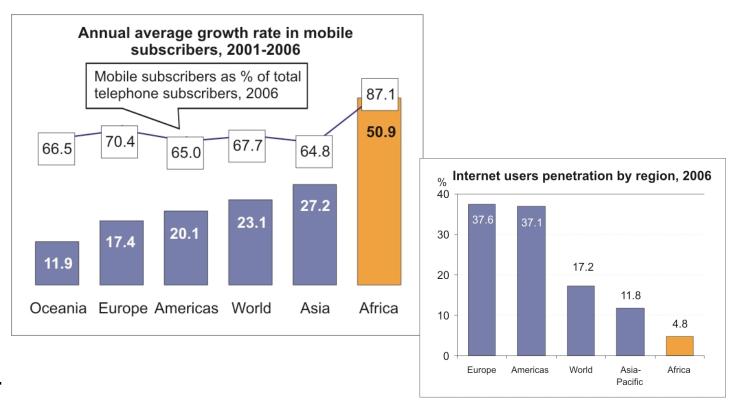


The mobile boom

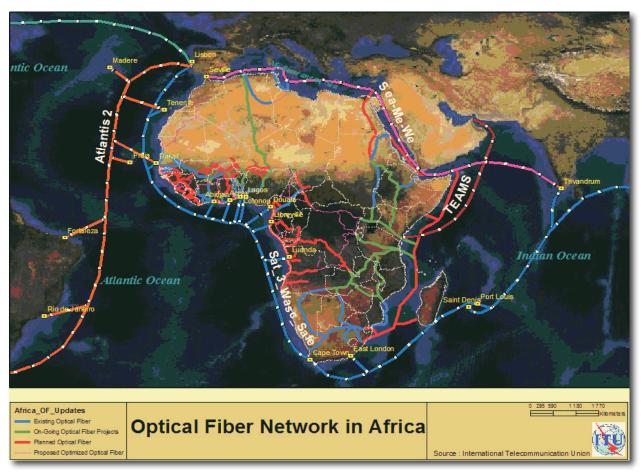
16 M subscribers 2000 to 198 M in 2006



But...

- internet users penetration of 4,8%
- broadband penetration below 1% (0,12% for sub-Saharan Africa), weak rural connectivity
- interconnection costs, prohibitively high tariffs, weak computer literacy, brain-drain

Deployment of ICT infrastructures



Need for hybrid solutions: fiber +broadband wireless (satellite/drones/WIMAX/HSDPA)

Need for a comprehensive dedicated approach (regulation, capacities)



Connect Africa Summit: Kigali, 29-30 October 2007

- Jointly organised by ITU, World Bank, GAID and EC
- Public-private partnerships : link business with development opportunities
- Collective committments of more than 55B\$ investments in the next 5 years
- WSIS connectivity targets brought forward 2012 instead of 2015



Both ICT and S&T lacked prioritization in the EU Development Programmes (EDF : European Development Funds/ EU = 60% of Africa's ODA)

- misconception: the devt of the Information Society can be left to market forces alone
- fragmented vs dedicated approach
- the « bread vs broadband » debate

Regarding the fragmentation of activities, 2 intra-ACP programmes have been adopted in EDF 9 :

- @CP- IT : 20 M€ for support to regulation and e-policies
- PSTICB : 35 M€ for Science,
 Technology Innovation and
 Capacity-Building

The EU-Africa Partnership on Infrastructures

- Officially launched last October
- 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 (initial 100 M€ in grants from EC and MSs +260 M€ in loans from EIB)
- 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;





The EU-Africa Joint Strategy and Action Plan: changing relations

8 Partnerships to be implemented in 2008-2010

- Peace and Security
- *- Democratic Governance and Human Rights
- Trade and Regional Integration
- Millennium Developments Goals
- Energy
- Climate Change
- Migration, Mobility and Employment
- Science, Information Society and Space

http://ec.europa.eu/development/services/events/eu-africa-summit-2007



The EU-Africa Partnership on Science, Information Society and Space

- Science: support to the AMCOST Consolidated Plan of Action
- Information Society: support to ARAPKE (African Regional Action Plan for the Knowledge Economy)
- Space: specific projects based on space technologies to achieve regional and global development goals (environment, climate change, digital divide,...)

