



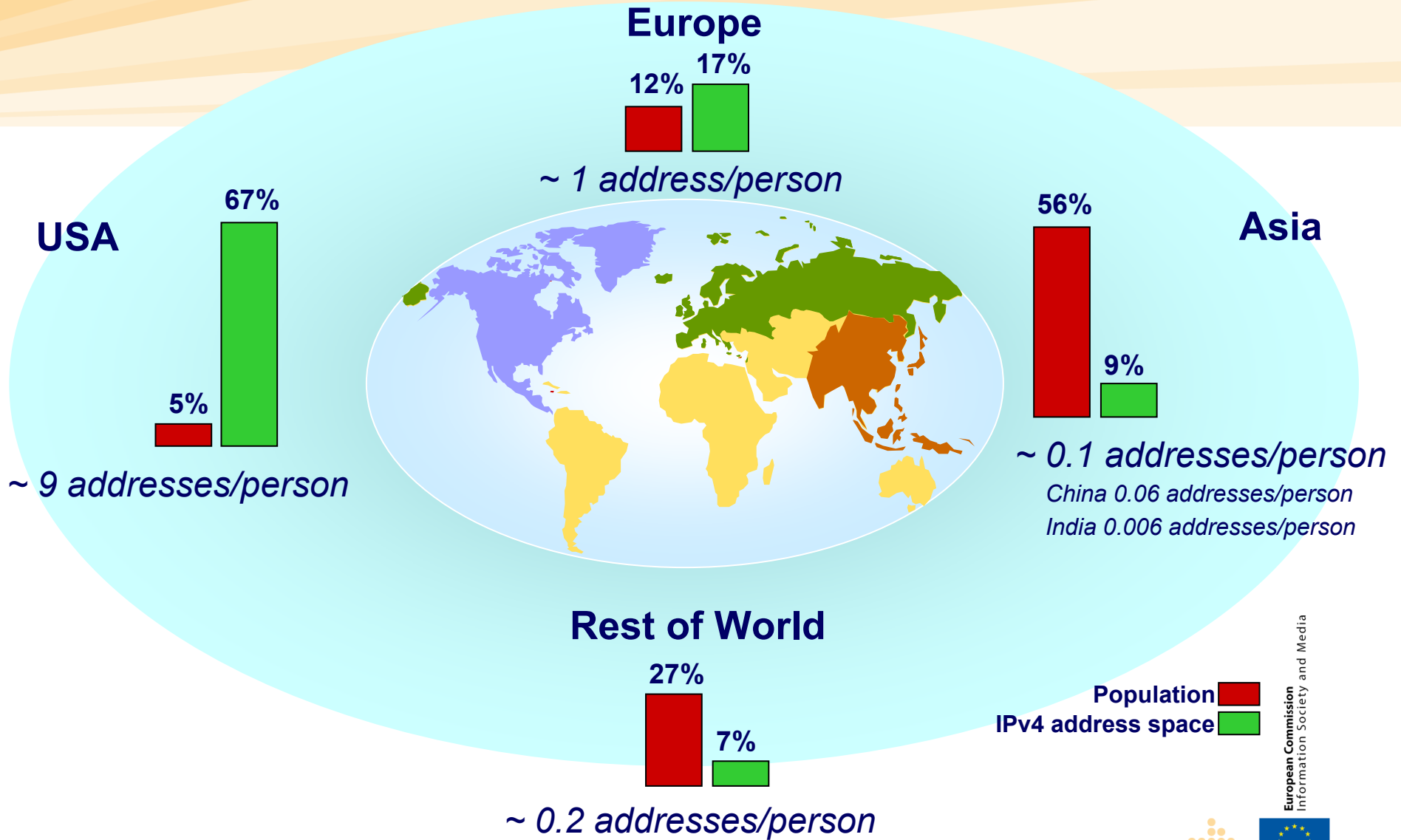
IPv6, the way forward Through cooperation

6CHOICE India-Europe Cooperation to promote IPv6 adoption (GA-223804)

