

CENTRUM DOPRAVNÍHO VÝZKUMU, v.v.i.

ITS Department



German/Czech ITS workshop

Prague, 16. – 17. December 2010

Presentation content

- CDV history and status
- CDV focus and experience
- Networking of CDV
- CDV participation in European R&D, total
- CDV participation in European R&D, ITS focused
- CDV participation in national R&D, ITS focused
- Specific national projects

CDV history and status

CDV (Transport Research Centre) has more than forty years long tradition in research and development, continuing the activities of the federal VUD.

Since 1996, CDV was appointed by the decision of the Minister of Transport of the Czech Republic, as the only research institute on transport issues under the responsibility of the Ministry of Transport.

Based on the act 341/2005 Sb., the governmental contributory organization Centrum dopravního výzkumu is hereby changed to a public research institution (since 2007).

CDV focus and experience

3 divisions, 6 branches, about 150 employees in:

- transport policy
- transport prognosis
- statistic informatics, GIS
- land use transport planning
- transport safety
- environment
- road transport
- urban transport, public transport
- air transport
- intermodal transport
- transport psychology
- ITS

Networking of CDV (1)

ECTRI – European Conference of Surface Transport Institutes

FERSI – Forum of European Road Safety Research Institutes

FEHRL – Forum of European National Highway Research Laboratories

IRTAD – International Road Traffic and Accident Database

IENE – Infra Eco Network Europe

ITRD – International Transport Research Database

ELITE – European Logistic Infrastructure and Transport Expertise Network

ERTRAC – European Road Transport Research Advisory Council

Networking of CDV (2)

OECD/ECMT – International Transport Forum (ITF)

COST TCT – Technical Committee for Transport

UN/EDIFACT – Working group for establishing transport standard

UN ECE – Inland Transport Committee WP6

ISO – TC 204 (WG7)

CEN – TC 278 (WG16)

POLIS – European cities and regions for transport innovation

PIARC – C3, C13

T2 – International Network of Technology Transfer Centres

CDV participation in European R&D, total

Until end of the 2010:

13 FP6 projects; 14 FP7 projects; 3 projects IEE; 1 project of Norwegian Funds; 1 project of Central Europe programme; 1 Marco Polo project; 5 COST projects; 9 INGO projects; 34 national R&D projects (via ministries); 1 GACR project (national basic research); 2 projects of Education for Competitiveness programme; 1 Undertaking and Innovation project; 2 projects based on bilateral cooperation with the USA; 4 accredited education programmes; 1 Research Intent for the MoT (Sustainable Transport – Chances for the Future); 6 Projects and Services (PS) ensuring the activity of Ministry of Transport; 41 commercial orders.

CDV participation in European R&D, ITS focused

FP5: UPTUN, ASAP

FP6: HUMANIST, IN-SAFETY, FREIGHTWISE,
E-IMPACT, TRACKSS, BIVVS

FP7: P3ITS, CLOSER

Central Europe Cooperating for Success: KASSETTS

Network of Excellence: HUMANIST (continues activities after
the FP6 project)

Bilateral cooperation with USA: BOTTLENECK

CDV participation in national R&D, ITS focused

BLACKBOX

PRESTUP

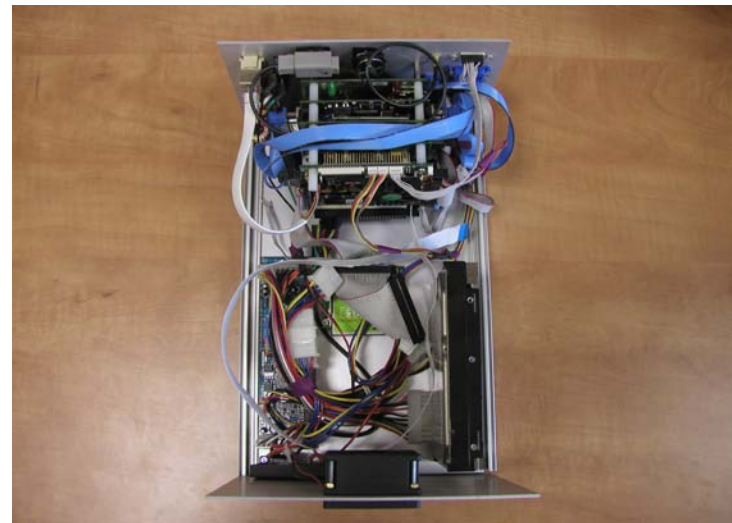
CONGMAN

NEV1

INFRAST

BLACKBOX – components

- PC 104 (CPU 700 MHz)
- CAN 2X
 - GPS
 - RS232 (2x)
 - Ethernet
 - HDD, CF, SD
 - PCMCIA
 - VGA, LVDS interface
 - External units (radar, gyro)
 - GSM module



