

eHealth and Well-being in the Finnish Archipelago

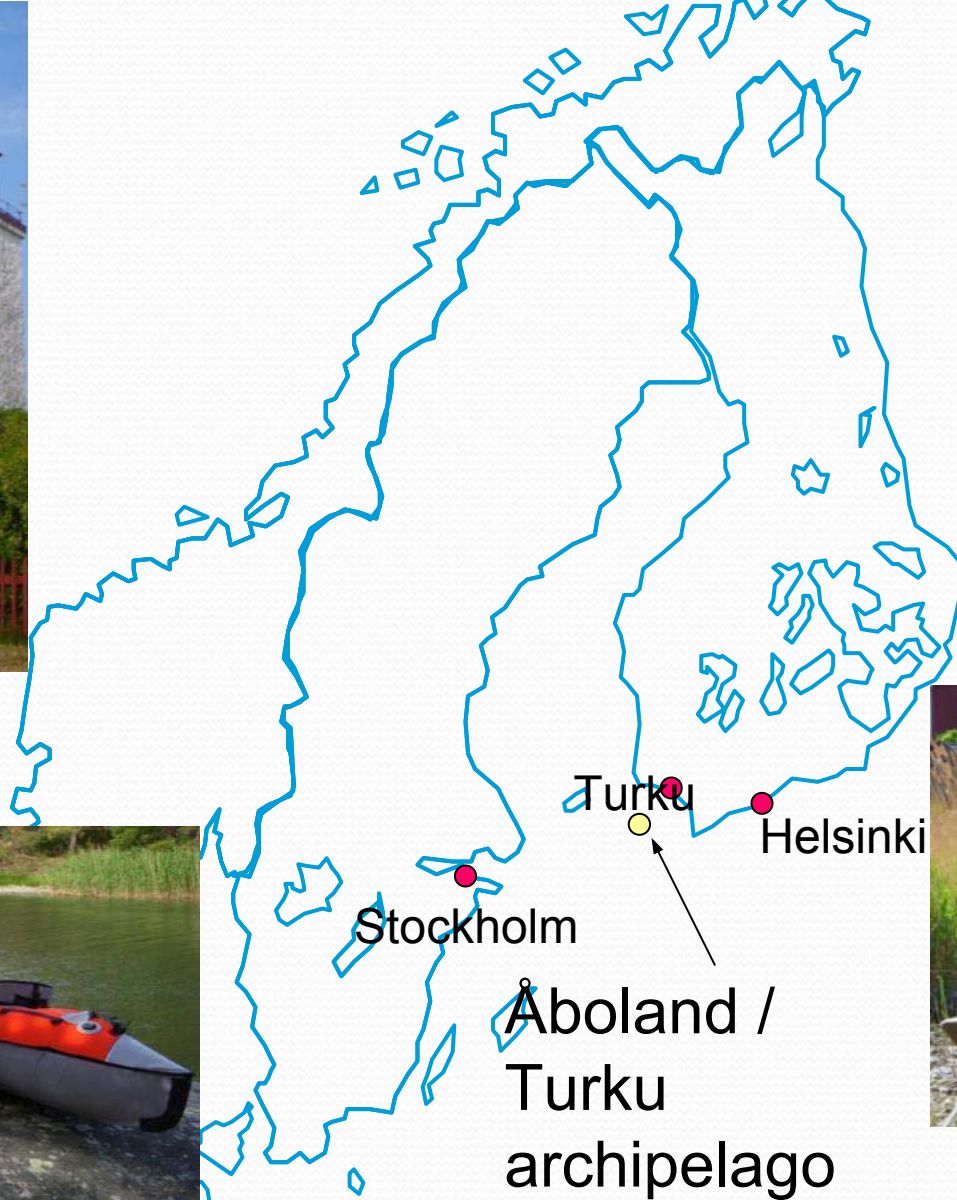
Athens 21.10.2008



Mikael Grannas & Kaj Söderman
Archipelago Networks LTD - - Region Åboland r.f.

