

Introduction of TTC

- Activities in TTC's Connected Car WG -

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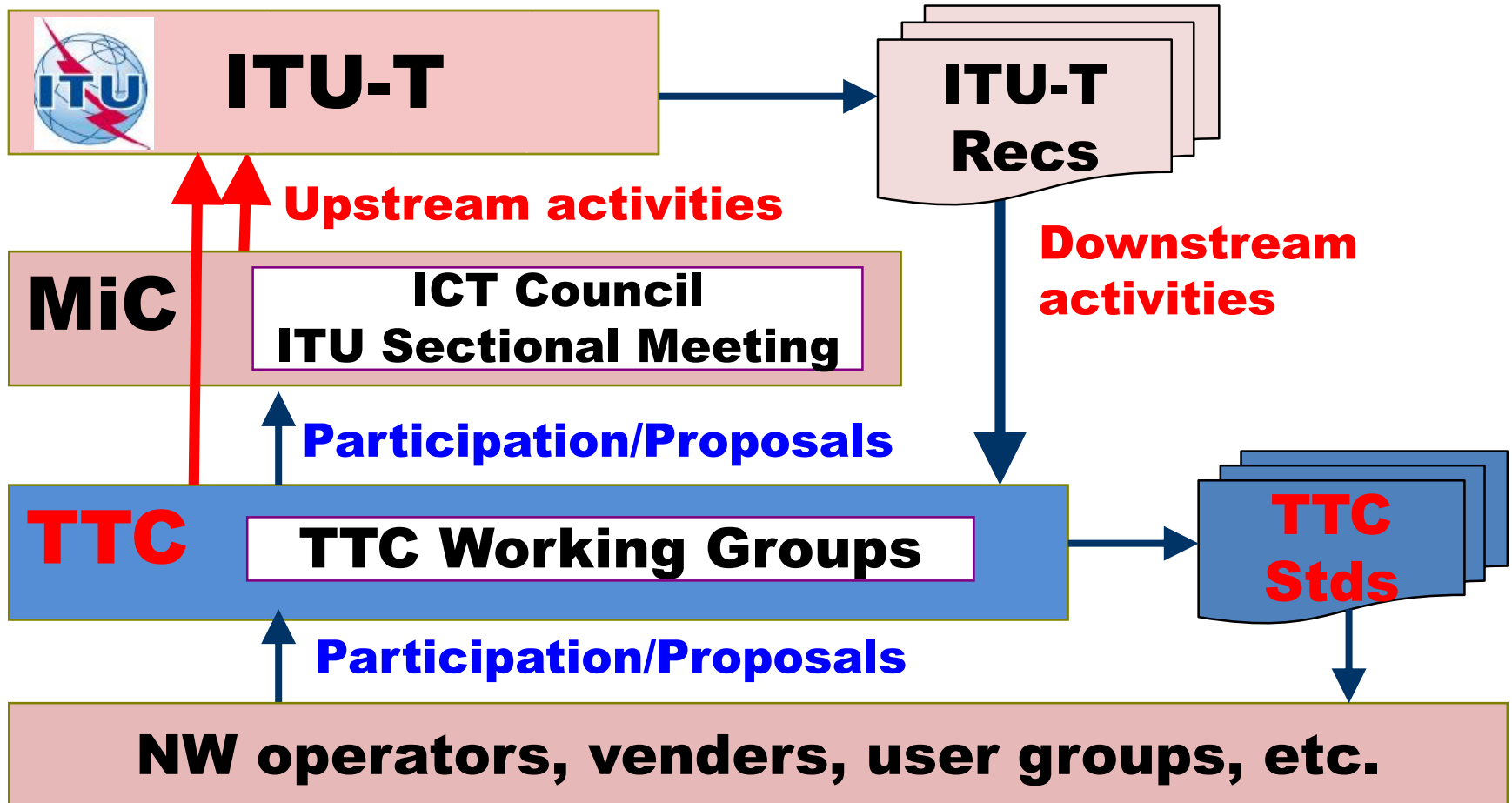
TTC, Japan

TTC's mission

- ❑ TTC is a private and non-profit organization **accredited by the Japanese Administration** as an SDO in Japan
- ❑ Established in **1985** (NTT's privatization)
- ❑ Substantial and preparatory discussions on the **upstream activities to ITU-T** are extended by TTC Working Groups (WGs) and their outcomes will be submitted to MiC for authorization
- ❑ TTC is an SDO **qualified by ITU-T Recs. A.5 & A.6**
- ❑ Our mission is to **develop and disseminate the TTC standards** and their applications/ solutions on ICTs applicable both in Japan and in other areas, in particular in the Asia-Pacific region

