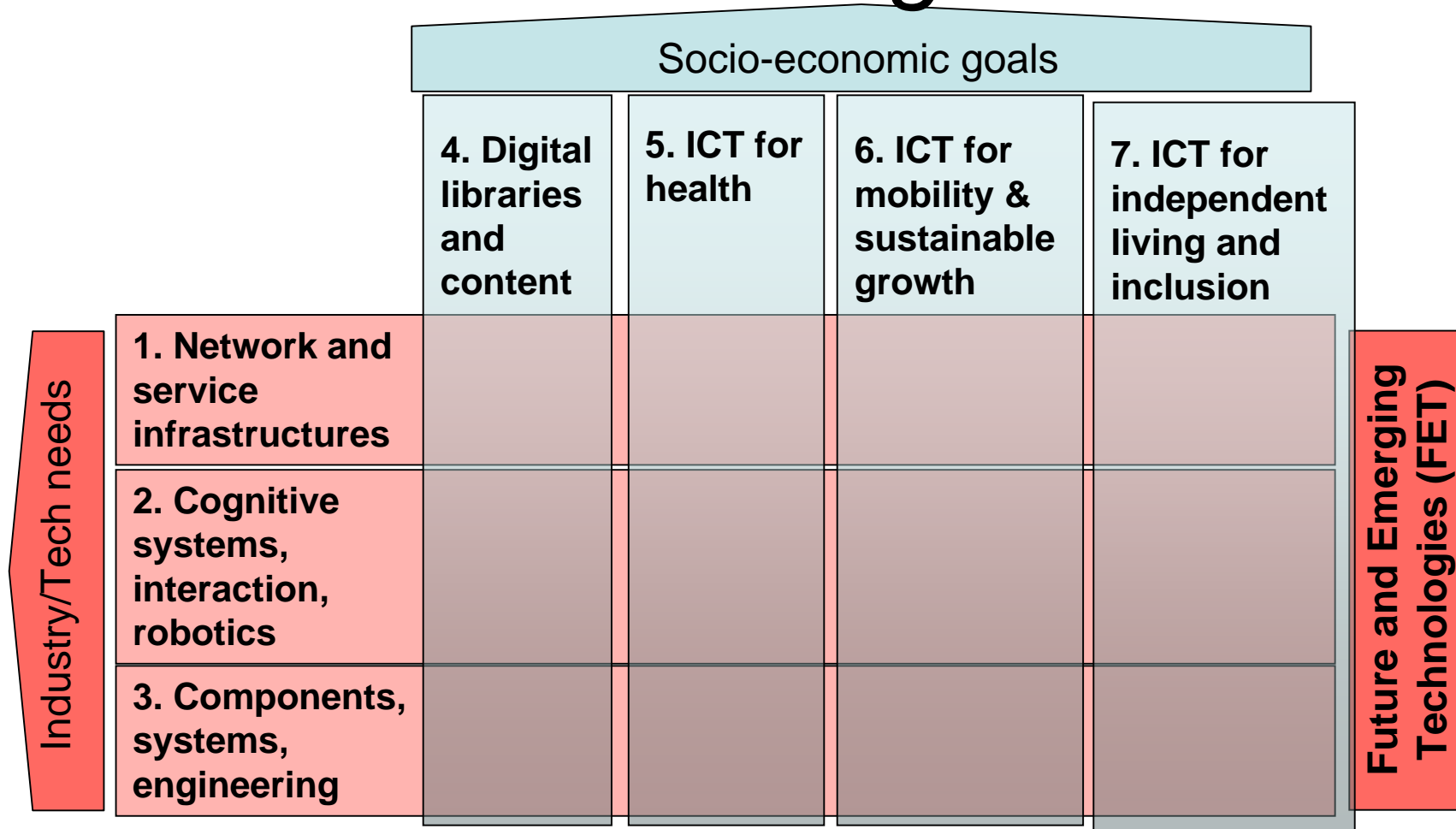
- Out of the 2 first Calls for Proposals (2008) : 31 retained participations from sub-saharan Africa (total for IST/FP6 was 16 from 2002-2007 !!), including
  - horizontal support actions : e.g. IST-Africa; Euroafrica-ICT
  - technology roadmaps initiatives : low-cost broadband access, low-cost laptops, mobile web technologies (DigitalWorld); open source software (FlossInclude); speech & language technologies (MEDAR)
  - research projects : e.g ICT for natural disaster prevention
- Increased participation on e-infrastructures (research and education networking; physical interconnection achieved between GEANT2 and the Uburnet network)