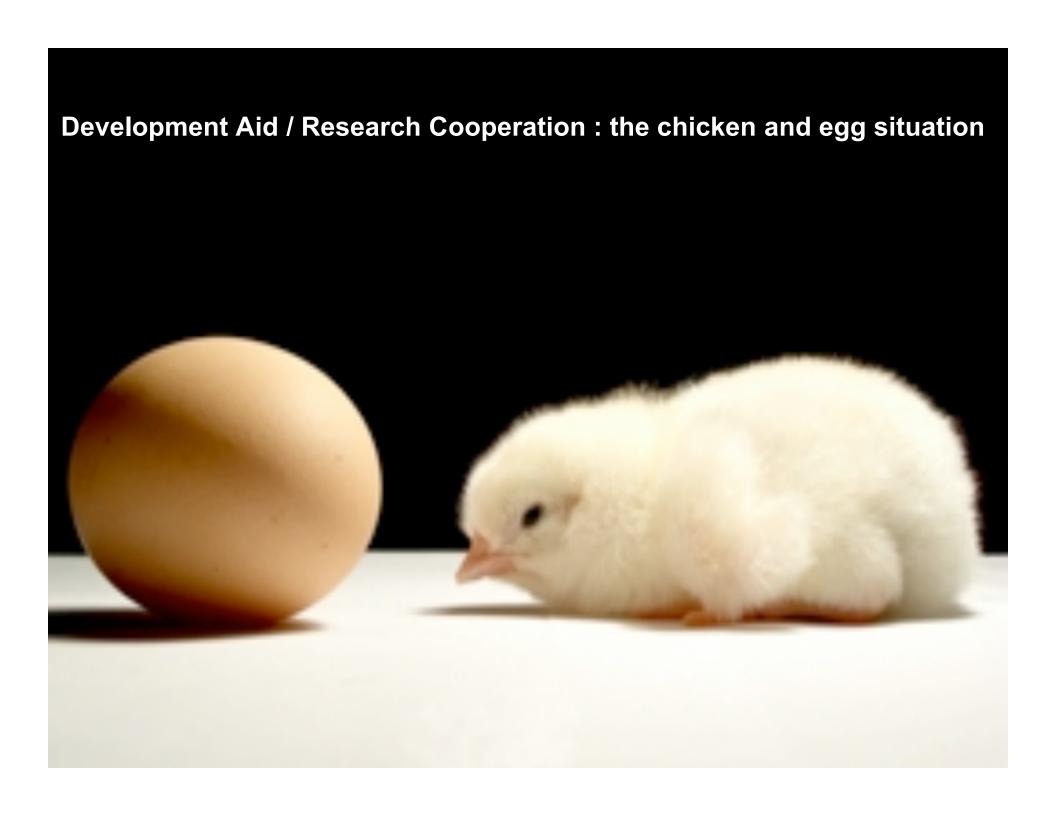
Focus on regional integration !!

Information Society Priority

Complement investments on infrastructures through support to key capacity-building initiatives :

- regulation / e-policies / indicators monitoring
- human resources (education, e-skills, professional training)
- development of local content and e-applications of high socio-economic impact (health, education, govt, trade)
- research and education networks / interconnection with GEANT

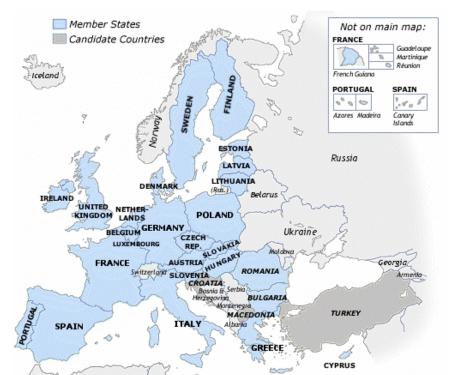
Need for a dedicated fast-track, public-private implementation mechanism : EC/AUC Monitoring + EU-Africa Business Forum