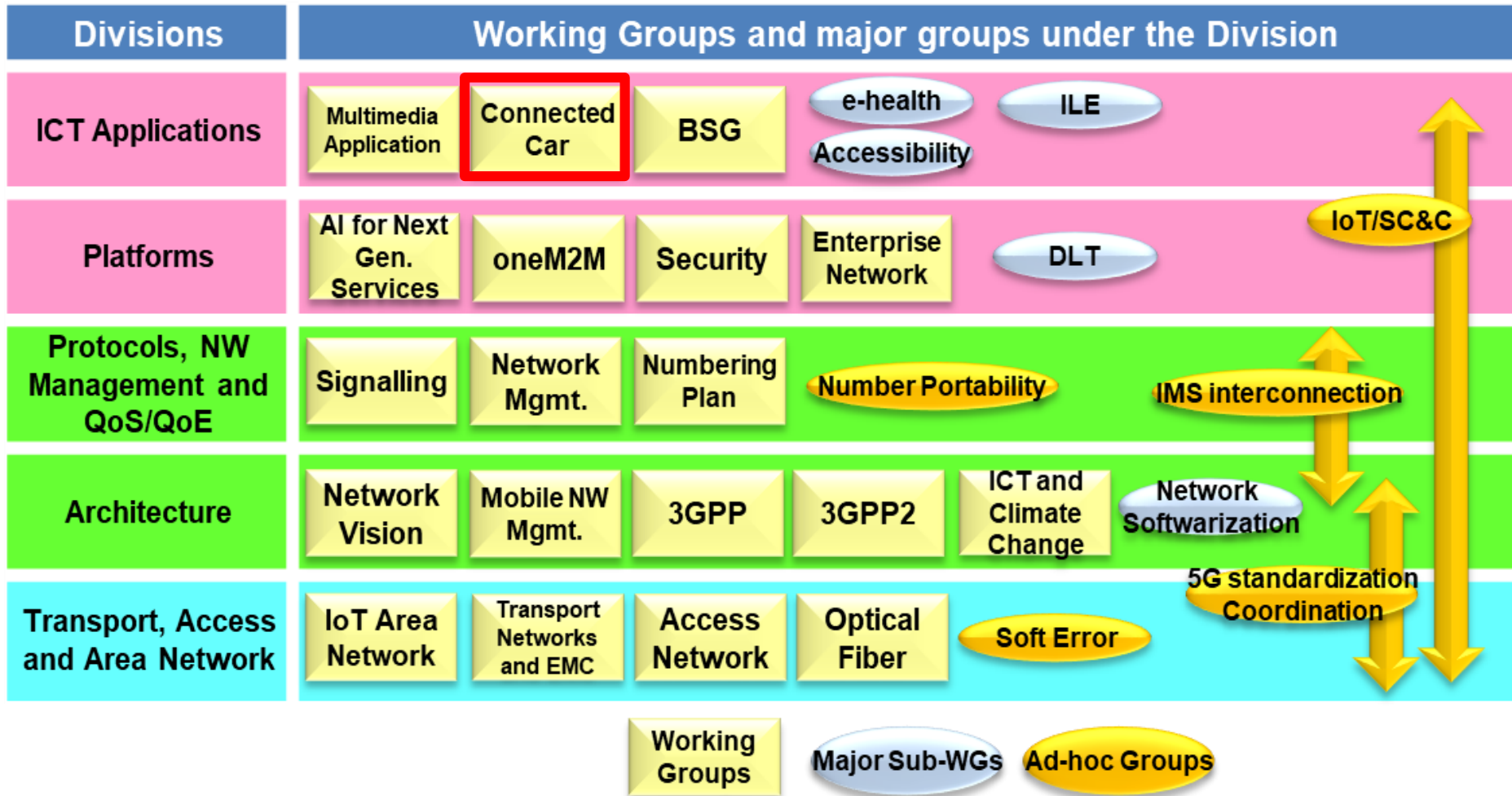
TTC Standards Development

TTC standards are developed by the TTC approval process in accordance with WTO TBT agreement.



