



EasyWay

DATEX II User Forum 20/21 March 2012 - Stockholm

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**Introduction to the
Deployment Guideline 2012 process**

Why Deployment Guidelines in EasyWay?

How are the EasyWay Deployment Guidelines structured?

Which Deployment Guidelines exist?

How are they created: the DG2012 process

Challenges for EasyWay: interaction between working groups to cooperate on Deployment Guideline elements

Conclusions



What does the EasyWay project want to achieve?

- **Goal:** improvement of the situation on the road regarding safety, efficiency and environment by means of ITS
- **Approach:** use of seamless (i.e. Including cross border) and interoperable ITS services for European road users and hauliers → no geographical, administrative or language barriers
- **Vision:** the road user knows where to expect which ITS services according to the operating environment, all over Europe
- **Action:** development and comprehensive use of coordinated guidelines („*Deployment Guidelines*“ – DGs) for specific ITS services

Important: service harmonisation

- perception of the service by the road user
- interoperability of services (external interfaces)

but not: standardisation of system internals!

Creation of a pan European understanding of

- long and mid term goals (⇒ **General Framework**) and benefit of ITS-Services (⇒ **ITS-Service Radar**)
- (coarse) functional structure of ITS Services ⇒ **Functional Requirements**
- (coarse) organisation of ITS Services ⇒ **Organisational Requirements**
- state of the art ⇒ **Best Practices** (had been the focus of the 2010 guidelines)

Harmonisation of

- visualisation of information to road users (partly also to system operators)
⇒ **Common Look & Feel**
- criteria for assessing the quality of ITS Services from a road user's perspective
⇒ **Level of Service (LoS)**
- Allocating appropriate LoS based on a commonly agreed classification of the European road network TERN
⇒ **Operating Environments**
- data profiles (DATEX II) and use of appropriate technical standards
⇒ **Technical Requirements**

EasyWay Harmonisation Concept – European Added Value

EasyWay-DG2012



local ITS-Service instances



Most important new feature in DG2012: part A with binding recommendations!

Common use of language:
must, may, ...

Harmonisation requirements on different levels:

- Functional
- Organisational
- Technical (incl. data profiles)
- Common Look & Feel

Service criteria and LoS mapping to EW Operating Environments Compliance Checklist

(Common) Introduction (~5 pages)

- Concept and use of DGs (incl. “*comply or explain*” principle)

Part A: Harmonisation Requirements (~10-15 pages)

- Requirements that shall be applied when implementing the ITS core service
 - Service definition
 - Functional / Organisational Requirements
 - Technical Requirements (incl. Reference to standards, where applicable)
 - Common look and feel
 - Level of Service Definition
 - LoS related to Operating Environments – minimum / optimum levels

Part B: Supplementary Information (as many pages as required)

