



Fields of German R+D Activities and practical Applications

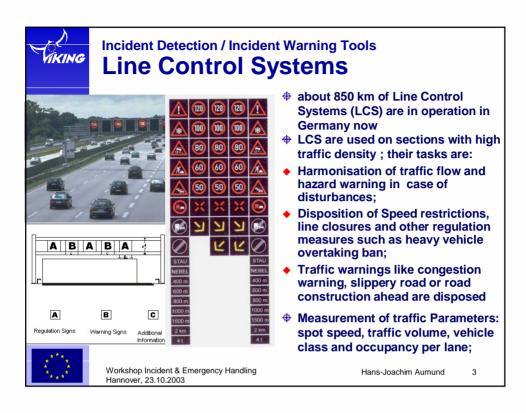
- 1. Incident Detection / Incident Warning Tools
- 2. Automatic Detection Systems and Image Processing
- 3. Incident Communication and collective warning Instruments
- 4. Instruments and Measures of Traffic Management and Traffic Warning
- 5. Breakdown and Accident Services for Motorists
- 6. Emergency Calls / Danger Warnings for Motorists
- 7. Incident Management in Tunnels
- 8. Incidents and Dangerous Goods Transport

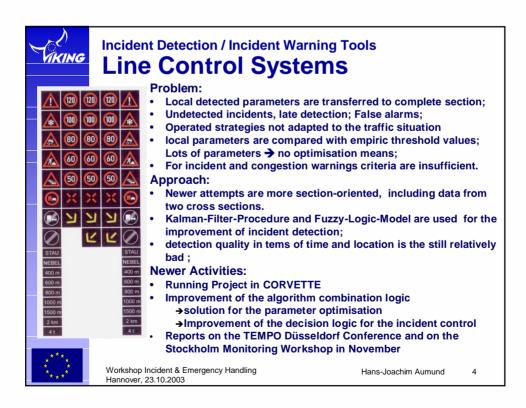


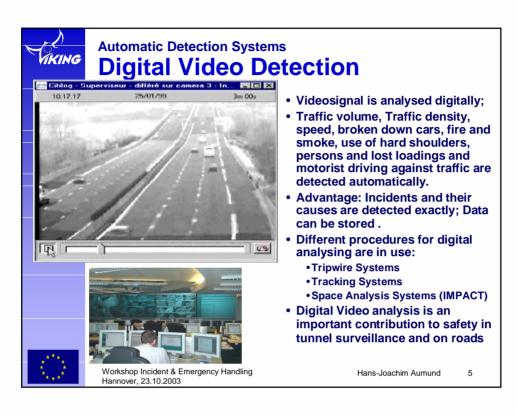
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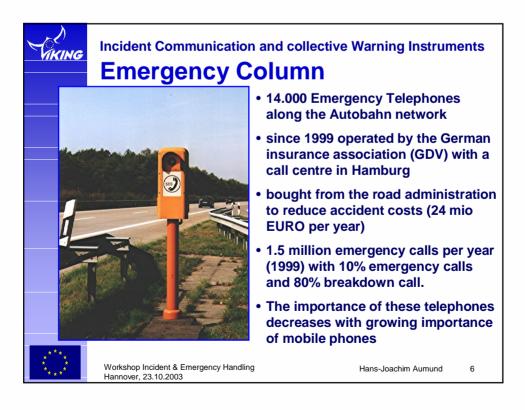
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2









Incident Communication and collective Warning Instruments Companion System •COMPANION aims to provide road users with a warning of the exact location of danger and critical situations which cannot be recognized at that moment in time. •The system is based on electronic beacons at he side of the road equipped with lighting units. •These beacons are connected with a data network, incident

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detection systems and a control system that activates them.

Beacons are similar to the conventional reflector posts but

some 30 persent larger.

7

Incident Communication and collective Warning Instruments KING **Companion System** · Field Test of the system on A92 north of Munich (since 1996), on A4 near Verona (Italy) and near Edinburgh in Scotland (since 1998) • The trials brought a significant reduction in speed and contributed to a safer and more homogenious flow of traffic. Extreme top speeds completely disappeared. The weak point for an effective operation of this system is the imprecise conventional recognition of traffic disturbances. Newer efforts now integrate mobile traffic data detection into this incident management system to improve the Source: BMW Group, 2001 effectiveness basically Workshop Incident & Emergency Handling Hans-Joachim Aumund Hannover, 23.10.2003