[Notes] MiC: Ministry of Internal Affairs and Communications
WTO: World Trade Organization TBT: Technical Barriers to Trade

Working Groups structure in TTC



BSG: Bridging the Standardization Gap
 3GPP :3rd Generation Partnership Project
 Internet of Things
 SC&C: Smart Sustainable Cities & Communities

M2M (Machine to Machine),
 3GPP2:3rd Generation Partnership Project two
 IoT:
 ILE:Immersive Live Experience

Connected Car working group in TTC

Established in 2016

● Purpose

- Discussion and deliberation on specifications related to domestic and international standardization of communication technology related to cars

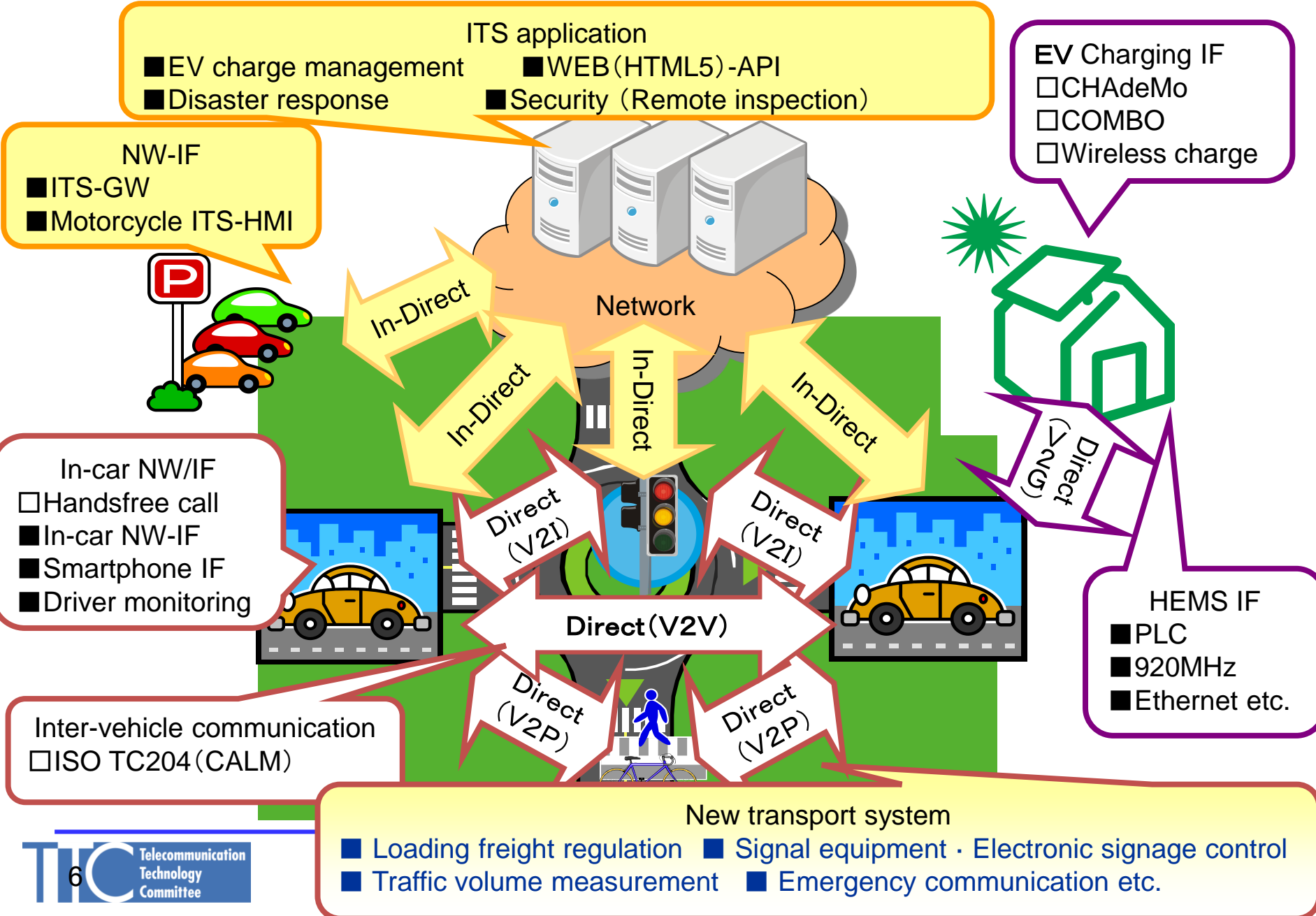
● Activities

- Study of international cooperation issues (CITS etc.)
- Utilization of ITS at the time of disaster, examination of standardization tasks (proposal to ASTAP etc.)
- Examination of security IF on communication of car such as automobile remote inspection

