

Emergency response management

It takes a system and a strategy to save a life

It takes a system to save a life ...



- 5 million inhabitants
- 324.000 km² (132.000 sq.miles)
- North – South 2400 km
- 5 trauma centers

Emergency response management

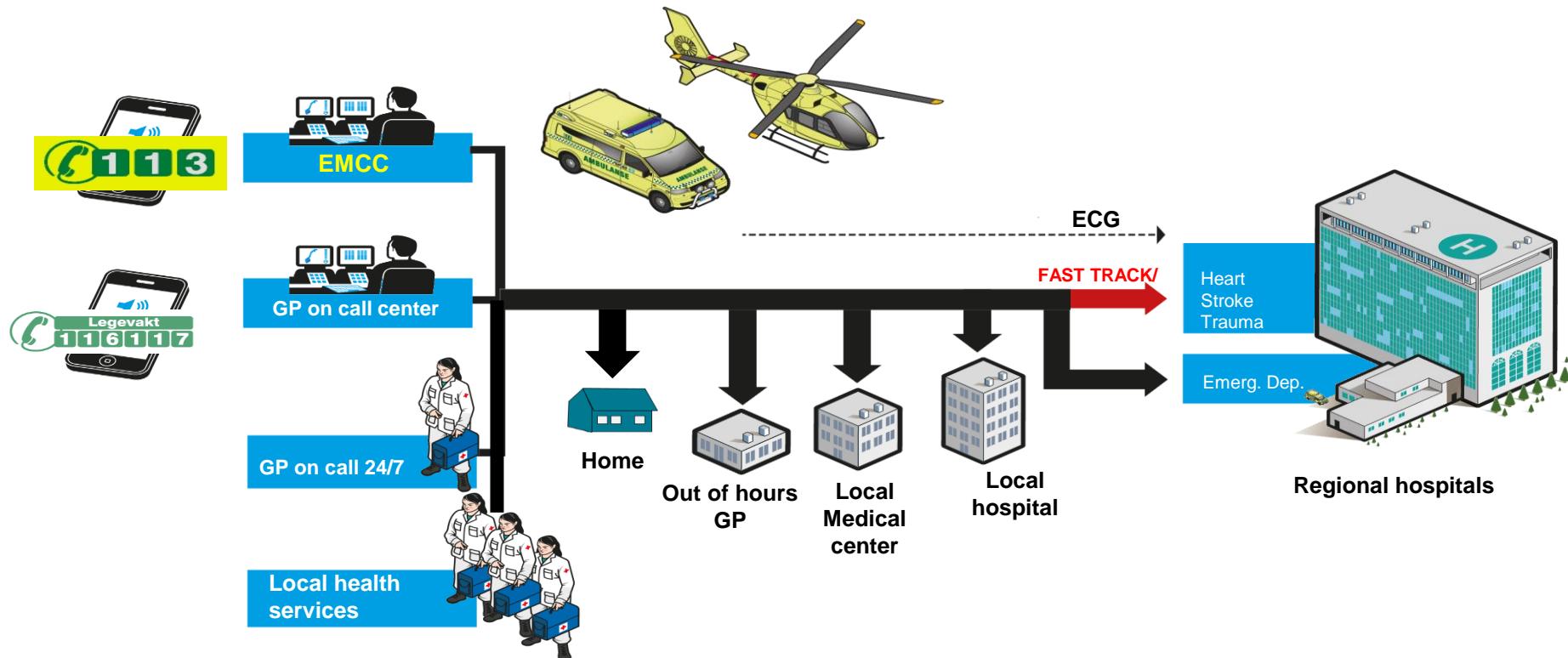
- «Multi agency» responsibility
 - Police:
 - Incident command
 - Safety and security
 - Investigation and complain
 - Fire and rescue:
 - Provided by the municipalities
 - Healthcare:
 - The municipalities - Emergency care / Psychosocial support
 - The hospital service – Ambulance service and trauma system

Emergency response management

- Agency specific PSAP's
- The European emergency number 1-1-2 is handled by the police.
- In addition the public can call agency specific emergency number's.
 - 1-1-0 Fire
 - 1-1-3 Emergency Medical Controll Center
- Each agency is legally and economically responsible for their services.