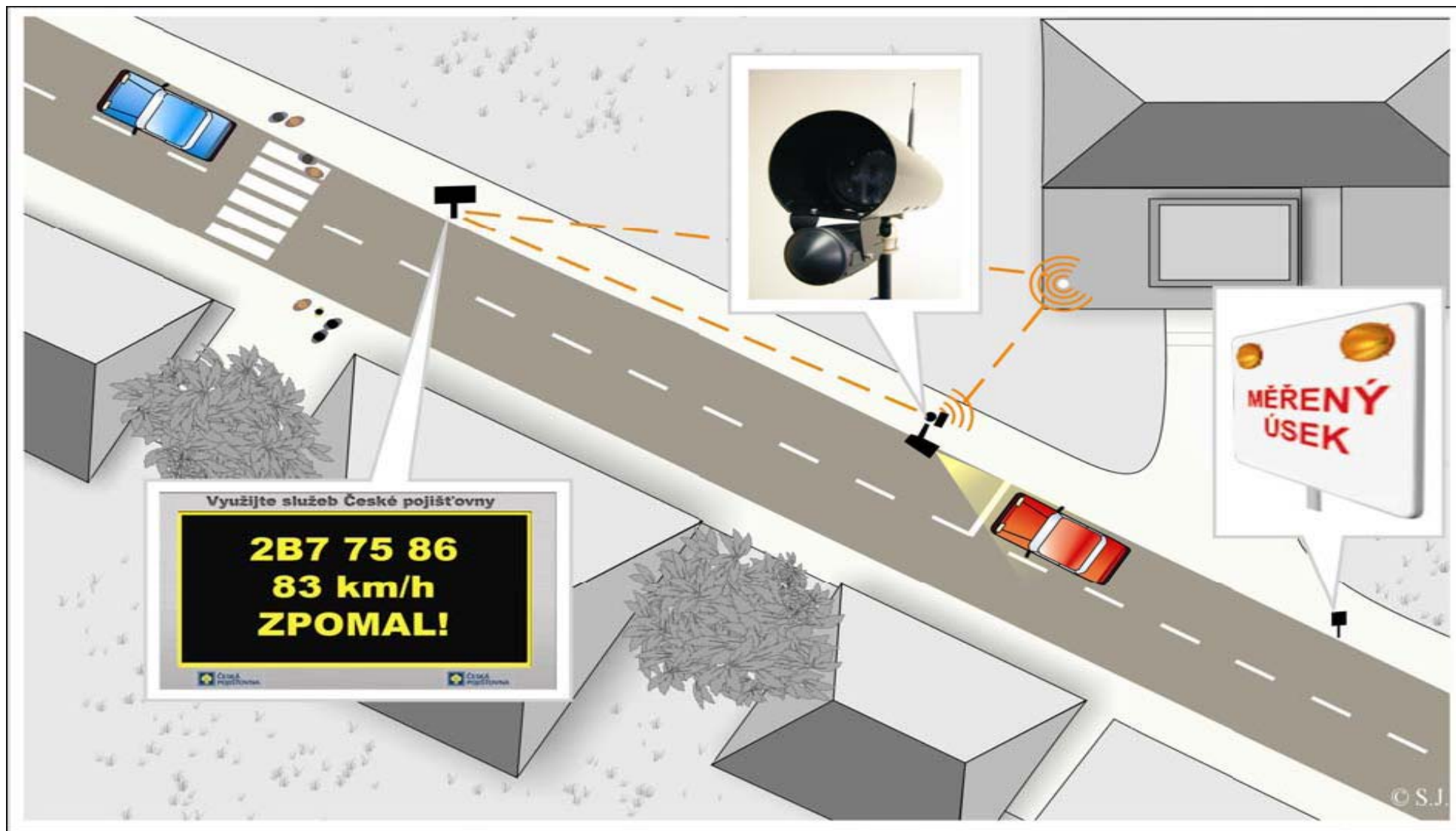
BLACKBOX – test



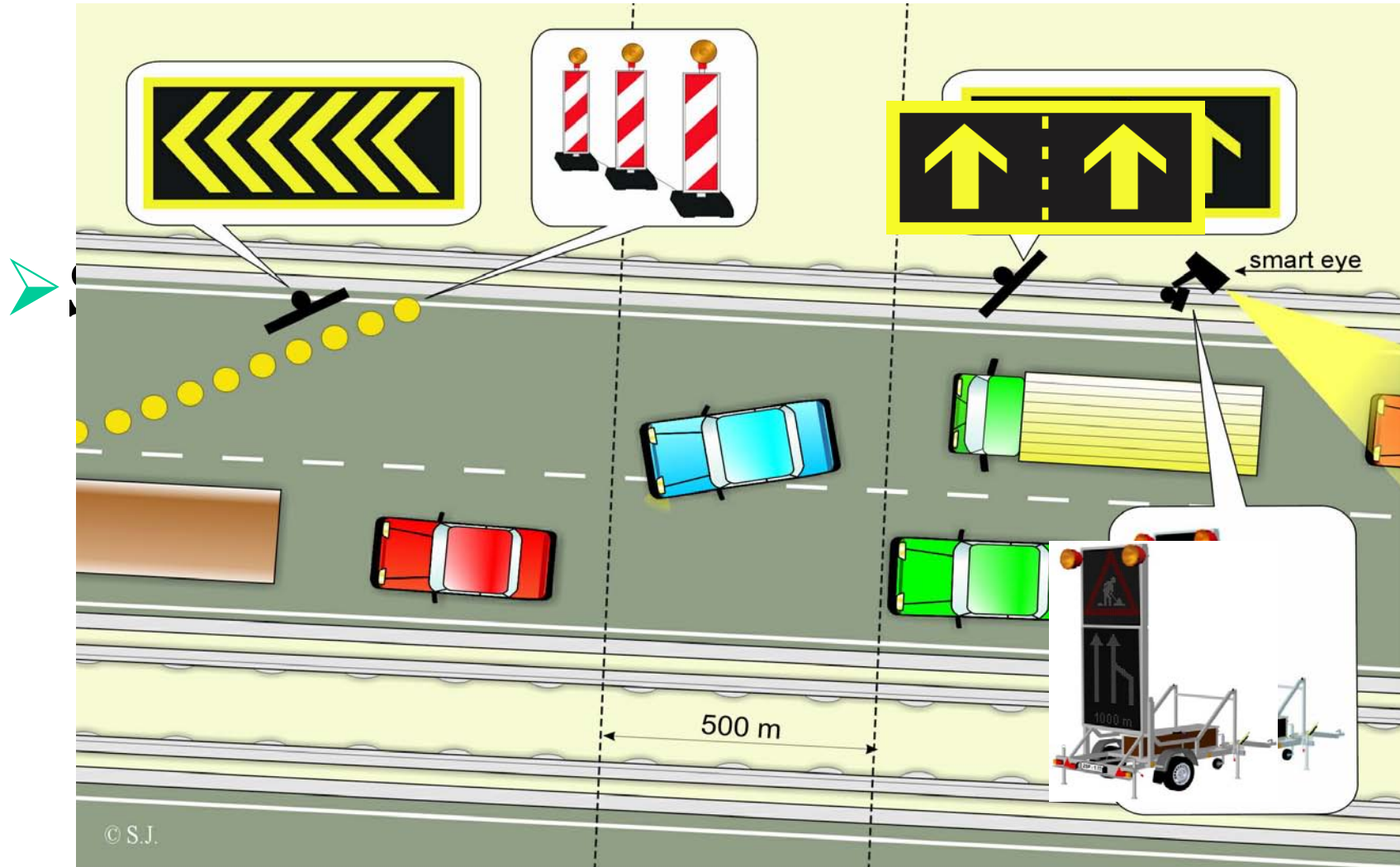
