

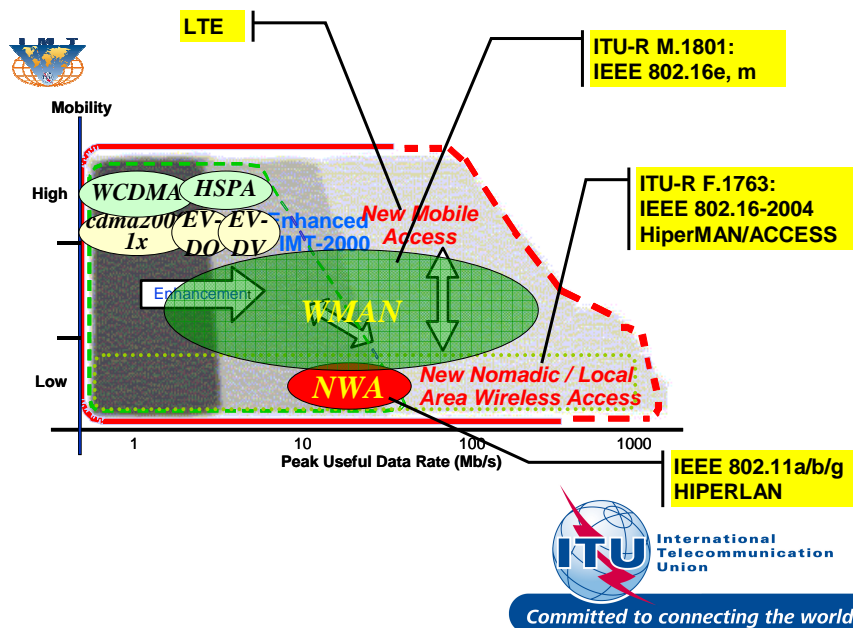


International Telecommunication Union

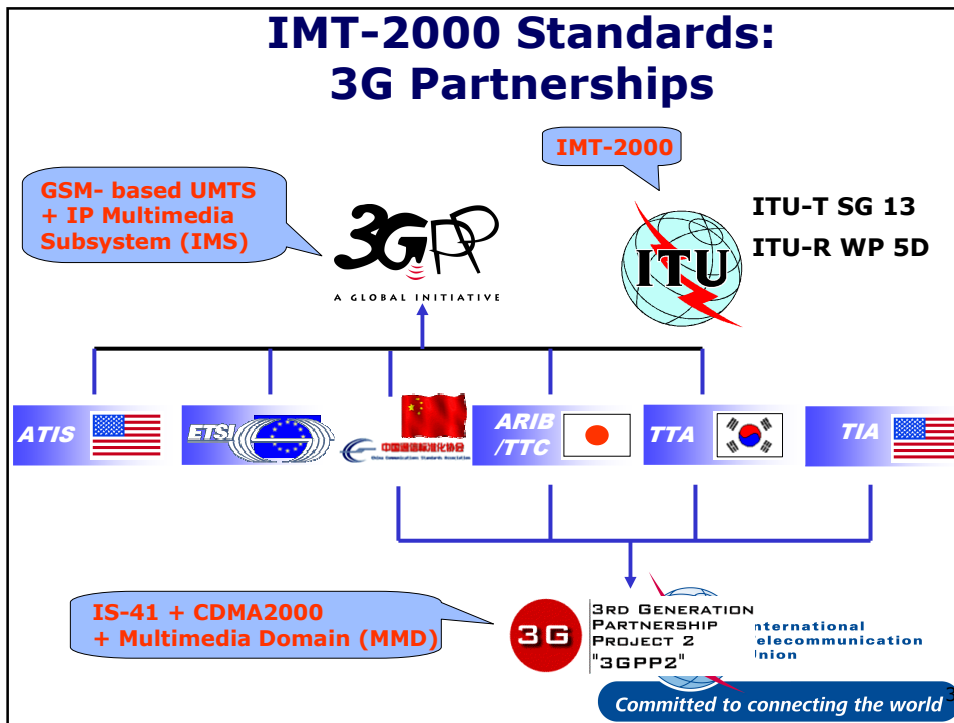
IMT and IMS Technologies In Developing Countries

Dr. Asok Chatterjee
Vice President, Ericsson, Inc.
(Co-Chair WP1, ITU-T SG13
&
Chairman, Proj Co-ord Grp of 3GPP)

