



BUILDING International Cooperation  
for Trustworthy ICT

**BIC India-EU Cooperation Workshop**  
**E-India 2011, Gandhinagar, India**  
**16<sup>th</sup> September 2011**

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# My presentation agenda

- Purpose and Goals of the BIC India - EU – India
- Outline scope of the EU FP7 BIC project (Building International Cooperation in Trustworthy ICT [1])
- BIC objectives
- BIC process and work already underway with India
- BIC Timeline and events held already
- BIC Objectives for next few years
- How BIC can help You and You can help BIC

[1] project within European Commission's DG-INFOS  
Unit 'F5' ICT Trust and Security Research

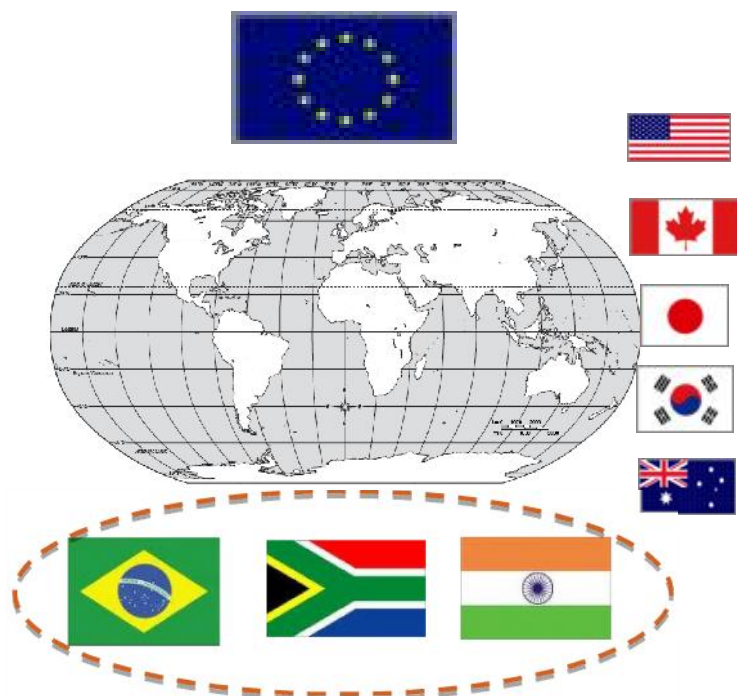


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# BIC: Building International Co-operation for Trustworthy ICT



- Identify EU & international t&s challenges
- Identify global trust and security challenges
- Facilitate collaboration fora
  - funding calls/EU mechanisms info.
  - people/partner linkages
  - funding organization linkages
  - guidance on developing sustained longer-term EU collaborations
- Collaborative “EU + external” technology solutions AND with country specific scenario and needs-based customizations

European Commission  
DG-INFOS Unit F5: Trust and Security  
Coordination Action  
Jan 2011-Dec. 2013

<http://www.bic-trust.eu/>

# Purpose and Goals

- Understanding the critical issues;
- Identifying promising trust and security research directions in each country;
- Foster collaboration between the EU and India research teams.



# Project Core Objectives

- **Development of a strong long term EU engagement with India, Brazil and South Africa for the areas of Trust, Security & Privacy;**
- **Strong interactions with program management / funding and research organizations to ascertain the potential interest and areas to develop meaningful cooperation;**
- **Establishment of an International Advisory Group (IAG) and working groups in order to build a truly global community comprised of both members from funding agencies and research communities;**



# BIC process

- At programme level – funding agencies
  - Identify the counterparts with EC Unit F5
    - <http://cordis.europa.eu/fp7/ict/security/>
  - Identify the areas of funding in India and map to F5
  - Identify International Advisory Group (IAG) member(s) for longer term global strategy amongst EU and other countries
- At researcher level – research communities working on the topics
  - Identify counterparts in the research community carried out like-minded research into Working groups
  - Identify select IAG members for longer term global strategy
  - Brainstorm and prioritise research topics of mutual benefit
    - Done on bi-lateral basis first and then with other countries via Annual Forum and working groups.



