FORSCHUNGSINITIATIVE
KO-FAS

Final Presentation
Research Initiative Ko-FAS

Abschlußpräsentation
Forschungsinitiative Ko-FAS

Supported by:

Federal Ministry
of Economics
and Technology

on the basis of a decision
by the German Bundestag

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Overview Ko-FAS and Introduction of technical demonstration

Übersicht Forschungsinitiative Ko-FAS und Überblick Technikdemonstrationen

Stephan Zecha
Continental Safety Engineering

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Perspecitives Road Safety

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MITIGATION → AVOIDANCE

2013

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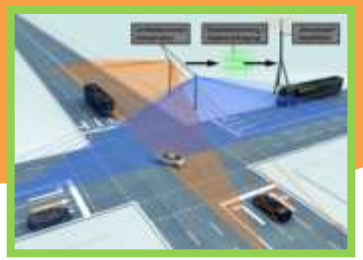
TOUCHING

Passive Safety

VIEWING

Driver Assist



TALKING

C2C 1G

Cooperative technologies within research initiative Ko-FAS

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- Goal: „Safety for All“ and „Accident-Free-Driving“ by using cooperative technologies
- Partner:

BMW Group Forschung und Technik, Continental, Continental, DAIMLER, DELPHI, Fraunhofer Heinrich-Hertz-Institut, Fraunhofer IIS, FZD Fahrzeugtechnik TU Darmstadt, Hochschule Aschaffenburg, ITE, IZVW, SICK Sensor Intelligence., TUM IHOT, Universität Passau, uulm, VUFO GmbH

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- Project schedule: 8/2009 – 6/2013 (11/2013)
- Research areas:

Cooperative localization:

Cooperative perception:

Cooperative components

Unique Selling Points Cooperative Transponders

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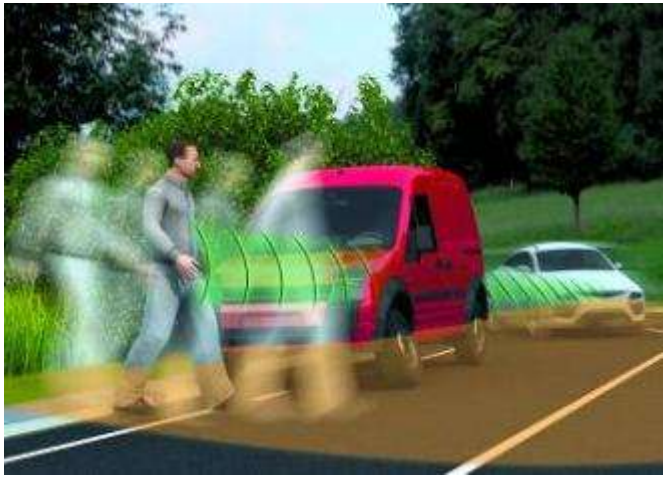
Predictive Pedestrian Protection



Cooperative transponders can

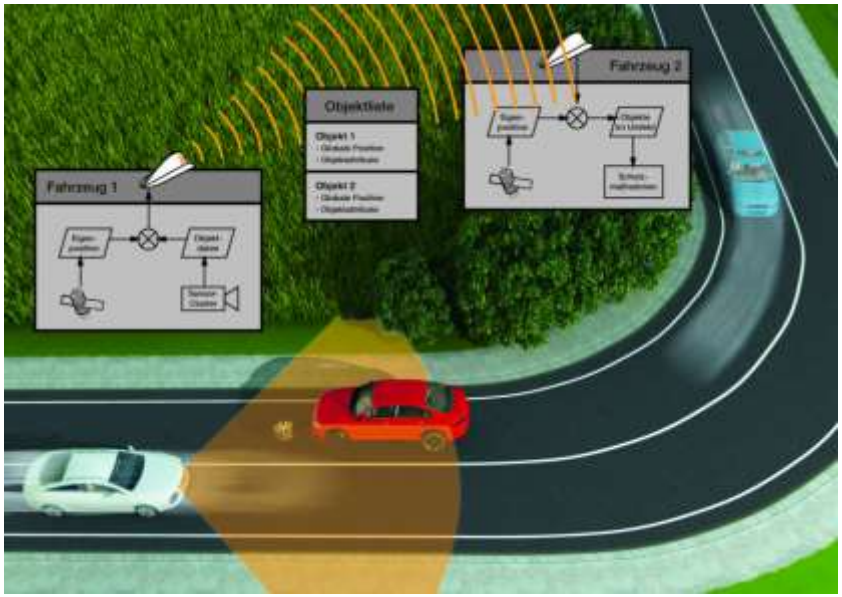
- Recognize traffic partners with highest reliability
- Locate VRUs without line-of-sight
- Classify by ID and motion characteristics
- Track objects chronologically