THE EUROPEAN RESEARCH AREA

ERA

- Integration of Member States R&D activities
- Increase in (business) R&D to 3% of GDP
- More strategic long-term oriented Framework Programme
 - Larger longer term more strategic projects
 - Mobilise critical mass of researchers / resources across EU
 - Leadership in key technologies for knowledge economy
 - With real benefits to business and citizens

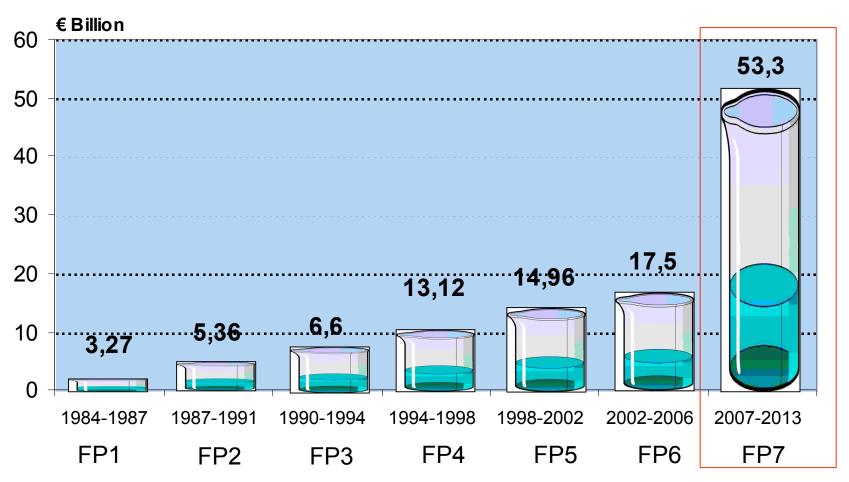


European Union : an Union of 27 Member States representing 493 million citizens

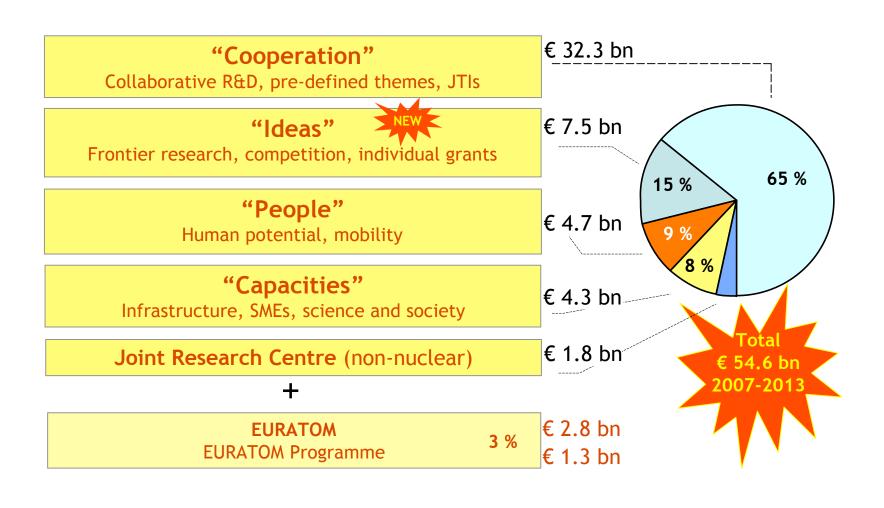
EU Framework Programmes for R&D

- on top and in addition to EU MSs national programmes
- around 6% of the TOTAL EU PUBLIC investment in R&D

...but STRONG INTEGRATION EFFECT!