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## Potential India - EU trust and security topics (1/2)

- **Trust, Security and Privacy in mobile environments**
  - EU and India researchers have different yet complimentary perspectives on the research involved in the accessibility and realisation of mobile services esp. in rural areas.
- **Identity management (eg. UID, privacy protecting ID systems)**
  - biometrics – can we work together on low cost, less power intensive equipment providing the required accuracy
  - Authentication – strong work in India and EU
- **International Data Exchange for Cybersecurity**
  - Secure data exchange and sharing for analysis
  - CERTs working well together
- **Protection against malware when there is a heavy reliance on imported systems**
  - Approaches to guarantee protection at source
  - Is there a way to influence the manufacturing process?



## Potential India - EU trust and security topics(2/2)

- **Strong societal push in both EU and India**
  - putting citizens in control of their data. How can technologies provide this control to citizens?
  - needs strong link between social scientists and technologists
  - How to deal with conflicts between the "right to info", "access to personal data", "updating the data" and right-to anonymity (be forgotten).
- **Balance between strong security tools and efficiency and effectiveness**
  - Security with flexibility
  - building cost effective, tailor made, indigenous security products that compete for export market
- **Risk management approaches to trust and security**
  - Economics of security and privacy
  - Trade-offs between risk and security: what does it cost society?





# Trust and Security coverage areas in the EU

via FP7-ICT Call 8: Trustworthy ICT (17/1/2012)\*\*

## Heterogeneous networked service and computing environments

*Architectures, protocols, Future Internet, Virtualization, Metrics, Enabling Technologies...*

## Trust, identity and Privacy management infrastructures

*Trust Assurance, Privacy Infrastructures, ID Mgmt, Usability...*

## Data policy, governance and socio-economic ecosystems

*Security/Trust policies, Security Governance, Trust Management...*

## Networking and coordination activities

*User Support, Standardization, Testbeds, Research Coordination...*



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\*\*Will be funded via EU Commission Unit  
F5

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



# EU-India Interests Mappings

## Heterogeneous networked service and computing environments

*Mobile Connectivity & Services...broadband drivers  
Protection against malware when reliance on imports*

## Trust, identity and Privacy management infrastructures

*Usable Mobile Security ...  
Privacy protecting ID management systems*

## Data policy, governance and socio-economic ecosystems

*Trust Management for techno-socio-business ecosystems for emerging economies  
Strong societal push in India and EU*