PRESTUP – repression vs. prevention



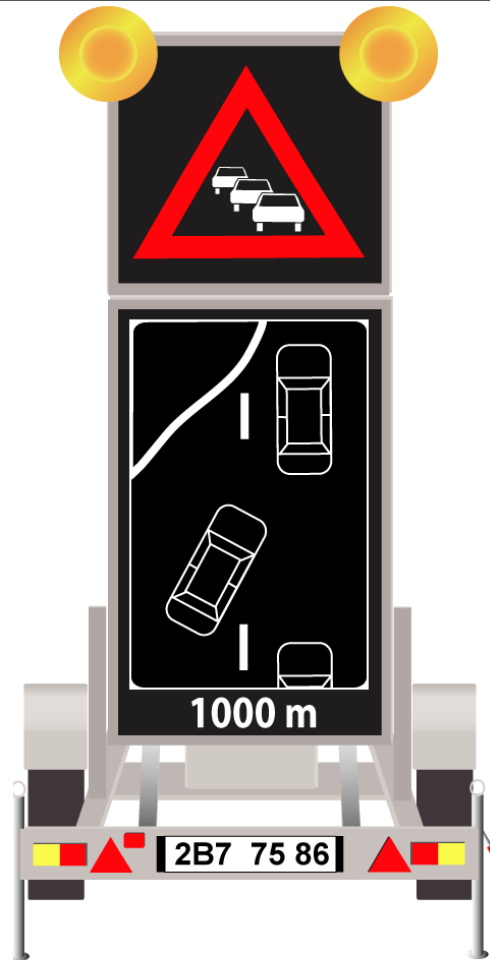
