



European
Commission

ASECAP DAYS



PARIS 2017

Innovative megatrends in the road transport sector

Tuesday 30 may 2017 - Pullman Paris Montparnasse - 14h30 - 16h00



@Transport_EU

Mobility and
Transport

CONNECTING
EUROPE



Day 1
Cooperation starts

Day 2
Automation starts

Day 3
Coordination starts

Day 4
Driverless world

"I share where I am
and what I hear"

"I share my
perception data"

"I share my
intentions"

"We coordinate all
manoeuvres"

Hybrid connectivity
(3G/4G + ITS-G5)

Hybrid includes 5G

Hybrid 5G
connectivity

Hybrid 6G
connectivity

Advanced Driver
Assistance Systems

Some Roads
human backup

Most Roads
NO human backup

Fully automated

2019

2021

2023

2025

2030

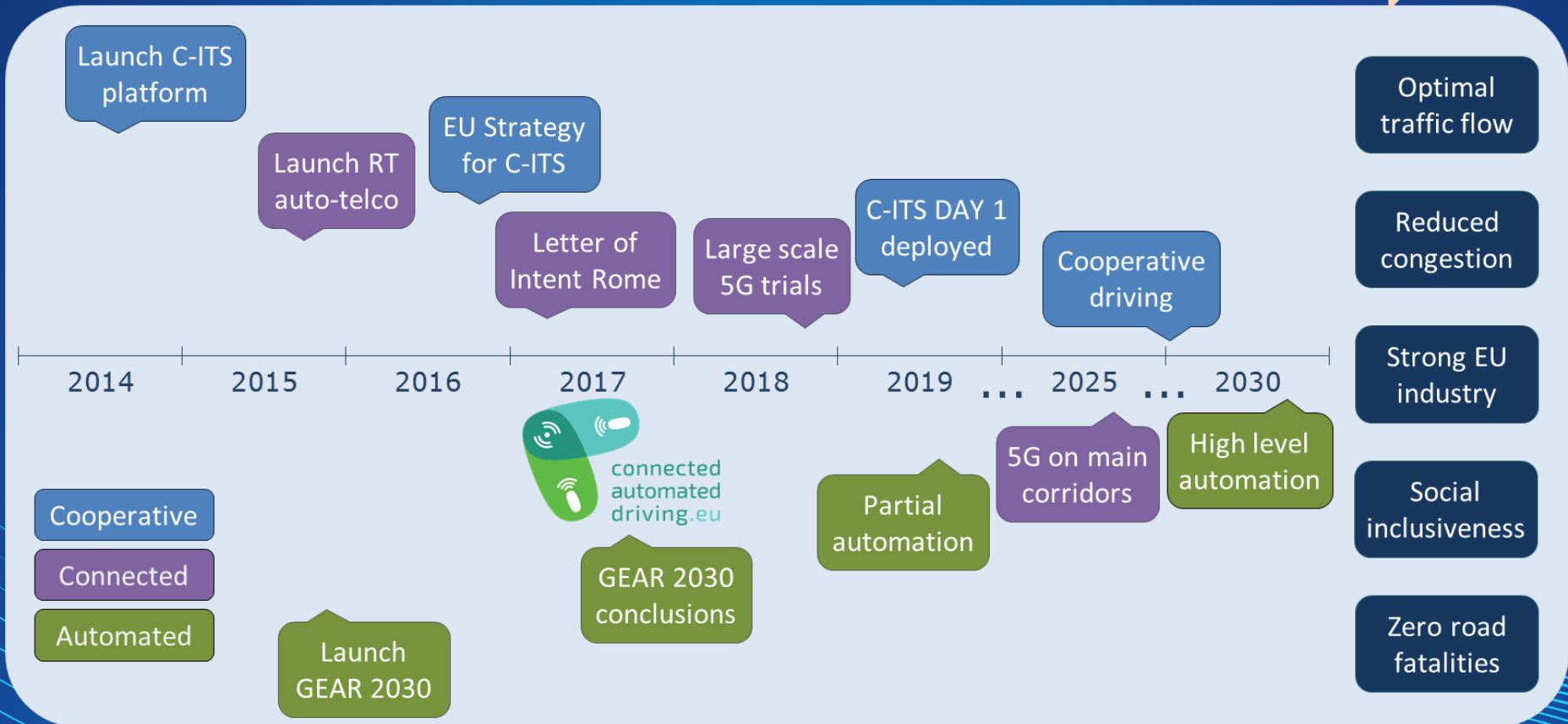
2035

2040

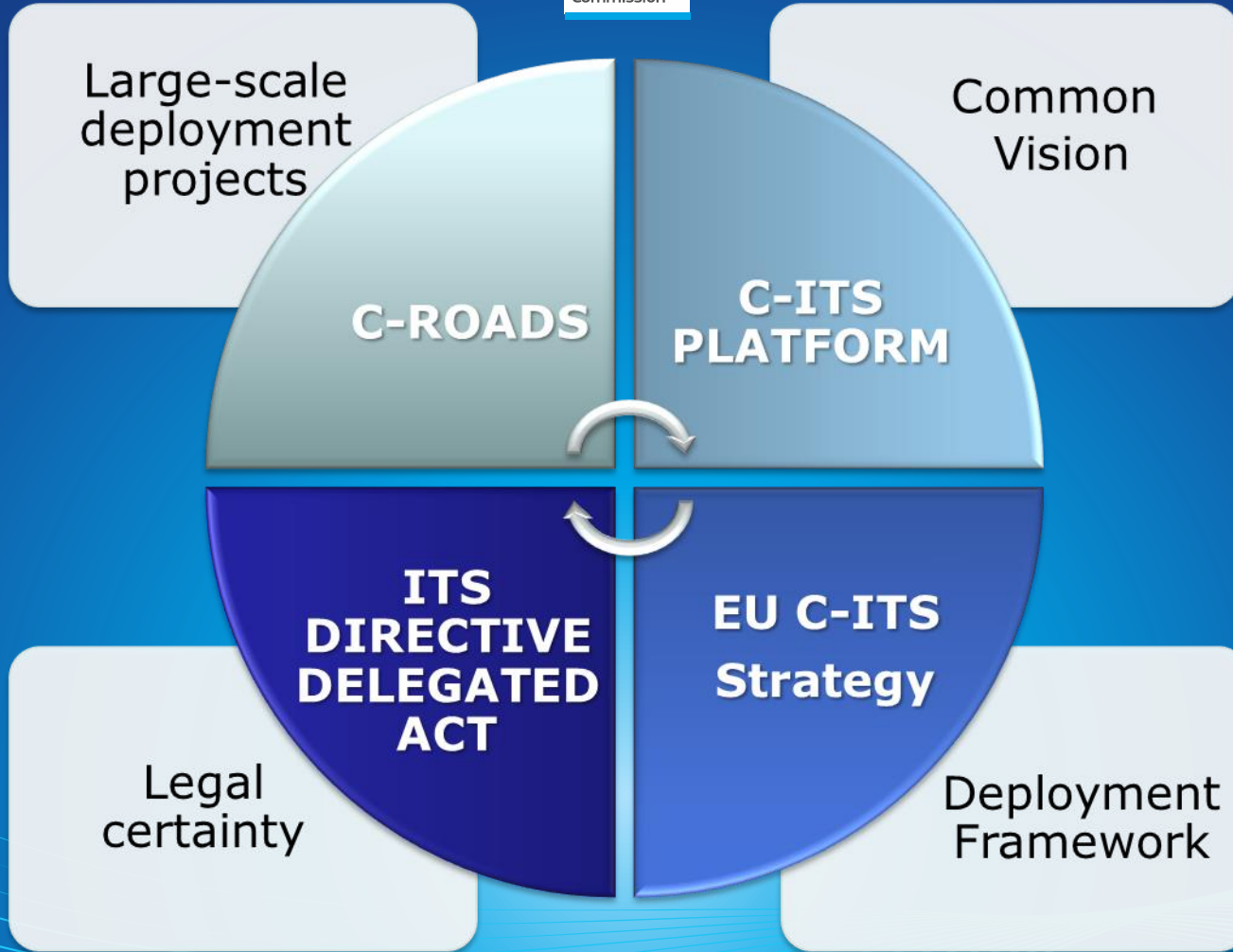
2045



Connecting Europe Facility / C-ROADS Platform



Transport Research & Innovation / Horizon 2020





A European Strategy on C-ITS

- Adopted 30 November 2017
- Setting the scene for connected, cooperative and automated mobility
⇒ these are three complementary developments and convergence is necessary to maximise benefits
- Specific target and actions for C-ITS deployment of Day 1 & 1,5 services using hybrid communication ⇒ 2019
- Considering Delegated Act in 2018
 - Continuity of C-ITS services
 - Security of C-ITS communications
 - Practical implementation of the GDPR for data protection
 - Compliance assessment & interoperability



C-ROADS platform

- Bringing together C-ITS deployment initiatives to ensure interoperability in a three step approach:
 1. Jointly define technical specifications
 2. Deploy
 3. Cross-site testing
- Membership does NOT depend on CEF co-funding
- 8 core members + 4 associated members
- Already over 150m€ in deployment investments
