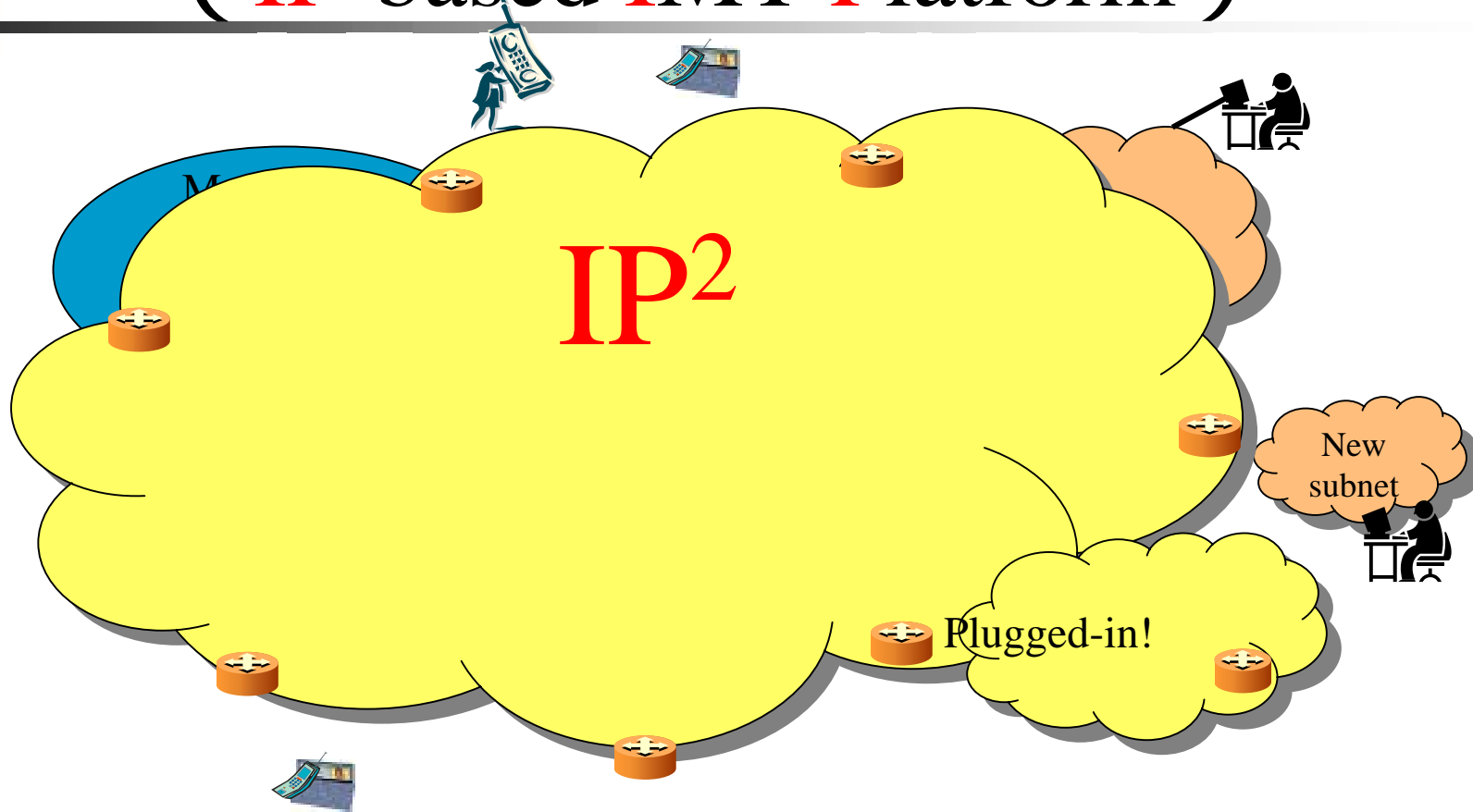