## Networking and coordination activities

*International Data exchange architectures for cybersecurity*



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# BIC Timeline Year 1



Category 1. Charting landscape by country

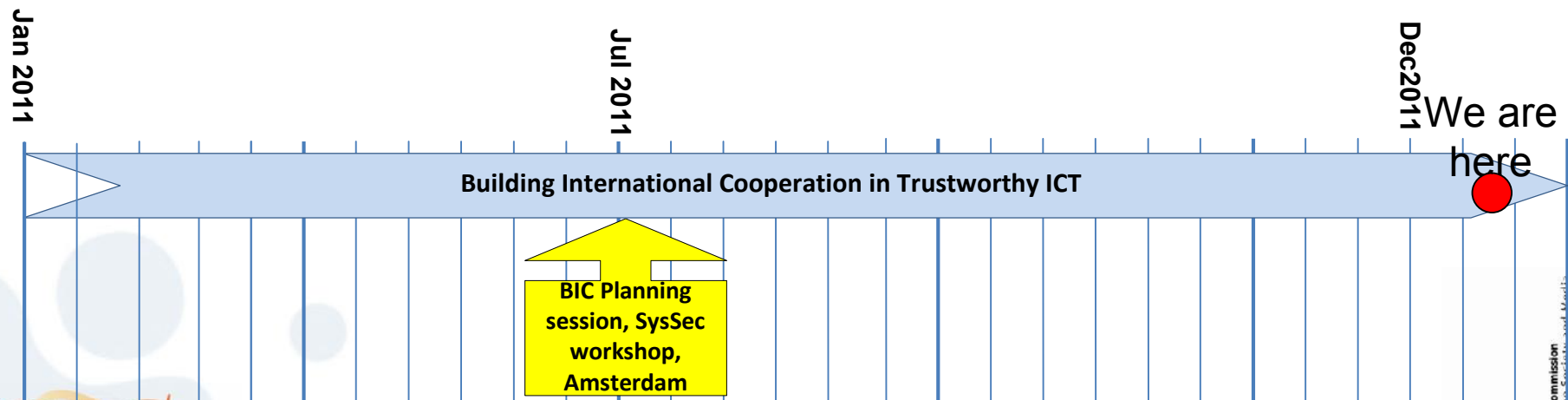


Category 2. Open Forums

# BIC Timeline Year 1

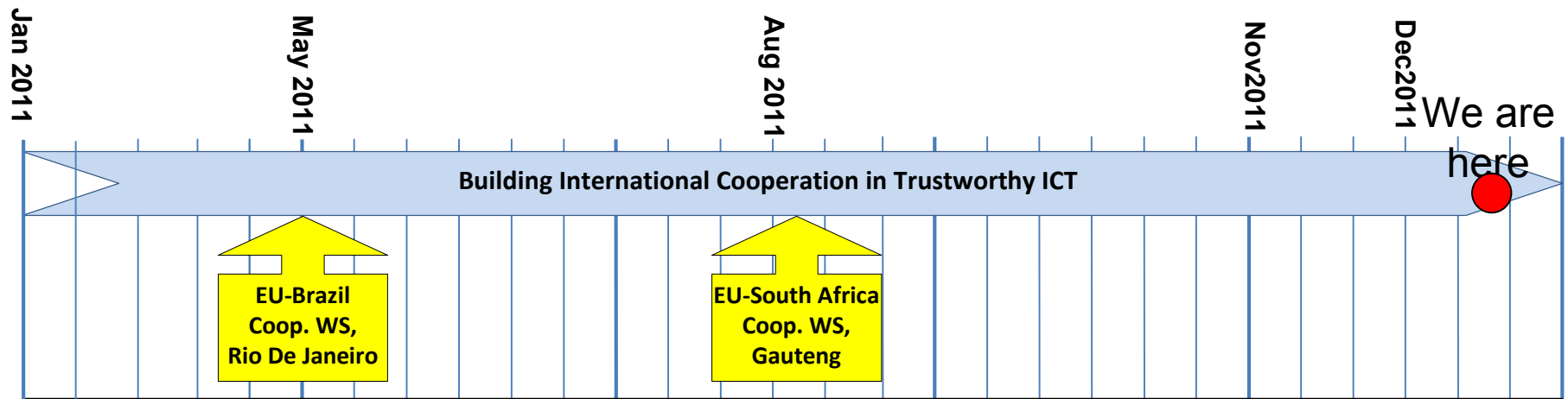


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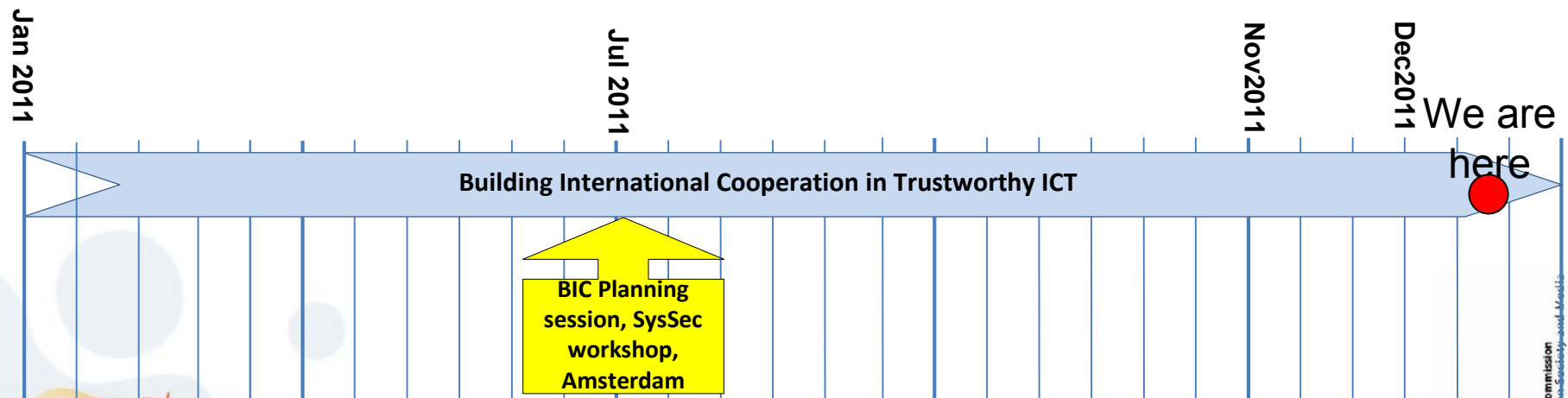


