Seminar will start soon

- You can during the seminar submit questions through the Chat-function
- You are welcome to submit questions without stating your name, but we welcome you enter your name and organisation
- This webinar will be recorded

WELCOME

Healthcare and care

The future of healthcare and care, what is the bottleneck? (Innovation track)

Healthcare and care through distance spanning solutions (2018-2021) –
Part of the Swedish presidency programme of Nordic Council of Ministers 2018

VOPD webinar 14th of December – 4th final webinar

Niclas Forsling, Centre for Rural Medicine - Region Västerbotten
Bengt Andersson, Nordic Welfare Centre

through distance-spanning solutions

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Nordic Council of Ministers

Government Offices of Sweden
Ministry of Health and Social Affairs

Northern Periphery and Arctic Programme
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region västerbotten

VOPD webinar 14th of December – 4th final webinar
The future of healthcare and care, what is the bottleneck? (Innovation track)

Zoom webinar 14 December at 11.00-11:45 (CET), program:

11.00 **Introduction VOPD and Wearables and Response Service – Innovation track**

Bengt Andersson, Senior Adviser, Nordic Welfare Centre

11.05 **Wearables - Is the future of integrated healthcare and care at your wrist?**

Bengt Andersson, Senior Adviser, Nordic Welfare Centre

11.15 **Response Service – Bottleneck or a game changer?**

Niclas Forsling, Project Manager, Centre for Rural Medicine, Sweden

11.30 **Centre for Rural Medicine invests 10 MEUR in system solutions for integrated healthcare and social care**

Niclas Forsling, Project Manager, Centre for Rural Medicine, Sweden

11.35 **Discussion and short sum up**

Niclas Forsling, Bengt Andersson

**11:45** **Closing the webinar**

Nordic Welfare Centre

- An institution under Nordic Council of Ministers
- Offices in Stockholm and Helsinki
- 30 employees

About the Centre for Rural Medicine

- Since 2014 a R&D-unit within Region Västerbotten
- Head office in Storuman
- Around 15 employees, spread across the northern region
- Funding mainly through various projects – about 4 million SEK in core funding
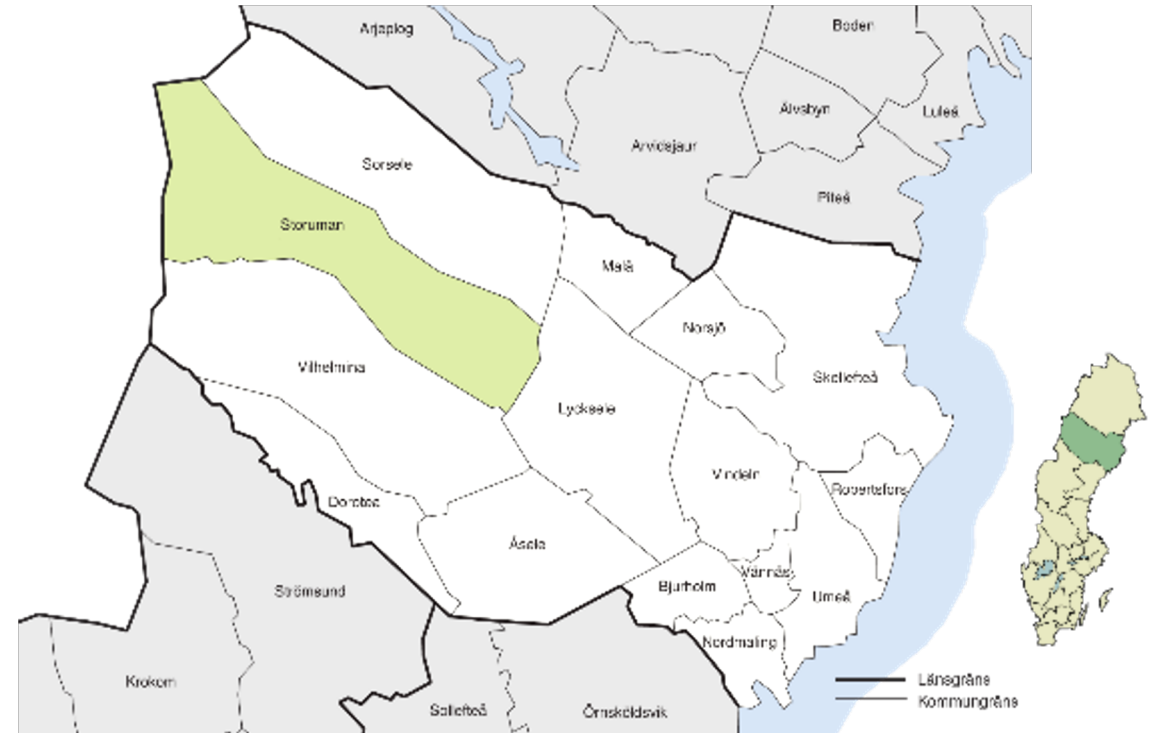
Webinar 1: Implemented distance-spanning services in the Nordics

- What e-health solutions already exist, and what should be put in place?
- What are the technologies with the lowest threshold?