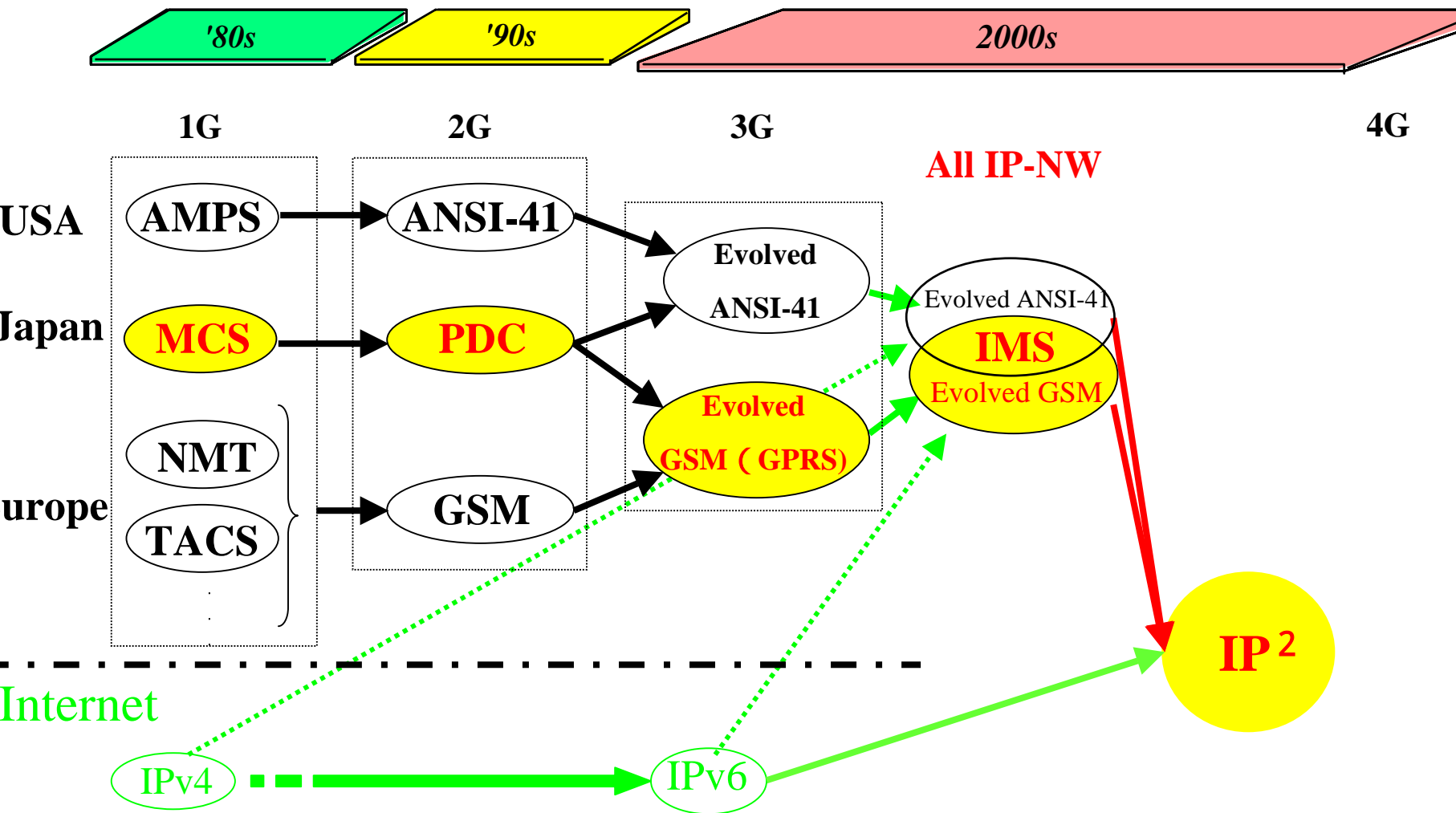