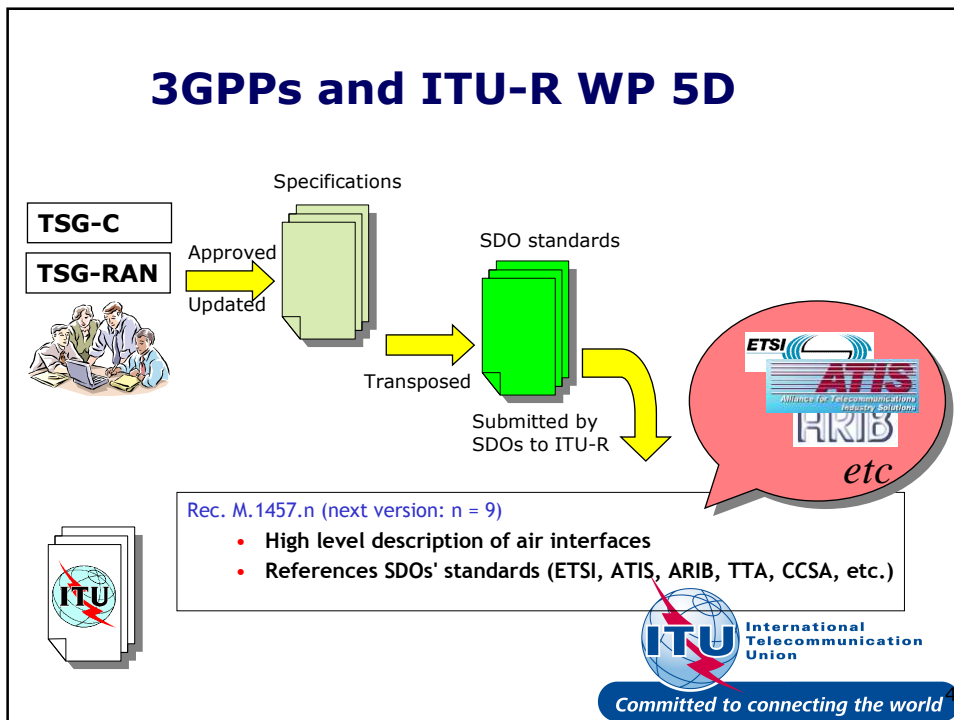
IMT2000 Systems and beyond



IMT-2000 Standards: 3G Partnerships



3GPPs and ITU-R WP 5D



ITU-T Gives Mobile Systems Prominence

- WTSAs-2000 created the Special Study Group (SSG) on “IMT-2000 and systems beyond”
- Based on the accomplishments of the SSG and the continuing growth of mobile networks, WTSAs-2004 upgraded SSG to a regular SG: SG 19 “Mobile telecommunication networks”
- Considering the close cooperation on mobile systems and mobility by co-located SG meetings of SG13 and SG19 for the whole study period 2005-2008 WTSAs-2008 merged SG13 and SG19.



Committed to connecting the world

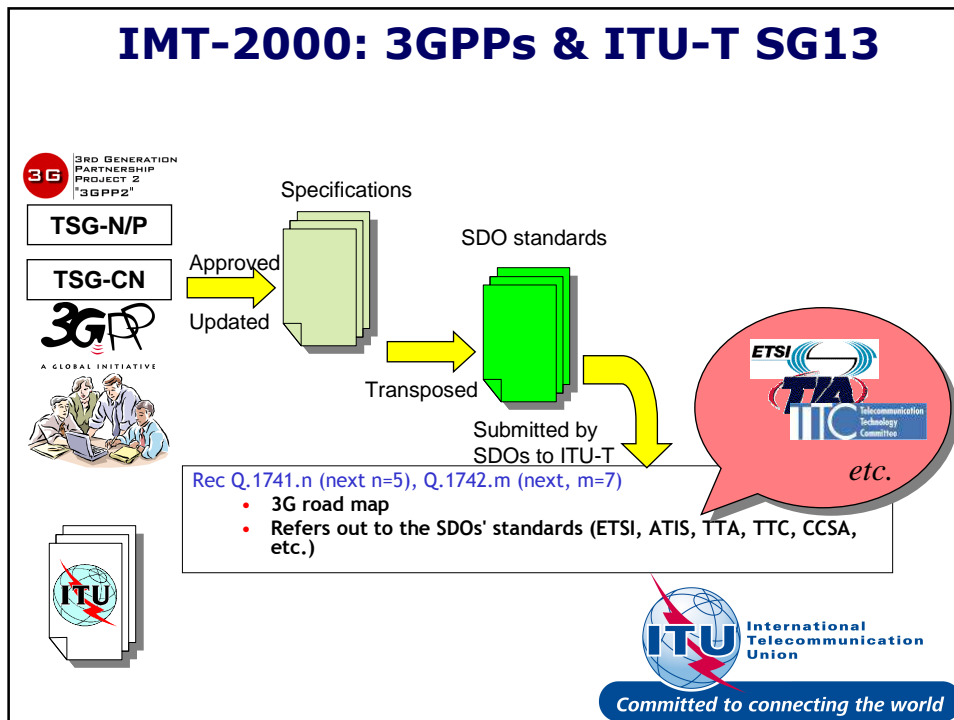
IMT-2000 in ITU-T

- Users will only get “service” if there are both:
 - Radio access interfaces
 - A suitable core network infrastructure
- Hence need for ITU-R and ITU-T to continue to work closely together to ensure a “complete package”
 - It’s not only about radio access, “wired” users expect broadband access, too!