FP7 Specific Programmes



FP 7 STRUCTURE









(2007-2013)

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

Health

Food, Agriculture and Biotechnology
Information and Communication Technologies 9,1B€

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

People – Marie Curie : 4,75B€

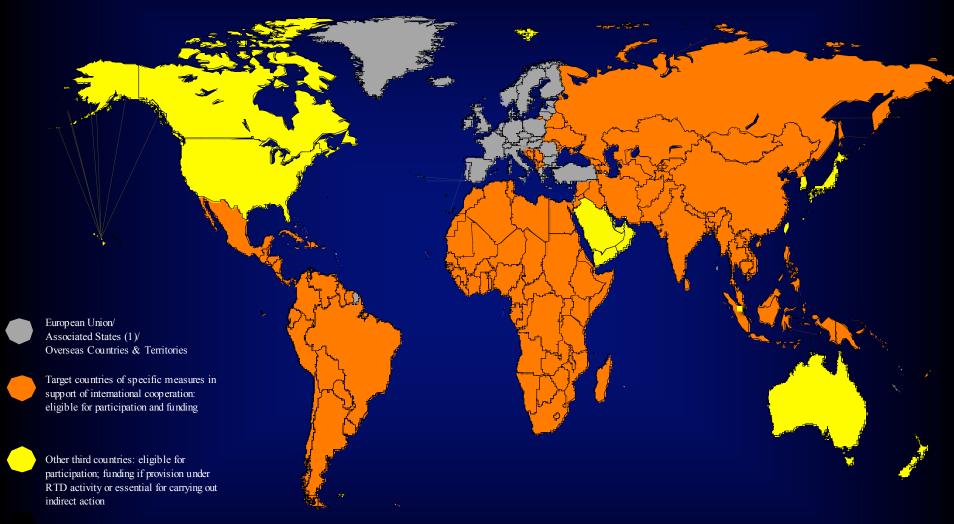
Ideas – European Research Council (ERC) : 7,5 B€

Starting Independent Researcher Grants

Advanced Investigator Grants

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

FP7 INTERNATIONAL DIMENSION



Besides investing in ICT and S&T capacities, the need to engage **in parallel** in actual collaborative research activities....

FP 7 is fully open to the participation of African organisations (fully eligible to receive community funding):

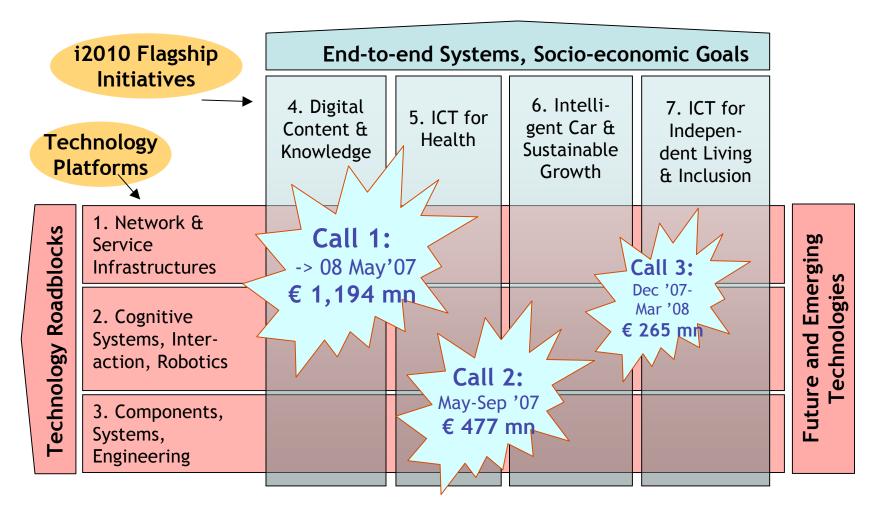
- horizontal/thematic support actions to promote cooperation (awareness/mapping activities: based on mutual priorities and interests
- INCO-net (CAAST-net) to coordinate EU MSs cooperation programmes with Africa

