ITS Stakeholders

C2C-CC Europe
CAMP USA
OEMs Japan

Road authorities
Road operators
ASECAP – CEDR

OEMs

Infra structure

European Commission
INFSO – MOVE - ENTR
ITS Directive
US DOT – NHTSA
MLIT

Regulators

Suppliers

Global suppliers
Participating in Standardisation

Operators

Standards

Public operators

ETSI TC ITS
CEN TC 278
ISO TC 204 / ITU
IEEE/SAE
National standards -ANSI

ANSI   cen   CENELEC   ETSI
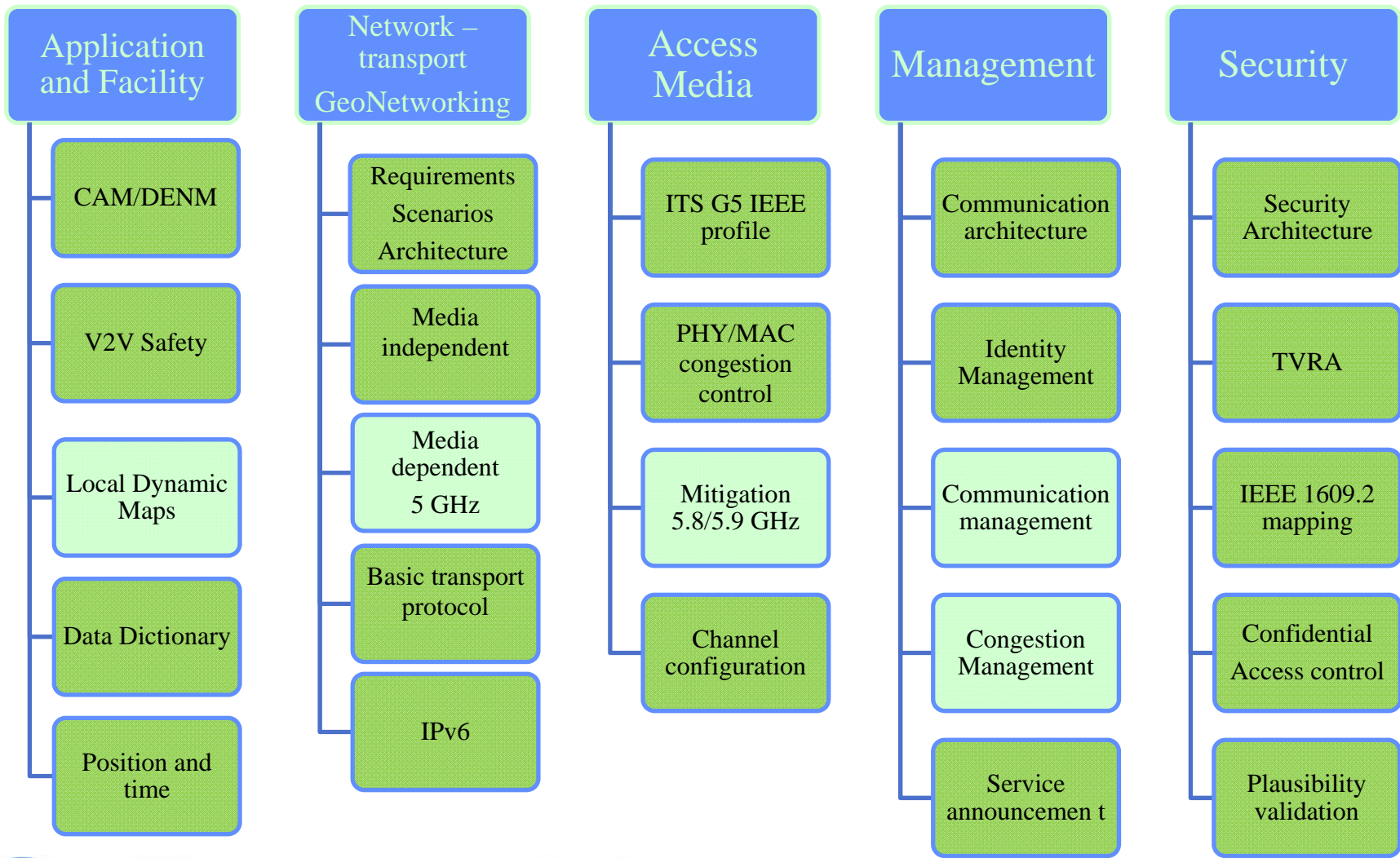
EC Mandate M/453 – split of responsibility