Publication September 2019 with the 24 most interesting distance spanning solutions

Download an electronic version or order your printed version in English here

Find your Swedish version here

For 19 more solutions, visit our website: www.healthcareatdistance.com

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Webinar 2: Roadmap for service innovation

- How can technology be brought to those people who need it and/or don't know how to use it?

Roadmap translated into Swedish:

- Download your version here

Roadmap translated in other languages:

- English, download here
- Danish, download here
- Icelandic, download here
- Finnish versions being translated

Webinar 3: Practical examples from implementation work 2020
- How to fast-track innovation?

VOPD Call 1:
Nine projects starting in September 2019

	Organisaton	Country
1	The central hospital of Kanta-Häme	Finland
2	City of Reykjavik	Iceland
3	City of Akureyri (Akureyrarkaupstaður)	Iceland
4	Akureyri Hospital	Iceland
5	Steinkjer Municipality	Norway
6	Høylandet Municipality (VINA)	Norway
7	KSON, Municipal association of healthcare and social care in Norrtälje	Sweden
8&9	Primarycare district of South Lapland + 7 Muncipalities (Åsele, Storuman, Dorotea, Malå, Lycksele, Vilhelmina, Sorsele)	Sweden

VOPD Call 2:
Twelve projects starting in April 2020

	Organisation	Country
1	Oulu Health	Finland
2	Odense University Hospital	Denmark
3	Rigshospitalet, Capital Region of Denmark	Denmark
4	Bornholm Hospital, Capital Region of Denmark	Denmark
5	Bornholm Hospital, Capital Region of Denmark	Denmark
6	Akureyri Hospital11	Iceland
7	City of Akureyri (Akureyrarkaupstaður)	Iceland
8	Agder - 25 Municipalities	Norway
9	Eskilstuna Municipality	Sweden
10	Tallinn Science Park Tehnopol	Estonia
11	Saaremaa Municipality	Estonia
12	Võru County	Estonia

Wearables
– Is the future of integrated healthcare and care at your vrist?

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Devices with single data feed or multiple data feed?
(Practical examples of distance spanning solutions from our mapping exercise and publication)

Good care and healthcare – no matter where you live
24 examples from the Nordic region
DOWNLOAD OUR BOOK FOR FREE

Tele kit solution for patients with hearth failure (only on VOPD.nu)

Tele kit solutions for COPD patients

Night surveillance using webcam

Digital safety alarms - GPS

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	Pulse	Activity	Sleep	Notifications	GPS	Log	SpO₂	Apps	Telecommunication	ECG	Breathing	Motion analysis	Blood pressure
Apple	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
Garmin	✓	✓	✓	✓	✓	✓	✓					✓	✓
Fitbit smartwatch	✓	✓	✓		✓	✓	✓	✓					
Samsung	✓	✓	✓		✓	✓		✓	✓				
Oxitone	✓	✓	✓			✓	✓				✓	✓	
Withings	✓	✓	✓	✓		✓		✓		✓			
Un-medical	✓		✓	✓		✓	✓	✓		✓			
Fossil	✓	✓		✓	✓	✓		✓					
Skagen	✓	✓		✓				✓					
Polar	✓	✓	✓	✓	✓	✓							
Xiaomi	✓	✓	✓	✓		✓				✓			
Fitbit	✓	✓	✓	✓		✓	✓	✓					
Omron Heartguide	✓	✓	✓	✓		✓							✓
Heartisans	✓	✓				✓	✓			✓			✓
Suunto		✓		✓	✓	✓	✓						
Motiv	✓	✓	✓										
Taiwan Biophotonic	✓					✓	✓						
Minifinder	✓				✓				✓			✓	
Posifon					✓				✓				
Doro					✓				✓				