Cooperation Indicative Budget

Cooperation = 61% of total FP7 non nuclear budget	Budget (B€)	Budget (%)
1. Health	6	19%
2. Biotechnology, food and agriculture	1,9	6%
3. Information society (9,1 B€)		29%
4. Nanotechnologies, materials and		
production	3,5	11%
5. Energy	2,3	7%
6. Environment	1,8	5,5%
7. Transport	4,1	12,5%
8. Socio-economic research	0,61	2%
9. Security	1,4	4,5%
10. Space	1,4	4,5%
Total	32.1	

incl ITER & Nuclear but n ot including non -nuclear activities of the Joint Research Centre

ICT Work Programme 2007-08



WP 2009-2010 currently in preparation

European Technology Platforms

A spiral model of innovation capitalising on the multiple reciprocal relationships between public & private stakeholders at various knowledge stages



31 European Technology Platforms launched so far (9 in ICT):

- Addressing major technological challenges in specific domains
- Aiming to leverage public & private investment for R&D & innovation
- Involving key R&D stakeholders
 - eg industry, the research community & public authorities
- Bundling fragmented R&D efforts towards agreed goals
 - Vision 2020 document & Strategic Research Agenda

cordis.europa.eu/technology-platforms

European Technology Platforms. A staged approach

Stakeholders, led by industry, come together to agree a common vision for the technology



Stakeholders,
define a Strategic
Research Agenda
setting out the
necessary medium
to long-term
objectives for the
technology



Stakeholders, implement the Strategic Research Agenda with the mobilisation of significant human and financial resources.

- Bottom-up process with keys stakeholders in a specific domain
- Key deliverable: Strategic vision document

- Co-ordinated by an Advisory Council
- Consensus-based
- Deployment strategy

- Through collaborative research in FP7 & with other resources, or
- Through a Joint Technology Initiative which integrates funding sources



Advanced research & technology in embedded intelligence & systems

- To develop & drive a joint European strategy in embedded systems
 - R&D, educational and structural issues addressed
- To align fragmented R&D efforts along a common strategic agenda at European level
- To benchmark & link with relevant initiatives outside Europe

www.artemis-office.org

8 of the 25 topranked European companies are members ...



