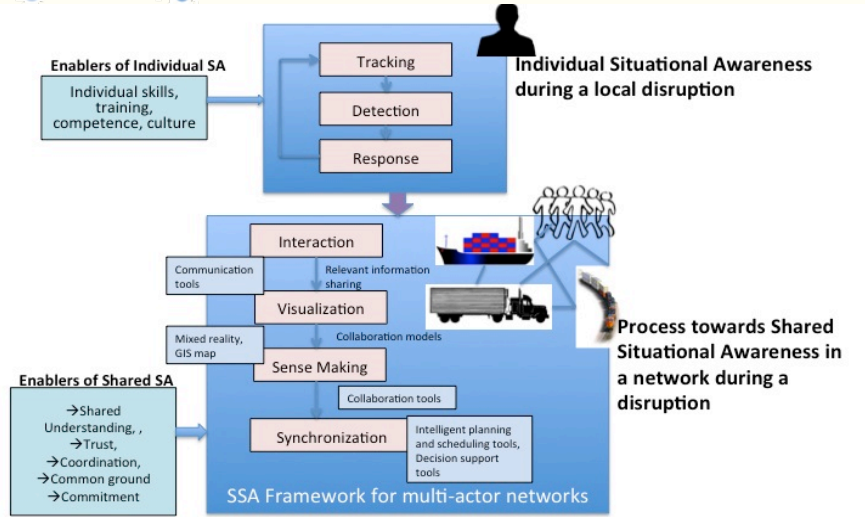


Shared Situational Awareness (SSA) in Intermodal Freight Transportation Networks



Research objectives of SALOMO project:

1. To improve SSA in intermodal transportation network to reduce ripple effects of disruptions.
2. To increase cross partner collaboration among actors of the network
3. To enable efficient and safe disruption management in the intermodal transportation network

Challenges in intermodal freight transportation:

- Intermodal transportation networks today are large, global, complex and dynamic
- They are hugely vulnerable to disruptions that create ripple effects along the network causing huge financial and operational losses to the stakeholders of the network
- Lack of communication, coordination, relevant information sharing, and disruption-visibility dampens the reactivity of the current supply chains to disruptions- Lack of Shared Situational Awareness (SSA)
- Objective of the research: To study the processes, requirements and methodologies to create SSA in a dynamic multi-stakeholder intermodal transportation network.

Research Methodology: Theory based design of requirements and methodologies for SSA Framework → Rigorous iterative game design for training and → Validation of theory and design in practice (ports, terminals etc.)

	Individual	Group	System
	From individual towards participative decision making		
Participation			
Prescription			
Perception			

From Self Awareness towards awareness of interdependencies for adaptive joint actions



Direction of change

SSA Framework for Multi-actor Systems

Expected results:

1. SSA theories, methods and techniques for multi-actor networks
2. SSA assessment tool
3. Intelligent planning and decision-making tools
4. Decision support systems to handle disruption
5. Design of serious games to improve SSA
6. Learning and training methods to improve SSA in transportation networks.

The PhD thesis is supported by SALOMO project, sponsored by the Dutch Institute of Advanced Logistics (DINALOG). Prof. F.M.T. Brazier & Dr. ir. A. Verbraeck, TU Delft are the promoters of the PhD research. Dr. ir. G.L. Kolschoten, TU Delft is the daily supervisor of the research work. TRAIL is a scientific research partner. All their support is duly acknowledged.

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