ITU-BDT Regional Seminar on IMT-2000 for the Arab Region



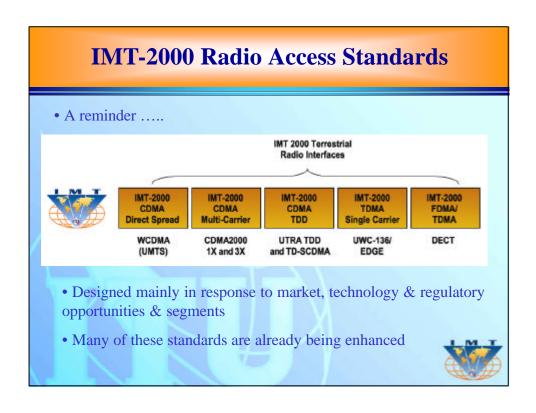
Radio Technology and Spectrum Matters

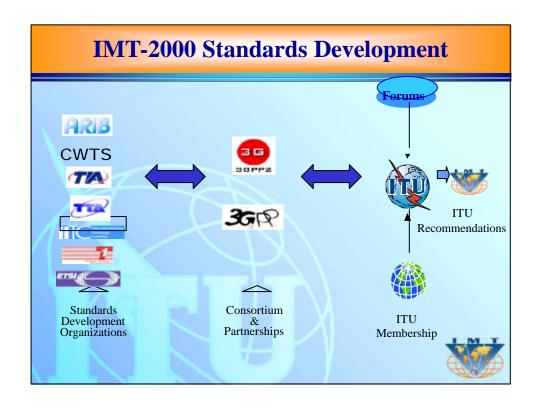
Colin Langtry
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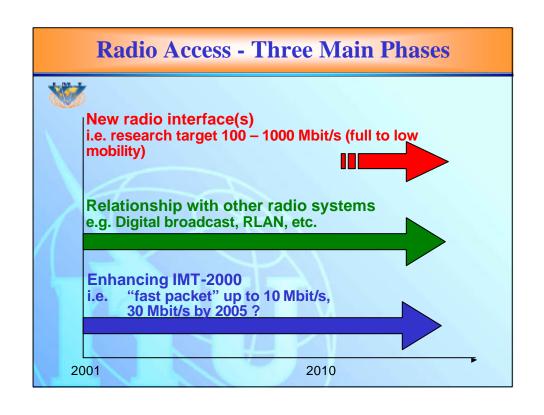
Contents

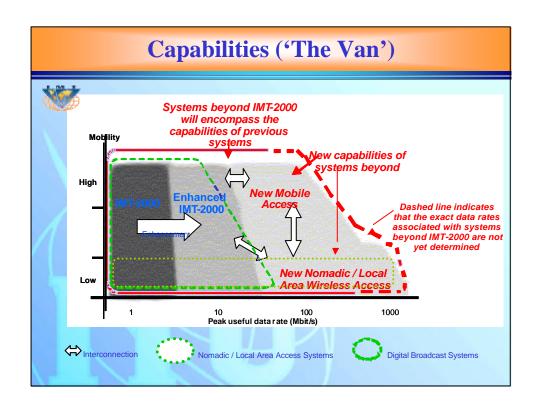
- IMT-2000 radio access standards
- Three phases
- Capabilities
- Variety of access networks
- Domains
- Spectrum aspects
- Workplan

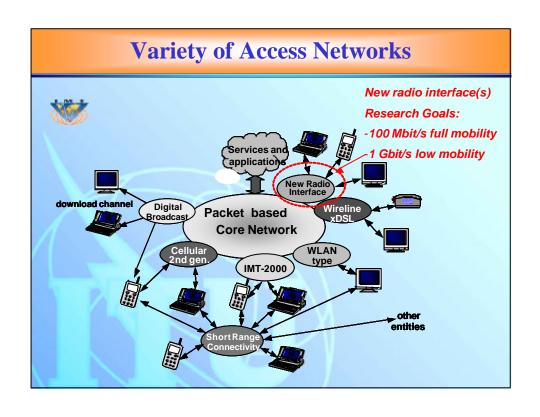














Fusion

Recommendation ITU-R M.1645

"Systems beyond IMT-2000 will be realized by functional fusion of existing, enhanced and newly developed elements of IMT-2000, nomadic wireless access systems and other wireless systems, with high commonality and seamless interworking"



Spectrum

- Needed to plan use of spectrum already identified
 Recommendation ITU-R M.1036
 806-960, 1710-2025, 2110-2200 and 2500-2690 MHz
- Needed to secure appropriate WRC-07 agenda item to address future requirements
 - o Recommendation ITU-R M.1645
 - o Resolution 802 (WRC-03)
 - o Resolution 228 (Rev.WRC-03)



Resolution 802 (WRC-03)

2007 World Radiocommunication Conference

Agenda item 1.4

"to consider frequency-related matters for the future development of IMT-2000 and systems beyond IMT-2000, taking into account the results of ITU-R studies in accordance with Resolution 228 (Rev.WRC-03)"

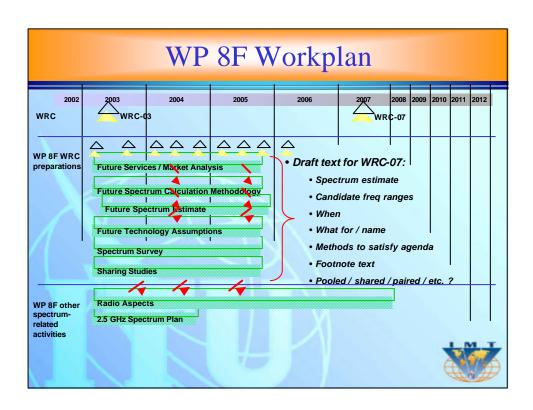


Resolution 228 (Rev.WRC-03)

resolves

- 1 to further study technical and operational issues ...;
- 2 to report to WRC-07 on the spectrum requirements and potential frequency ranges ...;
- 3 to conduct regulatory and technical studies on the usage of frequencies below those identified for IMT-2000 ...;
- 4 to take into consideration the particular needs of developing countries including use of the satellite component of IMT-2000 ...;
- to include sharing and compatibility studies with services already having allocations in potential spectrum ...;
- 6 that WRC-07 should consider frequency-related matters for the future development of IMT-2000 and systems beyond IMT-2000







Summary

- A coordinated process for standards development is proven (ITU, PPs, SDOs, Forums, etc.)
- Flexibility is "designed in" from the outset
- Enhancements already being standardised and will evolve considerably over next 10-15 years – open and market led
- Relationship with other radio systems will take place on a market led basis regulatory considerations
- New radio interface(s) are expected to be required sometime between 2010-2015
- Spectrum aspects will be considered at WRC-07



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