● Expected results

- Domestic standards on cars, specifications, technical reports, preparation of survey reports
- Upstream activity to CITS, ASTAP, ISO, ITU-T, oneM2M etc.
- Hosting seminars related to timely connected cars

Connected Car WG Study Maps



APT Recommendations Developed by ASTAP

No.	Title	Date
APT/ASTAP/REC-2	Specification of Information and Communication System using Vehicle during Disaster	10/ 2018

APT Reports Developed by ASTAP

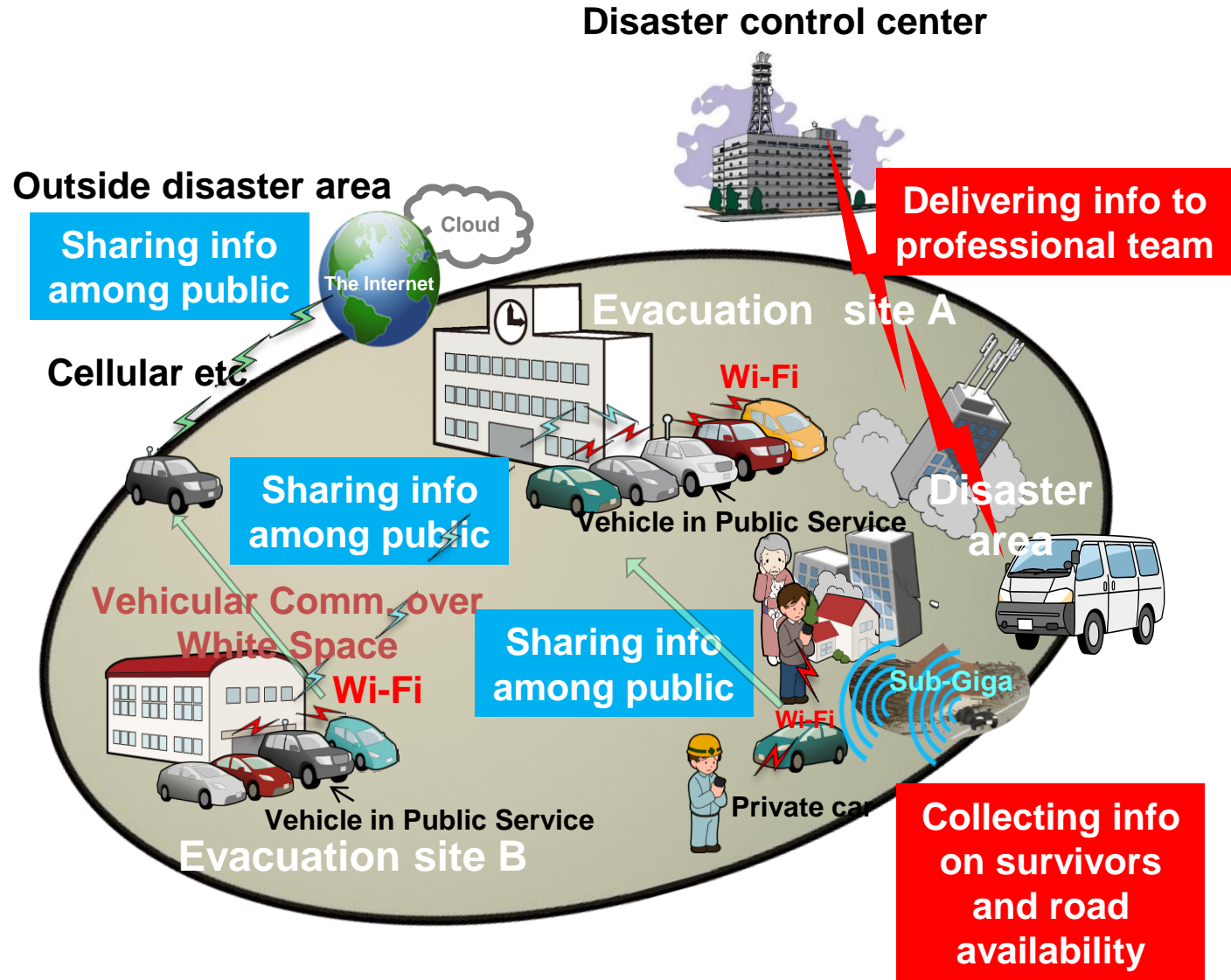
No.	Title	Date
APT/ASTAP/REPT-18	APT Report on Disaster Information Sharing System in APT Countries	09/ 2015
APT/ASTAP/REPT-21	APT Report on Requirements of Information and Communication System Using Vehicle during Disaster	09/ 2015

