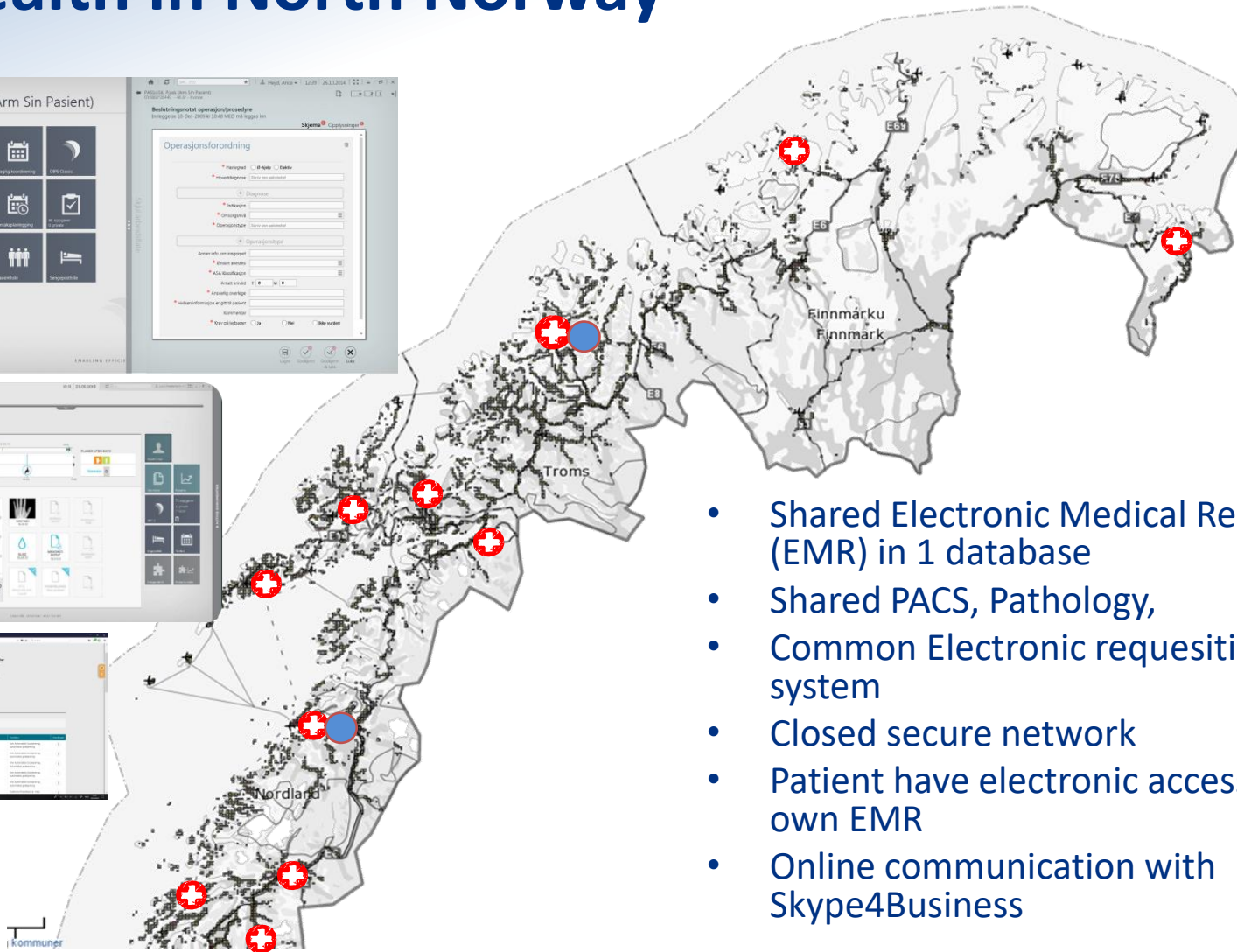
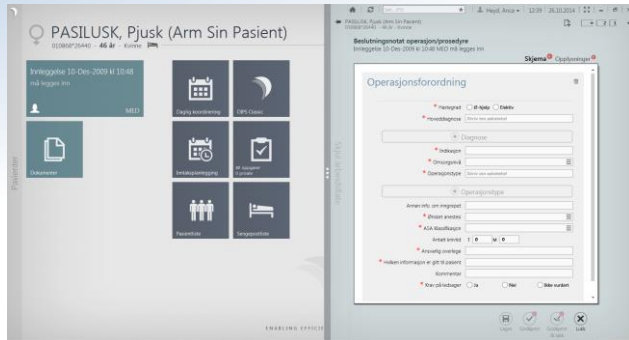