Dr. Sathya Rao, Rao@Telscom.ch
6CHOICE Project leader



The IPv4 world view



Population IPv4 address space

European Commission
Information Society and Media

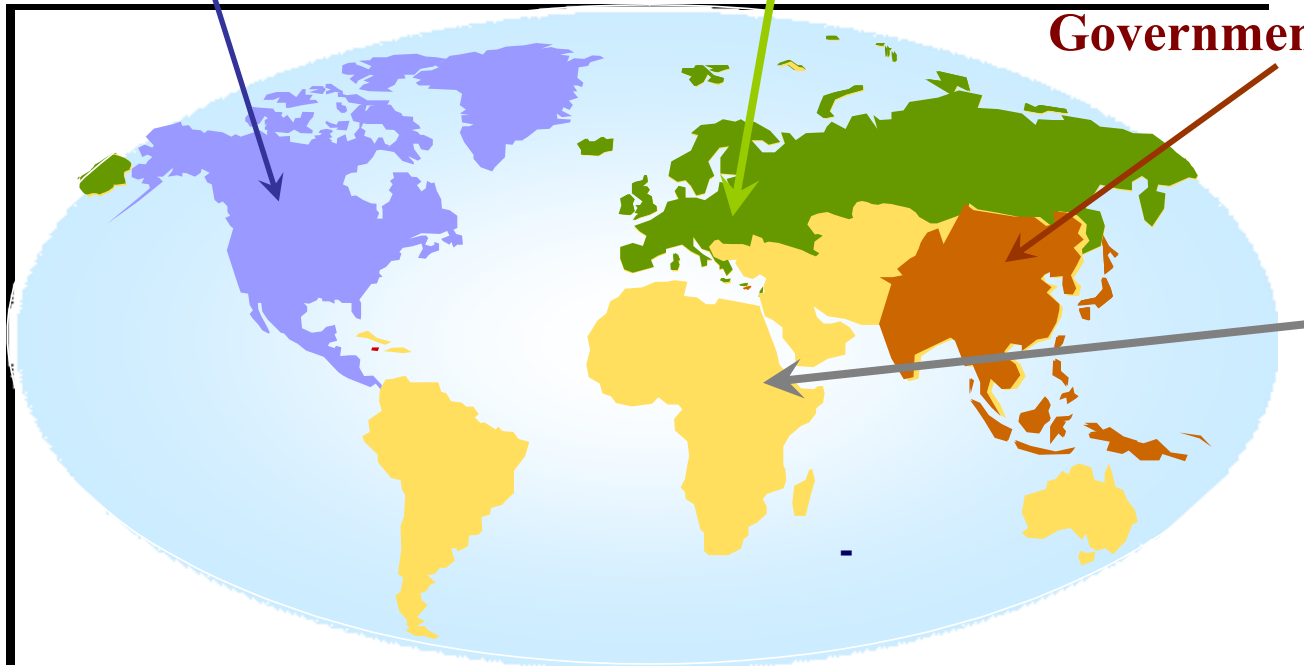


Need of IPv6 in the world?

New EU Policy Action
RIPE Recommendation (Oct 2007)

Enough IPv4 addresses
Applications and equipments IPv6 ready
(International vendors)
Gov Commitment, ARIN Recommendation

Lack of IPv4 Addresses
Backbone nearly IPv6 ready
Equipments and some applications
IPv6 ready
Government Commitment

