

Overview of 5GMF IMT-2020 Evaluation Group

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5GMF (Fujitsu)**

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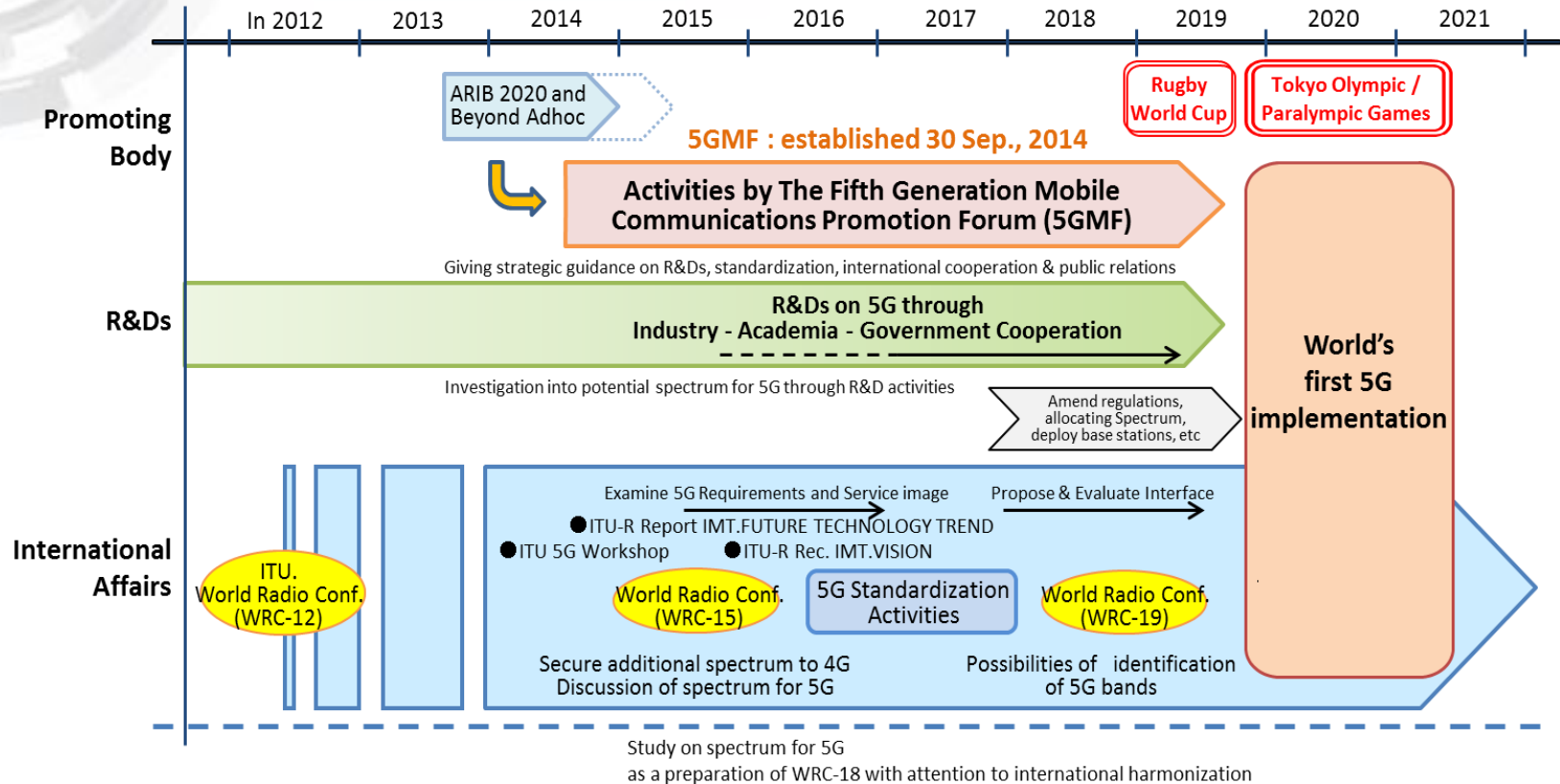
Contents