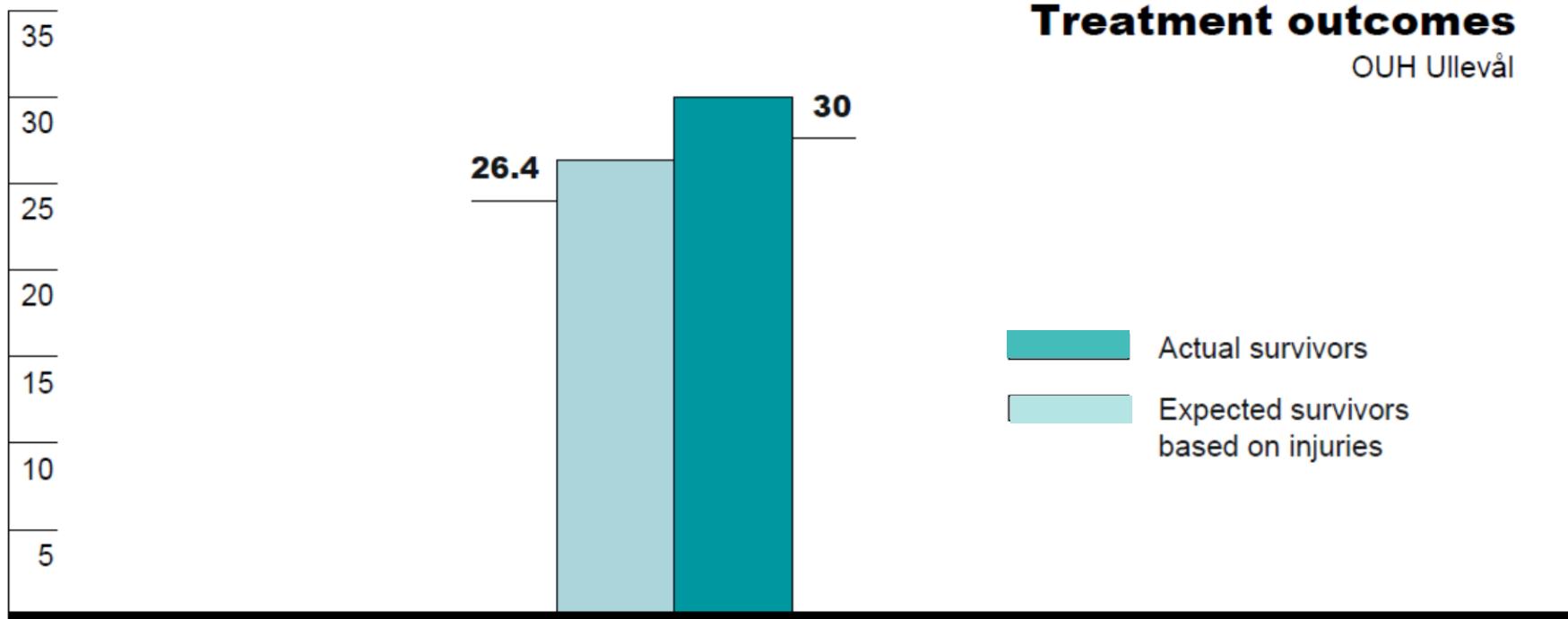
The System - EMS in Norway



22nd July 2011



Patient outcome was higher than expected

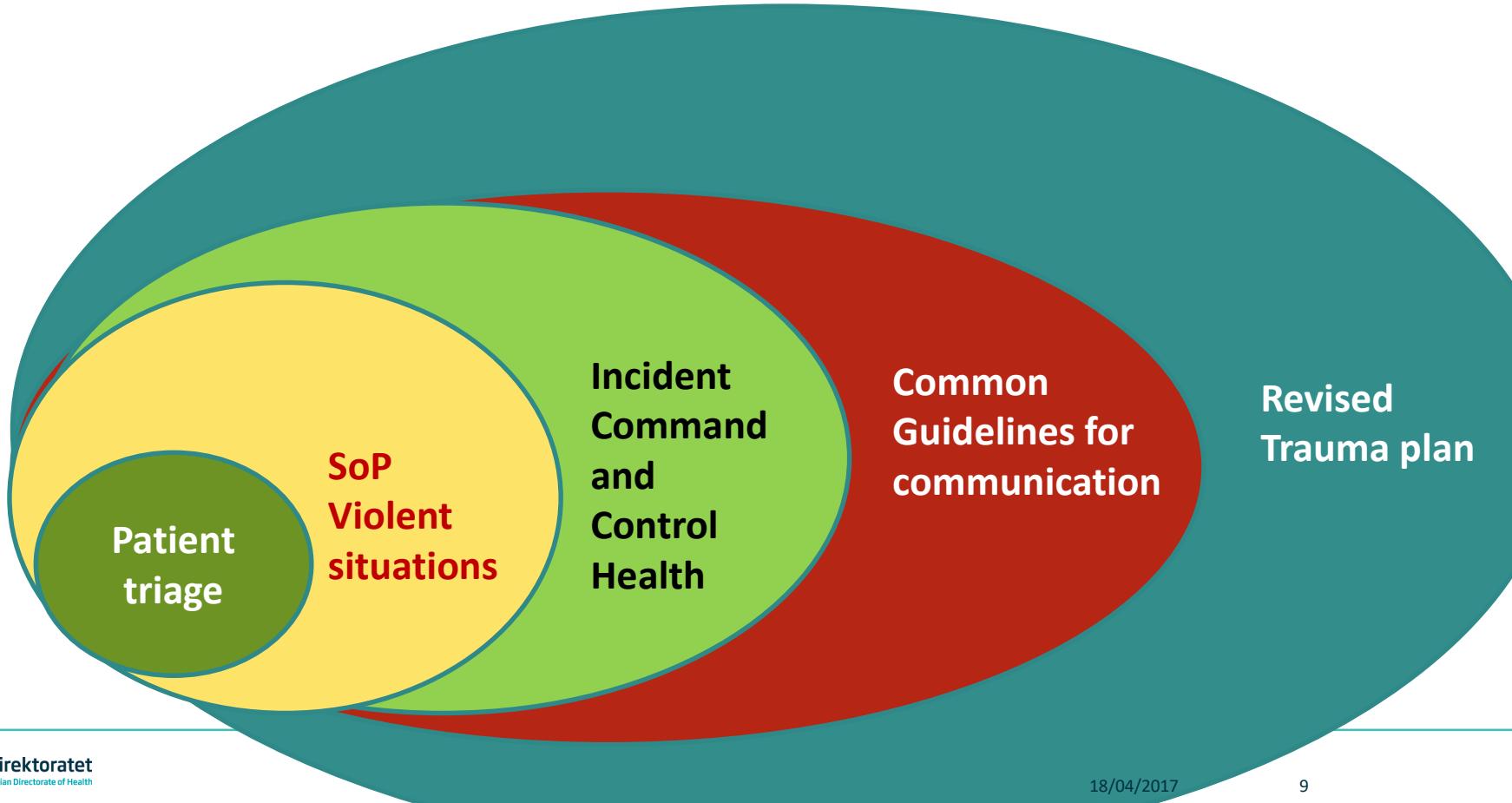


But we can do better



- Revision of national plan's for emergency prep.
 - Operational procedures
 - Command and control
 - Communication
- Technical solutions in EMCC
- Training and education
-

Measures taken



The strategy – The national trauma plan

<http://traumeplan.no/>

- **National requirements**
- **Organization**
 - Pre-hospital, hospital and post-hospital
- **Infrastructure**
- **Competencies**
- **Education**

Nasjonal traumeplan - Traumesystem i Norge 2015

Utarbeidet av en nasjonal faggruppe nedsatt av fagdirektørene i de regionale helseforetak under ledelse av Nasjonal Kompetansetjeneste for Traumatologi NKT-Traume

Planen er tilgjengelig på www.traumeplan.no



The operational organization

- National requirements
- Organization
- Infrastructure
- Competencies
- Education

