Young Researchers Seminar 2013

Lyon, France , June 5-7 2013

Laboratoire d'Economie des Transports
Unité Mixte de Recherche du CNRS n° 5593
Université Lumière Lyon 2 - ENTPE

Situation awareness in traffic management control rooms

The importance of traffic management system interface design

Ellemieke van Doorn

Rijkswaterstaat – Dutch Ministry of Infrastructure and the Environment

ECTRI
European Conference of Transport Research Institutes

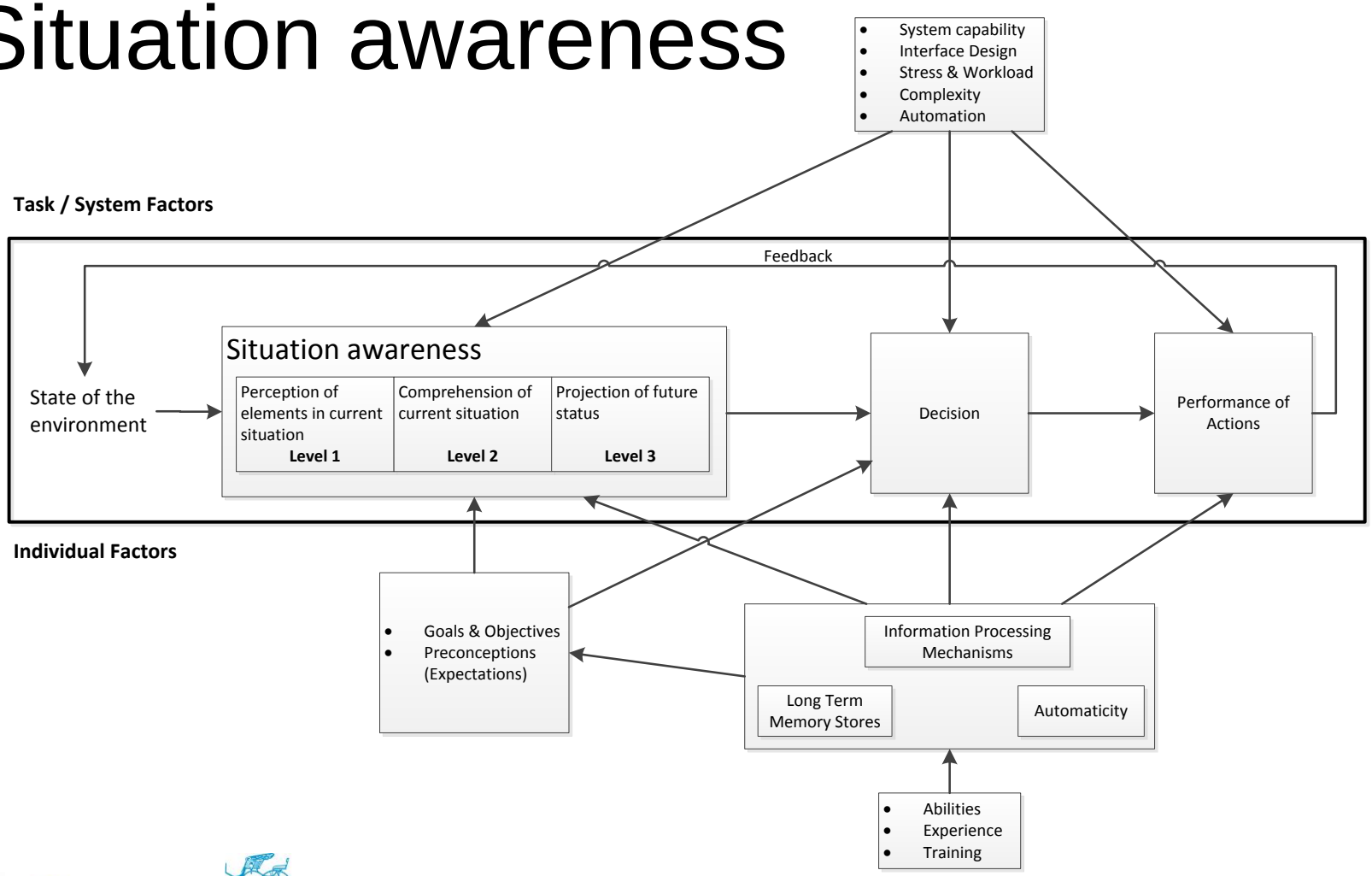
FERSI
Road Safety Research

The role of situation awareness

- Quantity of traffic
- Complexity of traffic
- Corridor management
- Quantity of information