# Pre-standardization of **IP<sup>2</sup>** ( **IP**-based **IMT** **P**latform )



**Dr. Masami YABUSAKI**  
**ARIB/TTC Long-term All IP Conference Chair**

# Evolution towards Convergence of Mobile Net and Internet

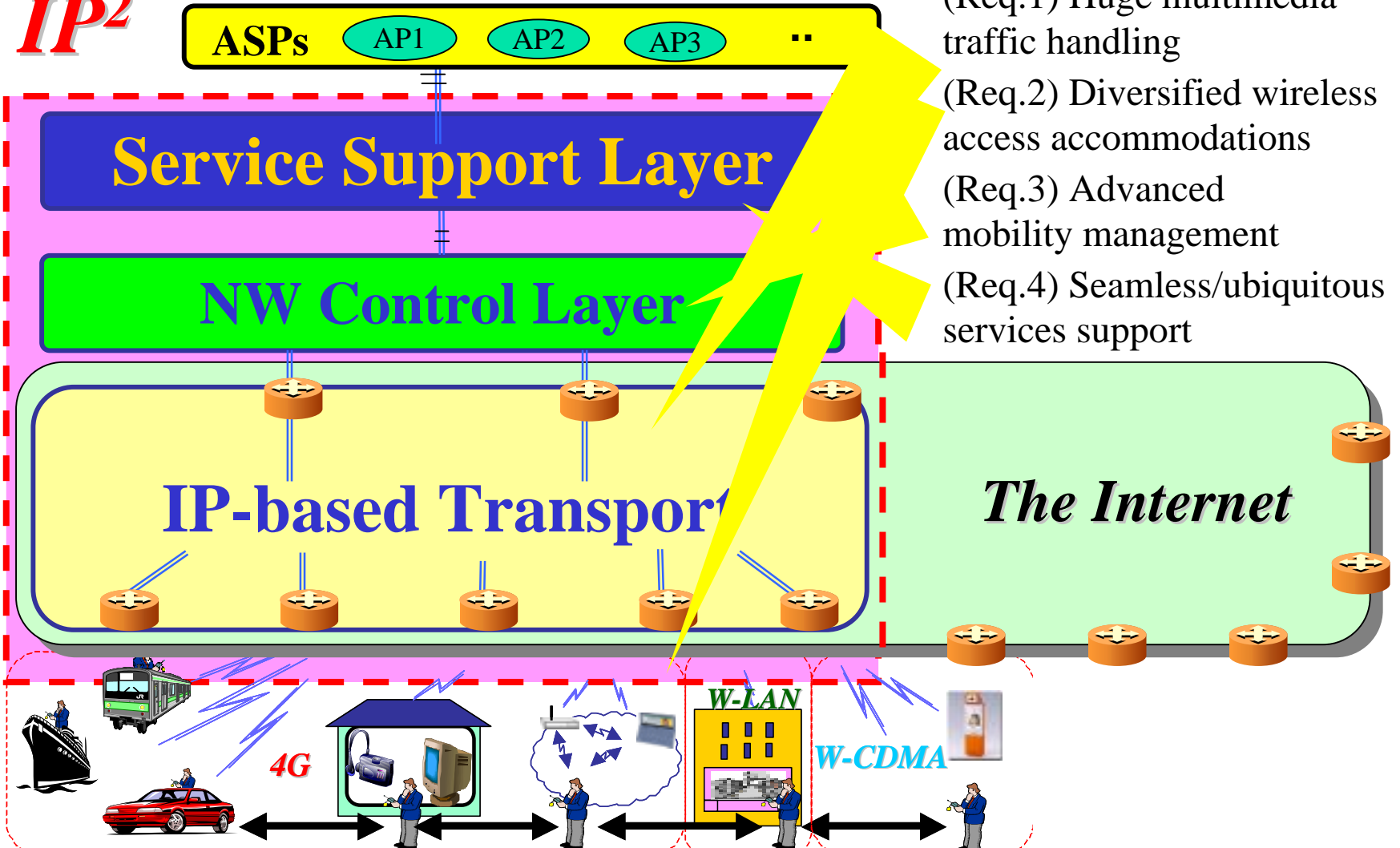


# IP<sup>2</sup> General Architecture

## Requirements for IP<sup>2</sup>

- (Req.1) Huge multimedia traffic handling
- (Req.2) Diversified wireless access accommodations
- (Req.3) Advanced mobility management
- (Req.4) Seamless/ubiquitous services support