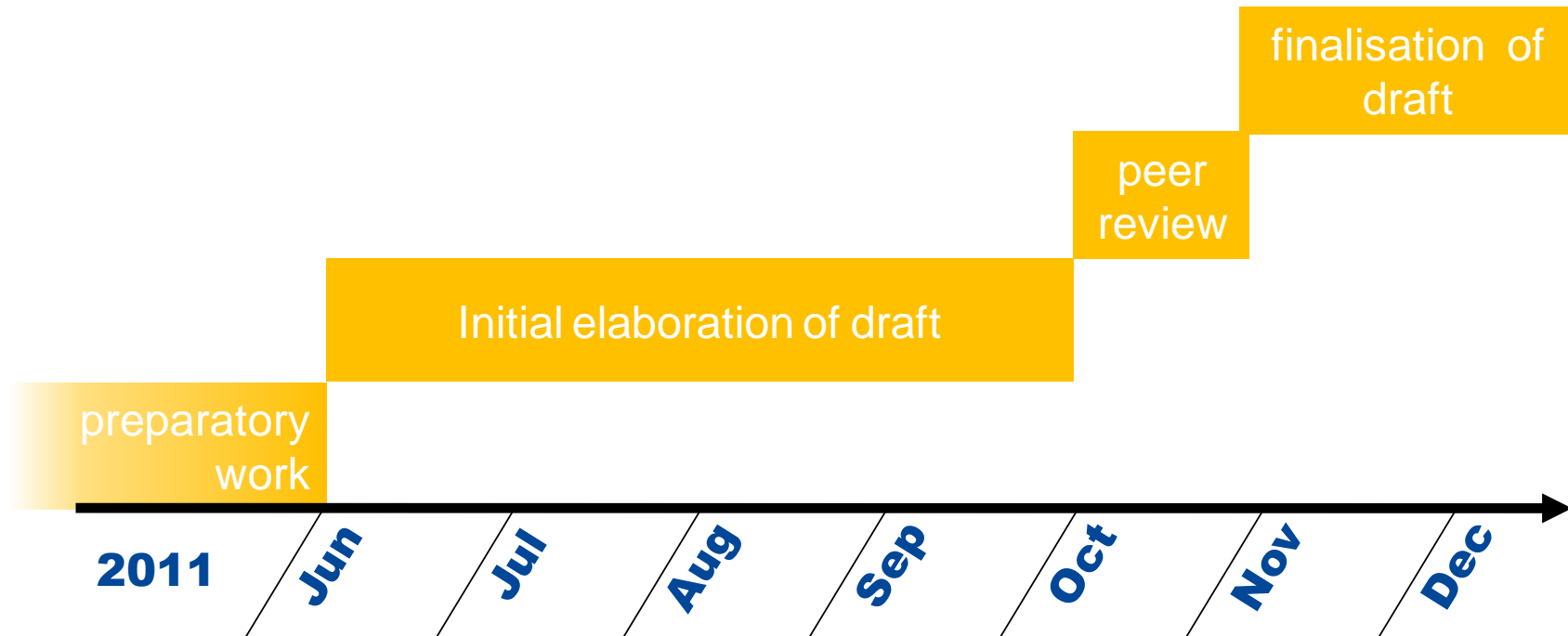
Annex A: Compliance Checklist

DG Enhancement Process (2011 – Overview)

First phase in 2011 aimed at enhancing / further develop DG2010 documents

First draft available in October for peer review (160+ reviews, including external stakeholders)

