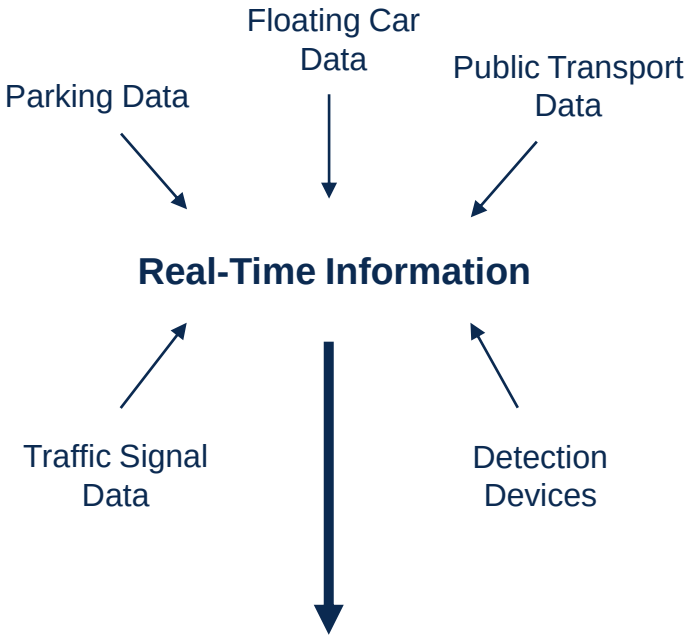
Dresden – Traffic Management



Data fusion to improve quality assurance and urban traffic management

Federal Ministry of Education and Research

Selected participants:

BMW AG
Daimler AG
Robert Bosch GmbH
City of Dresden
Hella KGaA
Continental AG
FKFS Stuttgart
Forschungszentrum Informatik
Infineon Technologies AG

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Dresden University
of Technology

19th ITS World Congress
Vienna, Austria
22 to 26 October 2012

TECHNISCHE UNIVERSITÄT DRESDEN

Faculty of Transportation and Traffic Sciences
Institute of Traffic Telematics

Chair of Traffic Control Systems and Process Automation

EFA 2014/2

Energy-Efficient Driving 2014

EFA 2014

Energie-Efficient Driving

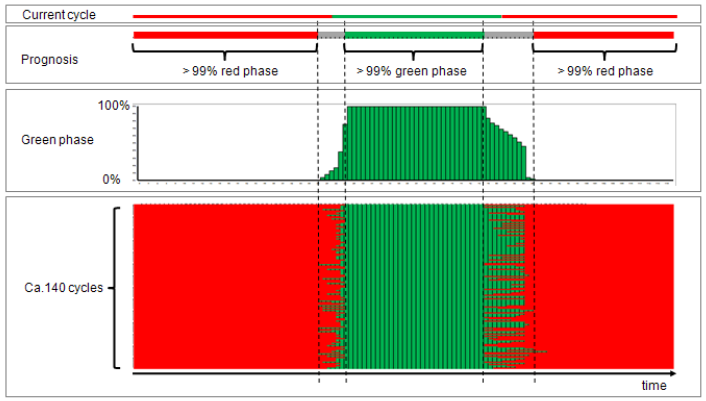
Eleven partners of the German automotive industry will be joining forces over the next two years to explore innovative technologies and concepts for cutting fuel consumption, and with it CO_2 emissions. The “Energy-Efficient Driving 2014” project (EFA 2014), which arose from the Innovation Alliance for Automotive Electronics, is targeting a reduction in consumption of up to ten percent. The German Ministry of Education and Research is backing the initiative to the sum of approximately nine million Euro as part of the Federal Government’s “High-Tech Strategy”.

“The innovative approach of this research project means that entirely new angles on energy-efficient driving are being investigated.“

Marco Bruemmer, BMW Group, EFA 2014 Project Coordinator

Exchange of data and information between vehicle and infrastructure (V2I)

- collection of traffic data by a local management system
- processing, analysis and preparation of traffic light data
- distribution by using standardized data transfer methods and protocols (Datex II / TPEG)
- focusing on 2G/3G/4G wireless communication systems



Traffic-adapted signal control

Predicting traffic-adapted signal states – up to 3 minutes

- queue length at a traffic light
- estimated waiting time

as a basis for

- proactive operating strategies
- avoidance of breaking and acceleration processes
- reduction of fuel-consumption and emissions