



RECOMMENDATION OF IMT-ADVANCED (4G) APPROVED BY ITU

DR ASOK CHATTERJEE
VICE PRESIDENT, INDUSTRY RELATIONS
ERICSSON

CO-CHAIRMAN ITU-T WP 1/13

ITU ORGANIZATION

Plenipotentiary Conference

Radiocommunication Sector (ITU-R)

World Radiocommunication Conferences

Radiocommunication Assemblies

Advisory Group

Study Groups

Telecommunication Standardization Sector (ITU-T)

World Telecommunication Standardization Assemblies

Advisory Group

Study Groups

Telecommunication Development Sector (ITU-D)

World Telecommunication Development Assemblies

Advisory Group

Study Groups

Recommendations,
other documents



Study Group 1
Spectrum management

Study Group 3
Radiowave propagation

Study Group 4
Satellite services

Study Group 5
Terrestrial services

Study Group 6
Broadcasting service

Study Group 7
Science services



WP5A

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WP5D



**Radiocommunication
Advisory Group
(RAG)**

WORKING PARTY 5D (WP5D)



Overview of the Working Party 5D work;

› The Working Party:

- Is responsible for the **overall system aspects of IMT**.
- Has the prime **responsibility within ITU-R** for issues related to the **terrestrial component of IMT**, including technical, operational and spectrum related issues to meet the objectives of future IMT systems.
- Is the **lead group for the overall maintenance of existing and the development of new Recommendations on IMT**.
- Is responsible for studies related aspects regarding the **continued deployment of IMT-2000 and the success of IMT-Advanced**, e.g. convergence impacts, regulatory aspects, etc.
- Will continue to **work closely with Working Party 4C** on issues related to the satellite component of IMT.
- Will continue to work closely with **other Working Parties on issues relevant for IMT systems**.

ITU-D; TELECOMM DEVELOPMENT SECTOR

Study Group 1
Enabling environment, cybersecurity, ICT applications and Internet-related issues



Study Group 2
Information and communication infrastructure and technology development, emergency telecommunications and climate-change adaptation

Telecommunication Development Advisory Group (TDAG)

Study Group 2
Operational aspects

Study Group 3
Economic and policy issues

Study Group 5
Environment and climate change

Study Group 9
Broadband cable and TV

Study Group 11
Protocols and test specifications

Study Group 12
Performance, QoS and QoE

Study Group 13
Future networks

Study Group 15
Transport and access

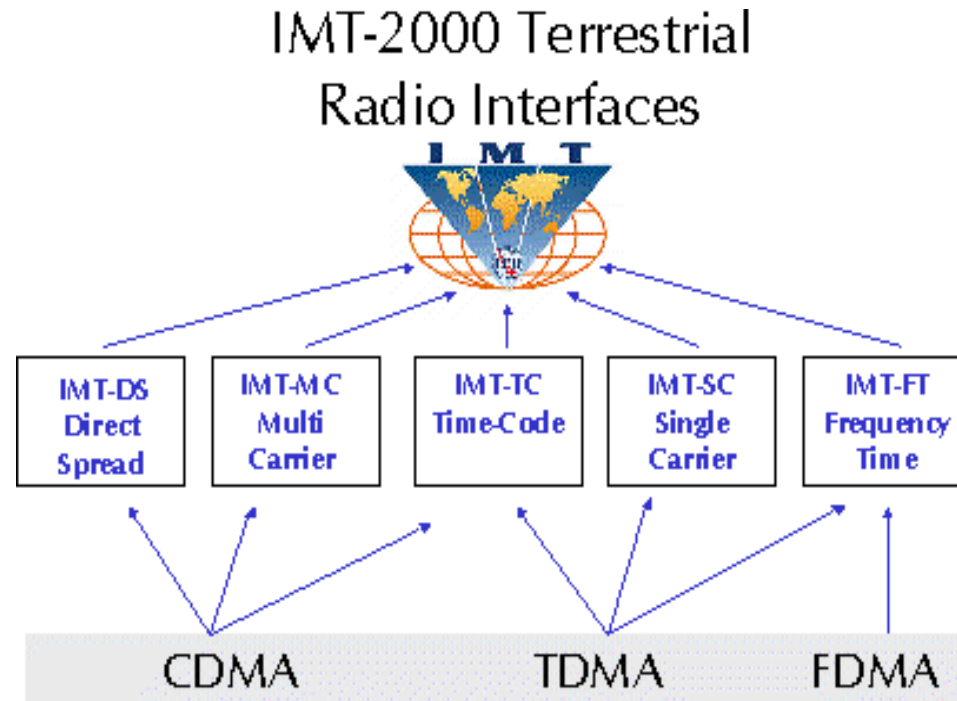
Study Group 16
Multimedia

Study Group 17
Security



Telecommunication
Standardisation
Advisory Group
(TSAG)