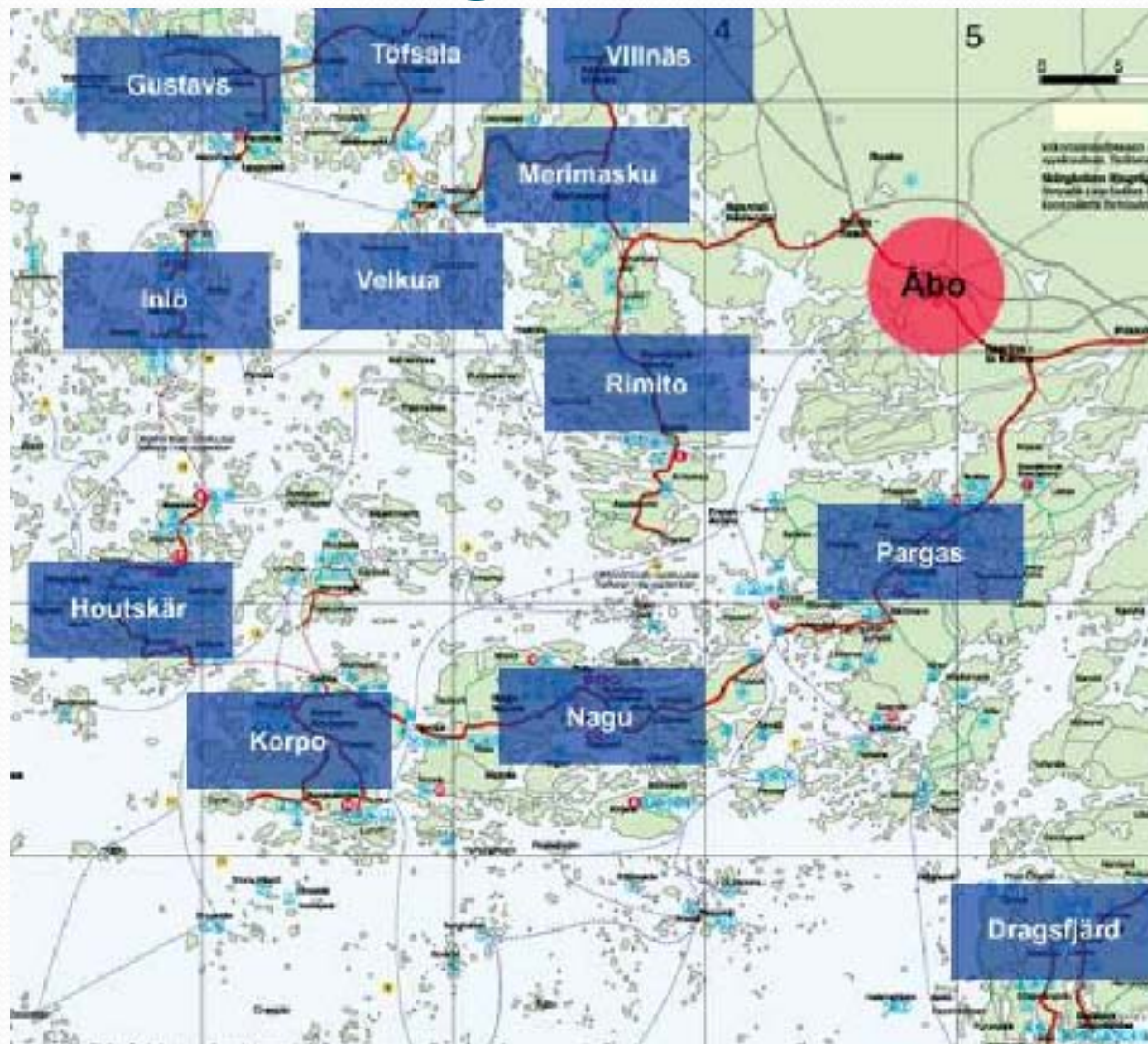


Where we are



Facts and figures

- 8 municipalities
- 24.000 inhabitants
- 15.000 islands and skerries
- 10.000 km shoreline
- 10.000 summer cottages
- 40 ferries
- Bilingual, swedish majority
- 100% wireless broadband coverage
- www.finlandarchipelago.org