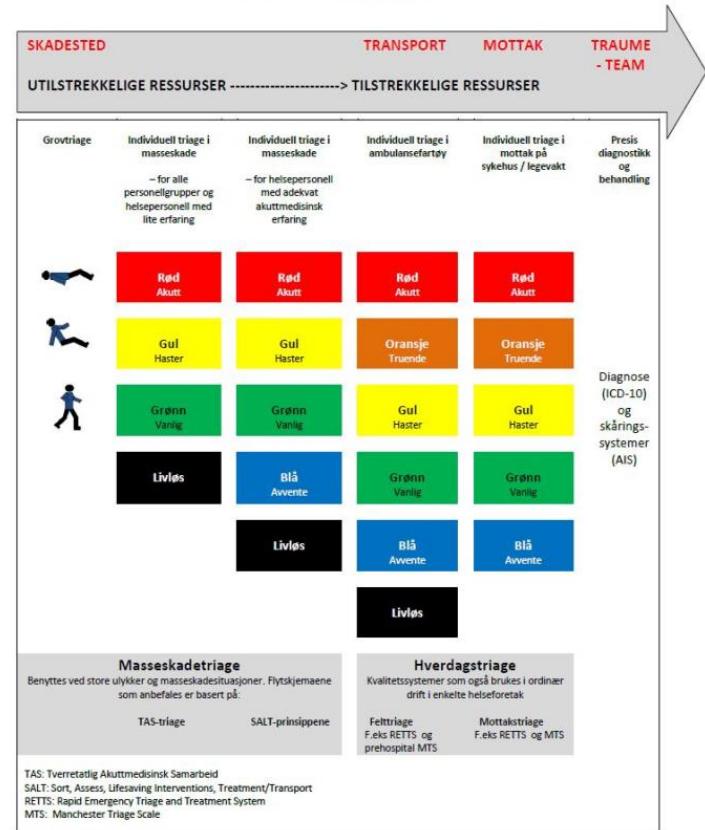


Tactics – National system for patient triage

<https://helsedirektoratet.no/Lists/Publikasjoner/Attachments/144/IS-0380-Nasjonal-veileder-for-masseskadetriage.pdf>

- Common principles' for al first responder agencies
- Simplicity
- Based on principle's from “everyday situations”

Figur 1 – Taktisk triage



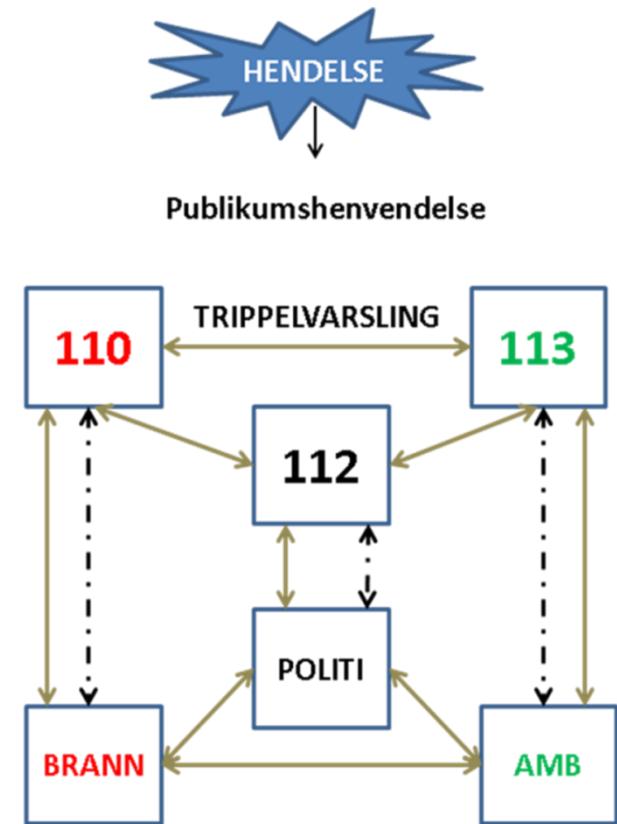
Command and Control - Nation wide regulations on emergency communication

- National requirements
- Organization
- Infrastructure
- Competencies
- Education



System challenges - 2017

- Call out – Unified rapid dispatch
 - 3 services – 3 C&C-systems – 3 Policies
- Delayed situational awareness
 - 3 services – 3 C&C-systems – 3 Policies
- Effect on patient outcome
 - Little research / lack of harmonized data
 - No evidence of higher patient outcome/ lower morbidity in other systems