Situation awareness



Individual factors

Innate information processing



Experience & training





Goals and expectations





Task factors

Physical stressors







Psychological stressors



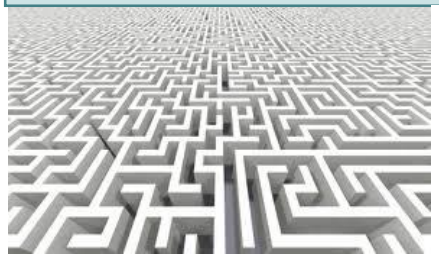


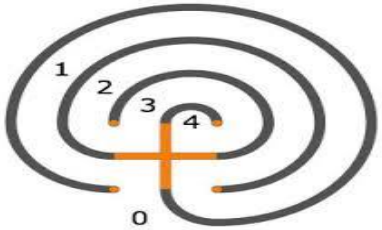
Workload





Complexity





System factors

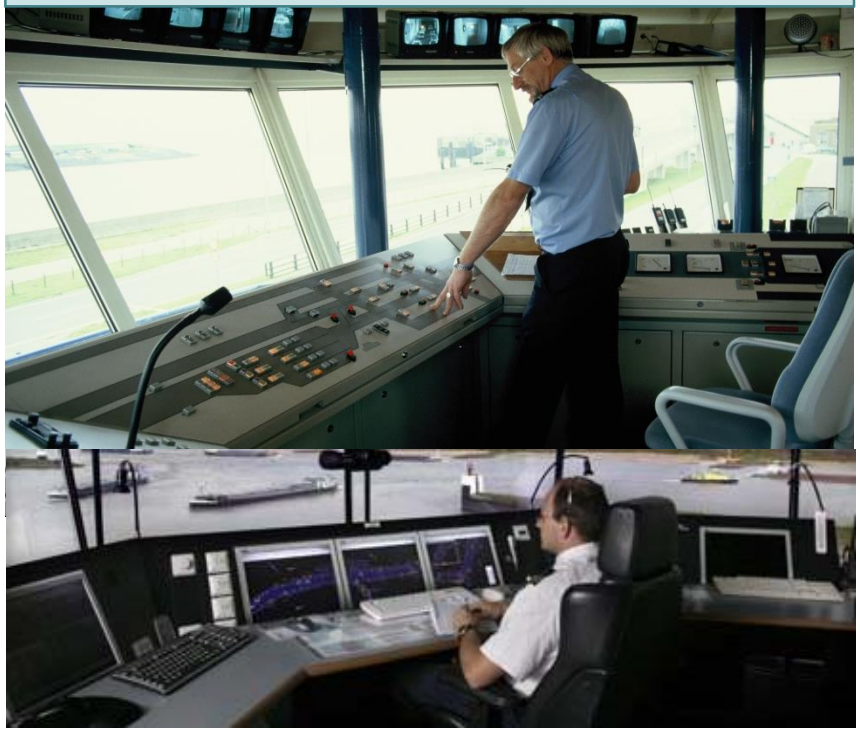
Data completeness / correctness



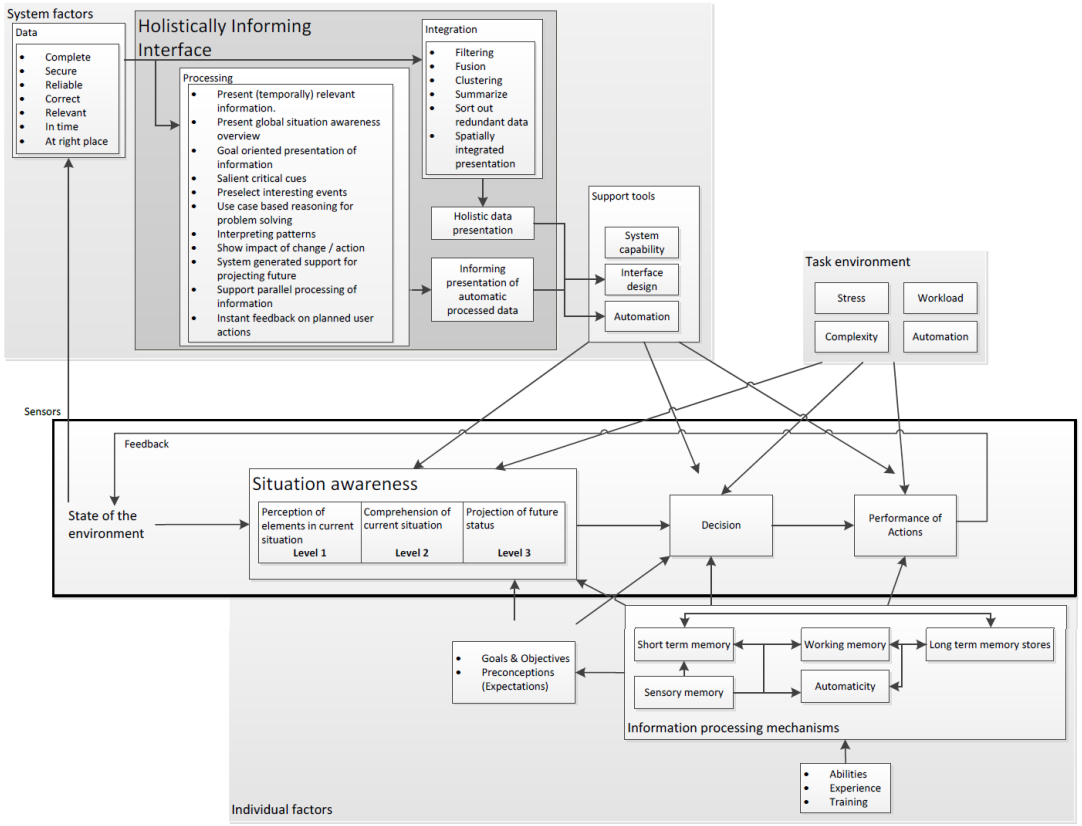
Data processing