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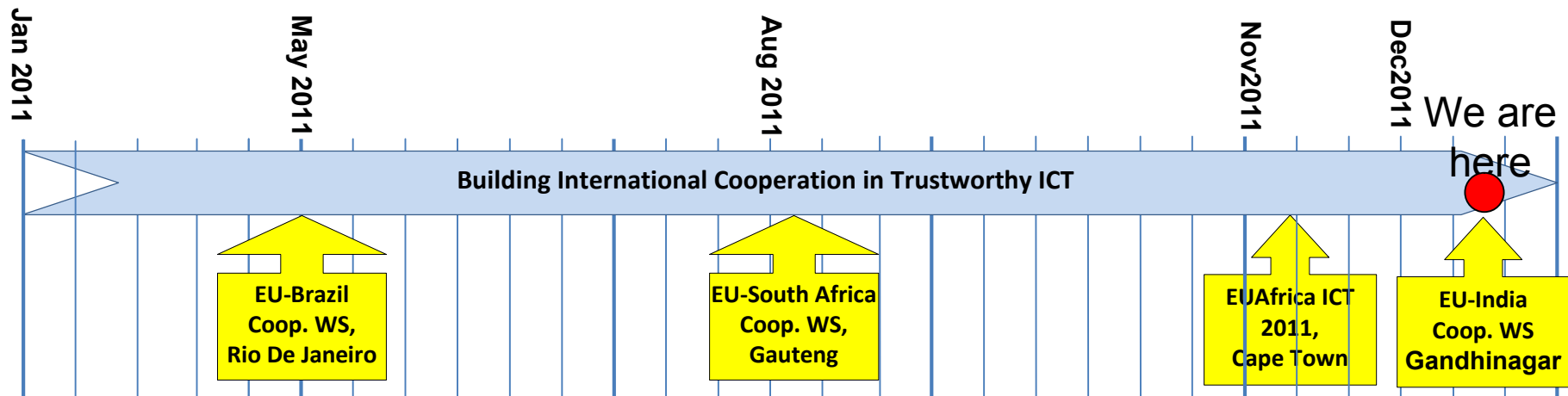


