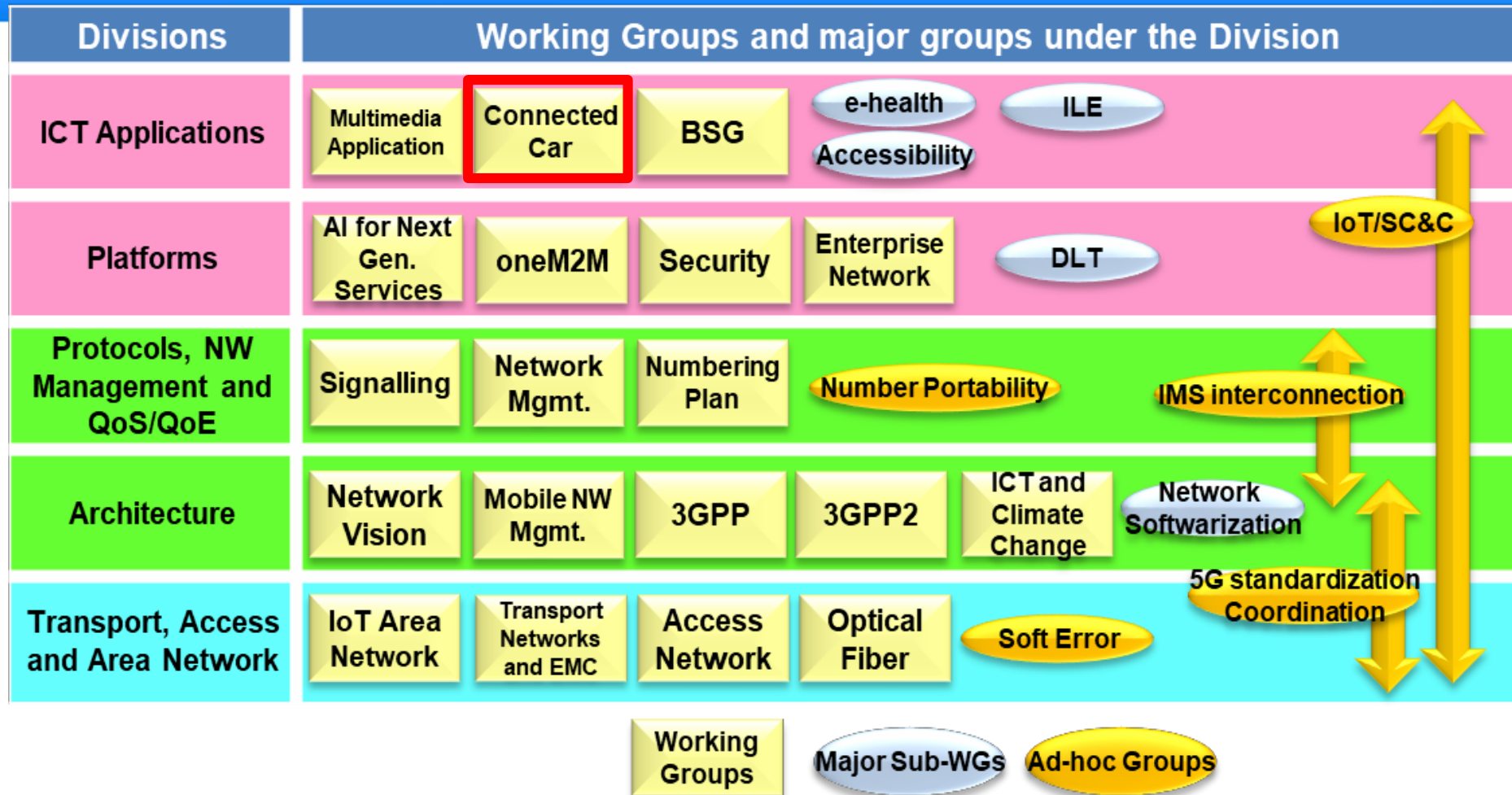


Overview of Working Group on Connected Car

Chair of Working Group
on Connected Car
Yasubumi Chimura

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

- Established on 24th May 2016

■ OBJECTIVE

- Discussion and Deliberation on specifications related to domestic and international standardization of communication technology related to Vehicles