Moving to the next level – EMS 2.0



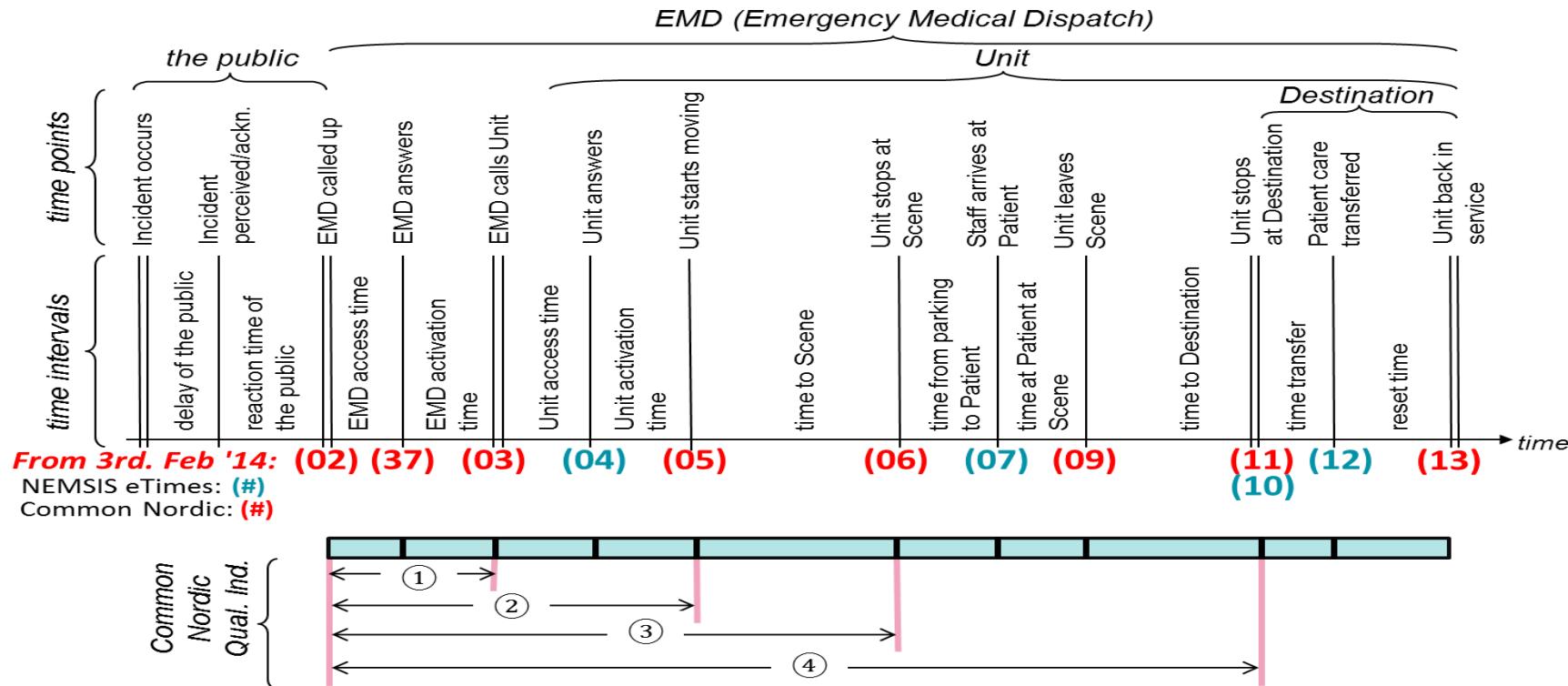
How do we perform?