# ACP in FP7 so far



# Work Programme 2009-2010

## *Challenges*



## Call 4, Launch in Nov 2008, DL 01Apr09, ~800 M€

Challenge	Objectives
<b>Challenge 1: Pervasive and Trusted Network and Service Infrastructures</b>	ICT 2009.1.1 The Network of the Future ICT 2009.1.5 Networked Media & 3D Internet
<b>Challenge 2: Cognitive systems, interaction, robotics</b>	ICT 2009.2.1 Cognitive Systems and Robotics ICT 2009.2.2. Language-Based Interaction
<b>Challenge 3: Components, systems, engineering</b>	ICT 2009.3.2 Design of Semiconductor Components & Electronic-based Miniaturised Sys ICT 2009.3.3 Flexible, Organic and Large Area Electronics ICT 2009.3.4 Embedded Systems Design ICT 2009.3.6 Computing Systems ICT 2009.3.7 Photonics
<b>Challenge 5: Towards sustainable and personalised healthcare</b>	<del>ICT 2009.3.8 Organic Photonics and other Disruptive Photonics Technologies</del> ICT 2009.5.1 Personal Health Systems ICT 2009.5.2 ICT for Patient Safety ICT 2009.5.4: International Cooperation on Virtual Physiological Human
<b>Challenge 6: ICT for mobility, environmental sustainability and energy efficiency</b>	ICT 2009.6.1 ICT for Safety and Energy Efficiency in Mobility 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
<b>Challenge 7: ICT for independent living, inclusion and participatory governance</b>	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
<b>Future and emerging technologies</b>	ICT 2009.8.0 FET-Open (Batch 5&6) ICT 2009.8.1,2,3,9,10 FET-Proactive
<b>Horizontal support actions</b>	<u>ICT 2009.9.1 International Cooperation</u> ICT 2009.9.2 Supplements to support International Cooperation, ongoing projects ICT 2009.9.3 Other Horizontal Actions ICT 2009.9.4 : Strengthening cooperation in ICT R&D in an enlarged Europe

# Budget and Call planning:

## Draft

	<b>Budg M€</b>	<b>Call 4</b>	<b>Call 5</b>	<b>Call 6</b>
<b>1. Pervasive and Trustworthy Network and Service Infrastructure</b>	<b>557</b>			
1.1 The Network of the Future	<b>190</b>	110	80	
1.2 Internet of Services, Software & virtualisation	<b>110</b>		110	
1.3 Internet of Things and enterprise environments	<b>37</b>		37	
1.4 Trustworthy ICT	<b>90</b>		90	
1.5 Networked Media & 3D Internet	<b>80</b>	80		
1.6 Future Internet Experimental	<b>50</b>		50	
<b>2. Cognitive Systems, Interaction, Robotics</b>	<b>179</b>			
2.1 Cognitive Systems and Robotics	<b>153</b>	73		80
2.2. Language Based Interaction	<b>26</b>	26		

# Budget and Call planning: Draft

	<b>Budg M€</b>	<b>Call 4</b>	<b>Call 5</b>	<b>Call 6</b>
<b>3. Components, systems, engineering</b>	<b>375</b>			
3.1 Nanoelectronics Technology	<b>35</b>		35	
3.2 Design of Semiconductor Components	<b>25</b>	25		
3.3 Flexible, Organic and Large Area Electronics	<b>60</b>	60		
3.4 Embedded Systems Design	<b>28</b>	28		
3.5 Engineering of Networked Monitoring and Control	<b>32</b>		32	
3.6 Computing Systems	<b>25</b>	25		
3.7 Photonics	<b>60</b>	10	50	
3.8 Organic Photonics and other Disruptive Photonics	<b>30</b>	30		
3.9 Microsystems and Smart Miniaturised Systems	<b>80</b>		80	

# Budget and Call planning: Draft

	Budg M€	Call 4	Call 5	Call 6
<b>4. Digital Libraries and Content</b>	<b>188</b>			
4.1 Digital libraries and digital preservation	69			69
4.2 Technology-Enhanced Learning	49		49	
4.3 Intelligent information management	70		70	
<b>5. Towards sustainable and personalised healthcare</b>	<b>161</b>			
5.1 Personal Health Systems	63	63		
5.2 ICT for Patient Safety	30	30		
5.3 Virtual Physiological Human	63			63
5.4: International Cooperation on Virtual Physiological Human	5	5		
<b>6. ICT for Mobility, Env'I Sust. &amp; Energy Efficiency</b>	<b>154</b>			
6.1 ICT for Safety and Energy Efficiency in Mobility	53	53		
6.2 ICT for Mobility of the Future	37			37
6.3 ICT for Energy Efficiency	30	30		
6.4 ICT for Environmental Services & Climate Change Adaptation	24	24		
6.5: Novel ICT solutions for Smart Electricity Distribution Networks (Joint Call ICT-Energy)	10			

