

# Automotive HMI: Current status and future challenges

AIDE final workshop and exhibition

April 15-16, 2008, Gothenburg

## Major achievements last ten years

- Advanced display technologies have changed the dashboard layout from a rather static to a more flexible, dynamic and adaptable design
- Haptic devices have become available, providing new channels to give feedback to the driver.
- Speech input lower driver's distraction when commanding the vehicle or its options (e.g. navigation devices, radios or mobile phones)
- Better understanding of human factors (e.g. prioritising of tasks)

## Major problems, now and in coming ten years

- Market forces are driving towards increased complexity of the driver's working environment
- Nomadic devices are increasing safety risks unless integrated



**Input to round table discussion**

André Vits, European Commission, DG INFSO G.4

# Automotive HMI: Current status and future challenges

AIDE final workshop and exhibition

April 15-16, 2008, Gothenburg

## Most promising solutions

- Agreed and implemented design principles according to the European Statement of Principles (ESoP) on HMI
- Integration of ADAS requirements into the ESoP
- Fostering the discussion between nomadic device manufacturers and automotive industry in view of better integration into the car environment (in the eSafety Forum Working Group "Nomadic Devices")

## Research needs

- Human centred design and functional HMI integration for intelligent vehicle and cooperative systems
- Flexibility and individualisation of HMI
- Warning and automation strategies



**Input to round table discussion**

André Vits, European Commission, DG INFSO G.4