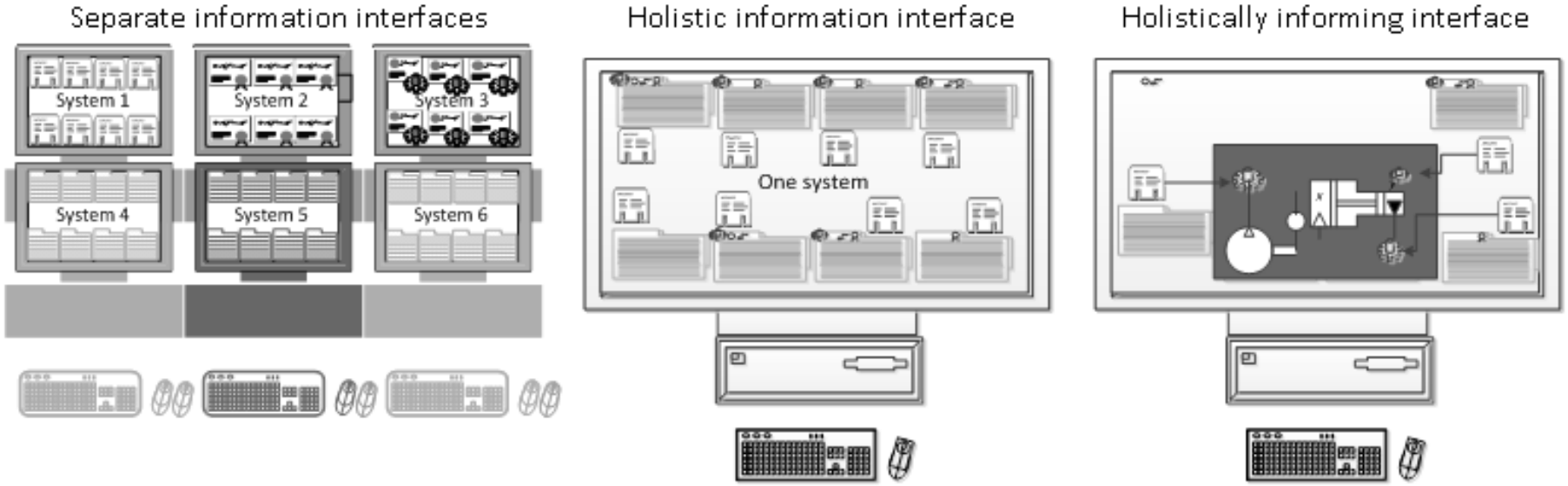
Interface design



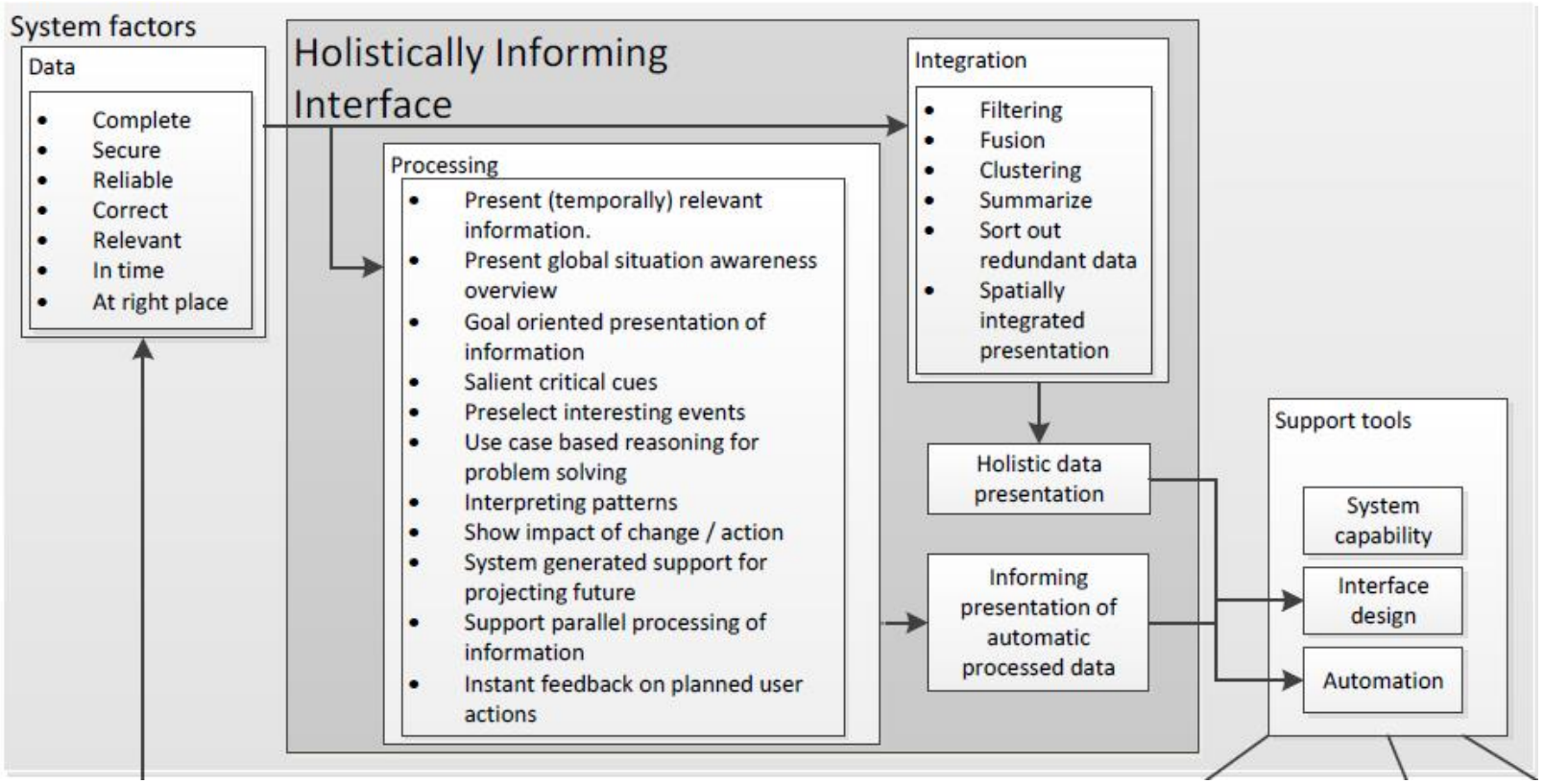
Importance of interface design



Holistically informing interface



Holistically informing interface



Questions?