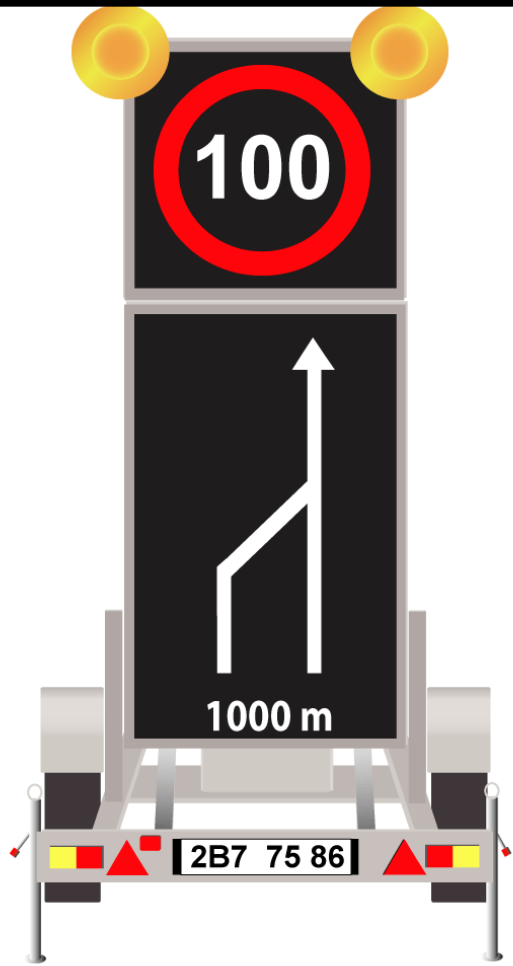
PRESTUP – PREVENT system