The association Region Åboland

- Regional development center
- Members: 8 municipalities in the region
- Supports the municipalities
- Lobbies in issues of regional importance



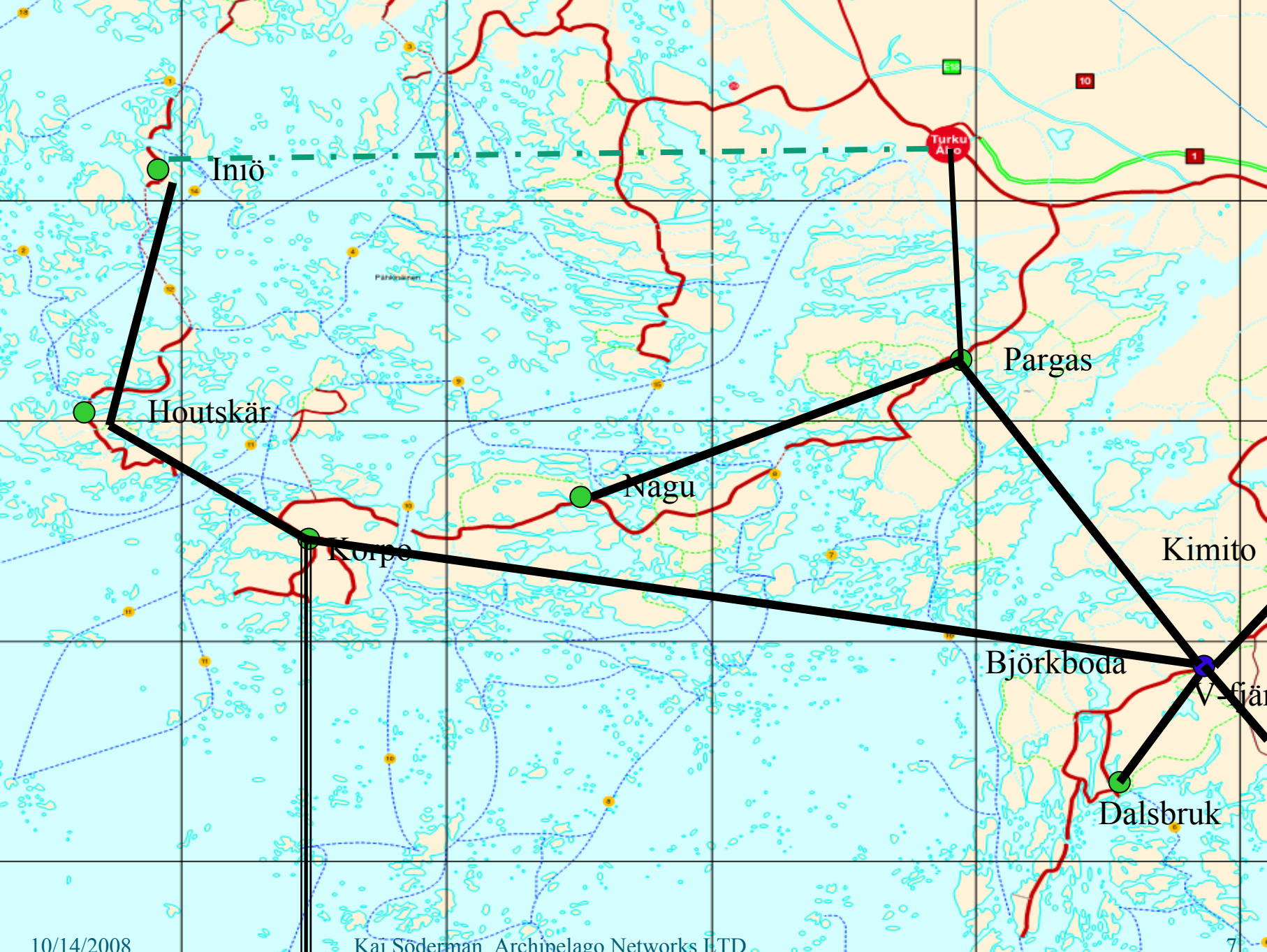