Committed to connecting the world

IMT-2000: 3GPPs & ITU-T SG13



Q.174x.y Series Recommendations

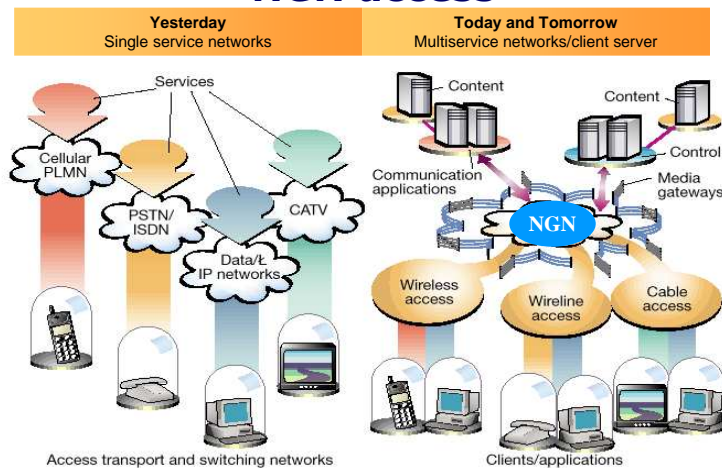
- "IMT-2000 references to release to GSM evolved UMTS core network with UTRAN access network Release <#>"
 - Q.1741.1 Release 1999
 - Q.1741.2 Release 4
 - Q.1741.3 Release 5
 - Q.1741.4 Release 6
 - Q.1741.5 Release 7
 - Q.1741.6 Release 8 (in preparation 10/09)
- "IMT-2000 references to ANSI-41 evolved core network with cdma2000 access network (as of <date>)"
 - Q.1742.1 as of 17 Jul 2001
 - Q.1742.2 as of 11 Jul 2002
 - Q.1742.3 as of 30 Jun 2003
 - Q.1742.4 as of 30 Jun 2004
 - Q.1742.5 as of 31 Dec 2005
 - Q.1742.6 as of 31 Dec 2006
 - Q.1742.7 as of 30 Jun 2008

Q.10/13 - Identification of evolving IMT-2000 systems and beyond

- Determination of architectures and detailed specifications produced by recognised SDOs which make up the evolving IMT systems and beyond
- Facilitating the recognition of those systems and their adoption by the broader ITU community



Mobile networks as integral part of NGN access



=> **Key issue mobility**



IP Multimedia Subsystems (IMS)

- The world of telecommunications is increasingly going packet-based digital, based on Internet Protocol (IP)
- IMS is an architectural framework for delivering IP-based multimedia services
- IMS does not standardize applications, but uses IETF protocols (e.g. SIP) to aid access of services from wireless and wireline terminals (separates applications from modes of access)
- It can be viewed as a tool to get to FMC



Development of IMS

- IMS was originally designed by 3GPP for mobile networks
- It is now enjoying support from various sectors of telecommunications industry
- Some core aspects of IMS are now being developed in close cooperation between 3GPP, 3GPP2, wireline, and cable industries



Resolution 44 - Bridging the standardization gap between developing and developed countries

Motivation

- Many mobile subscribers are in developing countries
- Mobile networks are much more than radio access, and require sound network infrastructure to connect to
- Mobility has become such an important issue that it needs to be studied carefully
- Issues around IMT and IMS need to be well understood, especially in developing countries, for the desired level of success in deployment and implementation
- There is a need for developing countries to have a greater say in the ongoing evolution of NGN networks

Hence Question 15/13 (Applying IMS and IMT in developing country mobile telecom networks) was adopted to address the above issues.



Q15/13 Expected outcomes

- Document summarizing the findings of a gap analysis on the current status and trends of IMS and IMT in customer user needs, technology, market, and standardization requirements, if any, from the view-point of telecom networks in developing countries
- Collection of scenarios in terms of services and deployments for applying IMS and IMT in the mobile telecom networks in developing countries
- Requirements in terms of services and deployments for applying IMS and IMT in the mobile telecom networks in developing countries



Collaboration with External Industry Organizations

- The real world experiences are available only from the organizations that represent the industry
- Contacts established with GSM Association (GSMA), CDMA Development Group (CDG), WiMAX Forum
- Issues being discussed
 - User requirements
 - Technical requirements
 - Roadmap/Migration
 - Interoperability scenarios
 - Operations/Product support



Collaboration with ITU-D

- ITU-D has always been in the forefront of supporting developing countries for their future telecommunications needs
- Both ITU-R and ITU-T coordinate with ITU-D regarding deployment of IMT and IMS systems in developing countries
- Between the three sectors of ITU, full support is available to the global community.



To learn more...

For more information please visit
the web site

<http://www.itu.int>

and SG13 web page in particular

<http://www.itu.int/ITU-T/studygroups/com13/index.asp>

or contact

asok.chatterjee@ericsson.com



Thank you for your attention!

