FOT Execution

Structure of Vehicle Management Centers (VMC) & German 1 VMC

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Final Event 26-27 June 2012 Autoworld, Brussels





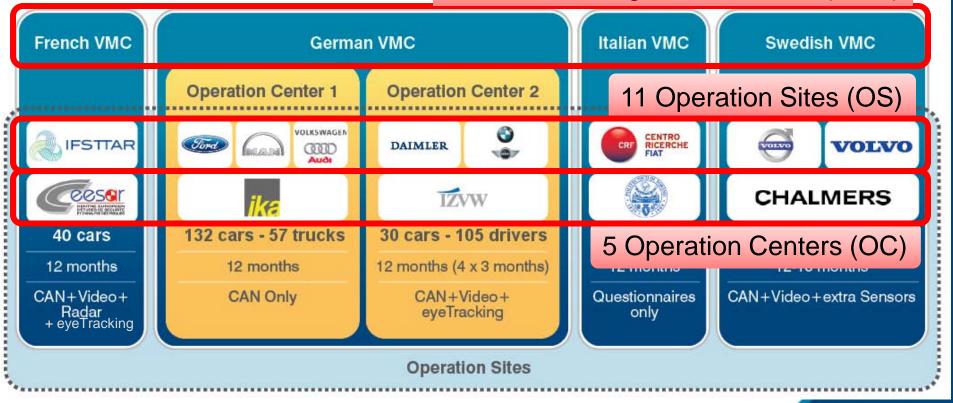
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Bringing intelligent vehicles to the road

Overview of FOT Operations

4 Vehicle Management Centres (VMC)





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Instrumentation I.

BMW





Daimler





Ford, VW, MAN, Renault



Volvo















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Instrumentation II.

French VMC:

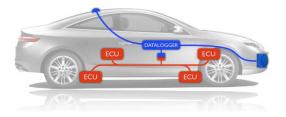
- Renault Clio and Laguna
- German VMC OC1:
 - Ford Mondeo, Galaxy and S-Max
 - Ø Volkswagen Passat
 - 8 MAN TGX
- German VMC OC2:
 - 8 BMW 530
 - Ø Daimler Mercedes E-Class
- Italian VMC:
 - Fiat Lancia Delta
- Swedish VMC:
 - 8 Volvo Cars V70, XC70
 - Ø Volvo Trucks FH12

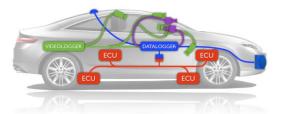




Instrumentation III.

French VMC: Renault

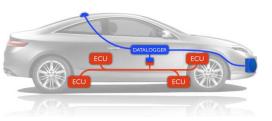


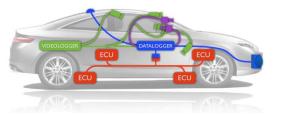


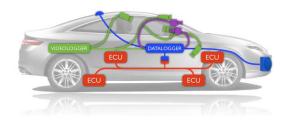
German VMC OC1: Ford, VW, Audi, MAN



Swedish VMC: VCC, VTEC









Participants I.

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Participants II.

Recruitment of drivers and vehicles

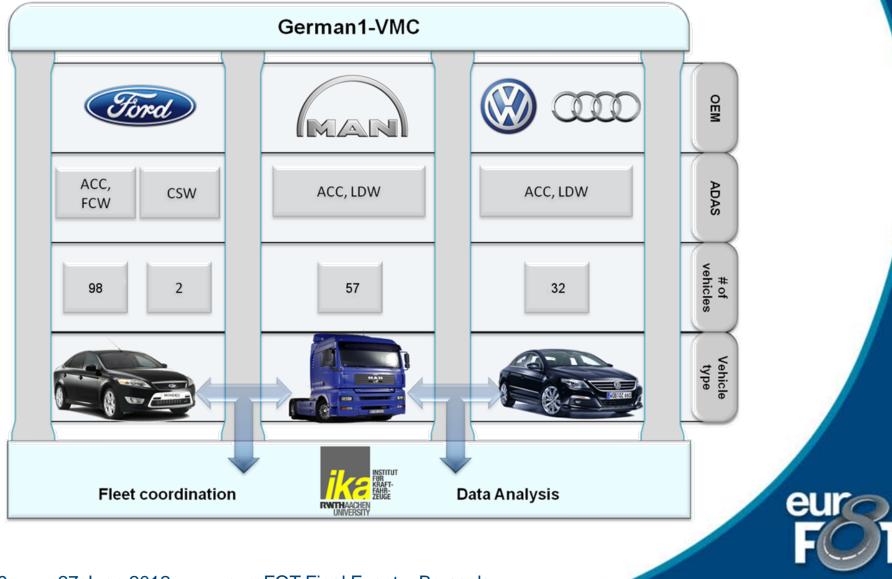
- Ordinary drivers, owners of the vehicles
 - Ford Galaxy, Mondeo and S-Max customers contacted with the support of the Ford dealership network
 - Lancia Delta customers contacted with the active support of Lancia marketing department, Italy
 - Renault Laguna and Clio drivers contacted with the support of Renault marketing department, France
- Ordinary drivers leasing vehicles from the OEMs
 - BMW and Daimler customers in Germany
- Ordinary drivers, users of the OEM's fleet vehicles
 - Volvo employees and their family members in Sweden
 - VW employees in Germany
- Professional drivers recruited through fleet operators
 - Volvo truck drivers from Dutch and English fleet operators
 - MAN truck drivers from German fleet operators





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German VMC - Operation Center 1



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Data logging – German 1 VMC

4 channel CAN + GPS logging

CTAG – logger with continuous GPRS

Installation

- FORD: Dealer workshop
- VW: Dispatch workshop
- MAN: Production assembly line







Location

- FORD: Accessible to customer easy software update
- VW, MAN: Tight integration



Lessons learned – German 1 VMC

Recruitment needs incentives

- Car buyer balances cost of function with incentive
- Owner of car is more willing to participate
- 8 Freight company needs to balance incentive with time lost

Private customer address

- Ø OEM has dealer information, recruit through dealer
- Consider social media

Customer

- Pre-defined participant's profiles need to be compatible with car line
- Ø Driver liaison is important for smooth operation

Procedures

- Many departments are involved for final sign off
- Installation need to be reversible

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8 Functionalities, 28 Partners, 1000 Vehicles **1 Field Operational Test, 8 Functionalities** 28 Partners, 1000 Vehicles, 1 Field Operational Test 8 Functionalities, 28 Partners, 1000 Vehicles **1 Field Operational Test, 8 Functionalities** 28 Partners, 1000 Vehicles, 1 Field Operational Test 8 Functionalities, 28 Partners, 1000 Vehicles **1 Field Operational Test**