IMT-2000 APPROVED IN YEAR 2000

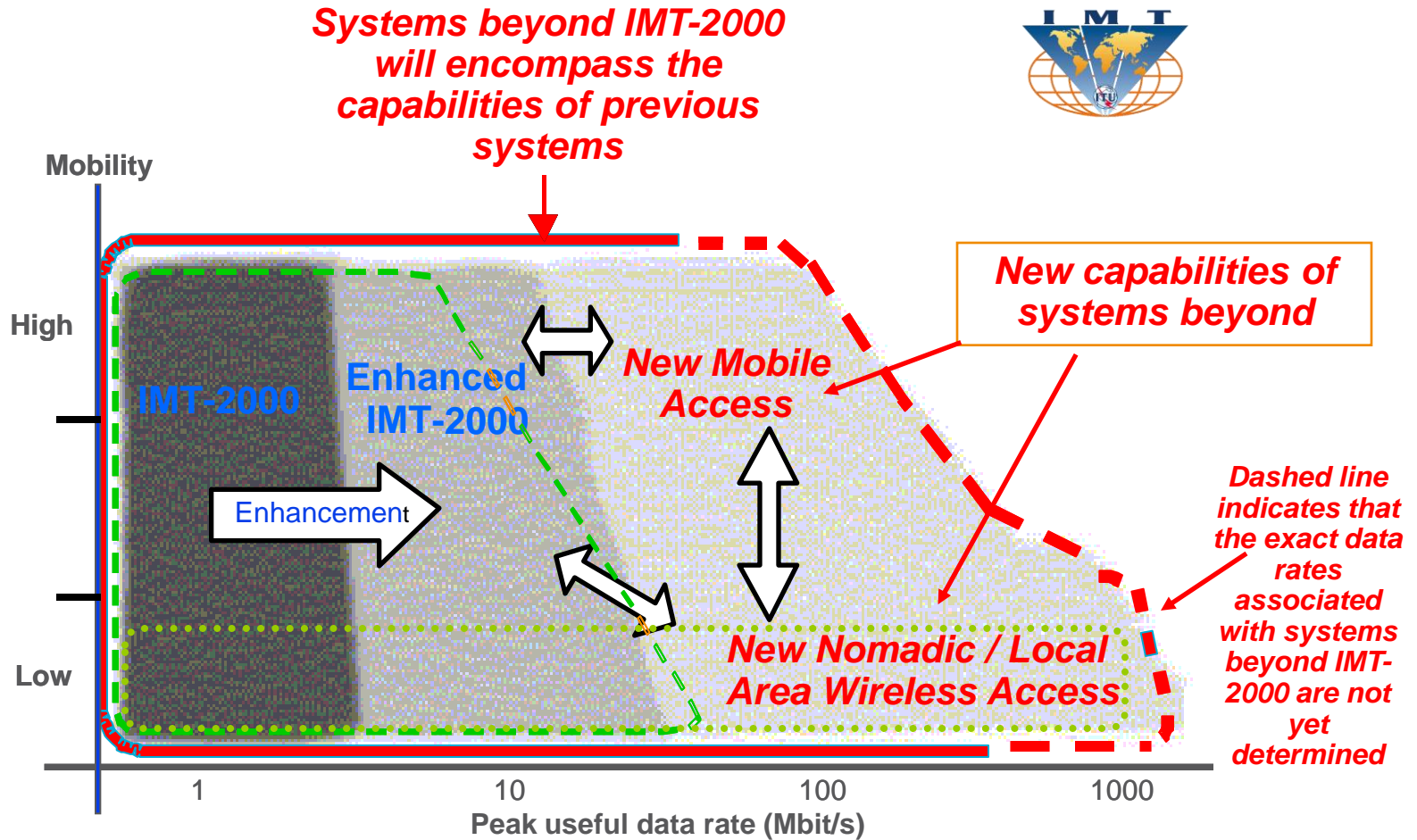


1

Technical note: The radio interfaces shown in the figure are commonly known by the following names: UTRA FDD (WCDMA) for IMT-DS; cdma2000 for IMT-MC; UTRA TDD, and TD-SCDMA for IMT-TC; UWC-136 for IMT-SC; and DECT for IMT-FT.