- More core members and investments expected from CEF 2016 call



C-ITS platform phase II

- Support and contribute to the common strategy for connected, cooperative and automated vehicles in the EU
- Continuing important work on Security, Data Protection, Business models and Compliance assessment
- Introducing links with automation in new WGs on
 - C-ITS and automation in urban areas
 - Enhanced Traffic Management
 - Road Safety
 - Physical and digital Road Infrastructure



C-ITS Platform 2014-2017 - C-ITS Security

- Phase I: Agreement on a common trust model approach in Europe
- Phase II (ongoing): Joint drafting of a common security and certificate policy towards an EU-wide C-ITS Credential Management System (EU CCMS)
- **First release of certificate policy** now finalised and stable, defines common rules for:
 - EU root CA + root CA run by MS or private organisations
 - EU wide coordination mechanism
- Next step: Implementation of the EU CCMS including setup of common European elements through a pilot phase, followed by the operational phase





C-ITS Platform – WG Infrastructure

- Physical infrastructure will increasingly be complemented by Digital
 - Need for consistency between physical / digital – Public / Private
- Need for data exchange ⇒ automated vehicles shall be connected
 - Building on hybrid communication defined in EU Strategy on C-ITS
- Infrastructure support and C-ITS likely both needed to handle complex traffic situations / Intersections
- Key road attributes in support for CCAM ⇒ increase predictability
- Position support will be key ⇒ differences between urban / highway
- Developments on highways and urban might largely be parallel



Thank you for your attention



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