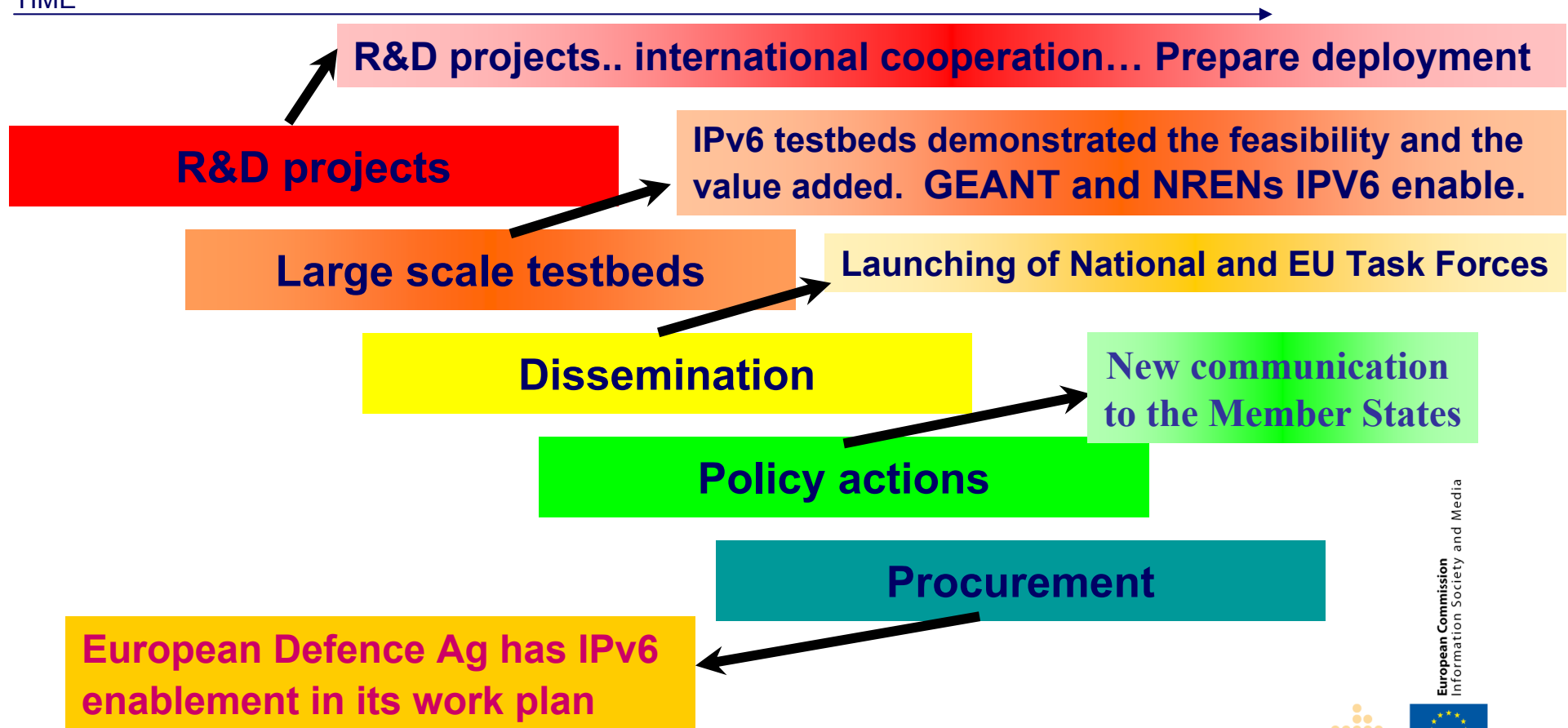


No Internet
ICT Divide
IPv6 Green field

IPv6 Way forward in Europe

Focus of R&D moving from research to industrial uptake

TIME



The European IPv6 day,
Brussels, 30 May 2008

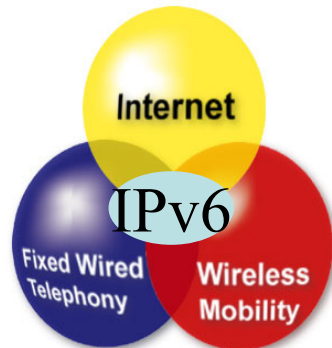
www.6choice.eu



Features of IPv6



- **Extended address space**
 - Always on-line from anywhere, anytime
- **Auto configuration (plug and play)**
 - Lower complexity and administration
- **Header format simplification**
- **Improved support for extensions and options:**
 - Flow labelling, authentication and privacy