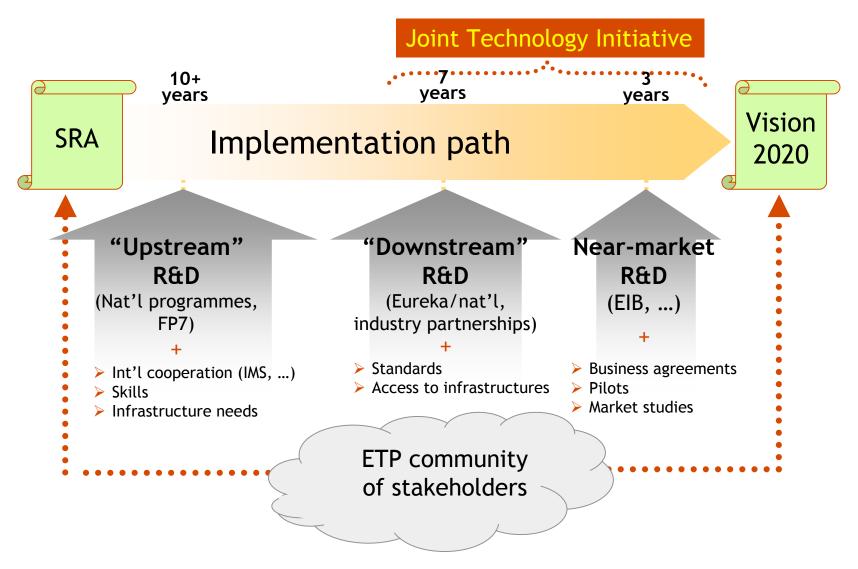








Joint Technology Initiatives A way to implement a Strategic Research Agenda



FP 7 STRUCTURE







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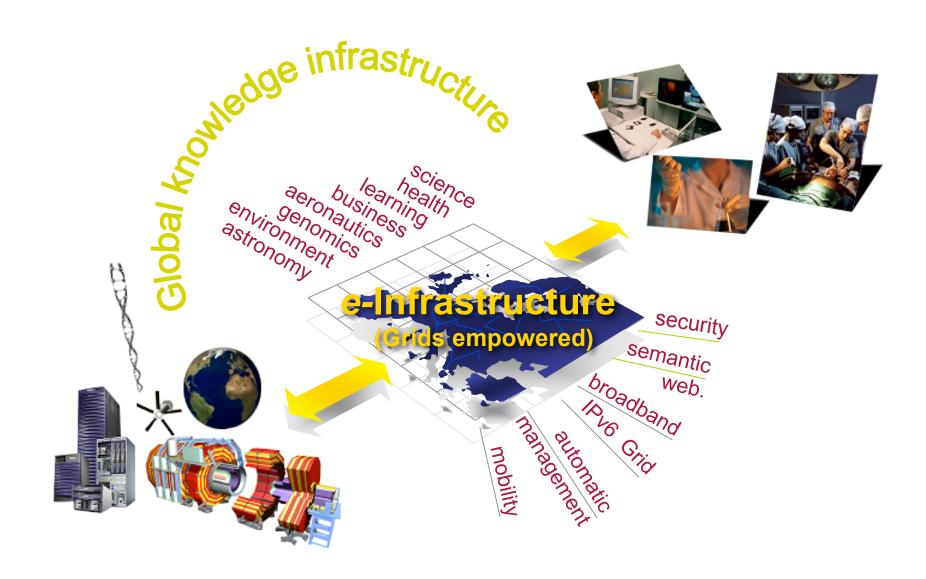
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Vision - creating an *e***Infrastructure...**



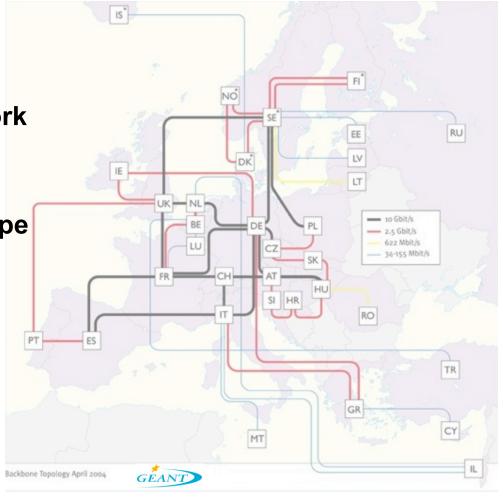
GEANT The European broadband Research network

World leading Research Network

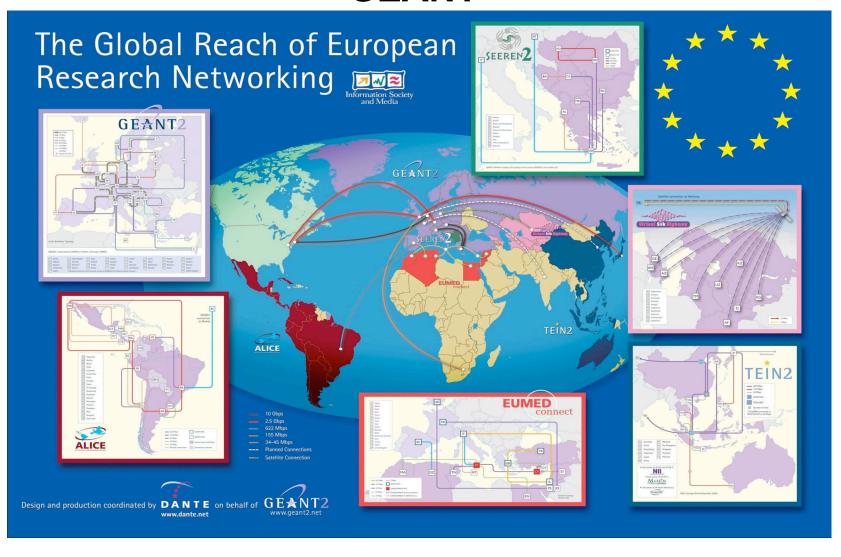
Connecting more than 3900
 Universities and R&D centers

Over 43 countries across Europe

- Speeds of up to 10 Gbps
- Exploiting the benefits of dark fiber
- IPv6 enabled, support to Grid
- Global connectivity



Research and Education Networks : GEANT



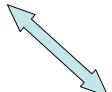
Feel like moving things ahead ?...Get involved!

