



SAFER SUCCESS STORY: Care and Rescue

“The multi-disciplinary approach and the deep and broad competence, which are found in the SAFER focus topic Care & Rescue, have paved way for new and important research, development and innovation within the traffic injury area.”

Per Örtenwall
Associate Professor in surgery
Chief Physician

- Quickly established new Focus Topic
- Addressing significant society challenges
- Unique multi-disciplinary approach
- Close relation to Prehospital ICT Arena and TUCAP at Lindholmen Science Park

According to WHO, EU and others postcrash actions play a significant role in order to reduce overall mortality and injury severity for road traffic accidents. Improvements in this area will significantly reduce society costs and human suffering. The focus topic Care & Rescue started as a consequence of a revitalization of the postcrash reference group activities during 2012. In 2014 it was recognized as a new SAFER Focus Topic and today several projects are running under this umbrella.

Benefit to the project partners and impact on society:

- New products and solutions for industry, and new and improved care processes and methods
- Societal cost savings and less human suffering
- New national and international networks and co-operations
- Potential to have impact on future regulations and policies
- New research infrastructures and research fields
- Invitations to seminars/project collaborations

Approach:

Care & Rescue address post-crash challenges for all road-users through research and development within two defined domains: 1) Incident Detection, Prioritizing & Dispatch, 2) On-scene support. Within *Incident Detection, Prioritizing & Dispatch*, the objectives are quicker and more accurate detection and notification of incidents (e.g. improved eCall functionality), and improved incident assessment and prioritization including injury severity prediction. Within *On-scene support*, the objectives are to improve care and prioritization of casualties on-scene and in transport. This includes detection of occult traumatic injuries like TBI (Traumatic Brain Injury), improved triage and clinical decision support, and improved extrication methods. *Care & Rescue* covers cross-disciplinary research and development involving a broad spectrum of stakeholders and disciplines within academy, industry and society. These include SAFER partners as well as new actors representing areas like emergency rescue services, healthcare, ICT and MedTech industry.

Measurable results:

- 2 post-docs
- Masters theses
- Publications
- Conference presentations and abstracts
- Initiation of Competence area Human Monitoring

Funding: 5,4 MSEK SAFER internal (cash and inkind), and 5,4 MSEK external

Partners: AB Volvo/WirelessCar, Autoliv, Chalmers, Cycleurope, Folksam, If, irezQ, Landräddningen, Lindholmen Science Park (TUCAP and Prehospital ICT Arena), Region of VästraGötaland, Sahlgrenska Academy, SOS Alarm AB, SOS International, University of Borås, University of Gothenburg, Volvo Cars

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Period: 2012– ongoing