Disclaimer: This is NOT a way of comparing different wearables and the quality of their functions, rather to indicate the width of possible functions.
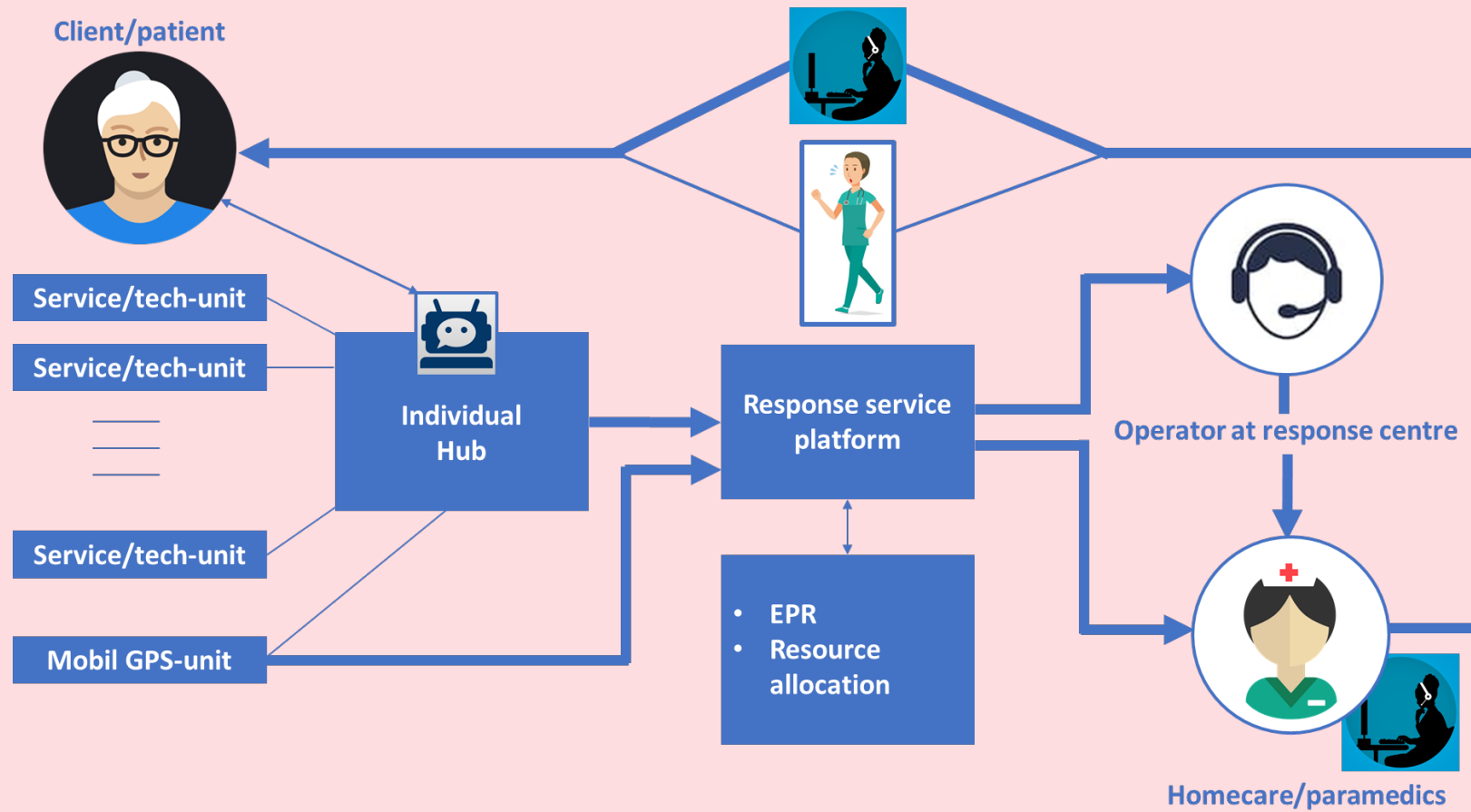
Response Service - Bottleneck or a game changer?

Bottleneck or a game changer?