# **Digital solutions for health services in Northern Norway. Examples from COVID19 period**

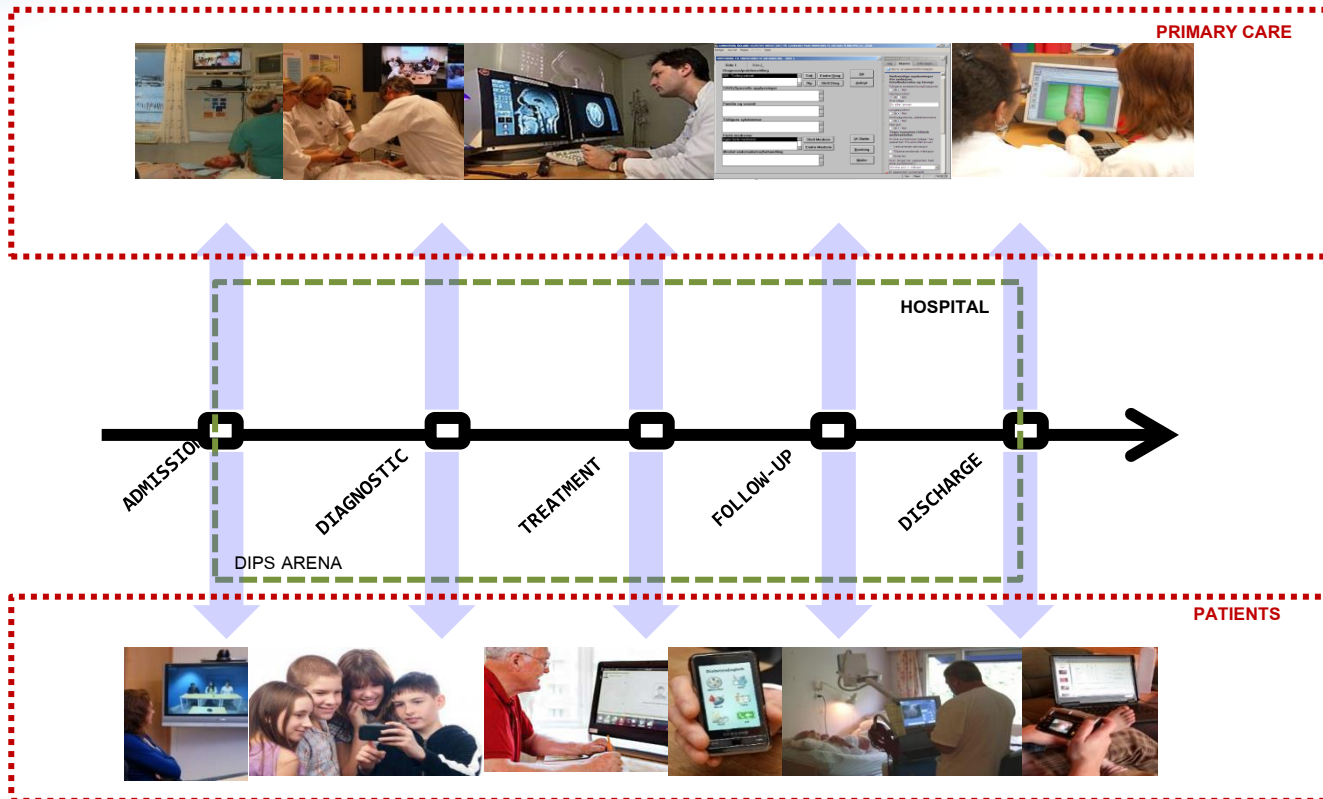
**Sture Pettersen  
e-health manager  
Finnmarkssykehuset Health Trust**

# E-health in North Norway



- Shared Electronic Medical Records (EMR) in 1 database
- Shared PACS, Pathology,
- Common Electronic requisition system
- Closed secure network
- Patient have electronic access to own EMR
- Online communication with Skype4Business