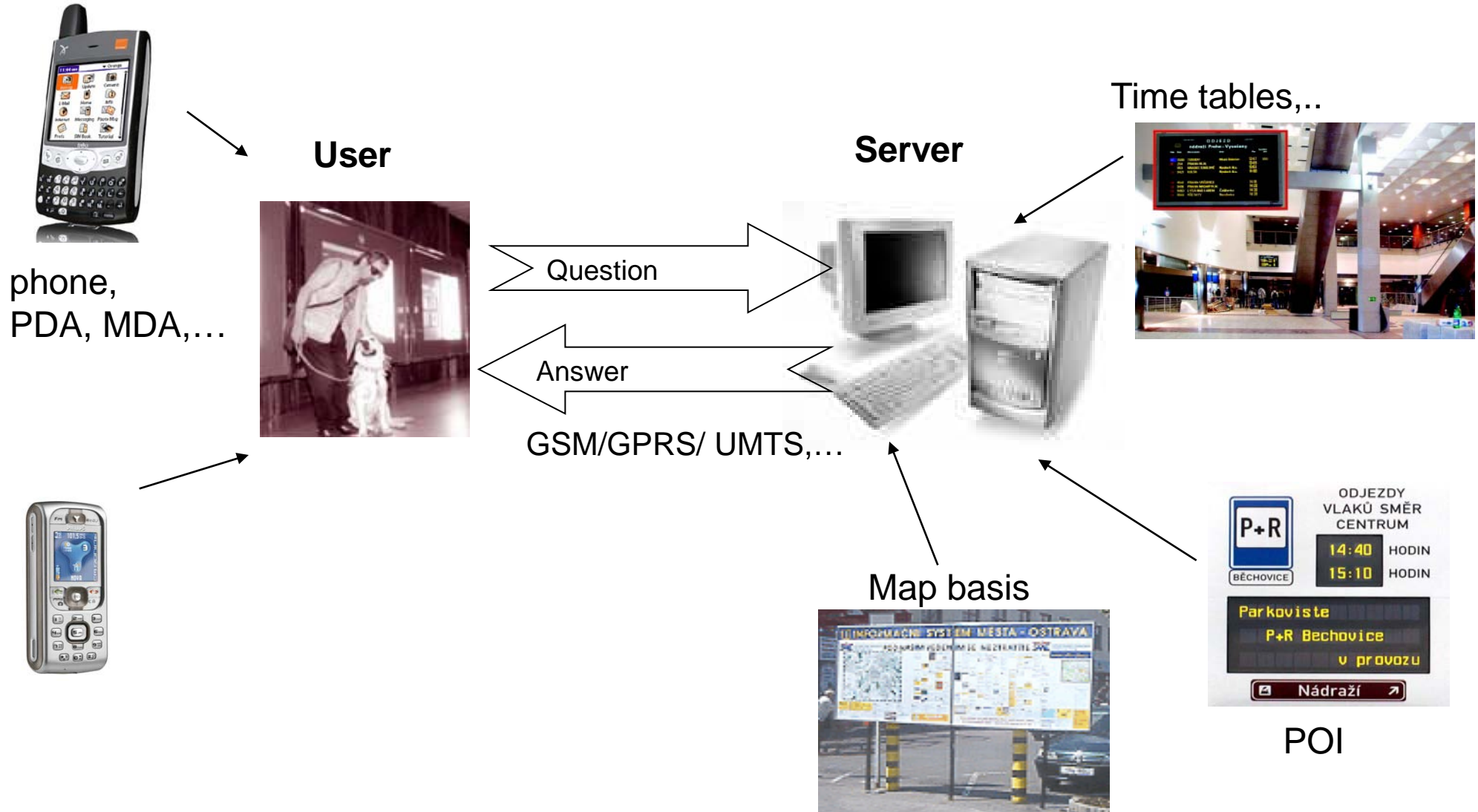
CONGMAN – scheme



CONGMAN – mobile equipment



NEV1 – information support for visually impaired



NEV1 – client's communication



Vaše aktuální poloha: _____
Aktuální poloha momentálně není známa.