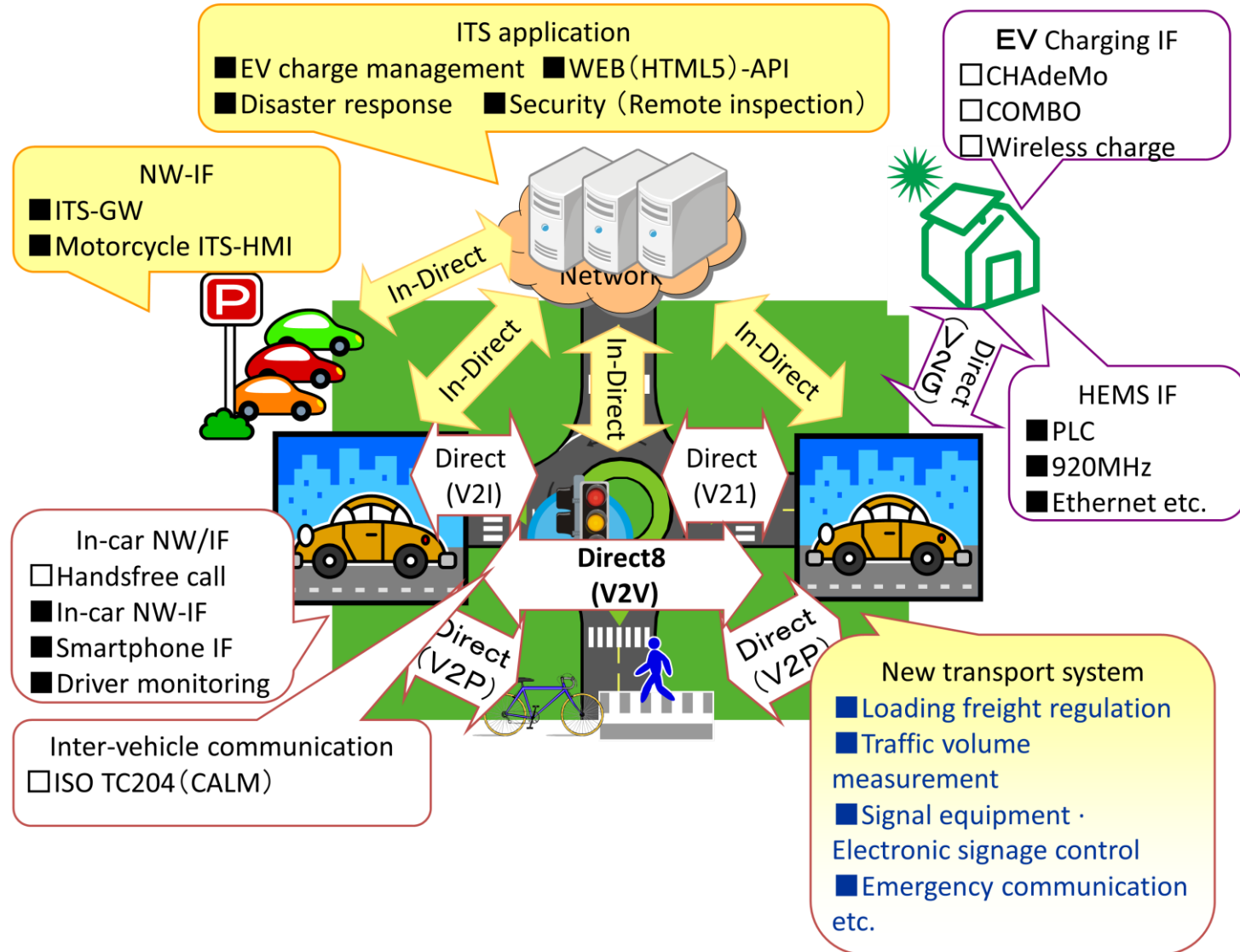
■ ACTIVITIES

- 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 vehicle such as automobile remote inspection