Client/patient

Service/tech-unit

Service/tech-unit

Service/tech-unit

Mobil GPS-unit

Individual Hub

Response service platform

- EPR
- Resource allocation

Operator at response centre

Homecare/paramedics
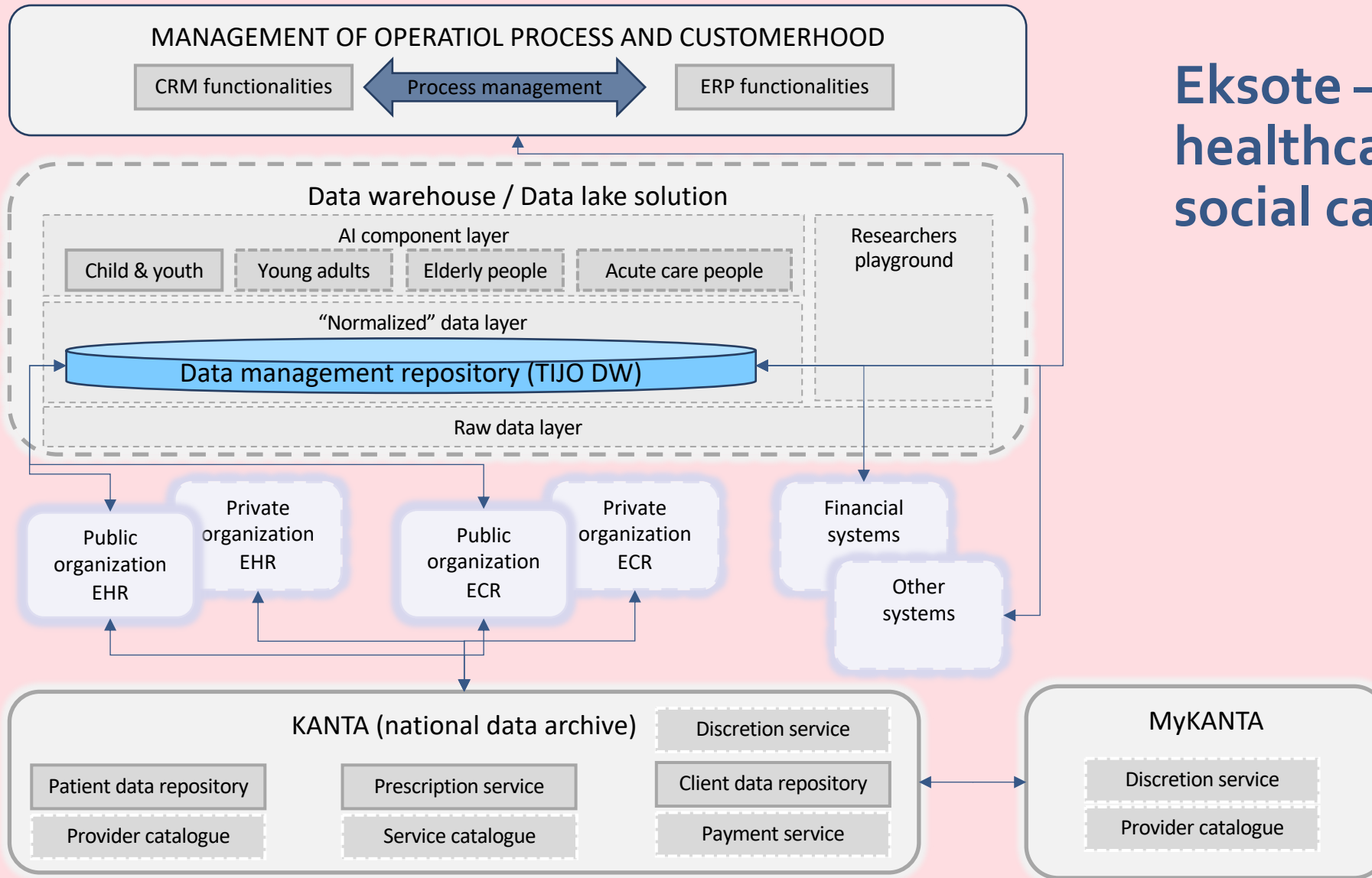
Eksote – A joint healthcare and social care region

MANAGEMENT OF OPERATIOL PROCESS AND CUSTOMERHOOD

CRM functionalities — Process management — ERP functionalities

Data warehouse / Data lake solution

AI component layer

Child & youth | Young adults | Elderly people | Acute care people

Researchers playground

"Normalized" data layer

Data management repository (TIJO DW)

Raw data layer

Public organization EHR | Private organization EHR | Public organization ECR | Private organization ECR | Financial systems | Other systems

KANTA (national data archive)

Patient data repository | Prescription service | Discretion service
Provider catalogue | Service catalogue | Client data repository
| | Payment service

MyKANTA

Discretion service
Provider catalogue

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Legal review by Nordic Innovation
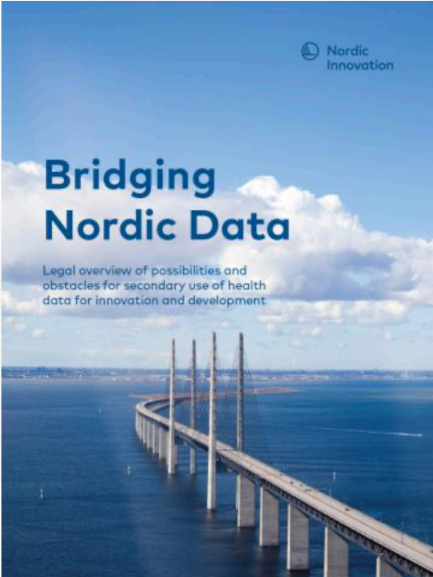
Present

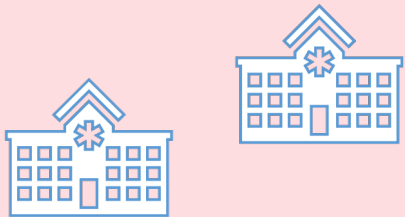Social care providers – municipality (public and private)

Social care providers offer self–monitoring and self-care equipment →

All measurements are reported to the social care provider

Social service electronic records

Interventions based on care administrator decisions

Selfgenerated date initiated by the patient

Not possible to share data between different providers (according to legislation)

Healthcare providers - region (public and private)

Electronic health records

Referral

Treatments

Drug withdrawal

Not possible to share own data

Measeurments generated manually or automatic

Health care providers offer self–monitoring and self-care equipment →

All measurements are reported to the health care provider
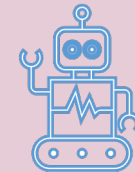
Spinn on GDPR

The effects of the GDPR legislation has not yet been seen, and opportunities that can benefit our citizens still need to be explored and developed.

The current structure of storing health data at healthcare and social care institutions are connected to legislation rather than providing the citizens with the best opportunity to utilize their data.

The drive for change need to come from the citizens, simultaneously as trusted alternatives to hold health data can be provided.

GDPR is a human rights act, and will through correctly tailored systems empower the citizens to improve their wellbeing.