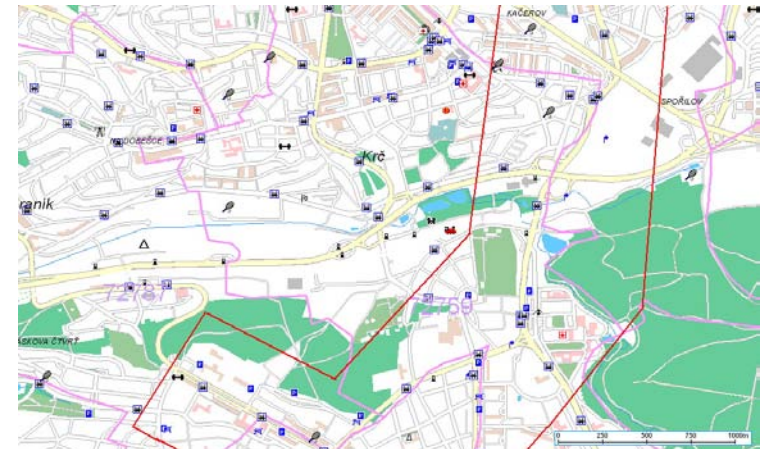
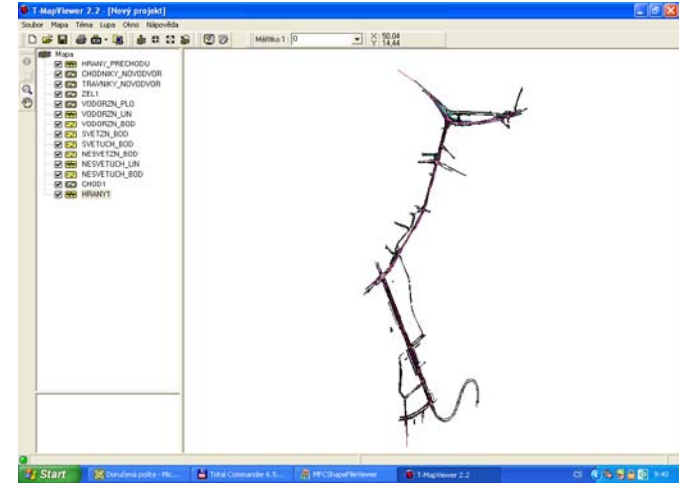
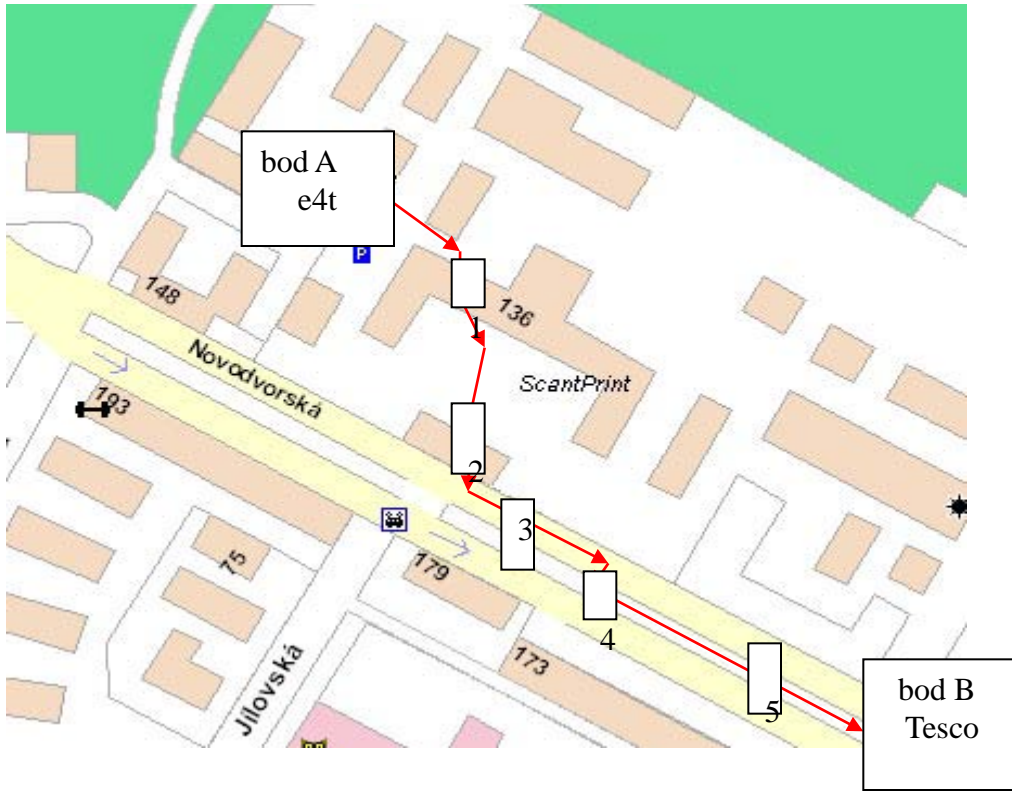
Cíl:
BOSCH
Jílovská
JVM Computers
Kačerov I
Kačerov II
Kulturní centrum
Lékárna Thomayerova nem.
Městská policie
Michelský les I