The "Vision" Recommendation ITU-R M.1645

Approved in Radio Assembly 2003

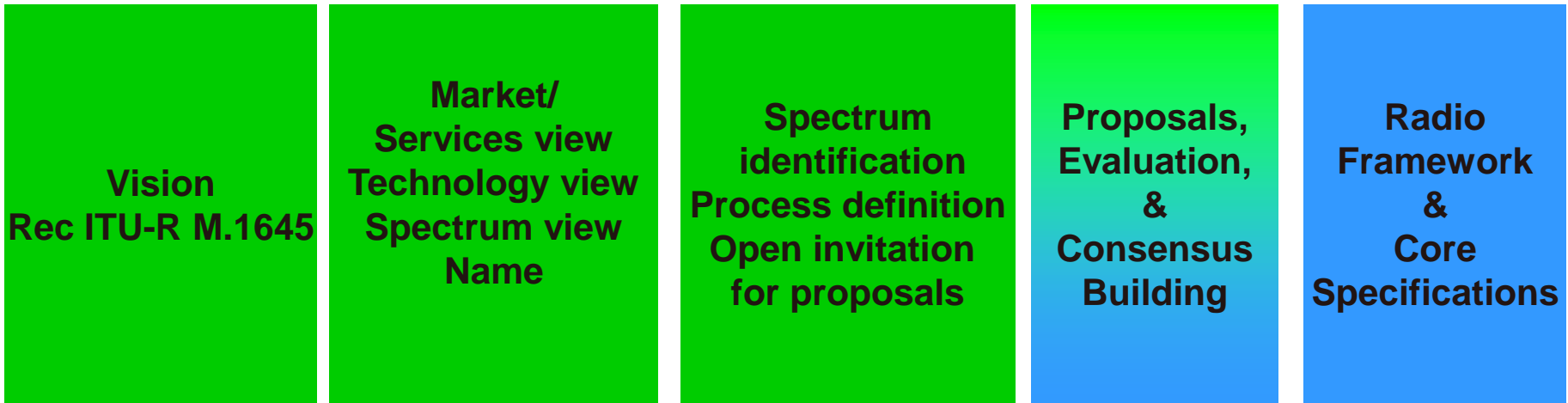


 Interconnection

 Nomadic / Local Area Access Systems

 Digital Broadcast Systems

THE IMT-ADVANCED PROCESS IN ITU



2002-2003

2005-2007

2006-2008

2008-2010

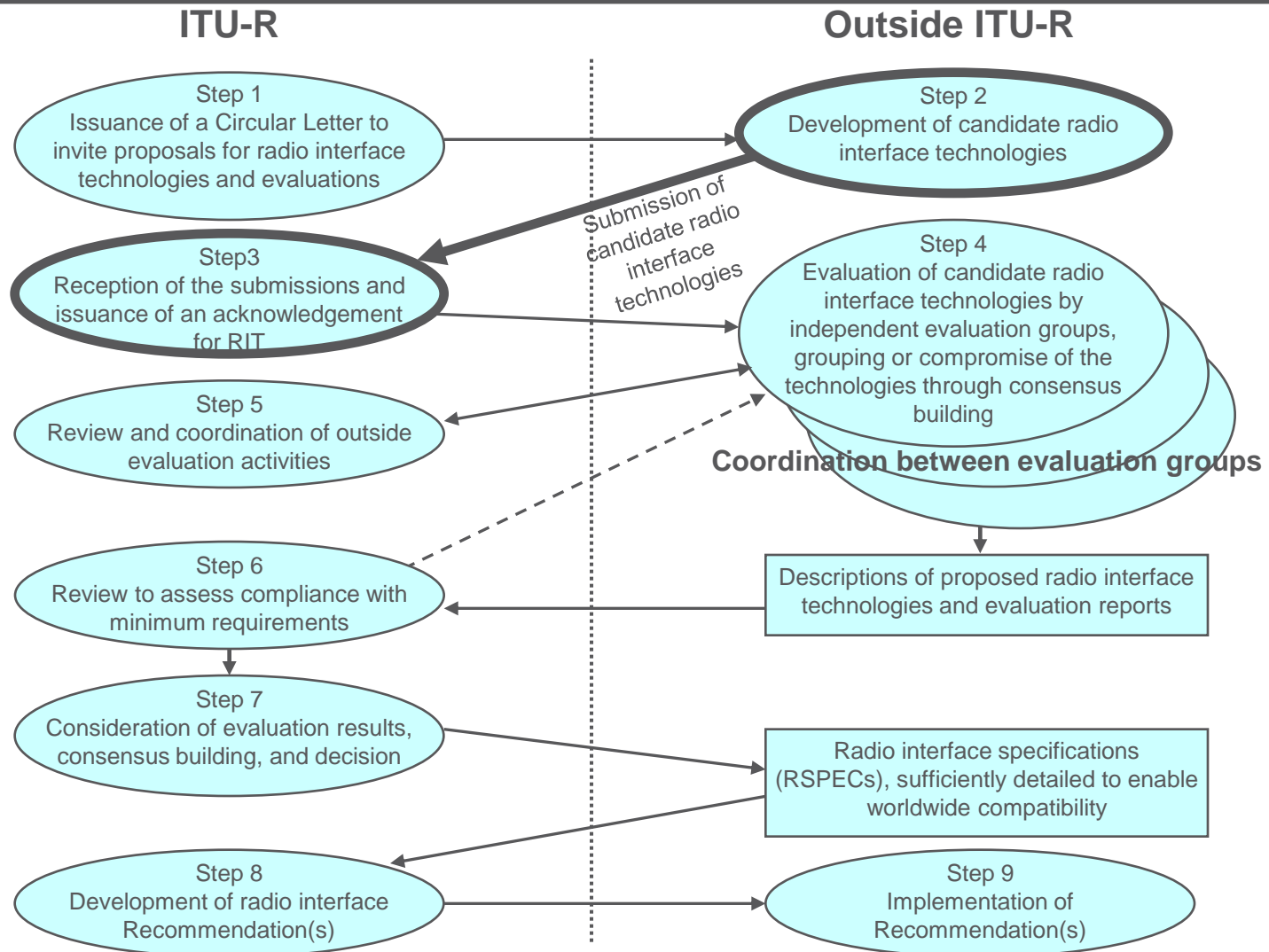
2010-2011

Q. 229-2/5
2000-2003-2008-2012

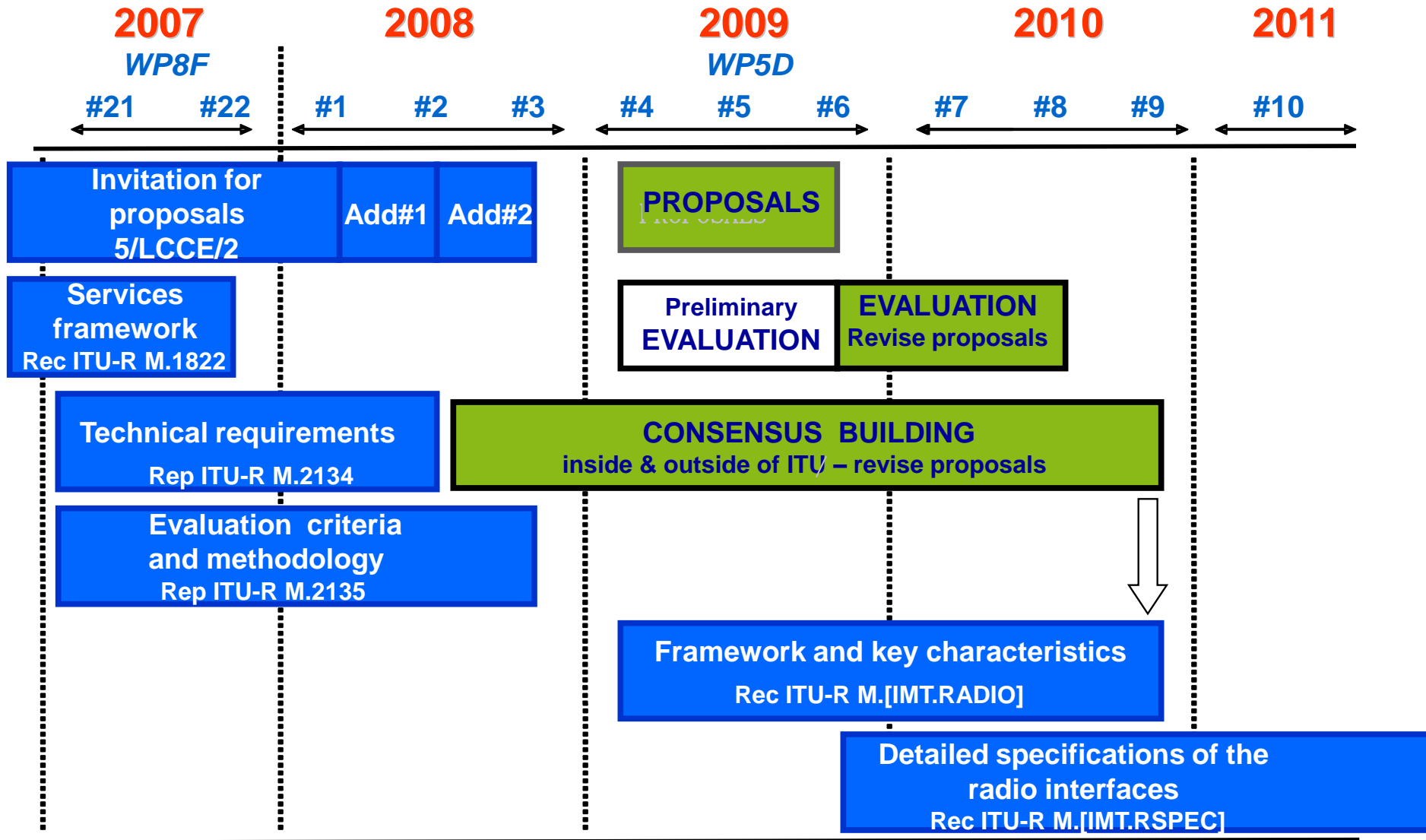
**Setting the stage for the future:
Vision, spectrum, and technology views**

**Defining the
technology**

IMT-ADVANCED DEVELOPMENT PROCESS



SCHEDULE FOR DEVELOPMENT OF IMT-ADVANCED