Future

Social care providers – municipality (public and private)

Social care providers offer self–monitoring and self-care equipment

Social service electronic records

Interventions based on care administrator decisions

Shared data through consent

Non conforming measured value

Possibility to automatic reporting of non conforming value

Shared data through consent

Safe harbour

Healthcare providers - region (public and private)

Electronic health records

Referral

Treatments

Drug withdrawal

Accepted measured value

Shared data through consent

Health care providers offer self–monitoring and self-care equipment

Selfgenerated date initiated by the patient
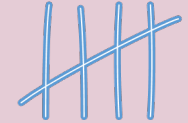
Measeurments generated manually or automatic
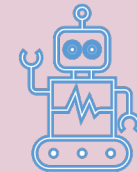
Client/patient
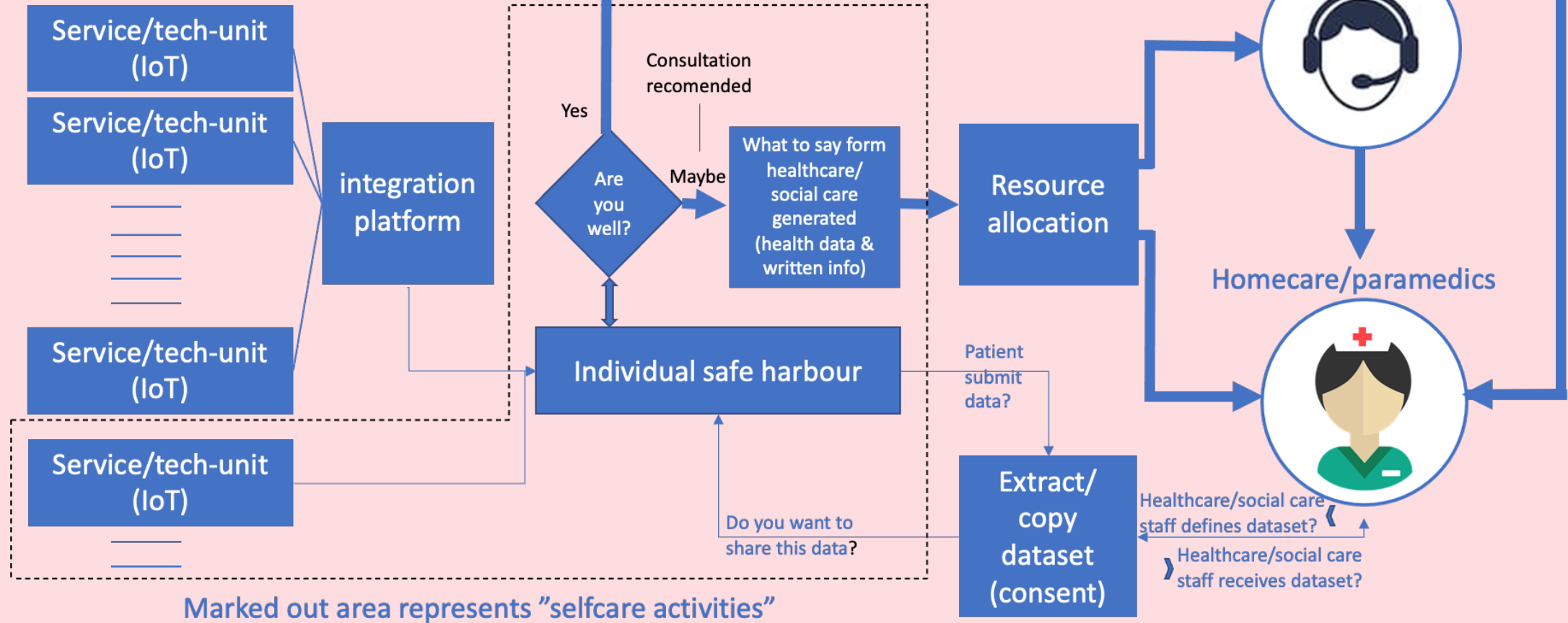
Service/tech-unit (IoT)

Service/tech-unit (IoT)

integration platform

Service/tech-unit (IoT)

Service/tech-unit (IoT)

Are you well?

Yes

Maybe

Consultation recomended

What to say form healthcare/ social care generated (health data & written info)

Resource allocation

Operator at response centre

Homecare/paramedics

Individual safe harbour

Patient submit data?

Extract/ copy dataset (consent)

Do you want to share this data?

Healthcare/social care staff defines dataset?

Healthcare/social care staff receives dataset?