# Budget and Call planning: Draft

	<b>Budg M€</b>	<b>Call 4</b>	<b>Call 5</b>	<b>Call 6</b>
<b>7. ICT for independent living, Inclusion &amp; Participatory governance</b>	<b>73</b>			
7.1 ICT and Ageing	<b>24</b>	24		
7.2 Accessible and Assistive ICT	<b>34</b>	34		
7.3 ICT for Governance and Policy Modelling	<b>15</b>	15		
<b>Future and Emerging Technologies</b>	<b>171</b>			
FET-Open	<b>61</b>			
FET-Proactive	<b>110</b>	39	39	32
<b>Horizontal Actions</b>	<b>22.3</b>			
9.1 International Cooperation	<b>12</b>	7		5
9.2 Supplements to Support International Cooperation between Ongoing Projects	<b>1.3</b>	0.7		0.6
9.3 General Accompanying Measures	<b>4</b>	4		
9.4 : Strengthening Cooperation in ICT R&D	<b>5</b>	5		

# IST-Africa 2009 Call for Papers Republic of Uganda

6 - 8 May 2009

#### Thematic Priorities

- eHealth - Health Information Systems
- eInfrastructures
- Technology Enhanced Learning and ICT Skills
- Digital Libraries and Intelligent Content
- Open Source Software - Applications
- ICT for inclusion and accessibility
- ICT for Environmental Sustainability
- eFD and Networked Enterprise
- eGovernment - Services to Citizens & Business

#### Deadlines

- Online Submission Deadline: 28 November 2008
- Provisional Acceptance: 14 January 2009
- Submission of final Paper: 26 February 2009
- Presenter Registration: 1 March 2009

#### Submission of Papers

- Paper focus - Technical, Visionary, Business or Government Case Studies
- Papers must highlight Level of Innovation, as well as Actual or Expected Impact
- Papers must present either a Case Study, or Analysis of Initial or Final Research Results
- All Papers must be 4,000 - 5,000 words in length & use the IST-Africa Paper Template

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# How to get started? CORDIS

## <http://cordis.europa.eu/fp7/ict>

The screenshot shows a Microsoft Internet Explorer browser window displaying the CORDIS ICT homepage. The browser's address bar shows the URL <http://cordis.europa.eu/fp7/ict/>. The page features a navigation menu with links for 'Calls', 'Library', 'FAQ', 'Sitemap', and 'Contacts', along with a search box labeled 'Search ICTweb'. The main content area is titled 'Information & Communication Technologies' and includes a sidebar with links to 'Programme', 'Participating', 'Projects', and 'Newsroom'. The central text describes the ICT program's goals and lists three key areas of impact: productivity and innovation, modernisation of public services, and advances in science and technology. It also provides information on downloading the 'ICT Work Programme 2007-08' and EU funding for ICT research. A 'What's New?' section on the right lists recent updates, including 'ICT Call 1 and FET Open Call now open' and 'FP7 Information Days'. The Windows taskbar at the bottom shows several open applications, including 'Inbox - Micr...', 'IST Confere...', 'Hyderabad ...', 'Call 1 Intern...', 'Cochin pres...', 'DG INFO In...', and 'CORDIS : IC...', with the system clock showing 16:58.

CORDIS : ICT : Homepage - Microsoft Internet Explorer provided by European Commission

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Mail Print Mail Stop Links

Address <http://cordis.europa.eu/fp7/ict/> Go Links

CORDIS Information & Communication Technologies

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Home

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Projects »  
Newsroom »

### ICT - Information and Communication Technologies

Information and Communication Technologies (ICT) are critical to improve the competitiveness of European industry and to meet the demands of its society and economy.

**ICTs have a catalytic impact in three key areas:**

- **productivity and innovation**, by facilitating creativity and management;
- **modernisation of public services**, such as health, education and transport;
- **advances in science and technology**, by supporting cooperation and access to information.

**Download the 'ICT Work Programme 2007-08'**

The final version of the Work Programme for ICT research in FP7 for 2007 and 2008, as agreed by the Programme Committee, is now available for downloading:

[ICT FP7 Work Programme](#) (PDF, 479KB)

**EU funding for the advancement of ICT**

The objective of ICT research under the EU's Seventh Framework Programme (FP7) is to improve the **competitiveness of European industry** – as well as to enable Europe to master and shape the future developments of these technologies so that the **demands of its society and economy** are met.

[Download 4-page overview of ICT in FP7](#) (PDF, 172KB)

The EU Member States have earmarked a total of **€ 9.1 billion for funding ICT** over the duration of FP7; making it the largest research theme in the Cooperation programme, which is itself the largest specific programme of FP7 (with 64% of the total budget).

**What's New?**

- » [ICT Call 1 and FET Open Call now open](#)
- » [Information Day, Cologne, 1/2/07](#)
- » [FP7 Information Days](#) (PDF, 44KB)
- » [Registration of Experts for Research Activities](#)

**Newsroom**

- » [eHealth Week Berlin 2007](#)
- » [Competition: Commission calls on Luxembourg to comply with Court judgment to simplify access to telecommunication markets](#)
- » [The internet and other](#)

Done Internet

start | Inbox - Micr... | IST Confere... | Hyderabad ... | Call 1 Intern... | Cochin pres... | DG INFO In... | CORDIS : IC... | DE | 16:58

# Thank You