Zpět Další

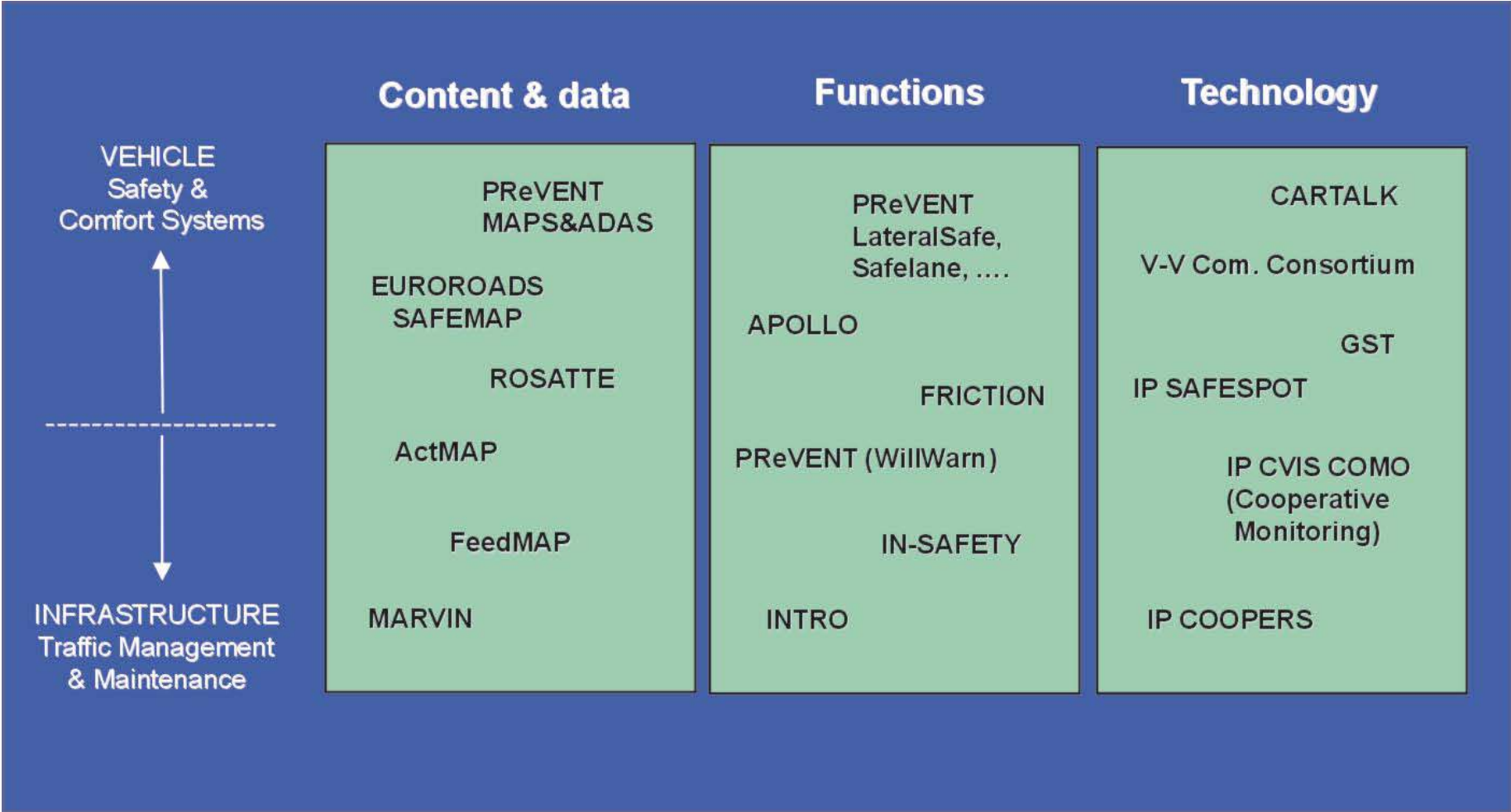
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Selhalo. 0x90010001.