Marked out area represents "selfcare activities"

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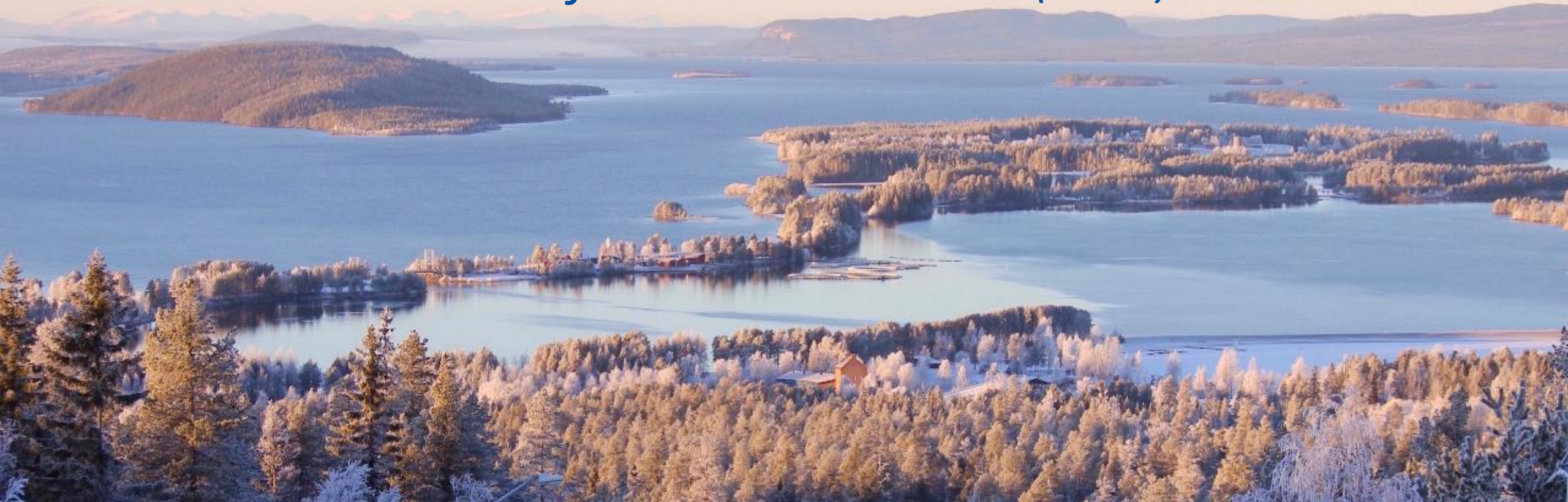
Northern Periphery and Arctic Programme
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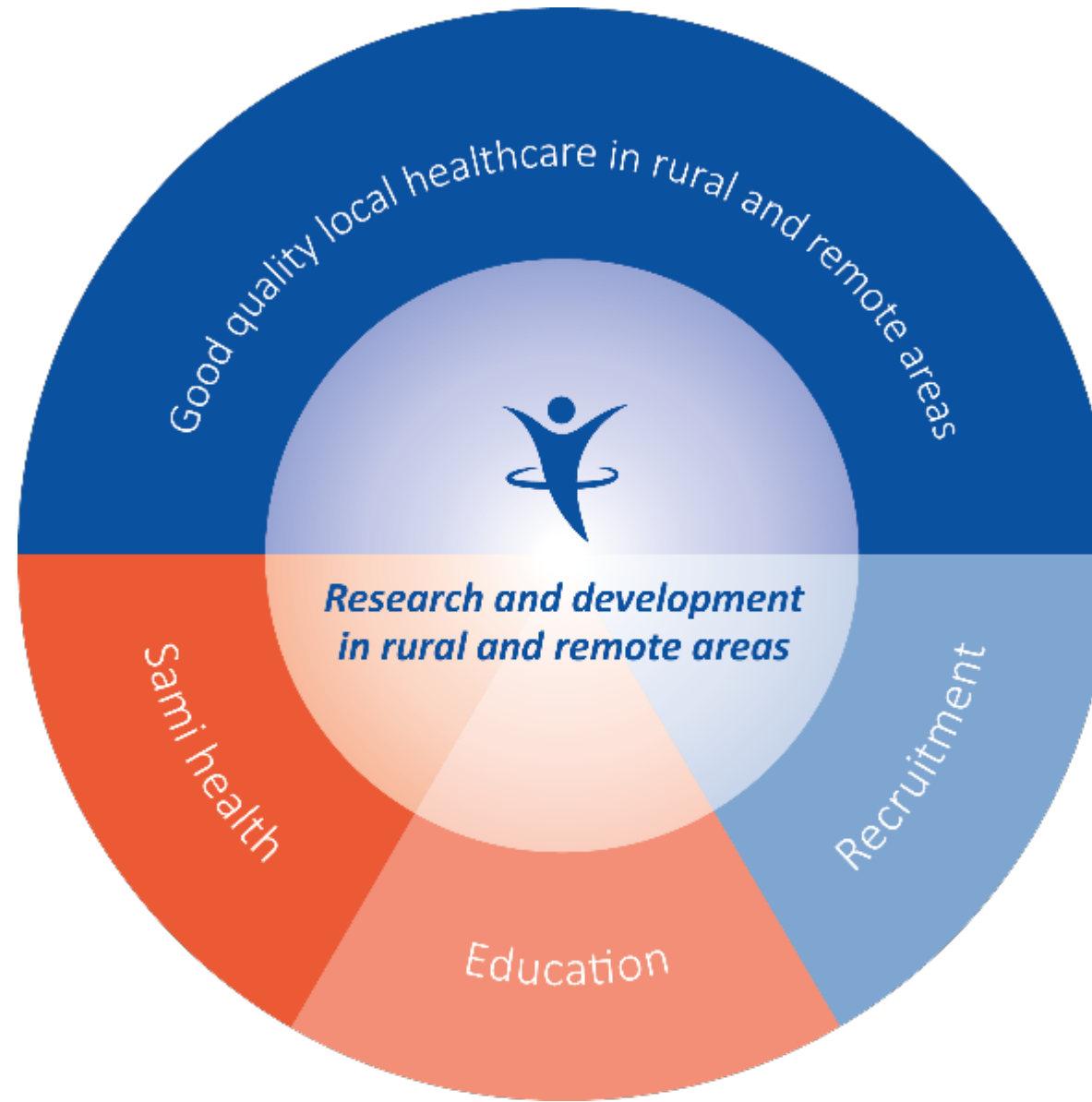European Regional Development Fund