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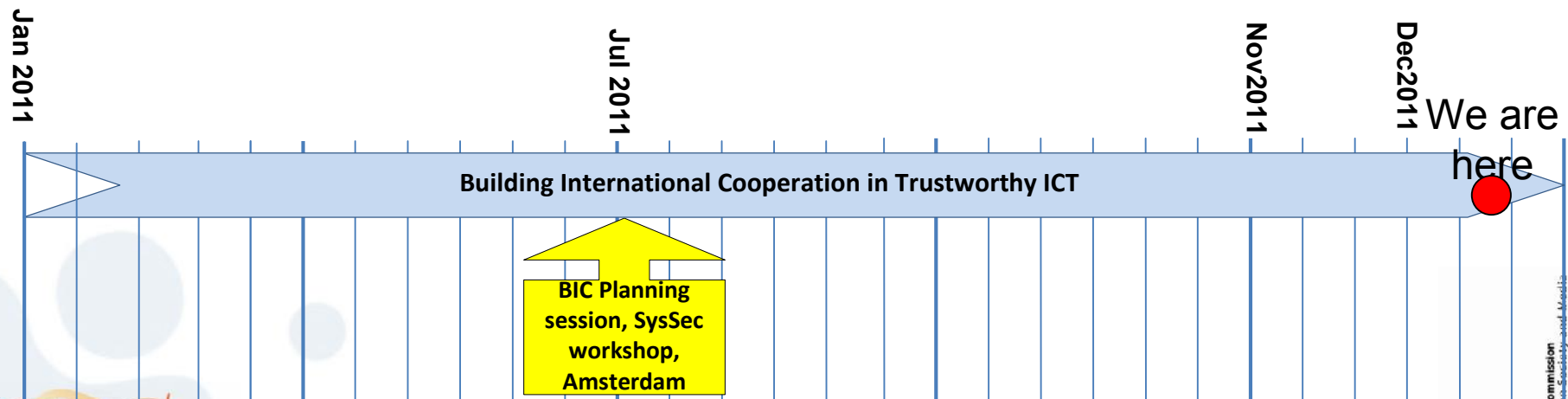


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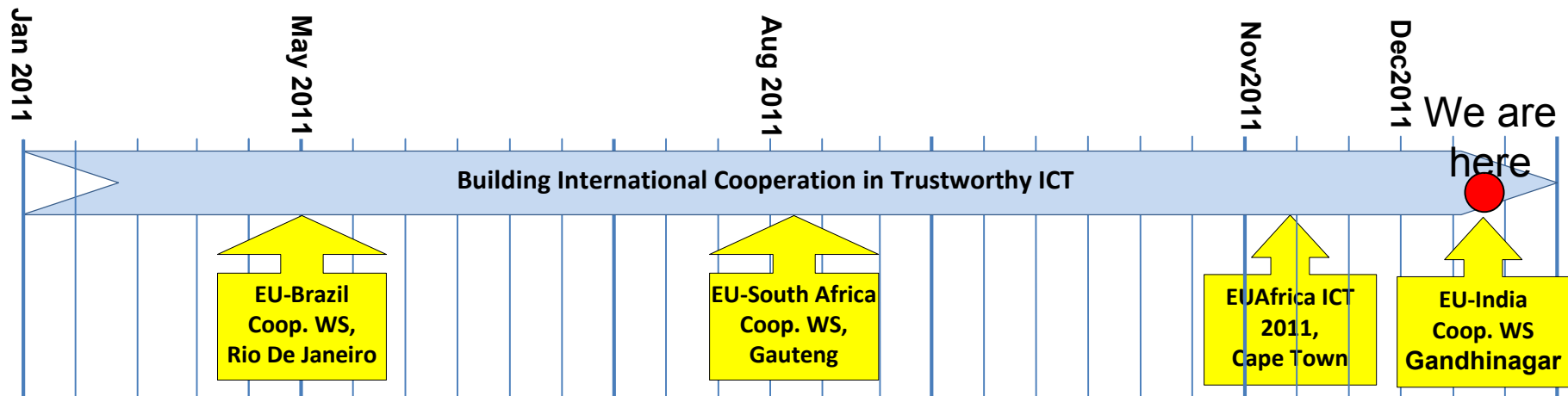