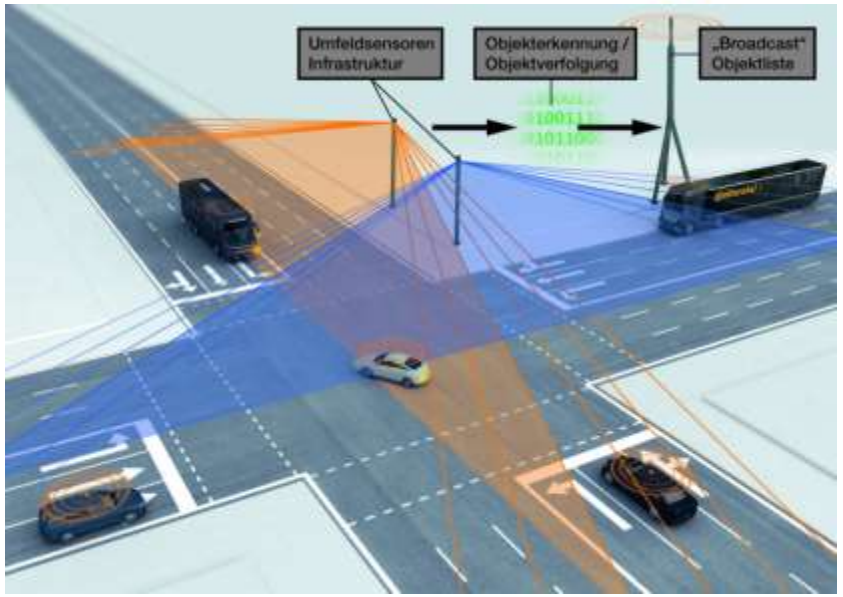
Omnidirectional safety

- Recognize objects with significant lateral offset due to large aperture angle

VRU: Vulnerable Road Users

Unique Selling Points
Cooperative Perception





Cooperative perception

- Enables seamless traffic surveillance by using sensor fusion across vehicles
- Allows recognition of hidden traffic partners in unclear traffic situations
- Supports driver guidance through difficult traffic situations

