

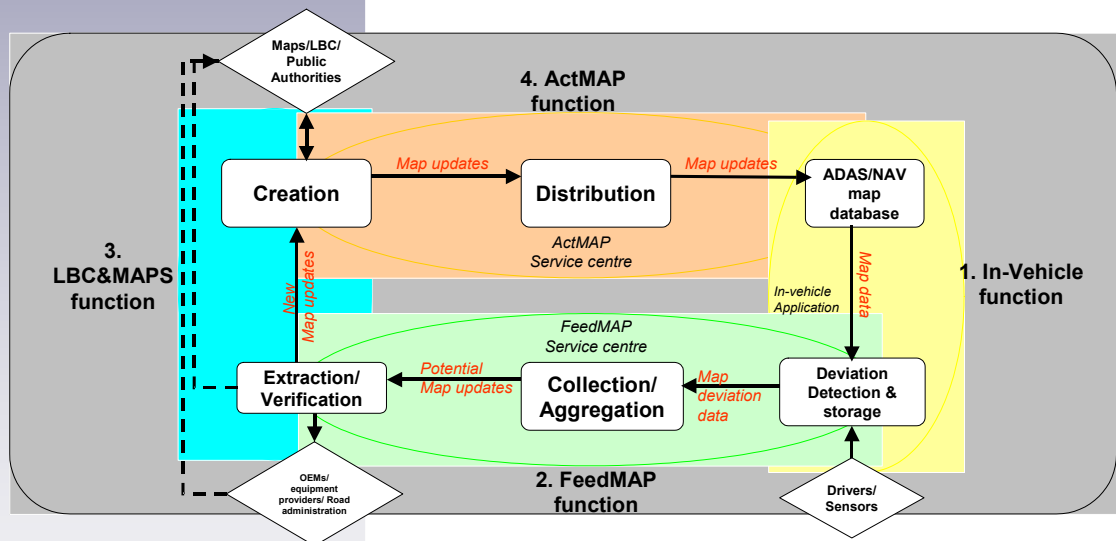


## FeedMAP

*Technical and commercial feasibility assessment of map data feedback loops applied to the ActMAP framework*

The **FeedMAP** project develops a framework that will allow for easier and faster updating of digital maps.

The framework will improve transport efficiency and increase road safety by creating a sustainable source of map updates at a reduced cost for navigation and Advanced Driver Assistance System (ADAS) applications.



### More Information:

#### Contact us:

Name: Maxime Flament  
 Organisation: ERTICO – ITS Europe  
 Telephone: +32-2-400 07 00  
 E-mail: [m.flament@mail.ertico.com](mailto:m.flament@mail.ertico.com)

## Description of the concept

The **FeedMAP** cooperative environment is based on the collection of map data from in-vehicle sensors compared to the map database. Simple algorithms allow the detection of map data anomalies and send map deviation data to the **FeedMAP** service centres (FSC). The statistical analysis of aggregated deviation reports at the FSC will produce map deviation reports with a measurement on reliability and accuracy. They will then be sent to the relevant map data owners for crosschecking with their own information. Finally, certified map updates are distributed through the ActMAP framework to in-vehicle database and relevant bodies.

This solution will provide the missing link to merge road user experiences with the map data information held by the map providers and the road administrations. This cooperative environment enables to reduce the time between the actual changes on the road network and its publication in the road databases of map vendors and public administrations.

It is expected that even with a low penetration rate of equipped vehicles, physical road modifications and other features that are not on the map database can be quickly detected, certified and redistributed.

## TECHNICAL OBJECTIVES

The objective of the project is to assess the technical and economic feasibility of map data correction by providing a map data feedback loop applied to a map data updating framework using the ActMAP standardized exchange formats and mechanisms.

A cooperative framework will be proposed including the definition of source data concept, the system architecture, the information flow model and the organisational models.

This will build the foundation for the next generation of digital maps: learning cooperative digital maps for ADAS and Navigation applications through the joint use of the ActMAP and FeedMAP concepts in order to create a sustainable source of map updates.

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## Participants:

ERTICO SCRL (Belgium), NAVTEQ BV (The Netherlands), TELEATLAS NV (Germany), BMW Forschung und Technik GmbH (Germany), DaimlerChrysler AG (Germany), Centro Ricerche Fiat SpA (Italy), Volvo Technology AB (Sweden), Magneti Marelli Sistemi Elettronici SpA (Italy), NAVIGON GmbH (Germany), PTV Planung Transport Verkehr AG (Germany), ICCS (Greece), Vägverket (Sweden), Oberste Baubehörde im Bayerischen Staatsministerium des Innern (Germany).