region västerbotten

Centre for Rural Medicine invests 10 MEUR in system solutions for integrated healthcare and social care

Glesbygdsmedicinskt centrum
Centre for Rural Medicine (GMC)

Glesbygdsmedicinskt centrum
Centre for Rural Medicine (GMC)

region
västerbotten

Good quality local healthcare in rural and remote areas

Research and development in rural and remote areas

Sami health

Recruitment

Education

Glesbygdsmedicinskt centrum
Centre for Rural Medicine (GMC)

region
västerbotten

International collaboration

Health room/community room

CRANE – PCP project (under negotiation)

- Call within Horizon 2020
- Pre-commercial procurement (PCP) for integrated care solutions **ID:** SC1-BHC-20A-2020
- **Call name:** Better Health and care, economic growth and sustainable health systems
- CRANE - Comprehensive Treatment of Chronic Patients in Rural Areas
- 3 contracting regions; Region Västerbotten, Agder region and Extremadura Region (ExR)
- Academic partner: Oslo university hospital (Center for connected CARE – C3)

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CRANE – PCP project

- Build a system for increased person-centered care and nursing,
    - contribute to "empowering the citizens"
    - move citizens from social care and healthcare to preventive measures
    - Opportunity to take increased responsibility for their own health - public health
- Procurement in three phases (approx amounts):
    - Design of a new ICT support for integrated healthcare and care (5 suppliers, 50 k EUR)
    - Prototype of a new system, proof of concept (3 suppliers, 600 k EUR)
    - Validation of a new system (2 suppliers, 1 250 k EUR)

region
västerbotten

CRANE – procuring partners

- Region Västerbotten has the procurer responsibility (Lead coordinator)
- Procurers; Region Västerbotten SE, Agder Region NO, Extramadura ES
- PCP budget approximately 4,650 MEUR

- Expected to sign contract, 4th of February 2021
- Starting date 1st of March 2021
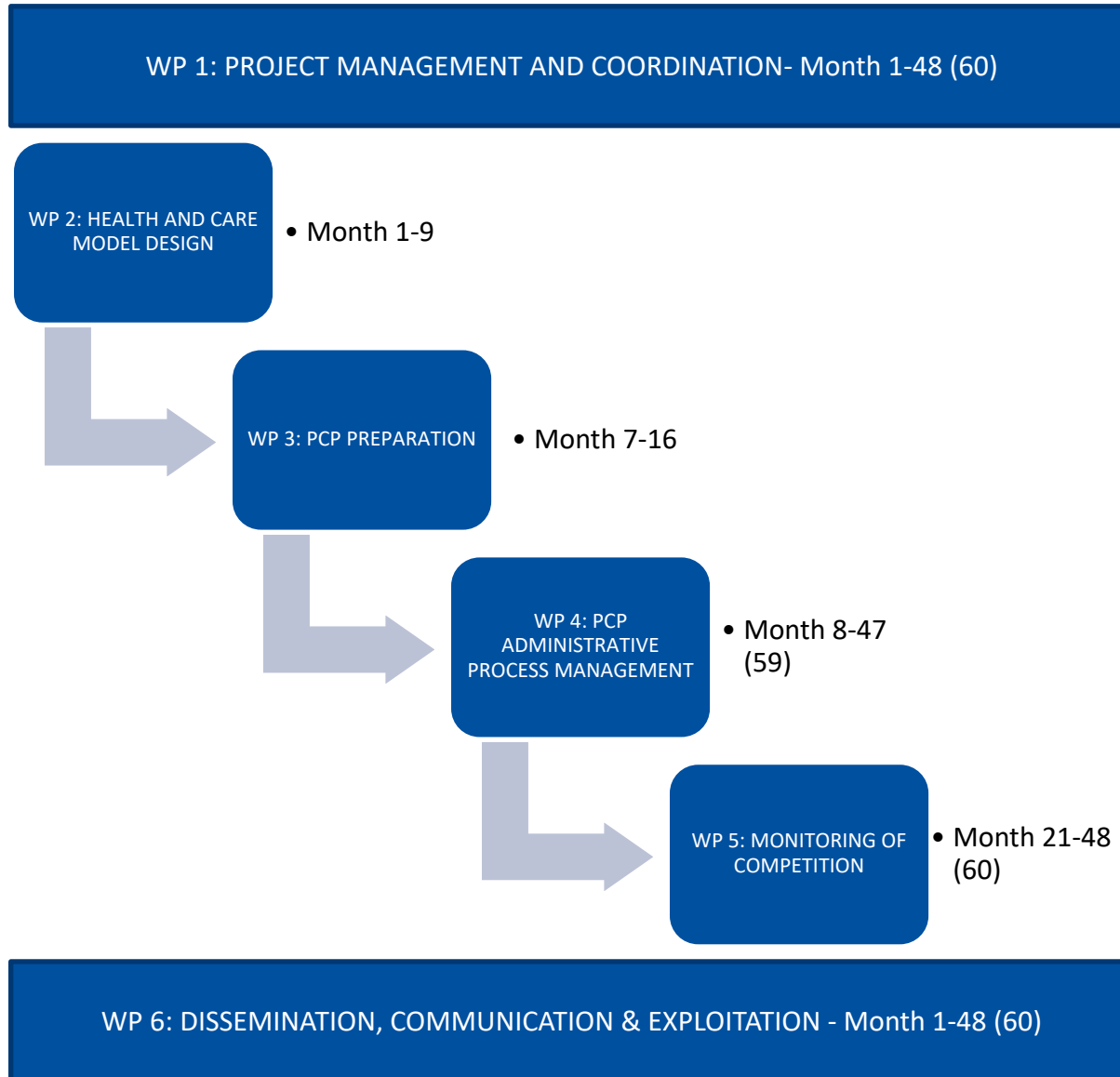
Tique – Preventing emergancy care

