



2016 MELBOURNE

23rd World Congress on Intelligent Transport Systems

Melbourne Convention and Exhibition Centre

10–14 October 2016

MEET IN ASIA PACIFIC FOR THE
WORLD'S LEADING TRANSPORT TECHNOLOGY EVENT

ACTIVATING GLOBAL MOBILITY SOLUTIONS

ITS—ENHANCING LIVEABLE CITIES AND COMMUNITIES



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ERTICO – ITS Europe

ElectroMobility charging and interoperability



Overview

- ElectroMobility Programme @ Ertico
- Interoperability versus standard
- eMI³
- European strategy for interoperability



eMobility programme @

Scope & background



- Electro-Mobility (eMobility) is:
 - Electric Vehicles (EVs): Plug-in Hybrid (PHEV) and Full EVs (FEV)
 - supported by ICT (in-vehicle information, connected infrastructure)
 - using charging and grid infrastructure
 - focusing on ITS for EVs
- European priority supporting eMobility:
 - “Clean Power” directive (2014/94/EU on the "deployment infrastructure" including Electric Vehicle & infrastructure)
 - EC research programmes: in particular European Green Cars Initiative
- *ERTICO task force on ITS for Electro-Mobility (2010-12):*



eMobility ICT Interoperability Innovation platform

eMobility programme @

Overall Objective



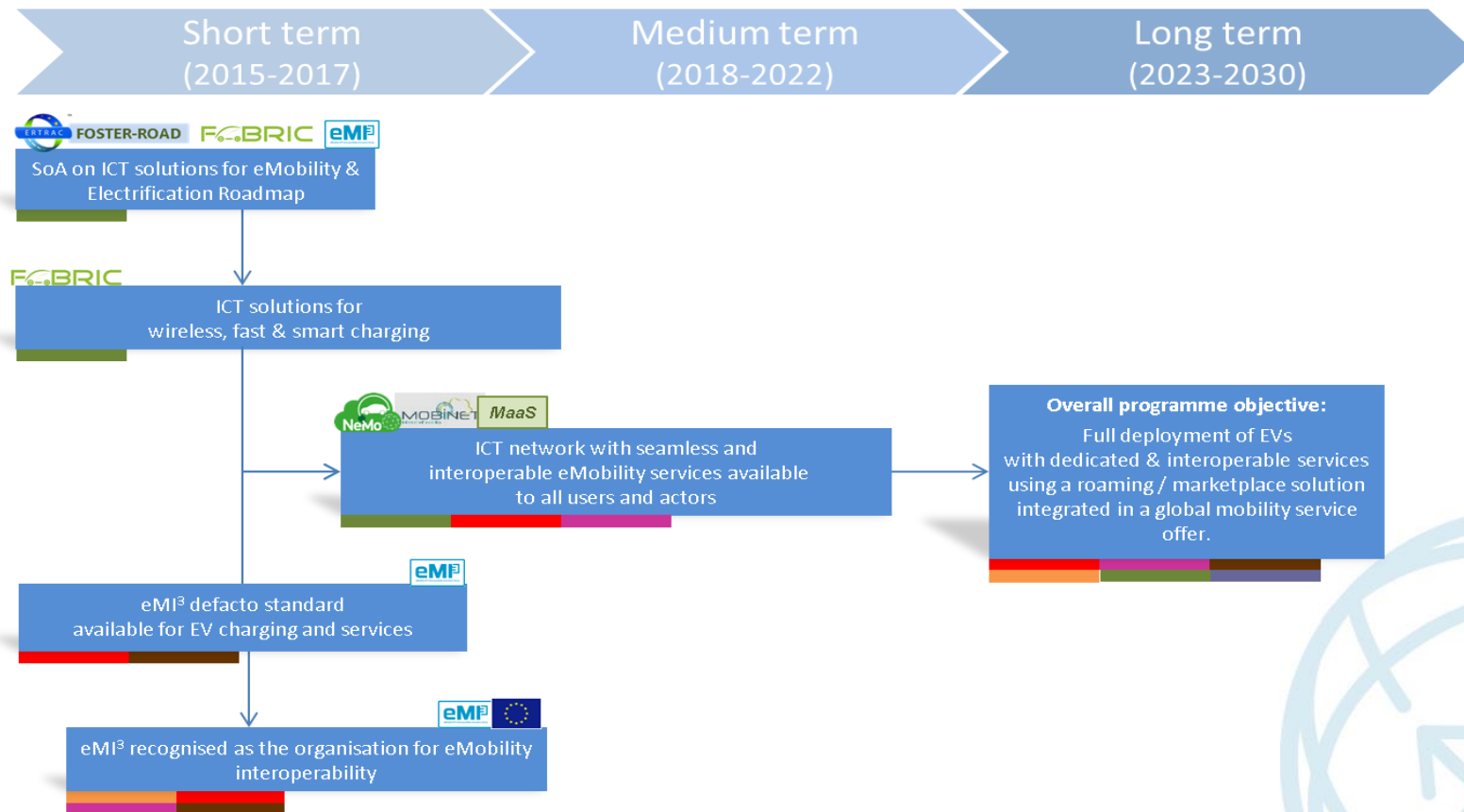
Full deployment of EVs
with dedicated and interoperable services
using roaming / marketplace solution
integrated in a global mobility service offer