1. Overview of 5GMF
2. IMT-2020 Evaluation Group of 5GMF

1

Overview of 5GMF

Roadmap towards implementation on 5G Mobile in Japan

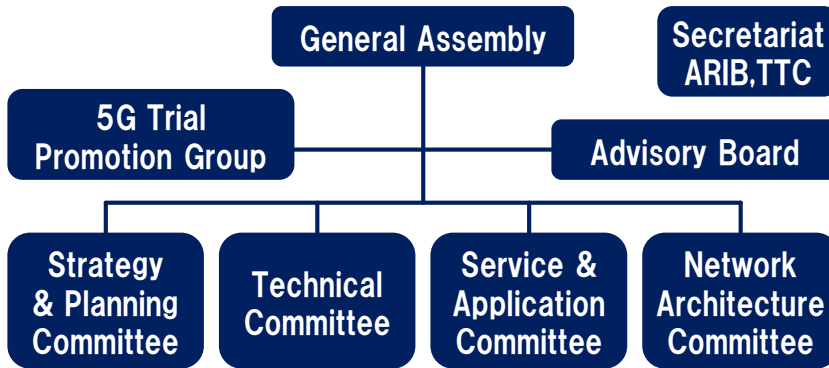


Translated from "Final Report from the Radio Policy Vision Council", Ministry of Internal Affairs and Communications, Japan, December 2014.

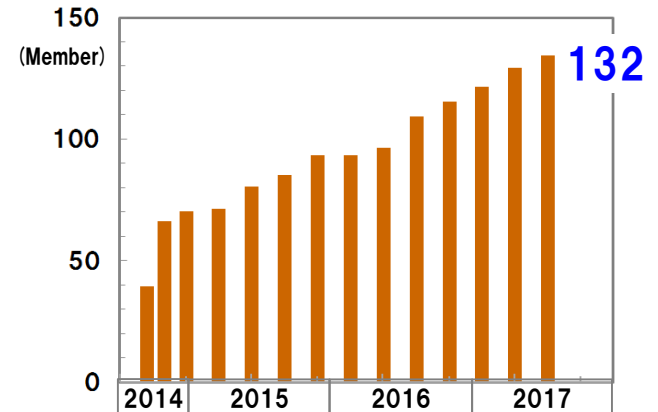
5GMF (Organizational structure and membership)

■ 5GMF (The Fifth Generation Mobile Communications Promotion Forum)

- **Established :** 30 September 2014 (taking over ARIB 2020 and Beyond Ad Hoc.)
- **Objectives :** Innovative R&D through Industry–Academia–Government cooperation. International Standardization and Collaboration. Collaboration with 5G Field Trials.
- **Members :** 132 (Special:3, Individual:15, Ordinary:114 as of 8 September 2017)