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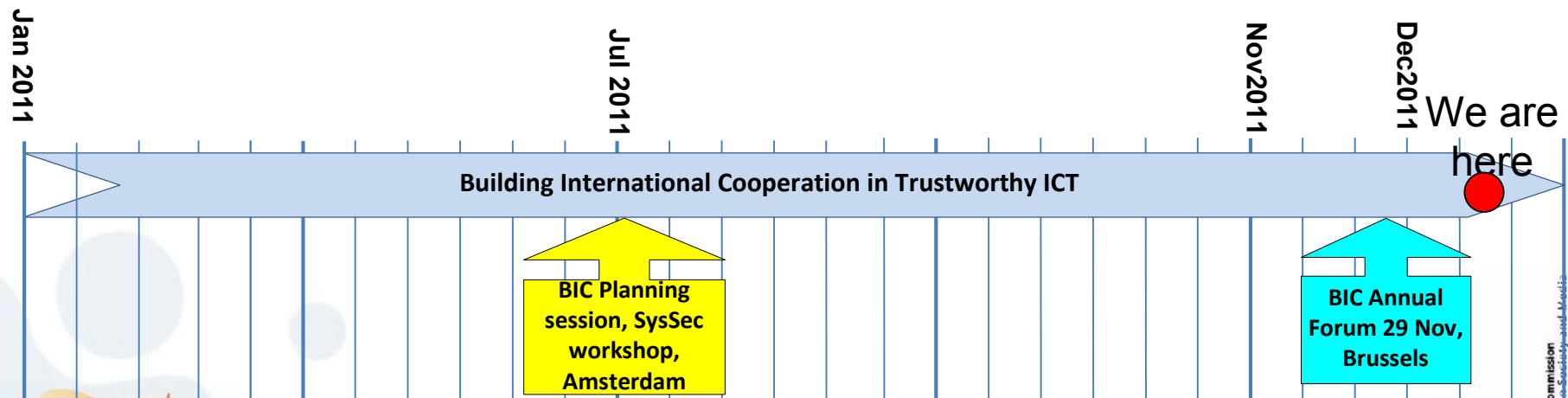


Category 2. Open Forums

# BIC Timeline Year 1



Category 1. Charting landscape by country



Category 2. Open Forums



# BIC Time Line Year 1

- Category 1. Charting the landscape by country
  - EU – Brazil Cooperation workshop (May '11 along with IWT 2011)
  - EU – South Africa 16<sup>th</sup> August 2011 (along with ISSA 2011)
  - EU – South Africa BIC session at EUAfricaICT 2011
  - **\*\*We are here\*\*** EU – India 16<sup>th</sup> Dec. 2011 along with eINDIA 2011
- Category 2. Open Forums
  - BIC planning session at the SysSec workshop 6<sup>th</sup> July 2011
  - **\*\*Just past\*\*** BIC Annual Forum, 29<sup>th</sup> November 2011
    - building topics of common interest with countries
- Category 3. Other programme related activities
  - Involvement in EU Future Internet Assembly (FIA)
  - Involvement in the EU Technology Platforms NESSI, NEM, Net!Works, .....
- See <http://www.bic-trust.eu/events/> for reports