☐ CEN responsibility

— Framework architecture

— Infrastructure applications

— Traffic management

— Part of Facility layer standards

☐ ETSI responsibility

— Communication architecture

— V2V applications

— Part of Facility layer standards

— Network and transport layer

— Access and Media layer

— Management layer

— Security layer

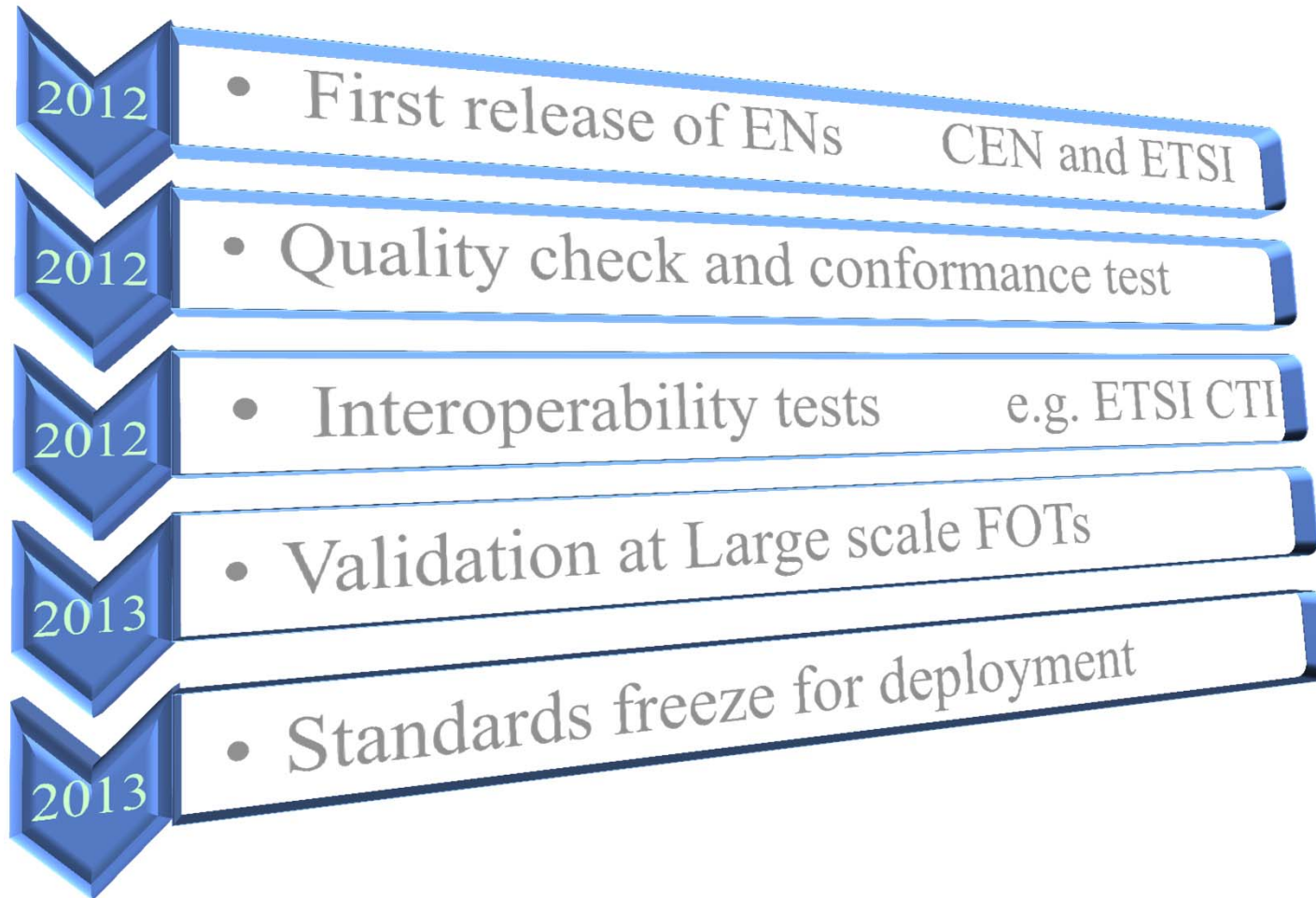— Conformance and interoperability tests
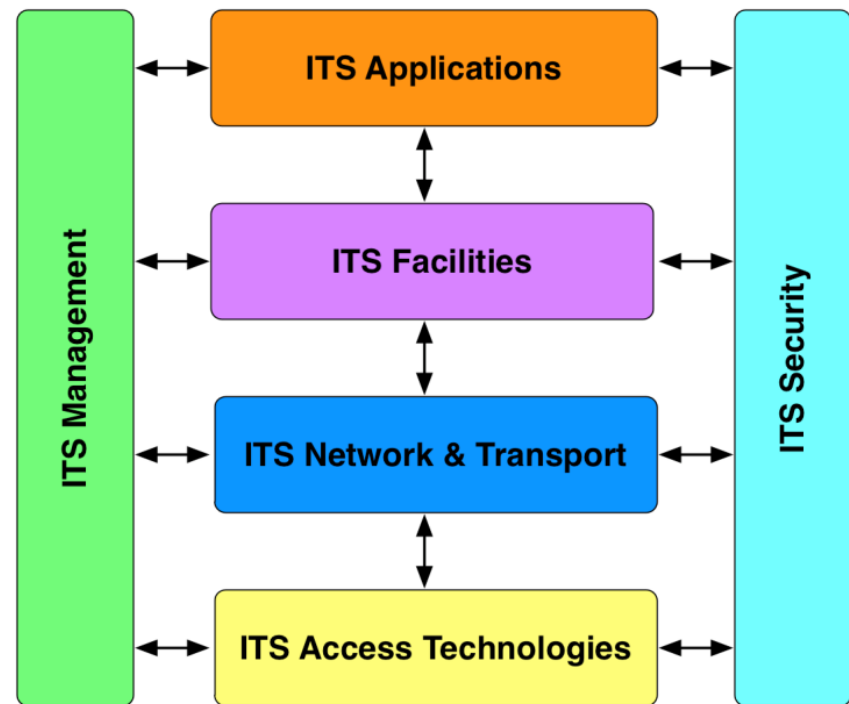
- Work under Mandate to be finalised mid 2012
- 60-70 EN standards to be provided
- ITS Coordination Group with the EC