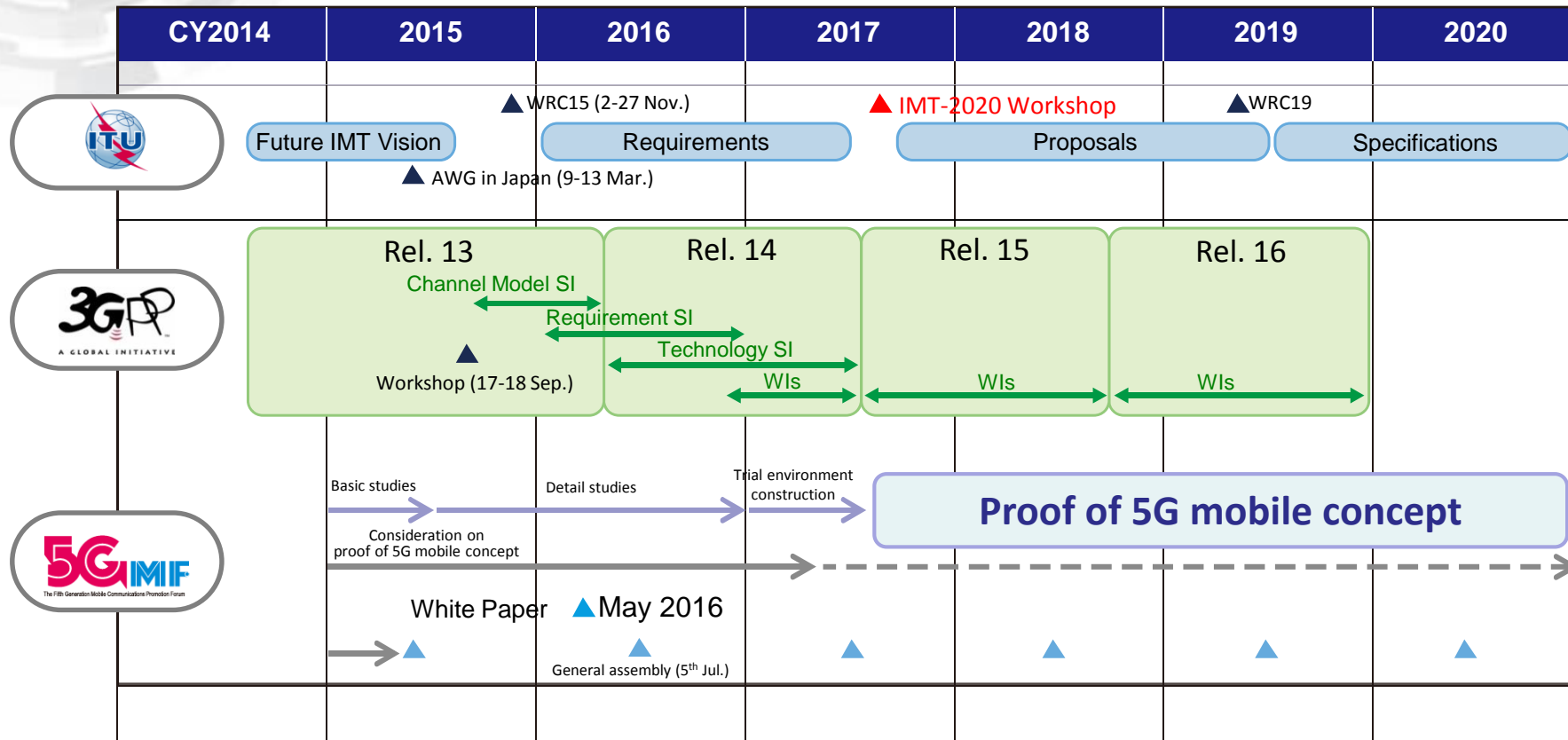


Organizational Structure of 5GMF



Number of 5GMF Members

Action plan (mid-term) of 5GMF



Schedule overview of Verification

● Verification to commence from FY2017 ●

Survey on user needs,
studies on applications / services

5G commercialization

Integrated Verification Trial services / functions
- Radio + Network + Applications -

Basic studies

Detail studies
(Venue, frequency band, budget,
participating organizations /
soliciting enterprises, etc.)

Trial
environment
construction

FY2015

2016

2017

2018

2019

2020

2021

2022

Rugby
World Cup

Tokyo Olympic/
Paralympic Games

Image of Verification Trial

- Verification commencing from FY2017
- Held not only in Tokyo but also in local cities



◀ Coverage and outdoor driving experiments in a large premise

▼ Outdoor trial in open square environments crowded with people

▼ Trial in indoor environments crowded with people



Collaborate bilaterally with other organizations

- **5G PPP** 
 - Meeting, Munich, 11 April 2014, MOU signed, Frankfurt, 25 March 2015
- **Korea 5G Forum** 
 - Meetings: Tokyo, 19 August 2013, Tokyo, 3 July 2014
 - MOU signed, Tokyo, 6 April 2015
- **Wireless World Research Forum (WWRF)** 
 - MOU signed , e-mail, 21 August 2015
- **Indonesia 5G Forum** 
 - Meeting & MOU signed , Bali (Indonesia), 21-22 September 2015
- **IMT Sub-WG 5G, Malaysian Technical Standards Forum (MTSFB)** 
 - Meeting & MOU signed, Kuala Lumpur (Malaysia), 6 April 2016
- **IMT-2020 PG** 
 - MOU signed, Beijing (China), 2 June 2016