Archipelago Networks LTD

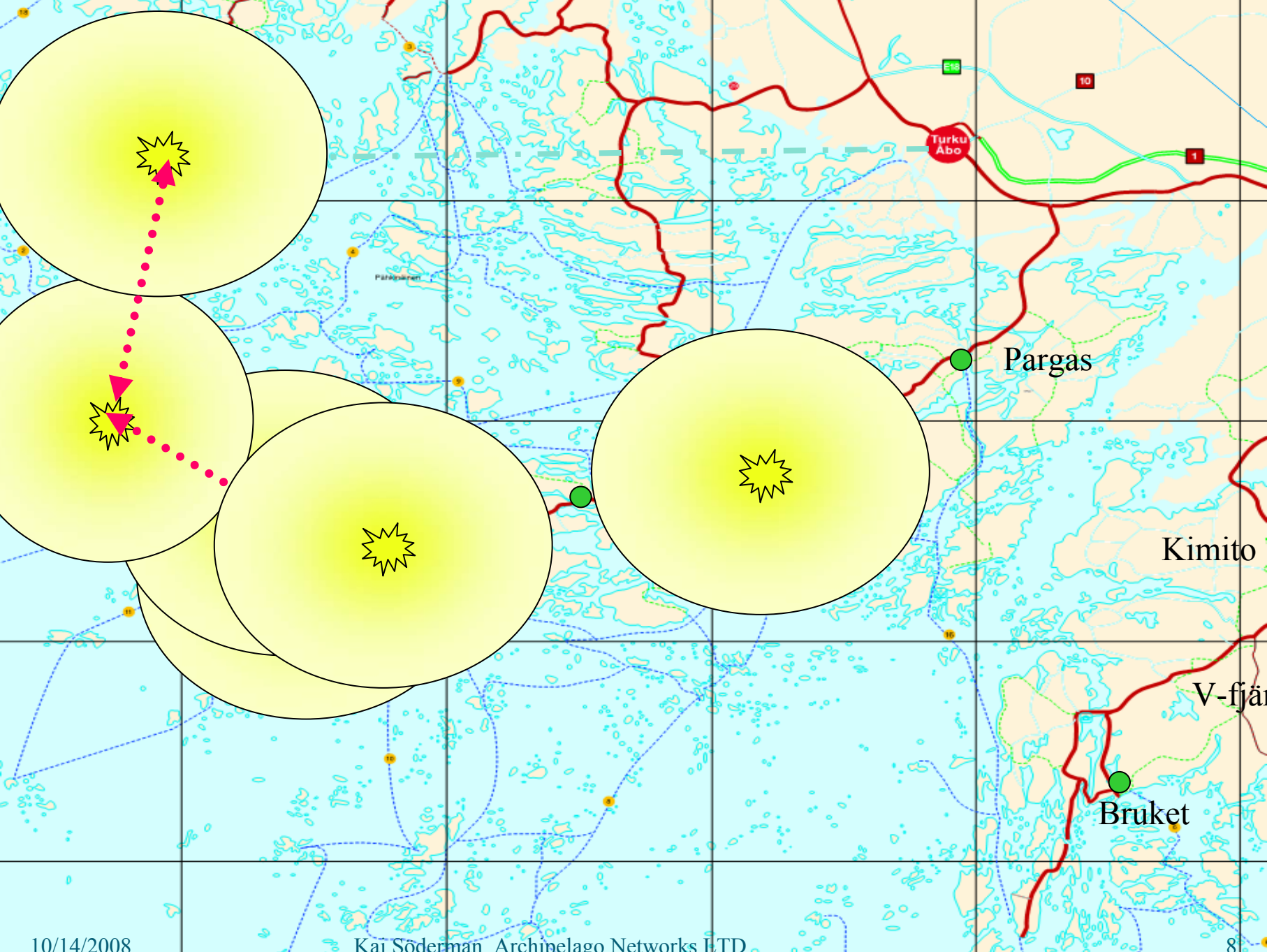
- Fully owned by Region Åboland and the municipalities
- Builds and maintains the core network
- Network operator
- Develops and tests new services