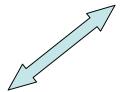


www.euroafrica-ict.org

2 running and very active support actions to promote cooperation with Africa







The « EuroAfrica-ICT network »

Short term PROPOSE!

Middle term INFLUENCE!

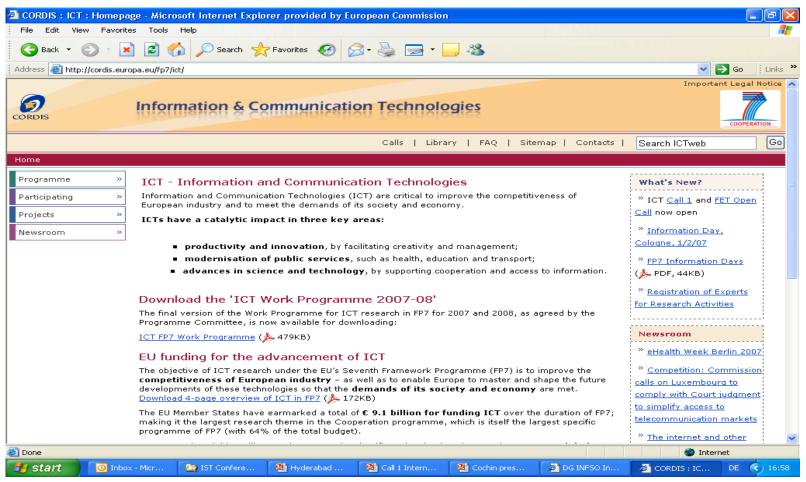
Critical need of **COORDINATION**, both at EU and African levels

IST AFRICA 2008, 7-9 May 2008 Windhoek

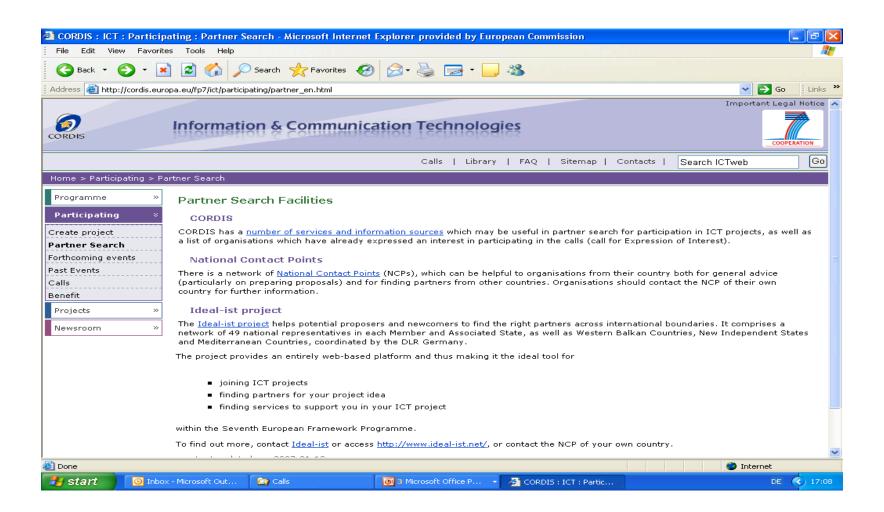


www.ist-africa.org

How to get started? CORDIS http://cordis.europa.eu/fp7/ict



How to get started? Partner search



Register as independent expert for evaluation and project reviews

http://www.cordis.europa.eu/emmfp7

Questions/ Infos : thierry.devars@ec.europa.eu