Detailed list of APT Recommendations and Reports can be found at;
<http://www.apr.int/APTASTAP-OUTCOMES>

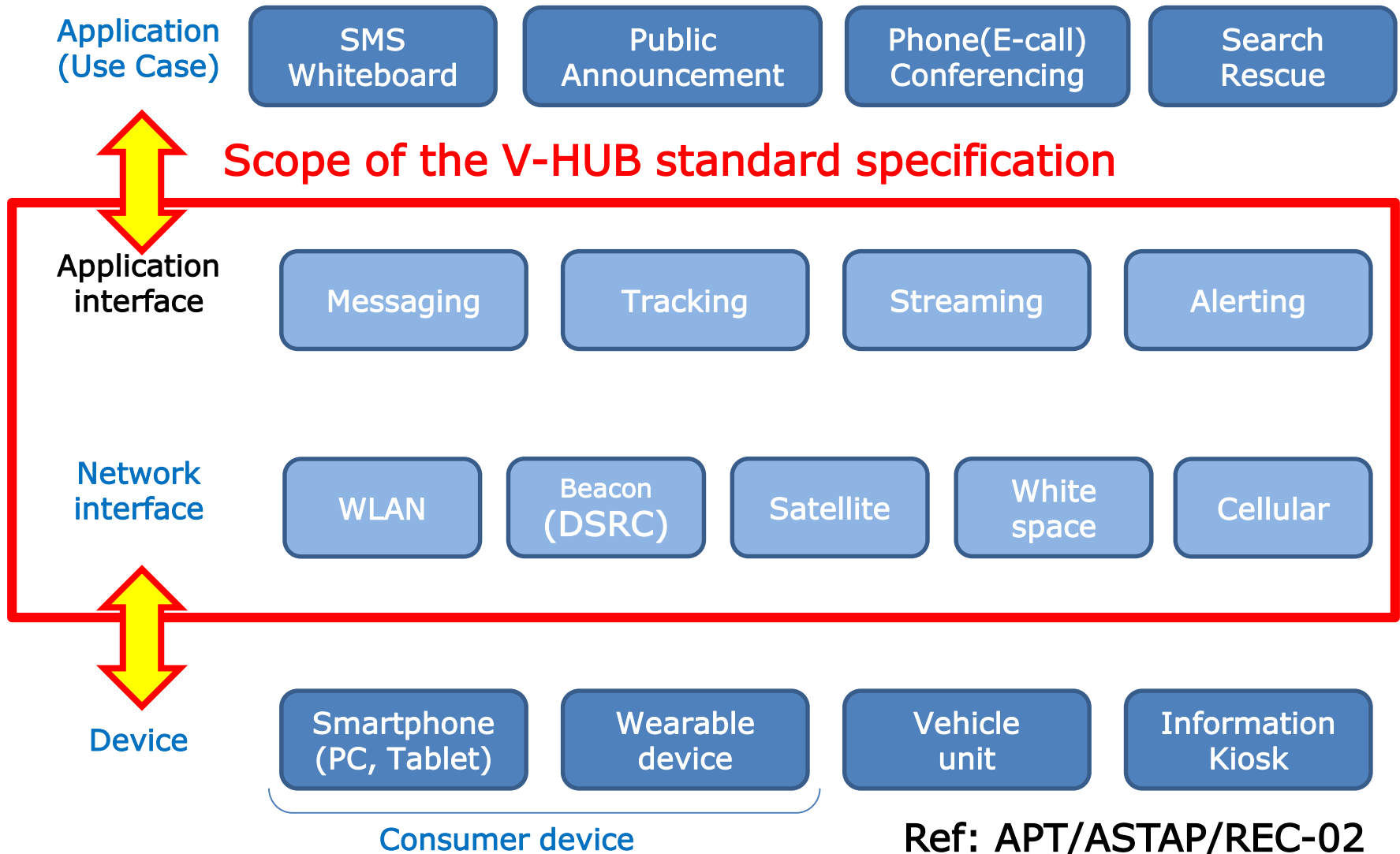
ICT System using Vehicle during Disaster

VHUB STANDARD

- Develop a set of utilization standards for vehicles as
- ✓ Nodes in resilient communications networks
- ✓ Information and power hubs in disasters
- Elicit contributions and experiences from Asian experts in
- ✓ Intelligent Transport Systems
- ✓ Disaster response
- Develop a draft specification document for presentation and discussion in ASTAP and future standardization efforts



V-HUB system Recommendation



Thank you very much for your attention !

If you have any comments or questions,
please contact to

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