Archipelago Networks LTD

- WiMAX, xDSL, WLAN, FTH, @450
- First commercial WiMAX-operator in Finland
- VoIP and IpTV services
- MobiRoad (wireless broadband available on ferryqueues and passes)
- Member of ENoLL in C@R-project.
 - MDS – MobileDirectSales
 - eDT – eDemocracyToolbox
- The company provides broadband network access in rural areas to local inhabitants, tourists and local businesses where there is no existing commercial provider







InnoELLI Senior

Video telephone for alone living elderly people in Turku Archipelago

Innovative actions programme
funded by European Regional Development Fund ERDF
Implemented in the regions of South Karelia,
East Uusimaa, Kanta Häme, Kymeenlaakso,
Päijät Häme, Uusimaa and Southwest Finland

ArchipelagoELLI

- This project aimed to give senior citizens in rural areas, possibility to live at home as long as possible with interactive contact-tool.
- The tool was a videophone with high-resolution display and good audio. It functioned through Internet, and required at least DSL-connection at the customers (senior) premises.
- These phones were connected to a regional network containing 21-similar phones placed out to seniors, Health centers (responsible district or community health nurse, doctors) and relatives.

EXPECTED RESULTS OF THE USE OF VIDEOPHONE

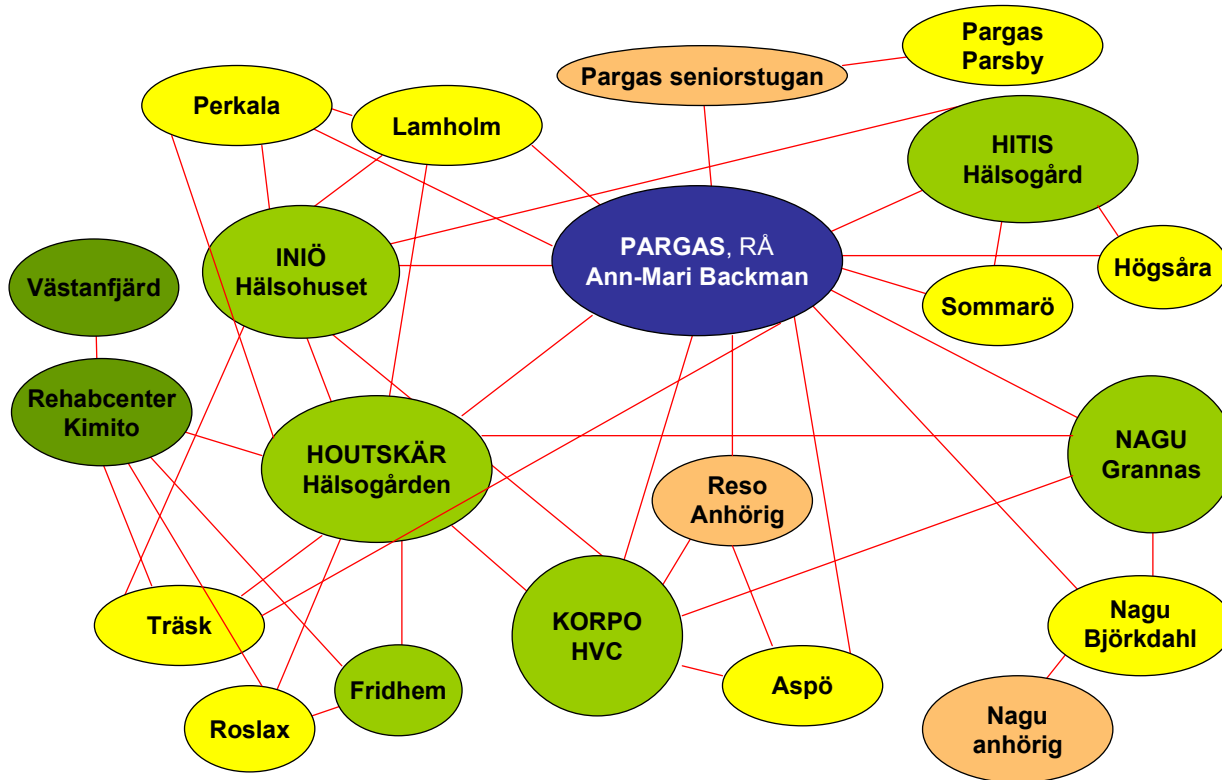
- Intergration of work, methods, technology, services.
- Increased feeling of safety
- Fast contact to healthstaff when in need of help
- Prevent social isolation
- Optimize costs effectiveness and influence