International cooperation

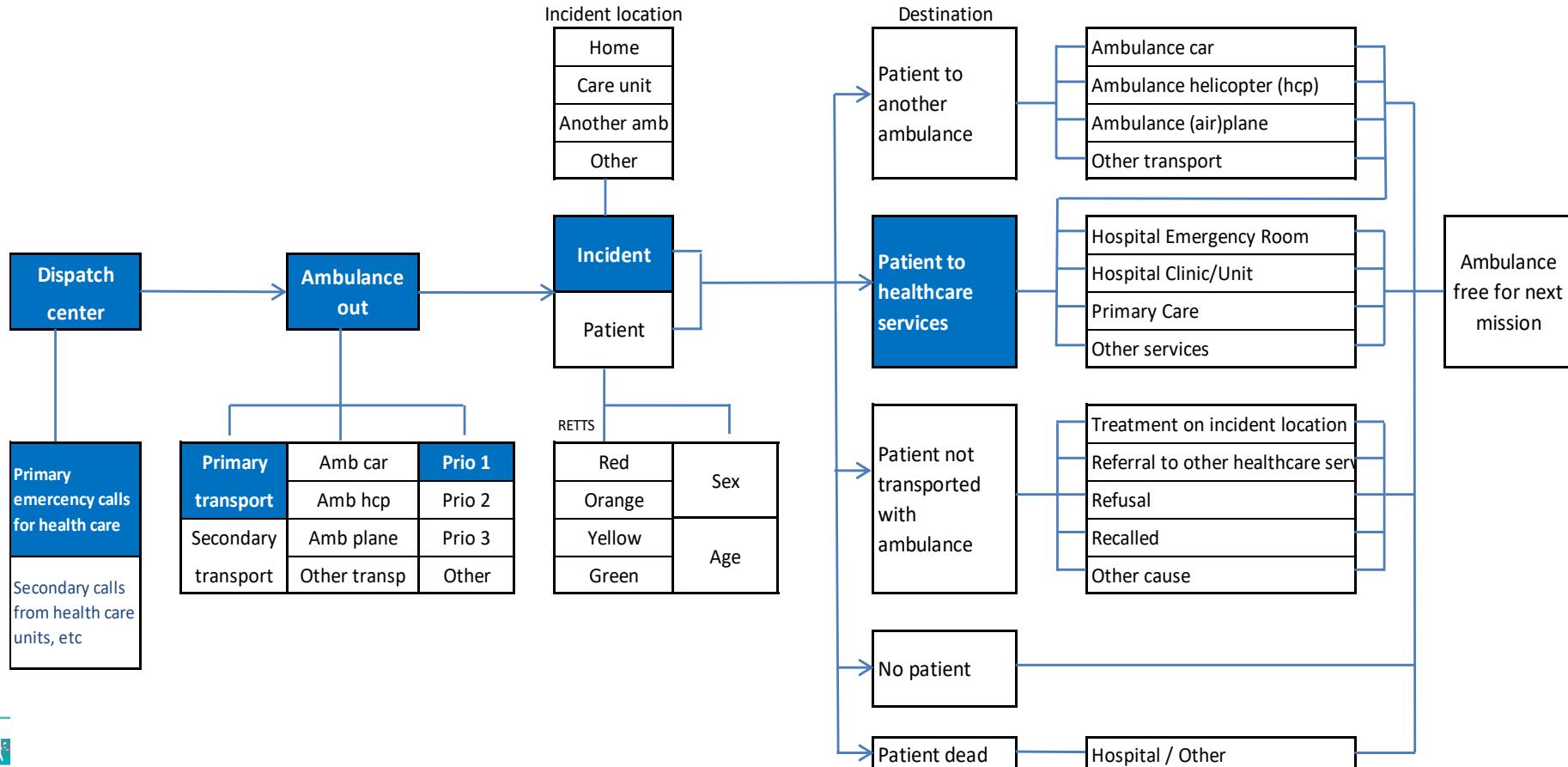


Nordic time point's and QI's compliant with the NEMESIS codeset

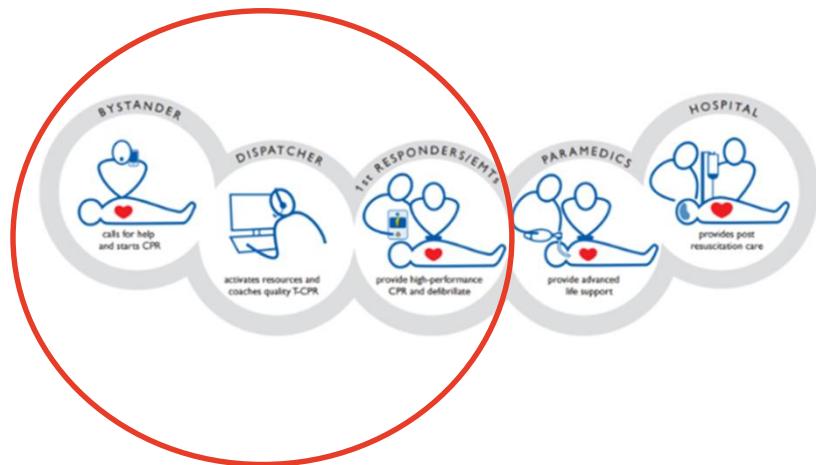
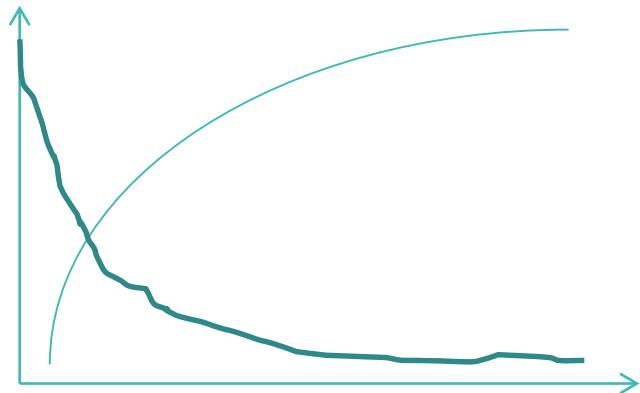


Data structure for Key Indicators

Datastructure ambulance perspective

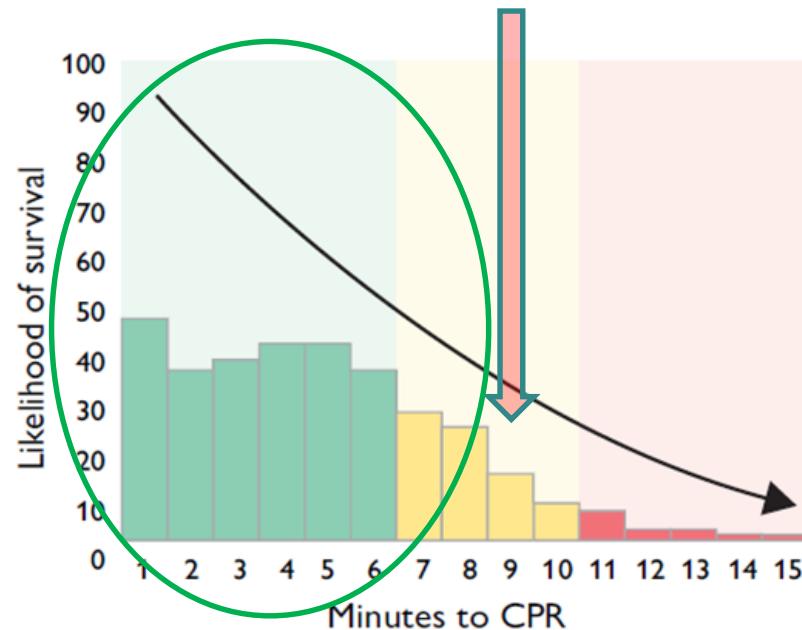


EMS 2.0 – Mowing outside the «box»

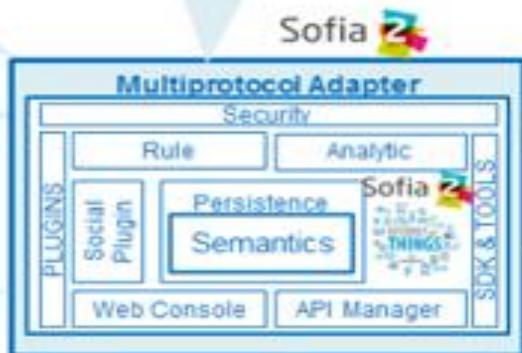


System possibilitets 2017

- Public awareness and rapid connection to EMS/Fire/Police
- Early detection and recognition
 - Location
 - Situation overview
- Early public intervention
 - Skiles
 - Motivation
 - Systematic telephone guidance/advise
- First responders where adequate



SMART SPACE



The future is knowledge based medicine

- EMS must adopt and take up a leading role
 - Actively move forward and enhance the service
- Meet the real need of the society
 - Knowledge based distribution of advanced mobile healthcare and care access.
- **Knowing what we do and how we perform is essential to reach our goal!**



Predict and Prevent