Converged Networks – Future internet

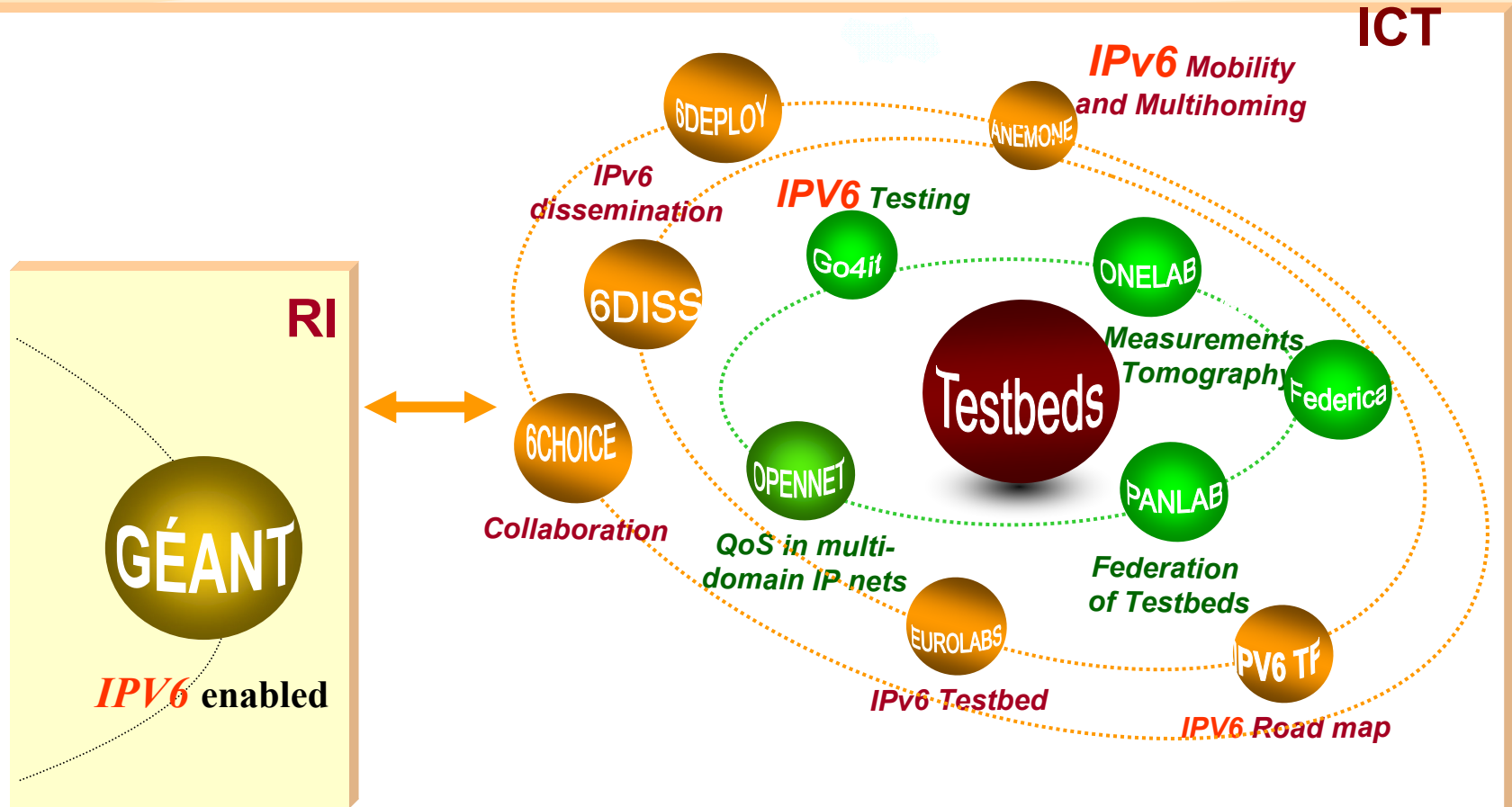
- Seamless hand-over (WIMAX, 3G, and Wi-Fi)
- Simpler solutions for connectivity



Social Impact

- Equitable and non-discriminatory Society

FP research activities in EU IPv6 pave the way...



ICT

India : Ready to take-off

- **ERNET is similar to GEANT and is IPv6 enabled**
- **6CHOICE has important academic, scientific and industrial partners from India and Europe to develop co-operation between the two continents**
 - Europe: Telscom, RENATER, Telefonica, UCL
 - India: ERNET, Ilsc, SIFY, HP
- **Network and services between ERNET and GEANT are being planned**
 - **GARUDA (India-GRID) and EGEE co-operation for applications**
- **Dissemination: workshops for newcomers**
- **Training: Operational issues for industry and operators**
- **EURO-INDIA cooperation is a WIN-WIN project**