# Implemented digital solutions during COVID 19

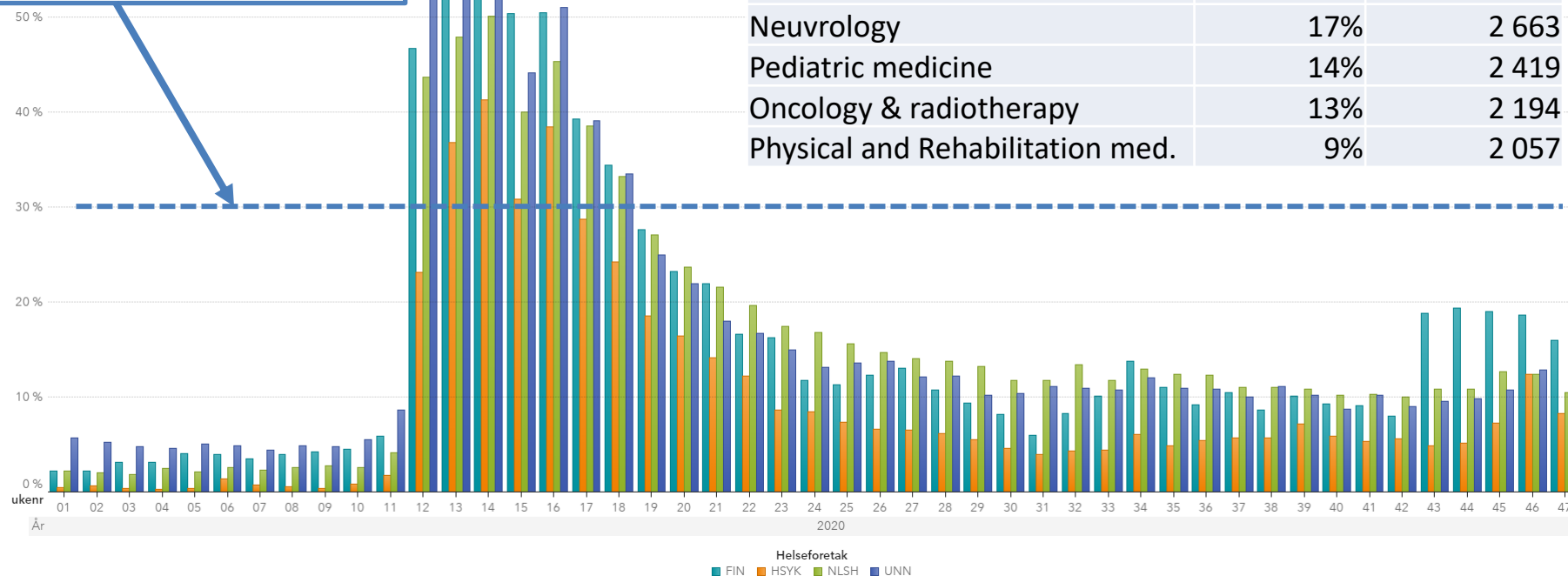
- New video conferencing system (Whereby)
  - Simpler and more secure
  - Integrated with electronic medical record system (DIPS)
  - Patient is noticed via SMS and start the conference by one click
- Patient can see and change their appointment in the national health portal ([helsenorge.no](https://helsenorge.no))
- Secure messaging between GP and hospital
- Digital patient assessment with individual scored reports (Checkware)
- Self reporting for rheumatology patients (GoTreatIT)
- Risk stratification in electronic medical record system



# Percent of remote outpatient consultations

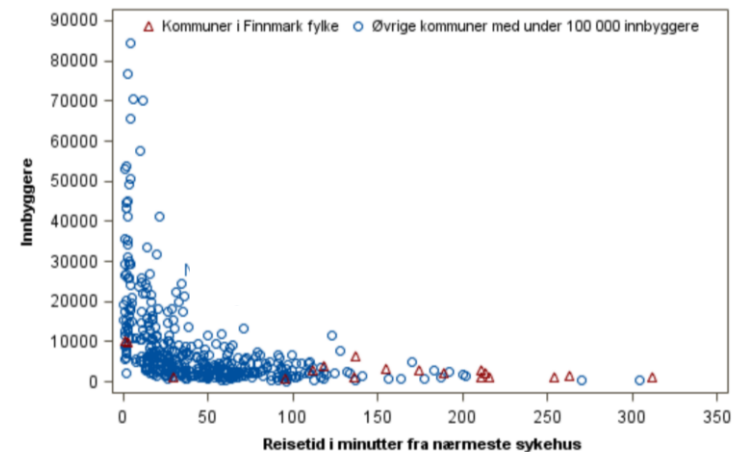
Top 10	% phone and video	Number of consultations
Mental health adults	30%	36 781
Mental health children	29%	19 704
Rheumatology	23%	4 180
Endocrinology	25%	3 554
Addiction	37%	3 294
Substitution Treatment	42%	3 151
Neurology	17%	2 663
Pediatric medicine	14%	2 419
Oncology & radiotherapy	13%	2 194
Physical and Rehabilitation med.	9%	2 057