Challenge: Multitude of cross-sector actors leading to information and interoperability issue















eMobility programme @



roadmap



Standard versus Interoperability

Value	Specifications / Description
DOMESTIC-A	Standard/Domestic household, type "A" 
DOMESTIC-B	Standard/Domestic household, type "B" 
DOMESTIC-C	Standard/Domestic household, type "C" 
DOMESTIC-D	Standard/Domestic household, type "D" 
DOMESTIC-E	Standard/Domestic household, type "E" 
DOMESTIC-F	Standard/Domestic household, type "F" 
DOMESTIC-E-F	Standard/Domestic household, type "E+F" 
DOMESTIC-G	Standard/Domestic household, type "G" 
DOMESTIC-H	Standard/Domestic household, type "H" 
DOMESTIC-I	Standard/Domestic household, type "I" 
DOMESTIC-J	Standard/Domestic household, type "J" 
DOMESTIC-K	Standard/Domestic household, type "K" 
DOMESTIC-L	Standard/Domestic household, type "L" 
DOMESTIC-M	Standard/Domestic household, type "M" 

eMobility ICT Interoperability Innovation

Accelerating E-Mobility to the next level through Open ICT Standards

- eMI³ represents different industries and different countries which are active in the e-mobility ecosystem.
- Evolved in 2012 mainly from the Green eMotion project and therefore has a strong foundation within the EU commission .
- eMI³ transformed into a non-profit organization under Belgium law (AISBL) coordinated by ERTICO.
- The organization is consensus based.

An open and cross industry organization
is best suited to drive ICT standardization



Main objectives

- Enable global Electric Vehicles(EV) services interoperability by harmonizing existing ICT data and protocols, and proposing new ones where none are yet defined.
- Strive to rapidly grow a large market by supporting all required business processes to ease and speed-up the introduction of new services.
- Liaise and coordinate with other EV organizations and initiatives to maximize interoperability and minimize effort.



AISBL members

Full



Associate

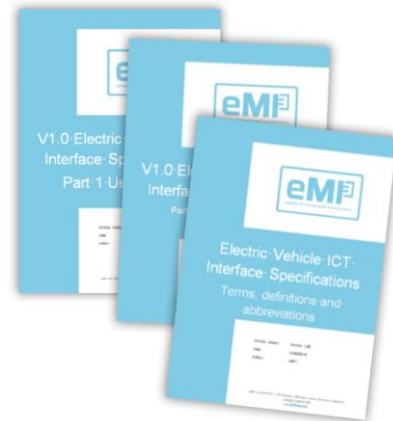


Supporter



Achievement and current activities

- 23/06/2015: submitted document on EV interoperability to EC-DG-Move
- 16/11/2015: eMI³ Standard v1.0 released
 - Terms, definitions and abbreviations
 - Part 1: Overview & Use Cases
 - Part 2: Business Objects
- 01/12/2015: eMI3 AISBL created in December 2015, with:
- 05/12/2015: session @ COP21 on EV interoperability



2016

- active participation in the EC - Sustainable Transport Forum SG to foster the creation of an ElectroMobility market of services
- Focus on Use cases Smart Charging



EC strategy vs Interoperability

Sustainable Transport Forum

SG to foster the creation of an ElectroMobility market of services

Target of the SG is to:

- define interoperability and formulate minimum requirements for EU charging points;
- recommend common European standards and procedures beyond the Directive 2014/94/EU, to help the deployment of eMobility services;
- propose guidance to develop a European framework for an eMobility market of services.

Result:

MoU on the adoption of common data Formats & Communication protocols to identify charging points and contracts



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Thank you

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