■ EXPECTED OUTCOMES

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

STUDY MAP



V-Hub and disaster-relief related standards

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

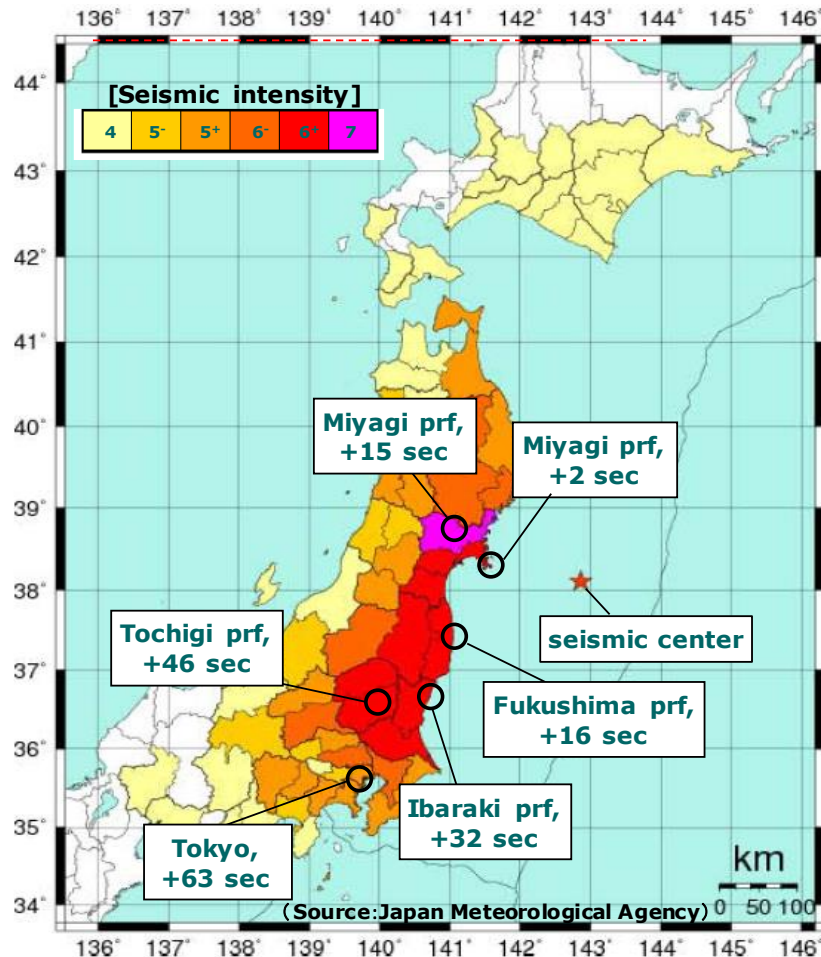
No.	Title	Date
APT/ASTAP/REPT-18	APT Report on Disaster Information Sharing System in APT Countries	09/ 2015
APT/ASTAP/REPT-21	APT Report on Requirements of Information and Communication System Using Vehicle during Disaster	09/ 2015

Detailed list of APT Recommendations and Reports can be found at;

<http://www.apr.int/APTASTAP-OUTCOMES>

Arrival time of destructive quakes in the case of Tohoku-Pacific Ocean Earthquake on 2011

5



P-Wave : 6~8km/sec
S-Wave : 3~5km/Sec

Event	Time
Earthquake occurrence	14:46.40
P-Wave detection @ seismometers	14:46.40
Data of Early Warning Distributed by JMA	14:46.48
Uplink from Satellite	14:46.48 (+0 sec)
Received by users	14:46.48 (+0.3sec)
S-Wave detected @ Fukushima	14:47.04 (+16 Sec)
S-Wave detected @ Ibaraki	14:47.20 (+32 Sec)
S-Wave detected @ Tokyo	14:47.51 (+63 Sec)

