Galileo and EGNOS Applications

Pieter De Smet, European Commission
ICG Conference, Dubai, 10 November, 2013
Installed base dominated by leisure GNSS devices, general navigation and SAR leading in regulated

Maritime segment

Regulated¹

c.a. 100.000 vessels (merchant, fishing and passengers)

Unregulated / Leisure

c.a. 6M vessels (Europe)

1 IMO SOLAS Convention – International Maritime Organisation – Safety of life at sea
**Objective:**

Galileo recognition as a World Wide Radio Navigation System

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tr>
<td>2013</td>
<td>NAV Sub-Committee Information Paper presentation to Delegates</td>
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<td>2014</td>
<td>MSC Committee Request for recognition</td>
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<td>2015</td>
<td>NAV Sub-Committee Formal offer letter to IMO Secretariat</td>
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<td>2016</td>
<td>MSC Committee Recommendation</td>
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TODAY

- **Provide technical inputs**
- **Galileo Early Services**
- **Support technical assessment**

**Declaration**

Galileo recognised

**Timeline**

NAV: Safety of Navigation Sub-Committee

MSC: Maritime Safety Committee
2011:
- **Germany, Switzerland** and **Slovakia** started using GPS solutions for road tolling schemes.

2012:
- France announced EGNOS implementation in the ECOTAXE tolling scheme.

2013:
- **Belgium** announced a GNSS tolling scheme for trucks including EGNOS and Galileo.
- **Hungary** launched a new GNSS based tolling scheme on 1st July (EGNOS enabled).
Intelligent Transport Systems (ITS)

- New **ITS applications** are foreseen - supported by positioning and connectivity embedded within the vehicle
  - Safety: Driver advisories and warnings
  - Infrastructure: Dynamic traffic management

- New **eCall regulation** in Europe for automatic emergency assistance is also expected to accelerate the business case for these new concepts

These developments drive new requirements for vehicle positioning