Goals of 5GMF

Lead R&D and international standardization to implement 5G mobile for 2020 and beyond

- Develop 5GMF white Paper “5G Mobile Communications Systems for 2020 and beyond” (<http://5gmf.jp/en/>)

Demonstrate verification tests on Proof of Concept

- Perform verification tests from FY 2017 after basic studies, detailed studies and trial environment construction

Contribute actively internationally through collaboration with international organizations

- Promote the sharing information and vision for 5G mobile with overseas organizations in Europe (5G-PPP), Korea (5G Forum), China (IMT-2020 PG, FuTURE Forum), America (5G-America) etc.



To play a major role in 5G mobile implementation

Goals of 5GMF

**International collaboration
and Standardization**

**Innovation by R&D
through Industry - Academia
- Government Cooperation**

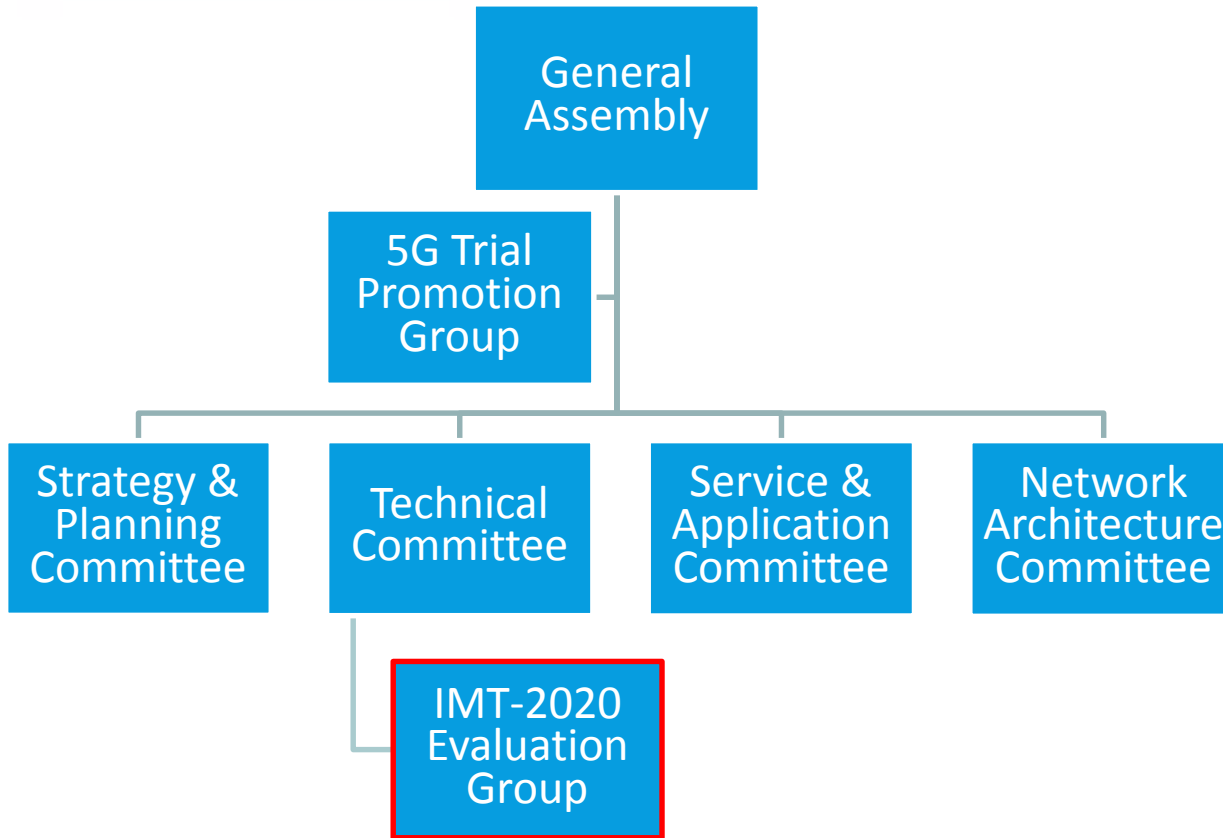


5GMF leads the discussion of 5G mobile in the world

2

IMT-2020 Evaluation Group of 5GMF

Structure of 5GMF with IMT-2020 Evaluation Group



Membership of 5GMF IMT-2020 Evaluation Group

Ericsson Japan

FUJITSU

Huawei Japan

KDDI

Kyoto University

Mitsubishi Electric

NEC

Nihon Dengyo Kosaku

Nokia Solutions and Networks Japan