Goal set by the region:  
Minimum 30 % outpatient consultation remote

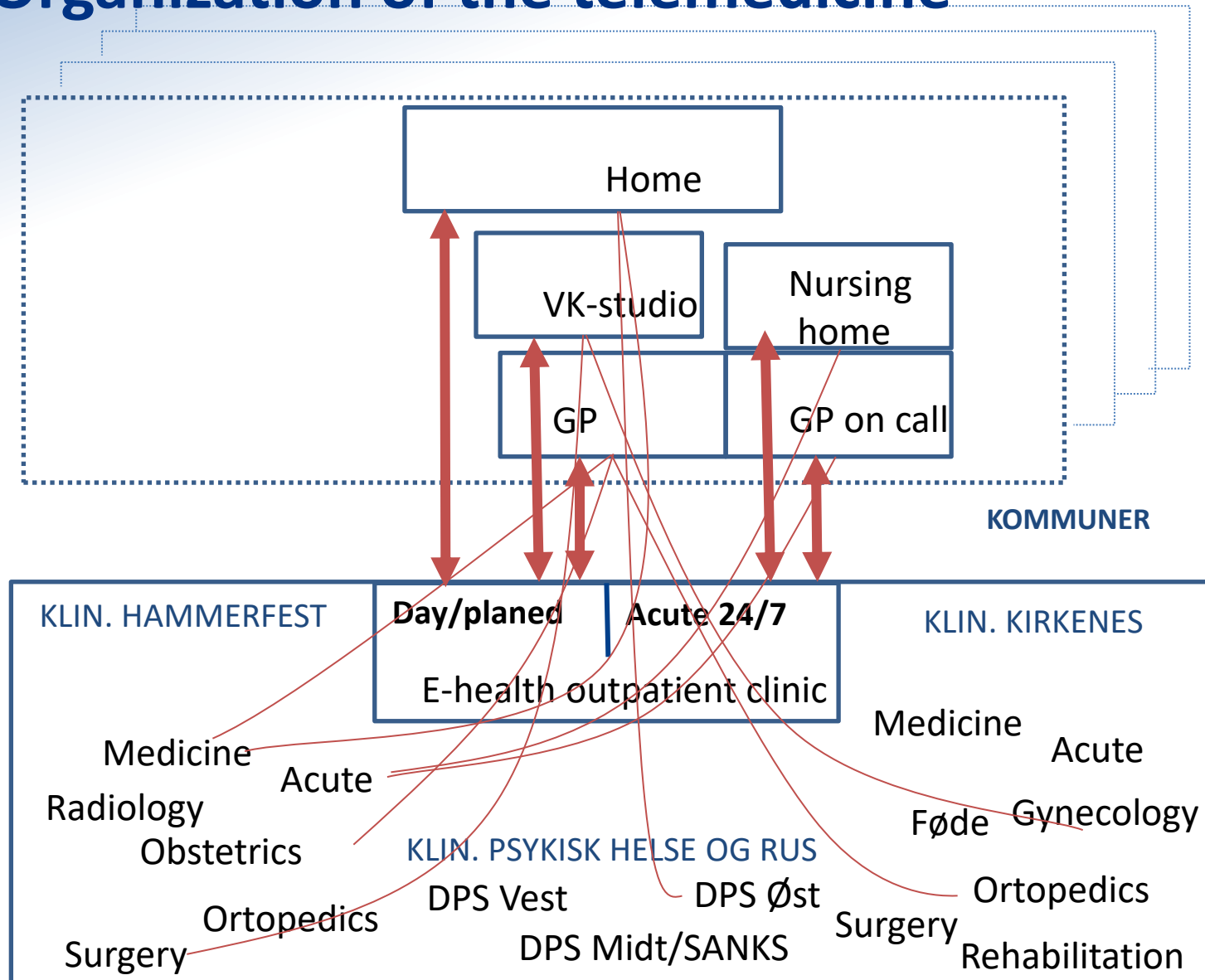


# Some challenges

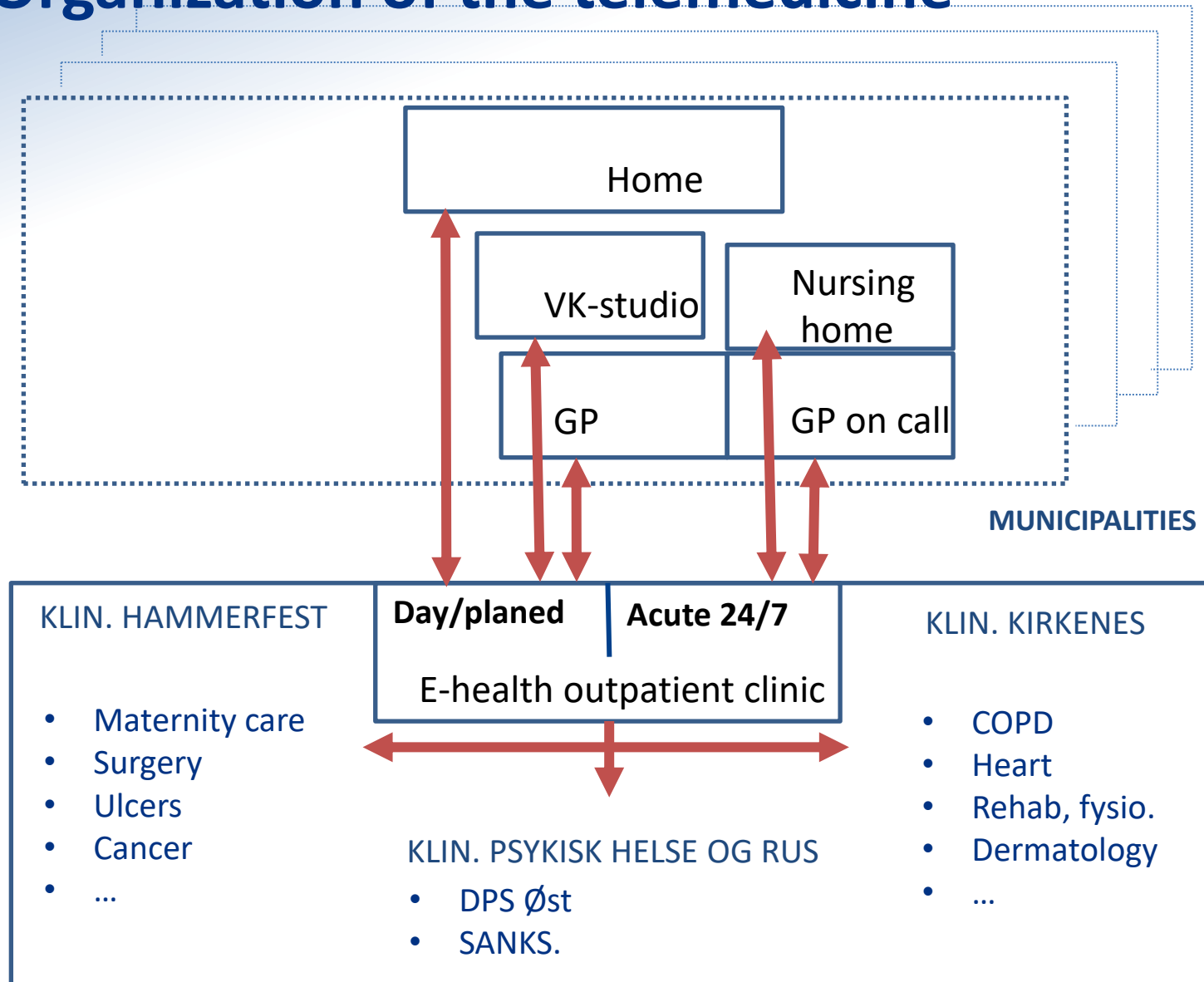
- 5 % of patients use 50 % of all resources
  - Patient with complex condition and multiple need for healthcare
  - Parallel treatment from different level of health organizations
  - Incorrect medication, lack of coordination and unintentional adverse interaction
  - Patients' values and preferences are not adequately considered
- 10 % of all cost is transportation
  - Decentralized services
  - Healthcare where people live



# Organization of the telemedicine



# Organization of the telemedicine





# Summary

- Patients with complex conditions
- Decentralized outpatient controls
- Better professional guidance
- Mature technology based on standards
- E-health outpatient clinic