Final draft end of 2011 for formal consultation in 2012



The Document Set

EasyWay 2: Deployment Guidelines 2012 - Introduction

ESG 1 - TIS Traveller Information Services

Forecast and
real time event
information

Traffic
condition and
travel time
information

Speed limit
information

Weather
information

Co-modal
traveller
information

TIS Deployment Guideline Annex: Reference Document

ESG 2 - TMS Traffic Management Services

Dynamic lane
management

Variable
speed limits

Ramp
metering

Hard shoulder
running

Incident
warning and
management

HGV
overtaking ban

Traffic
management
plan for corridors
and networks

ESG 3 – F&L Freight and Logistic Services

Intelligent truck
parking and
secure
truck parking

Access to
abnormal goods
Transport
regulations

www.easyway-its.eu

Supporting Guidelines and Documents

ESG 4 – VMS Variable Message Signs

Variable
Message Signs
harmonisation
Part I

Variable
Message Signs
harmonisation
Part II

ESG 5 DATEXII

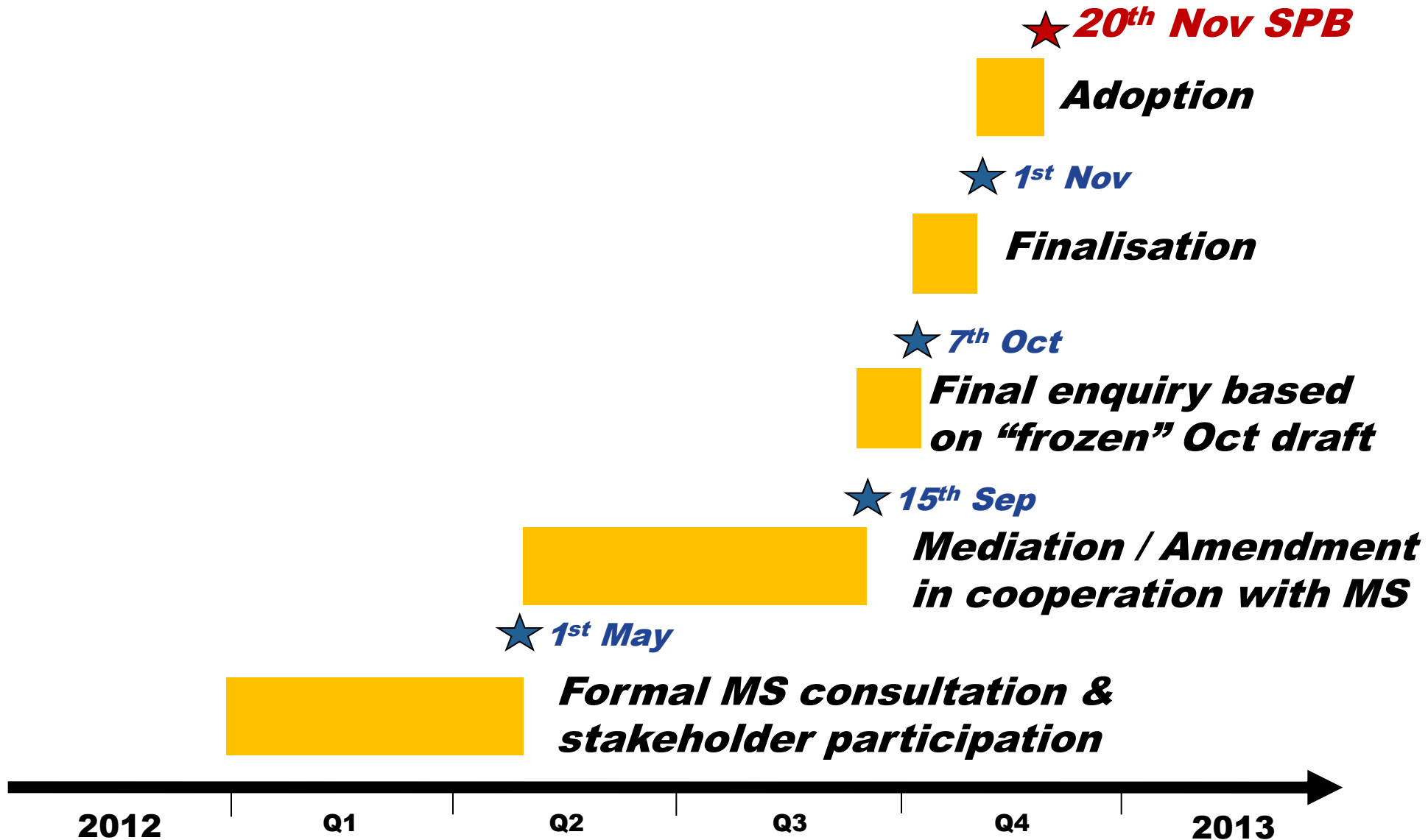
DATEX II

ESG 6 - ICT ICT Infrastructure

*EasyWay
Operating
Environments*

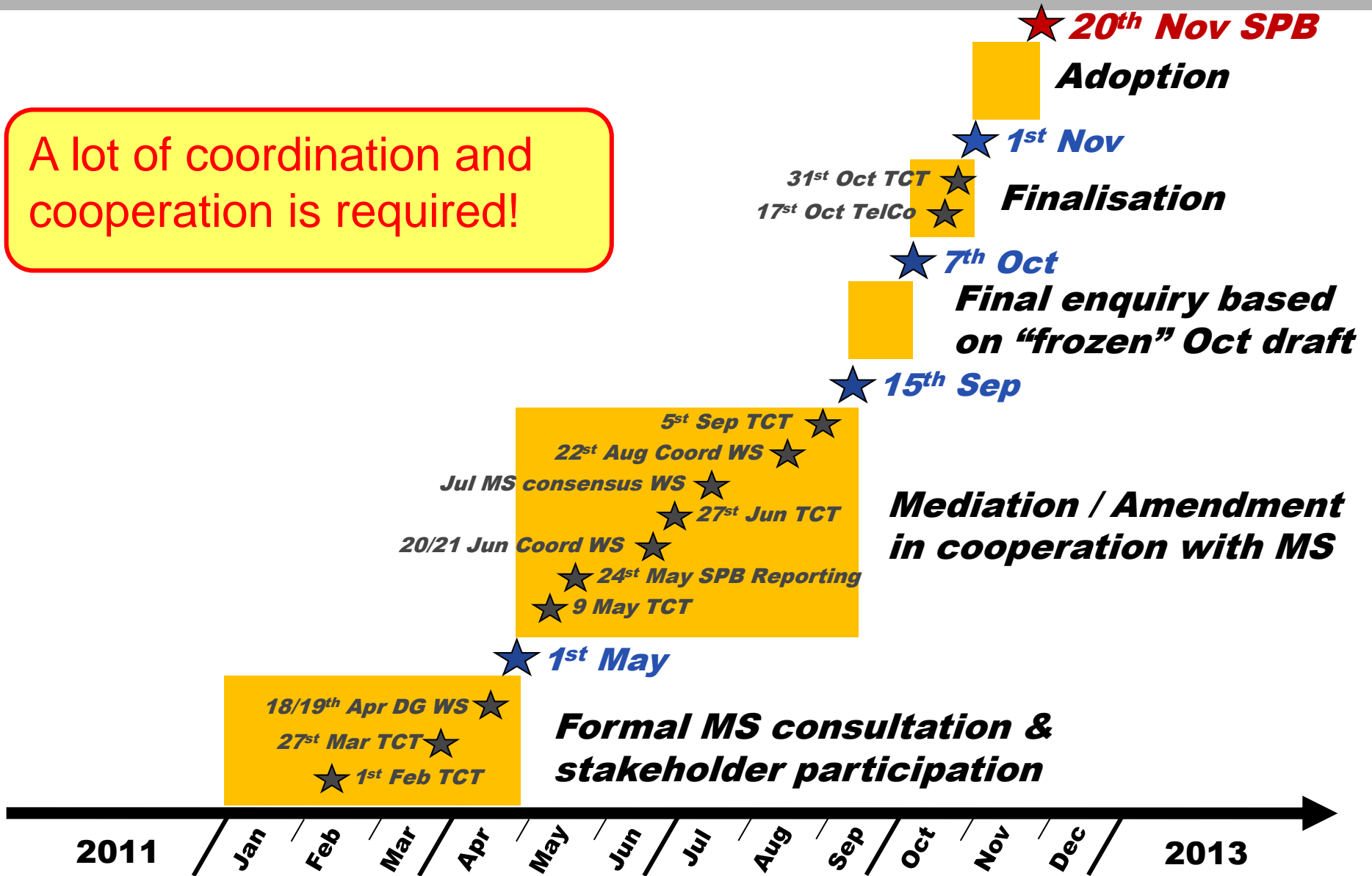


DG enhancement process (2012 – Overview)



DG enhancement process (2012 – Details)

A lot of coordination and cooperation is required!



The focus of the Deployment Guidelines is on the service oriented working groups (ESGs) 1-3: TIS, TMS & FLS

The other working groups have a supporting role, providing particular elements of harmonisation and interoperability

Interaction between working groups required to cooperate on these Deployment Guideline elements

- ESG4 provides guidelines for VMS harmonisation
- **ESG5 provides tools and support to create data profiles**
- ESG6 provide a network classification (operating environments) to match level of service criteria against

There was not much experience in EasyWay regarding this collaboration exercise

Conclusions

The DG2012 have taken a substantial next step towards harmonised ITS deployment in Europe by providing binding requirements for harmonisation and interoperability of ITS core (sub-)services

There are different types of elements of harmonisation; one is harmonised data interfaces (using DATEX II)

The Deployment Guidelines make use of the DATEX II profiling feature by defining harmonised DATEX II profiles for their particular (sub-)services

The DATEX community (ESG5) and the Deployment Guideline authors have to cooperate to create these profiles – this was a new experience

The rest of this session will provide feedback from this experience and intends to launch a discussion