**IP<sup>2</sup>**



# IP<sup>2</sup> Activity in Japan



*Preparation for  
Global Standardization*

Long-term All IP  
Conference



**IP<sup>2</sup> AdHoc**



WDs on Requirements  
and Architecture





# **Working Document on Requirement**

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- 1 Introduction**
- 2 Service Requirements (KDDI)**
- 3 Platform Capability Requirements (NTT DoCoMo)**
  - 3.1 General Network Requirements (NTC)**
  - 3.2 General Radio Requirements (Mitsubishi)**
  - 3.3 General Terminal Requirements (Panasonic)**
  - 3.4 Mobility (NEC)**
  - 3.5 Transport (Motorola)**
  - 3.6 Service Management (Fujitsu)**
  - 3.7 Addressing/Routing (NTT)**
  - 3.8 QoS (NOKIA)**
  - 3.9 Session Management (Hitachi)**
  - 3.10 Security (Siemens)**
  - 3.11 Accounting/Billing/Charging (Sharp)**
- 4. Platform Architecture Scenarios (NTTCom)**

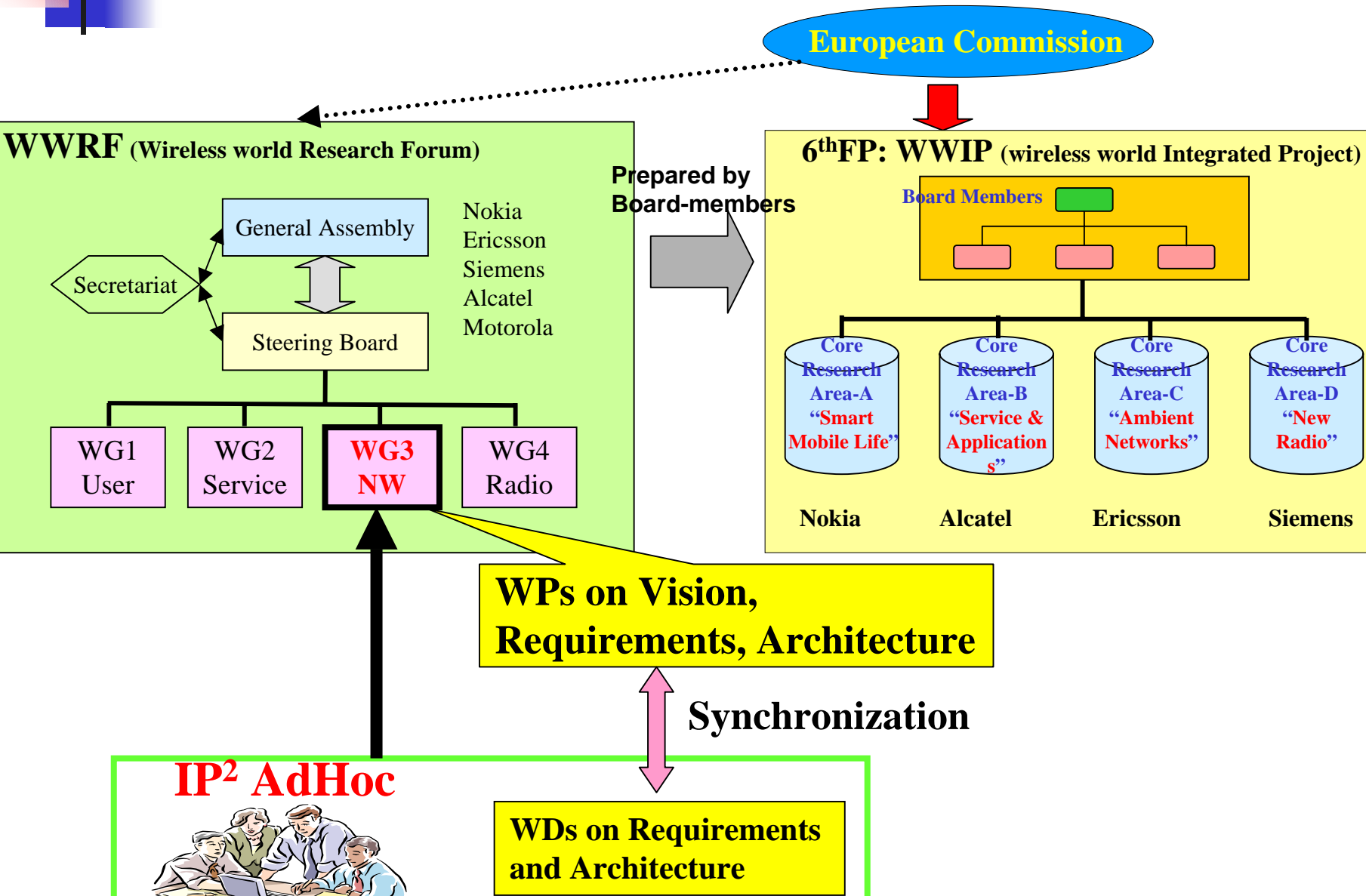


# Working Document on Architecture

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1. Introduction (Lucent)
2. References
3. Definitions and Abbreviations
4. Framework of Architecture