Zpět

NEV1 – test



INFRAST – V2I – mapping



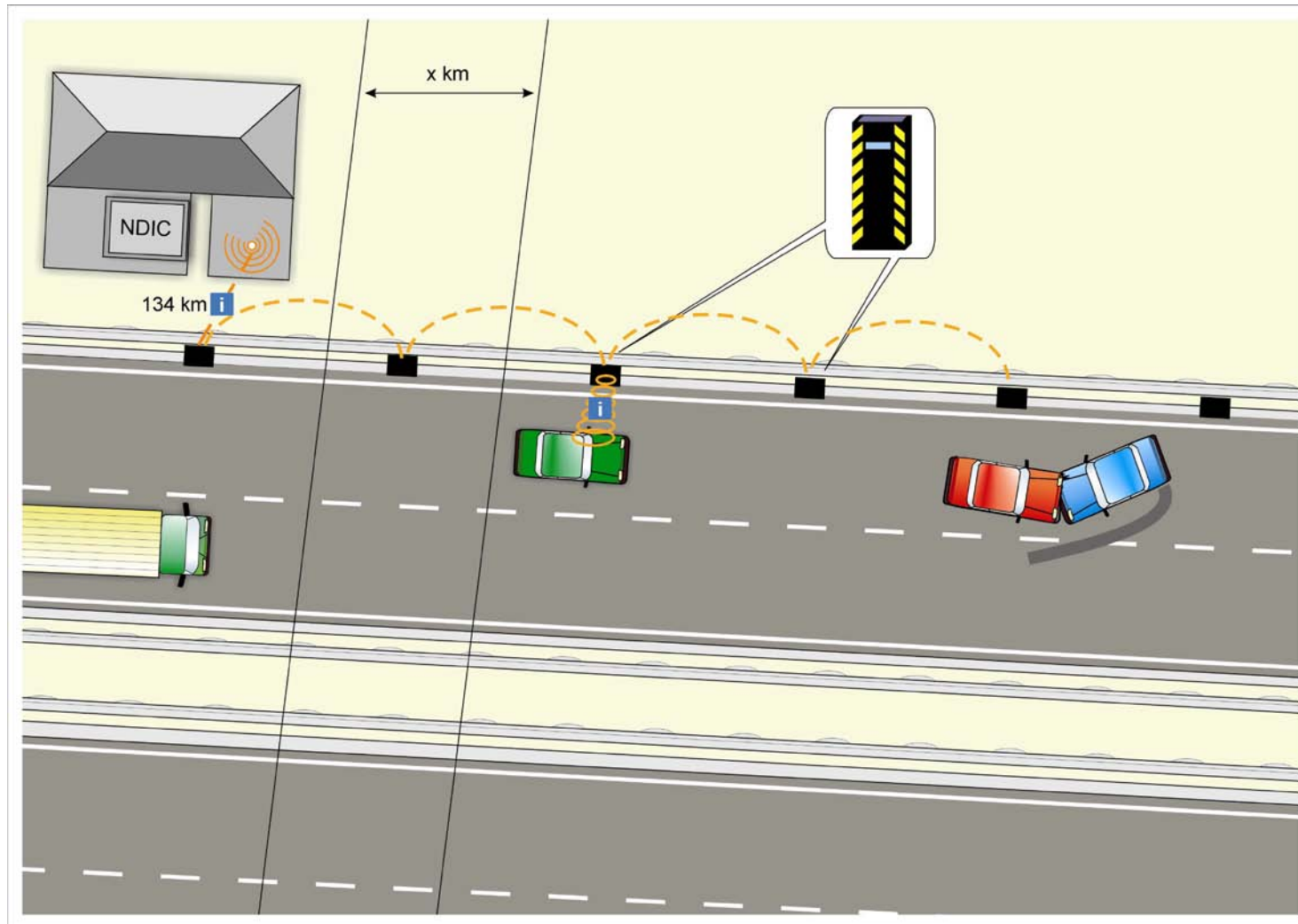
INFRAST – V2I – modules



INFRAST hardware:
communication modules
at infrastructure

868 MHz frequency

INFRAST – V2I – schema



Other activities

- Standardization
 - national: UNMZ - TNK136: WG2, WG16
 - international: ISO TC204 WG7 (fleet management)
 - international: CEN TC278 WG16 (cooperative systems)
 - Dissemination activities
 - ITS@revue (e-zine www.itsrevue.cz & printed version)
 - Seminars and conferences
 - Services for MoT and RSD (state roadnetwork authority)
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Thank you for your attention

eva.gelova@cdv.cz

