



**GAFAG**

**European-wide  
Mobility, Safety and Efficiency Management  
for Logistics Enterprises**

**GAF AG  
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**T** · · Systems · · ·

**DB** **SCHENKER**

Increase the energy efficiency of logistics and transport service providers



## **DB** SCHENKER

- Reduction of fuel consumption
- Reduction of CO2 emissions
- Continuous monitoring of energy consumption
- Improved traffic and fleet management
- Affordable and easy-to-use solution also for subcontractors

## Smartphone-based Service for Drivers

- Monitoring and reduction of fuel consumption
- Monitoring and avoiding CO2 emissions
- Reduction of wastage and maintenance costs

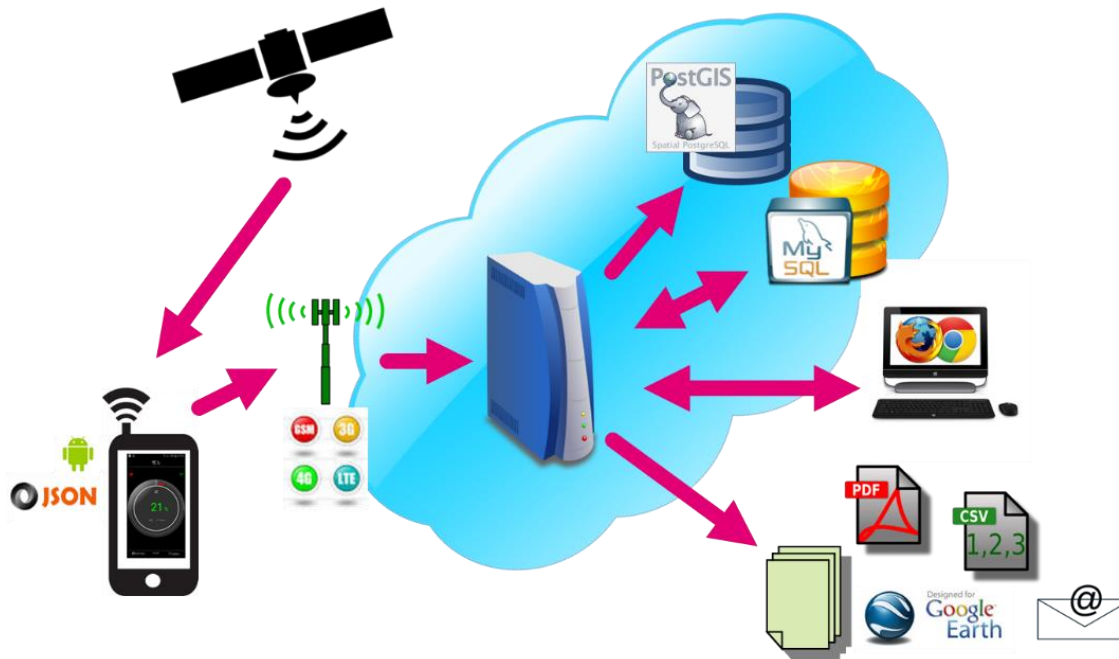
## Additional benefits for dispatchers

- Online Tracking und Tracing via Web-Interface
- Improvement of information flow between dispatcher and driver
- Improvement of communication to client

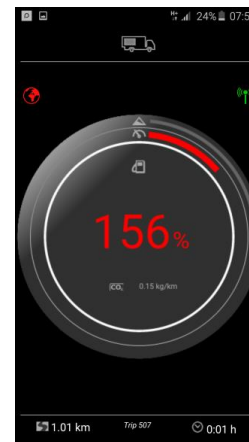
## Additional benefits for LSP

- Service also applicable for subcontractors / BYOD
- Easy to install – no costs for implementation
- No technical adjustments of trucks required





- Smartphone-Clients (GNSS)
- Communication via GSM
- Application Server / DBs
- Dispatcher-Unit

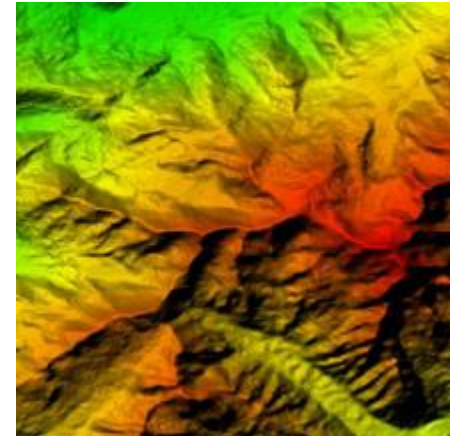


## Driver's Display

- Green 0 - 100 %
- Yellow 100 - 130 %
- Red > 130 %

## Digital elevation models based on EO images

- Euro-Maps 3D DEM (5m) and 30m DEM
- Enhance quality significantly when compared to GNSS altitude data (smartphones)
- Continuous, precise, standardised height information
- No gaps (as observed for GSM devices during pilot phase)

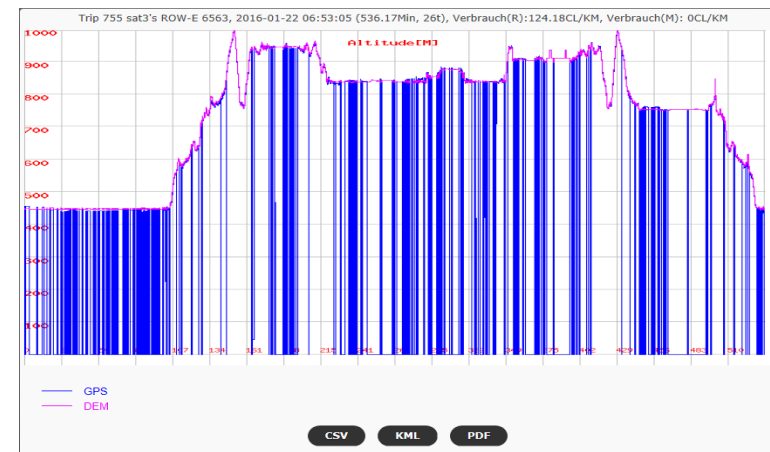


Euro-Maps 3D Coverage of the AOI 'Testgebiet\_Bodensee' in Austria / Germany / Switzerland



- Delivery Priority1
- Delivery Priority2
- Delivery Priority3

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## Commercialisation

- Business Case by T-Systems
- Not a product but a service (individually customised)
- Businessplan = Basis Service + Premium Services
- Addresses big customers with large fleet and many subcontractors
- Monitoring of all vehicles (also subcontractors' vehicles)
- Fast return on investment

## Usage of existing Infrastructure

- Usage of T-Systems sales network
- Usage of existing contacts to logistic service providers



## Results of demo utilisation

- Service leads to significant reduction of fuel consumption and CO2 emissions: 5% - 10%
- Installation and usage of smartphone app in HGVs already allows for savings
- Driver training leads to further improvement of driving style
- Enhancement of functionalities for dispatcher (e.g. tracing and tracking)
- -> savings in fuel consumption and reduction of green house gases allow high cost-efficiency