ArchipelagoELLI

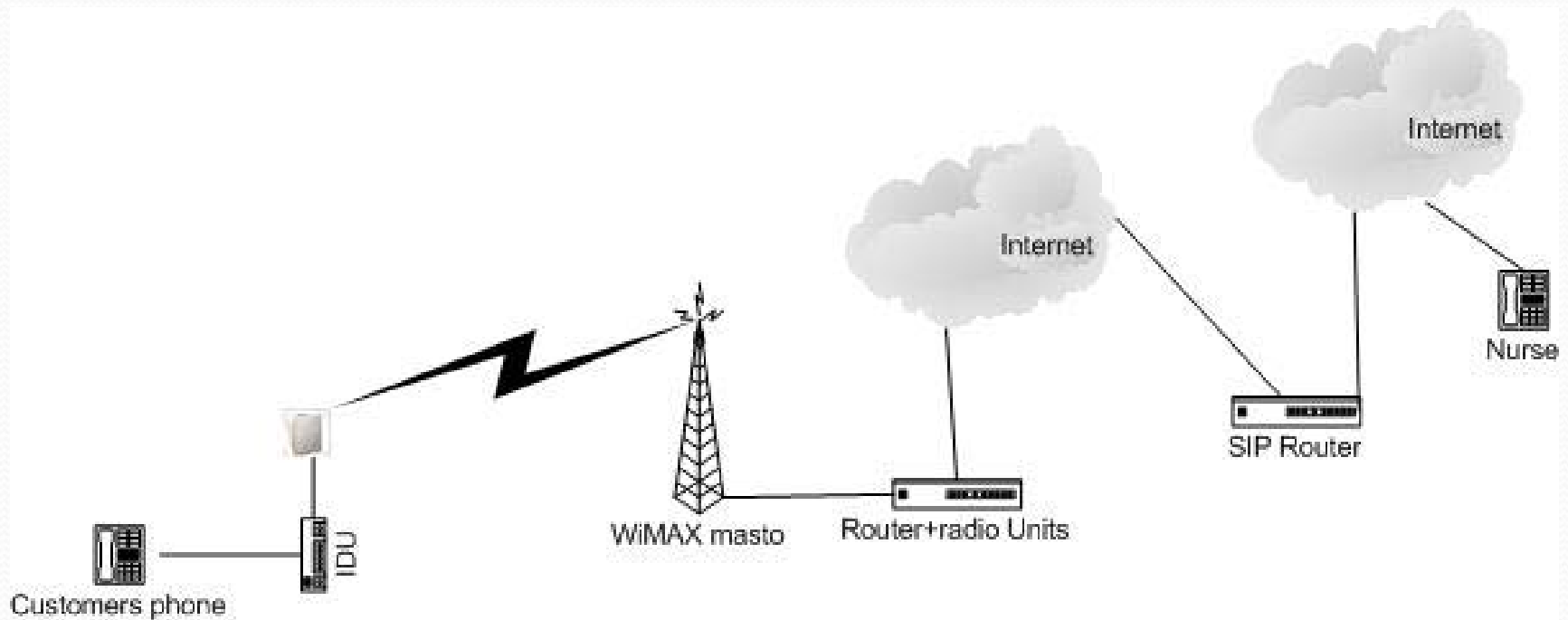
- Seniors who could participate in this project were chosen by their responsible nurses and project coordinator.
 - Criteria's for participation was:
 - Senior-citizen
 - Living at rural area
 - Depending of daily or weekly contact with healthcare and/or relatives
 - Part of the contact need could possibly be done by phone and visual contact.
 - No nearby contacts with relatives
 - Broadband possibility
- Project Manager where Ann-Mari Backman