ITS station architecture & standardization areas

Application and Facility	Network – transport GeoNetworking	Access Media	Management	Security
CAM/DENM	Requirements Scenarios Architecture	ITS G5 IEEE profile	Communication architecture	Security Architecture
V2V Safety	Media independent	PHY/MAC congestion control	Identity Management	TVRA
Local Dynamic Maps	Media dependent 5 GHz	Mitigation 5.8/5.9 GHz	Communication management	IEEE 1609.2 mapping
Data Dictionary	Basic transport protocol	Channel configuration	Congestion Management	Confidential Access control
Position and time	IPv6		Service announcemen t	Plausibility validation

ANSI   cen   CENELEC   ETSI

Standards towards deployment – 2012-2013

2012 • First release of ENs — CEN and ETSI

2012 • Quality check and conformance test

2012 • Interoperability tests — e.g. ETSI CTI

2013 • Validation at Large scale FOTs

2013 • Standards freeze for deployment

EU – US – JP standards cooperation

High level declaration

European Commission – US.DOT - MLIT

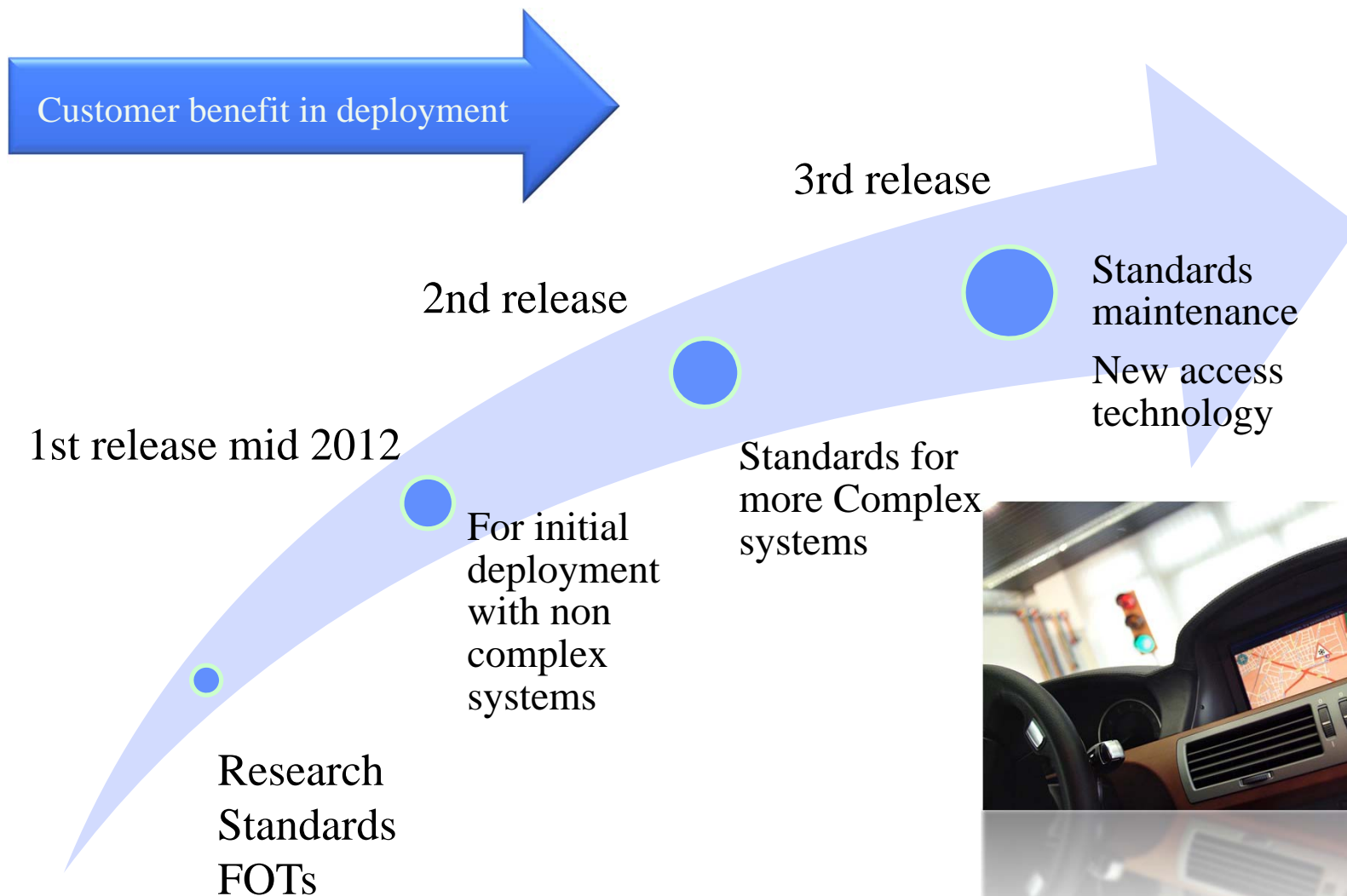| Harmonised Safety applications	Harmonised sustainability applications	Harmonisation of standards for ITS	Assessment Tools	HMI and driver distraction

IEEE / SAE   ETSI TC ITS   CEN/ISO

Joint demonstration during World Congress in Vienna 2012

Standards for deployment

Customer benefit in deployment

3rd release

2nd release

Standards maintenance

New access technology

1st release mid 2012

Standards for more Complex systems

For initial deployment with non complex systems

Research Standards FOTs

ITS standardisation opportunities

❑ Adopt a set of standards based on a common communication architecture – To be finished in 2012

❑ Coordinate activities with international and national standards organisations – strong liaison activities

❑ Achieve common hardware for ITS deployment via standards – typical media and security standards

❑ Ensure global approach for deployment - but:

    not too much and too late....

<u>4th ETSI TC ITS workshop</u>
7 – 9 February 2012
Doha, Qatar