NTT

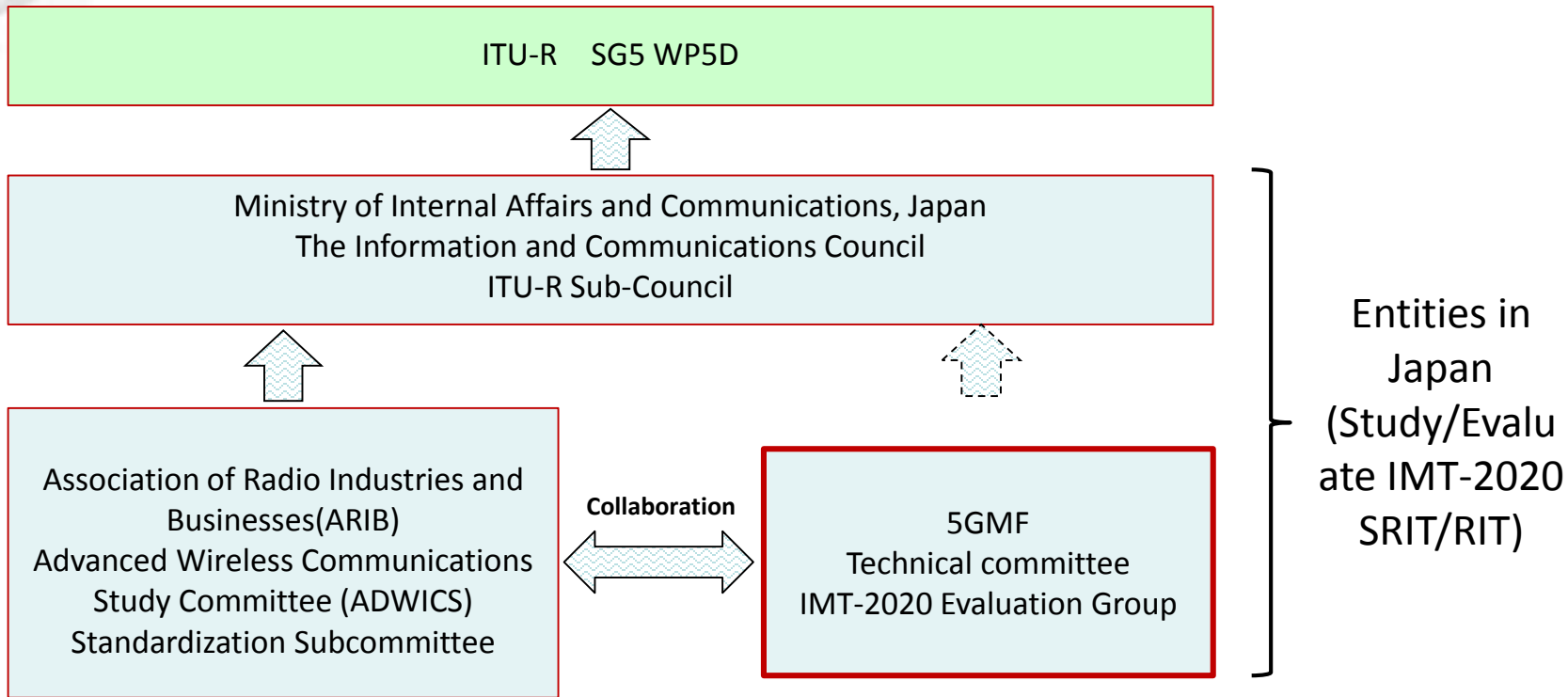
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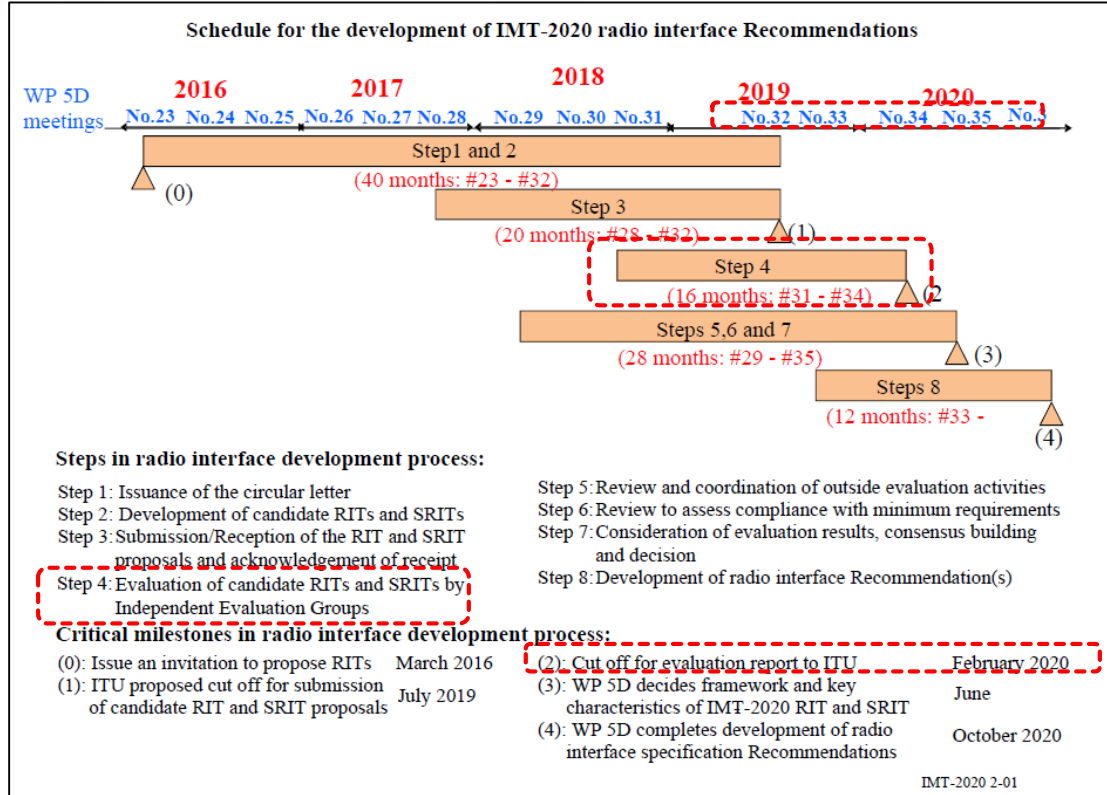
Sophia University

ZTE Japan

Collaboration with related entities



Overall schedule for the development of IMT-2020 radio interface Recommendation (WP5D)



Ref: IMT-2020/2 "SUBMISSION, EVALUATION PROCESS AND CONSENSUS BUILDING FOR IMT-2020," ITU-R WP5D Equivalent info.: http://www.itu.int/en/ITU-R/study-groups/rsg5/rwp5d/imt-2020/Documents/IMT-2020_Schedule.docx

**Thank you
for your kind attention.**

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