Highlights of the Ko-FAS Roadshow

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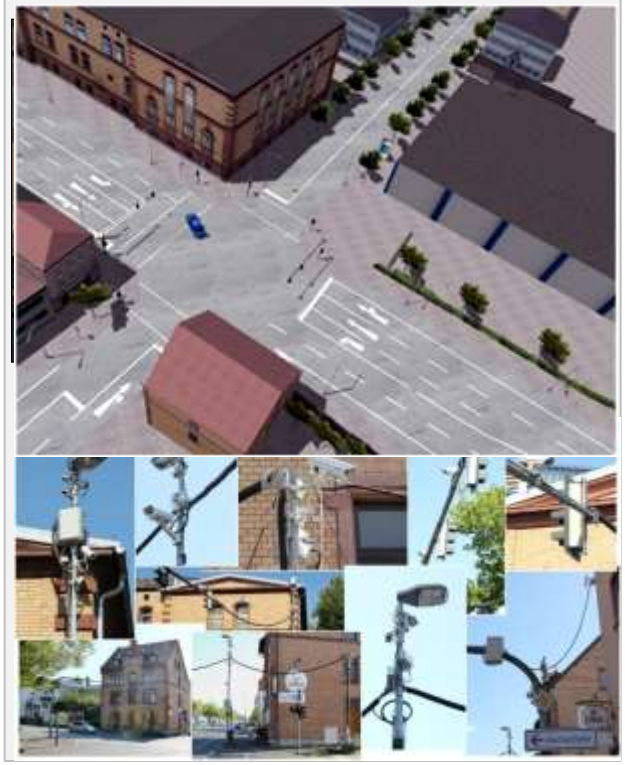
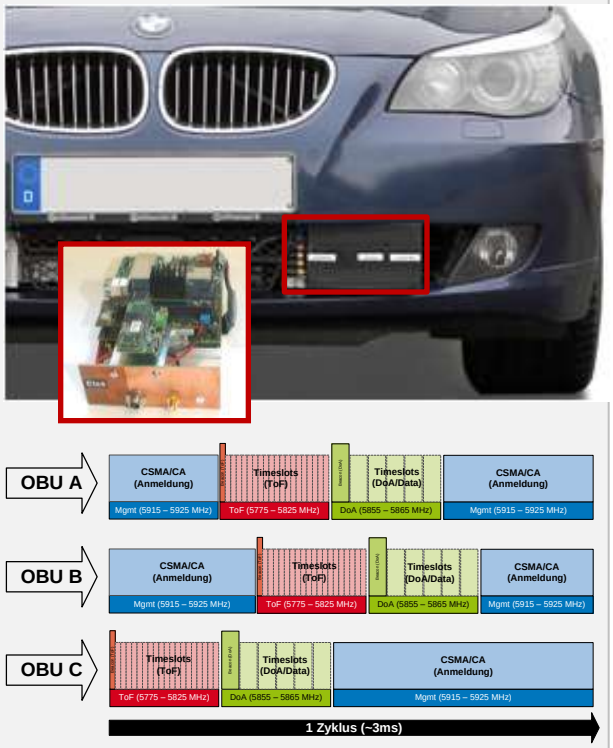
Worldwide unique public sensor intersection



Unique integrated Localization – Communication Unit



Test devices (for advanced consumer tests)

Herzliches Dankeschön - Special Thankyou

- BMWi for the initial trust and courage to start Ko-FAS and to fund the research initiative
- City of Aschaffenburg and especially to the senior mayor Klaus Herzog for their inconvenient and extraordinary support
- All partners within the research initiative for the tremendous engagement and the excellent results which had been achieved
- Industrial partner companies for the co-funding of their projects
- Steering committee, „Projektsprecher“ and the ZENTEC for the co-operative and friendly support

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Die Forschungsinitiative Ko-FAS

Stephan Zecha
Continental Safety Engineering

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Schedule
Final Presentation 19.09.

Uhrzeit	Inhalt		Ort
08.00 – 09.00	Eintreffen und Registrierung der Teilnehmer		Aula der Hochschule
09.00 – 09.05	Begrüßung Dr. Gerald Heimann, ZENTEC GmbH		
09.05 – 09.15	Moderation Dr. Gerald Heimann, ZENTEC	Grußwort Prof. Dr. Wilfried Diwischek, Präsident Hochschule AB	
09.15 – 09.25		Grußwort Ministerialdirektor Dr. Sven Halldorn, Abteilungsleiter BMWi	
09.25 – 09.35		Grußwort Klaus Herzog, Oberbürgermeister Stadt Aschaffenburg	
09.35 – 09.45		Einführung Ko-FAS und Überblick Technikdemonstrationen Stephan Zecha, Koordinator (CSEI)	
09.45 – 10.15	Zielsetzung, Ergebnisse und Ausblick (je 10min.) Mark Schulte, Dr. Daniel Schwarz, Dr. Reiner Wertheimer		
10.15 – 12.30	**Technikpräsentationen und Fahrvorführungen**	Pressekonferenz (11.30-12.30)	Demobereiche / Pavillons
12.30 – 13.30	Mittagessen		Gewölbe
13.30 – 16.00	**Technikpräsentationen und Fahrvorführungen**		Demobereiche / Pavillons

Groups
Final Presentation 19.09.

Bereich C – Campus
Mark Schulte

Bereich A – Würzburger Straße & Forschungskreuzung
Dr. Felix Klanner

Bereich A – Foyer
Dr. Reiner Wertheimer

Bereich B – Flachstraße
Dr. Daniel Schwarz