Circular Letter 5/LCCE/2 and addendums

INVITATION FOR SUBMISSION OF PROPOSAL FOR CANDIDATE
RADIOTECHNOLOGIES FOR TERRESTRIAL COMPONENT OF IMT-
ADVANCED

7 March 2008, 2 Aug & 18 Dec 2008

Doc. IMT-ADV/1

BACKGROUND ON IMT-ADVANCED

30 May 2008

Doc IMT-ADV/2 Rev 1

TIMELINES, SUBMISSION AND EVALUATION PROCESS, AND CONSENSUS
BUILDING

7 August 2008

REPORT ITU-R M.2133

(formerly M.[IMT.REST])

REQUIREMENTS, EVALUATION CRITERIA, and SUBMISSION TEMPLATES
FOR THE DEVELOPMENT OF IMT-ADVANCED

11 November 2008

REPORT ITU-R M.2134

(formerly M.[IMT.TECH])

REQUIREMENTS RELATED TO
TECHNICAL PERFORMANCE FOR
IMT-ADVANCED RADIO
INTERFACE(S)

11 November 2008

REPORT ITU-R M.2135

(formerly M.[IMT.EVAL])

GUIDELINES FOR EVALUATION
OF RADIO INTERFACE
TECHNOLOGIES FOR IMT-
ADVANCED

11 November 2008

RESULT FROM WRC-12 TOWARDS 2015

For WRC in 2015 Agenda Item 1.1



"to consider **additional spectrum allocations** to the mobile service on a primary basis and identification of additional frequency bands **for IMT** and related regulatory provisions, to facilitate the development of terrestrial **mobile broadband applications**, in accordance with Resolution COM6/8 (WRC-12)"





ERICSSON