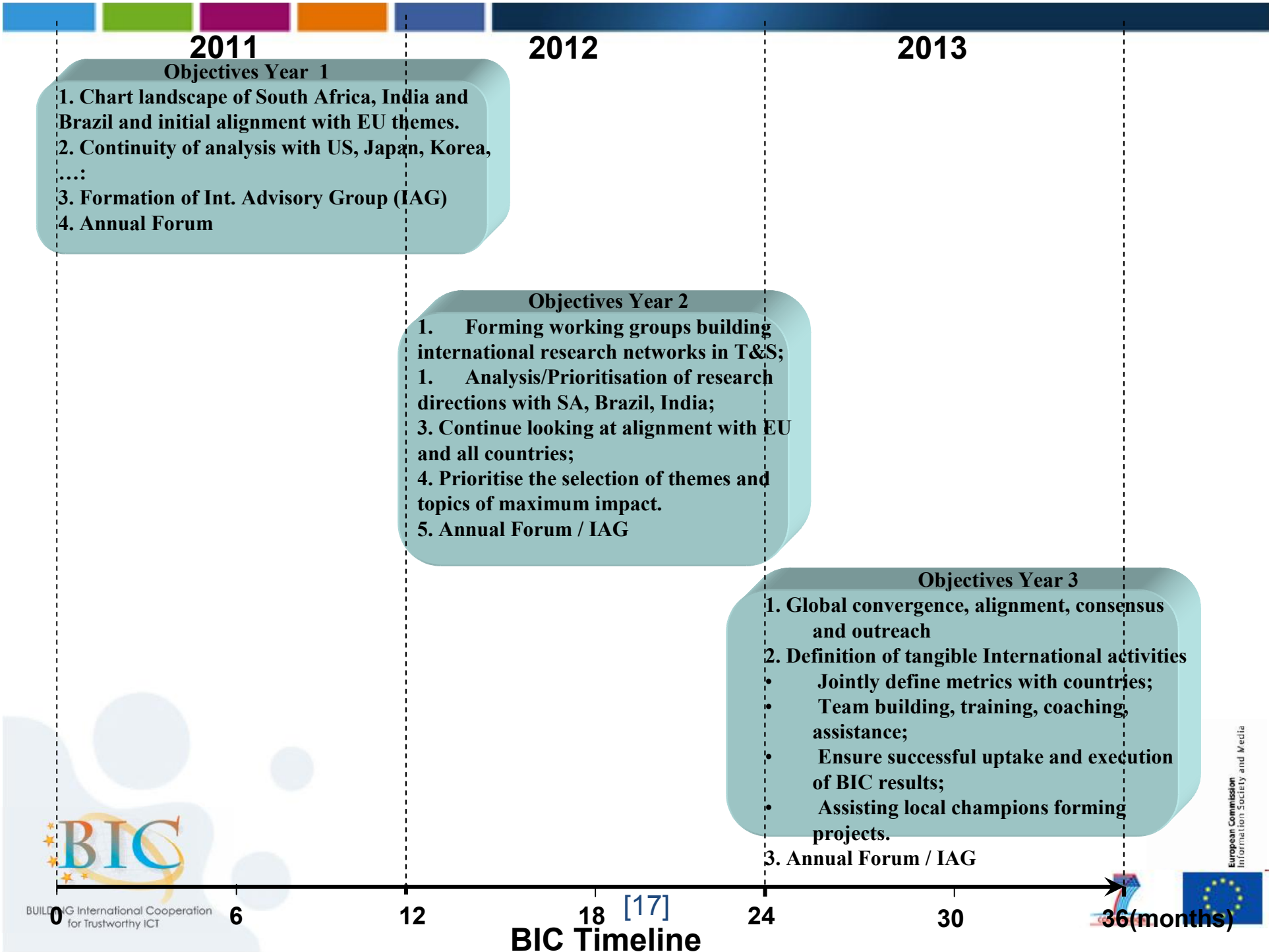


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# Objectives Year 1 (2011)

- **Chart landscape of India, South Africa, and Brazil and initial alignment with EU themes.**
- **Continuity of analysis with US, Japan, Korea, ....:**
- **Formation of International Advisory Group (IAG)**
- **Annual Forum**



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# Objectives Year 2 (2012)

- **Forming working groups building international research networks in Trust and Security;**
- **Analysis/Prioritisation of research directions with South Africa, Brazil, India;**
- **Continue looking at alignment with EU and all countries;**
- **Prioritise the selection of themes and cooperation topics of maximum importance and impact;**
- **Annual Forum 2012 Q4 2012**

# Objectives Year 3 (2013)

- **Harmonising results of the WGs**
- **Global convergence, alignment, consensus and outreach**
- **Definition of tangible International activities**
  - **Jointly define long term strategy including metrics with countries;**
  - **Team building, training, coaching, assistance;**
  - **Ensure successful uptake and execution of BIC results;**
  - **Assisting local champions forming projects.**
- **Annual Forum**



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## How BIC can help you

- BIC can help you to learn more about the potential for collaboration in FP7 and beyond
  - **Note: call 8 deadline is Jan. 17<sup>th</sup> 2011**
- BIC can provide a window into the Trust and Security research communities in Europe (and beyond)
- BIC can help you map and match your research interests to other countries communities
- BIC can facilitate networking activities for trust and security researchers
- BIC can enable your voices to be heard to the wider trust and security community.

## How You can help BIC

- You can participate in the BIC working groups formation
- You can provide feedback to the work already done and the structuring of BIC future work
- You can provide BIC with information about how the funding mechanisms work in the trust and security research areas that you are already engaged and how they approach international cooperation
- You can participate to our events raising their impacts.



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## Please contact Us!

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