Surviving rate after Great Earthquake

6

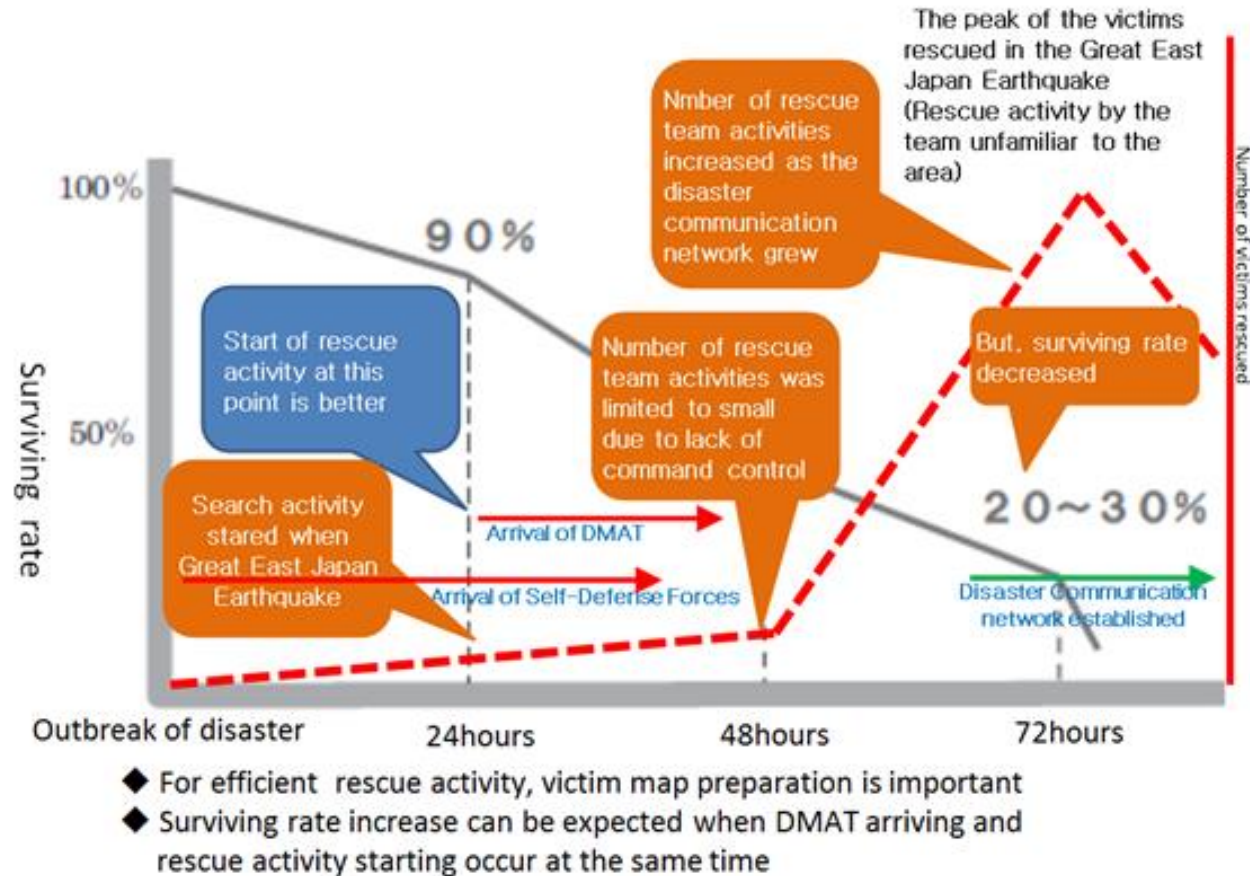
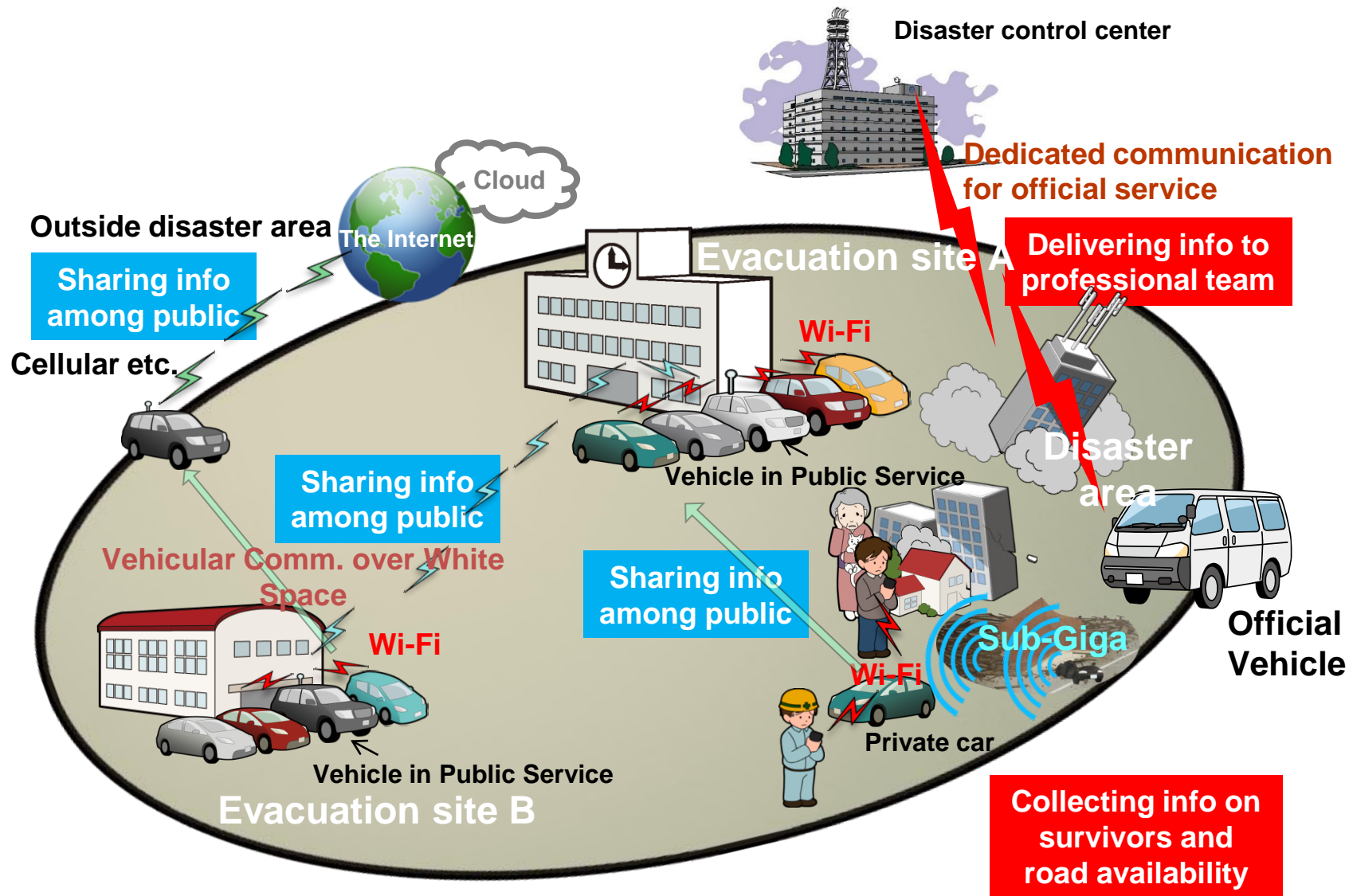


Fig. 3-1 Surviving rate and number of victims rescued by DMAT ↓
after the Great East Earthquake ↓
(The surviving rate is referred from Reference 1)↗

Information and Communication System using Vehicle during Disaster



The V-HUB system