5. Reference Model (DoCoMo)
6. Functional Distribution and Entities (Motorola)
  - 6.3 Description of Functional Entities in Control Layer (Ericsson)
7. Interfaces and Reference Points (NEC)
8. Inter-connection model (Mitsubishi)
- Appendix (Fujitsu)

# Contribution to WWRF

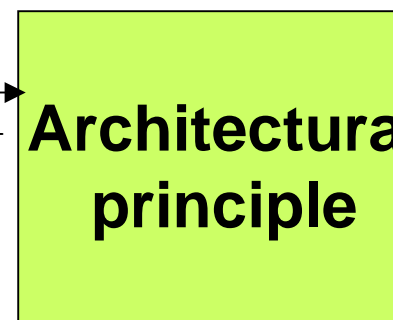
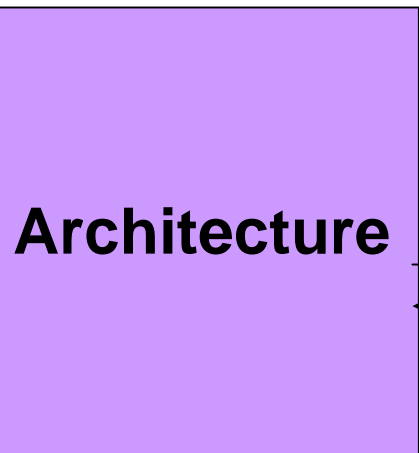
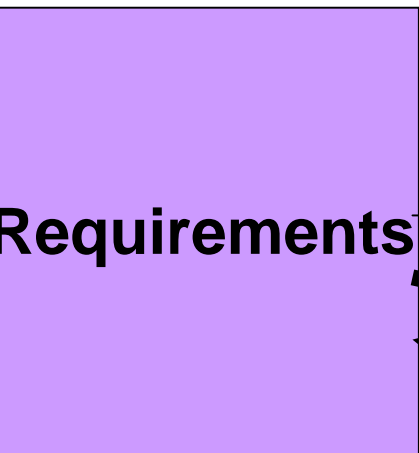


# Synchronization of IP<sup>2</sup> adhoc WDs and WWRF WPs

P<sup>2</sup> adhoc WDs

Liaison members

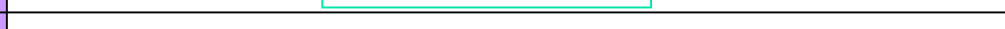
WWRF WPs



Motorola

Ericsson, Motorola,  
DoCoMo

NOKIA



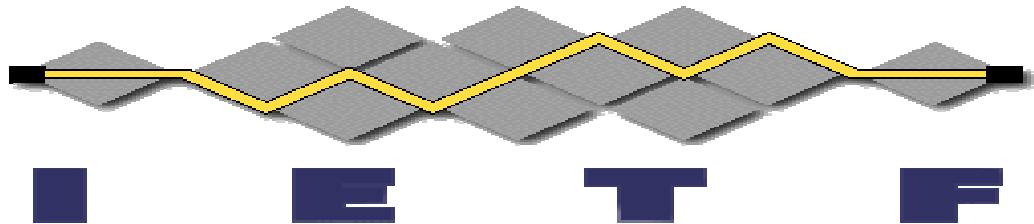


# Global Standardization for IP<sup>2</sup>



ITU-T  
IMT-SSG

*NW Vision*  
**Survive?**  
*for Beyond 3G*



*IP Coreless?*  
**Wireless?**  
*Protocols*  
**Mobility?**



*Long-term*  
**Reorganize?**  
*Evolution WIS*

**Most appropriate IP<sup>2</sup> Organization?**



# Proposal

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**Trilateral discussion  
among CCSA, TTA, and TTC  
in the direction of All IP-NW Standardization**