- Another PCP project, through Horizon 2020, under negotiation
- Tique: *InnovaTIve care services, enhanced with technology, to deliver QUick rEsponses for individuals with advanced heart failure and complex care needs through integrated care*
- Region Västerbotten, one procurer (Hospital de la Santa Creu i Sant Pau, Barcelona. CenterMed Sp. z o.o. Krakow)

Tique – Preventing emergancy care

- PCP budget approximately 4,2 MEUR

- Similiar PCP set up as for CRANE

- Main focus is on:
  Bridging the gap between offer and demand by creating a new generation of market solutions to implement integrated care (IC) approaches to treatment for patients with advanced heart failure (HF) and co-existing chronic conditions (multimorbidity), frail or at risk of becoming frail.
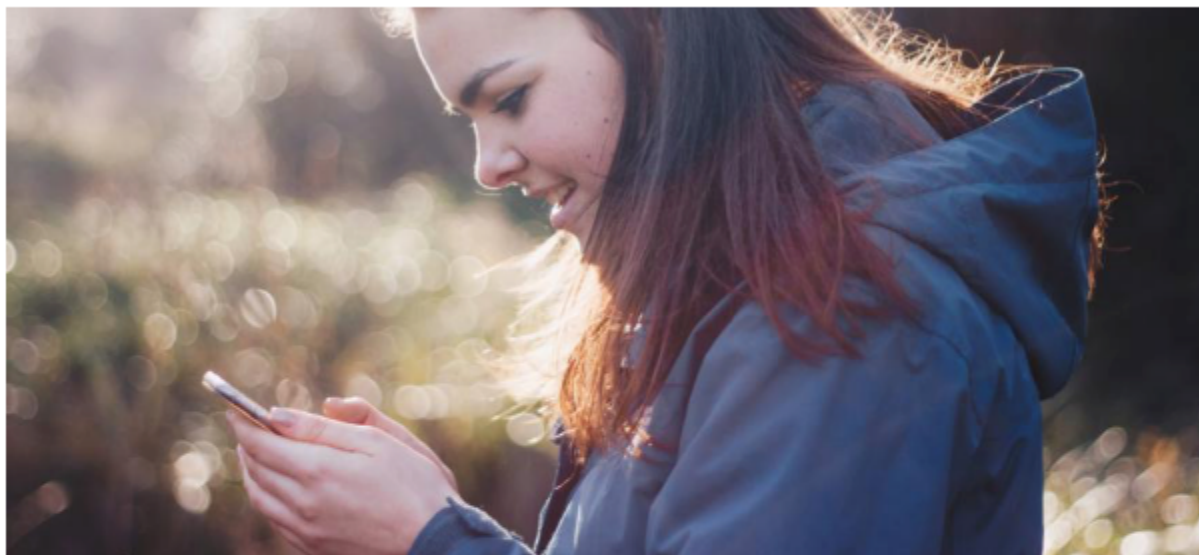
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västerbotten

Discussion and some final words:

- Healthcare and care through distance spanning solutions - A building block for a sustainable Nordic region 2021-2024
    - The future is a seamless healthcare and social care system, working with model areas

- All webinars are available at www.healthcareatdistance.com.

- Please stay healthy!

Thank you!