

## SYNCHRONISER & Euro-India SPIRIT: ICT cooperation recommendations

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### SYNCHRONISER & Euro-India SPIRIT objectives

- Boost the impact of the **ICT policy dialogue** by involving EU-India scientific and research community
- Provide recommendations for future co-operation initiatives and identify **co-funding opportunities**
- Identify **medium and long term research perspectives** to generate shared horizons of Joint ICT research
- Enhance research participation in **Framework Programme**

## SYNCHRONISER – Recommendations

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### SYNCHRONISER Steering Committee (SSC)

- **SYNCHRONISER Steering Committee** - platform of elite researchers and industry stakeholders from EU & India
  - To identify challenges & research priority areas
  - Make recommendations for precise research paths and actions for improving EU-India collaboration
- SSC consists of 10 experts: 5 experts from EU and 5 experts India
- Four ‘Think Tank Meetings’ during the project period






## SSC list of research priorities



### Research priorities - new and future technologies:



-  IPv6
-  Internet of things
-  Smart grids
-  Satellite communications
-  GNSS – Galileo
-  Security, Privacy and Monitoring
-  DNS Security
-  Digital Preservation
-  Cloud computing
-  Sensor networks
-  Intelligent Transport Systems
-  Spectrum efficiency

## SSC list of research priorities

### Research answering societal issues - common issues with localized needs:

-  Teleducation
-  E-health
-  Multimedia and language technologies
-  Sustainable energy
-  EU-India Regulation and standardization

 	
<b>Long Term Recommendations</b>	
<b>Recommendations</b>	<b>Proposed Action</b>
<b>Address ISTAG Group</b>	Brief to ISTAG on the potential for cooperation with India, as a significant part of the overall EU FP7/ Horizon 2020 strategy on international cooperation
<b>Involve Indian experts in ISTAG related activities</b>	Search on the mechanism which would allow Indian experts to get involved in the relevant bodies shaping priorities and strategic directions of the FP7/Horizon 2020.
<b>JWG Action Group</b>	The Action Group would be a executive body/ office to undertake the decisions adopted by the JWG The form could be flexible (nomination of officers by EU and India, Support Project, Tenders, ... Etc.).

 	
<b>Mid Term Recommendations</b>	
<b>Recommendations</b>	<b>Proposed Action</b>
<b>Joint Calls</b>	Produce research content and make proposal on specific research items to be prioritized for such Calls Analyse Energy and Biotechnology co-funding (between EC & DST)
<b>Co-funding model/ program</b>	Co-funding Model for DIT/EU: based on existing EU-Brazil, EU-Russia, & Initiate co-funding program focused on one/two thematic areas
<b>Detail research road-mapping for EU-Indian research cooperative projects</b>	Elaborate specific road-map for research, priorities, funds, timing. Make emphasis on supporting the proposal preparation and more technically driven Info Days in India.
<b>Collaboration with ETPs Initiatives</b>	Launch the Indian Technology Platform Channel. This tool could be horizontal to All ICT related ETPs in order to bring the Indian flavor to the debates within the ETPs initiative.

 	
<b>Short Term Recommendations</b>	
<b>Recommendations</b>	<b>Proposed Action</b>
<b>Website</b>	Elaborate specific website with content oriented to motivate Indian interests in Horizon 2020
<b>Directory of EU Partners - India Channel</b>	Elaborate a comprehensive report on the EU interests to research in cooperation with India. The Indian channel could be an ICT-wide channel.
<b>Workshops in India – Project ideas</b>	Organization of meetings among EU and Indian researchers on specific fields. Follow models of other projects and get involvement from EC Officers.
<b>Training – Coaching on FP</b>	Specific coach team to elaborate a practical FAQs doc addressing international cooperation and Indian case. Organize workshops with relevant Indian researchers. Set resources from EU and India to carry out the Training programmes: empower EU delegation in India with addition of specific expertise on the FP7. Refer to the Brazilian case where ICT EC expert in based in Brazil to enhance the cooperation.
<b>'Push approach'</b>	Identifying 'Keywords' corresponding to Indian priorities that can be inserted within the text of Calls. Insert 'India' as target International Cooperation in identified FP objectives

 	
<h1 style="color: #0056b3;">Euro-India SPIRIT Recommendations</h1> <p style="text-align: right; color: #e67e22;"> <b>Tom Williamson</b>  <b>European Research Consortium for  Information and Mathematics (ERCIM)</b>  <b>Project Coordinator</b> </p>	

## Euro-India SPIRIT methodology

- Working Group comprised of 18 renowned ICT experts, 9 each from the EU and the Republic of India
- Experts have deliberated over 4 meetings in the past 24 months
- Recommendations focused on six key technological areas
  - Future Networks
  - Trustworthy ICT
  - Cloud Computing
  - Networked Media & Future Internet
  - eInclusion
  - ICT for Public Services

## Future Networks

- Next gen. wireless communication systems including radio transmission paradigms and system designs
- Flexible spectrum usage for mobile broadband
- New/novel radio network topologies
- Ubiquitous fast broadband access
- Architectures for resilient and flexible networks

## Trustworthy ICT

- 🌐 Usable security in the mobile world
- 🌐 Large scale data security arising out of data storage, data privacy and data retention
- 🌐 ID management incl. mobile IDs to support financial transactions
- 🌐 Data liability and governance policies

## Cloud Computing

- 🌐 Intelligent and autonomic management of cloud resources
- 🌐 Scalable data management strategies
- 🌐 Infrastructure virtualisation, cross platforms execution
- 🌐 Interoperability between clouds
- 🌐 Mobile, context-aware applications
- 🌐 Energy efficiency and sustainability

## Networked Media and Future Internet

- **eGovernment incl. use of HTML5 to access administrative forms in secure mode**
- **eEducation, with an emphasis on producing interactive content accessible on any devices**
- **eInclusion; access for any citizen to daily information and support**
- **eTourism**

## eInclusion

- **Advanced ICT solutions including social, affective and persuasive computing for empowerment of those at risk of social exclusion**
- **Smart, customised and personalised information across those groups**
- **Personalisable assistive solutions optimized for low bandwidth access**



## ICT for Public Services

- **Behavioural and contextual research**
- **Role of Social Networks in eGovernment**
- **Policy modelling, best practices**
- **Research methodologies for testing and evaluating EGovernment**
- **Optimising for cloud computing**
- **Provision of proper privacy protection and authentication**

**Thank you for your kind attention!**

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