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Bildtelefon i Åboland
skiss över kontakter/nätverk



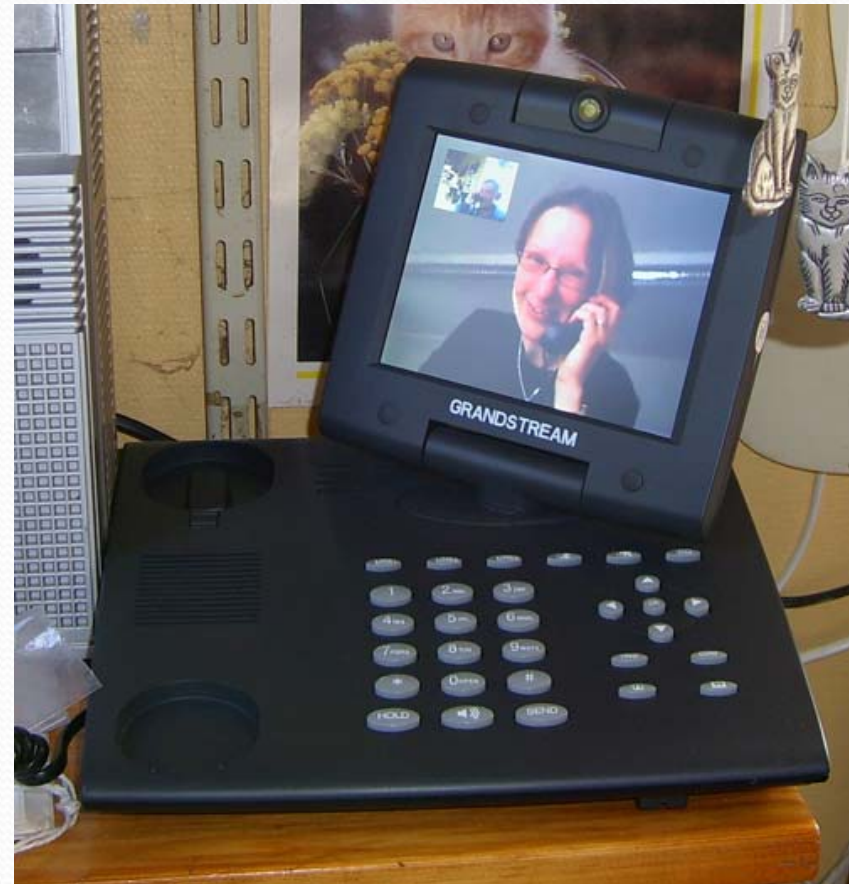
ArchipelagoELLI

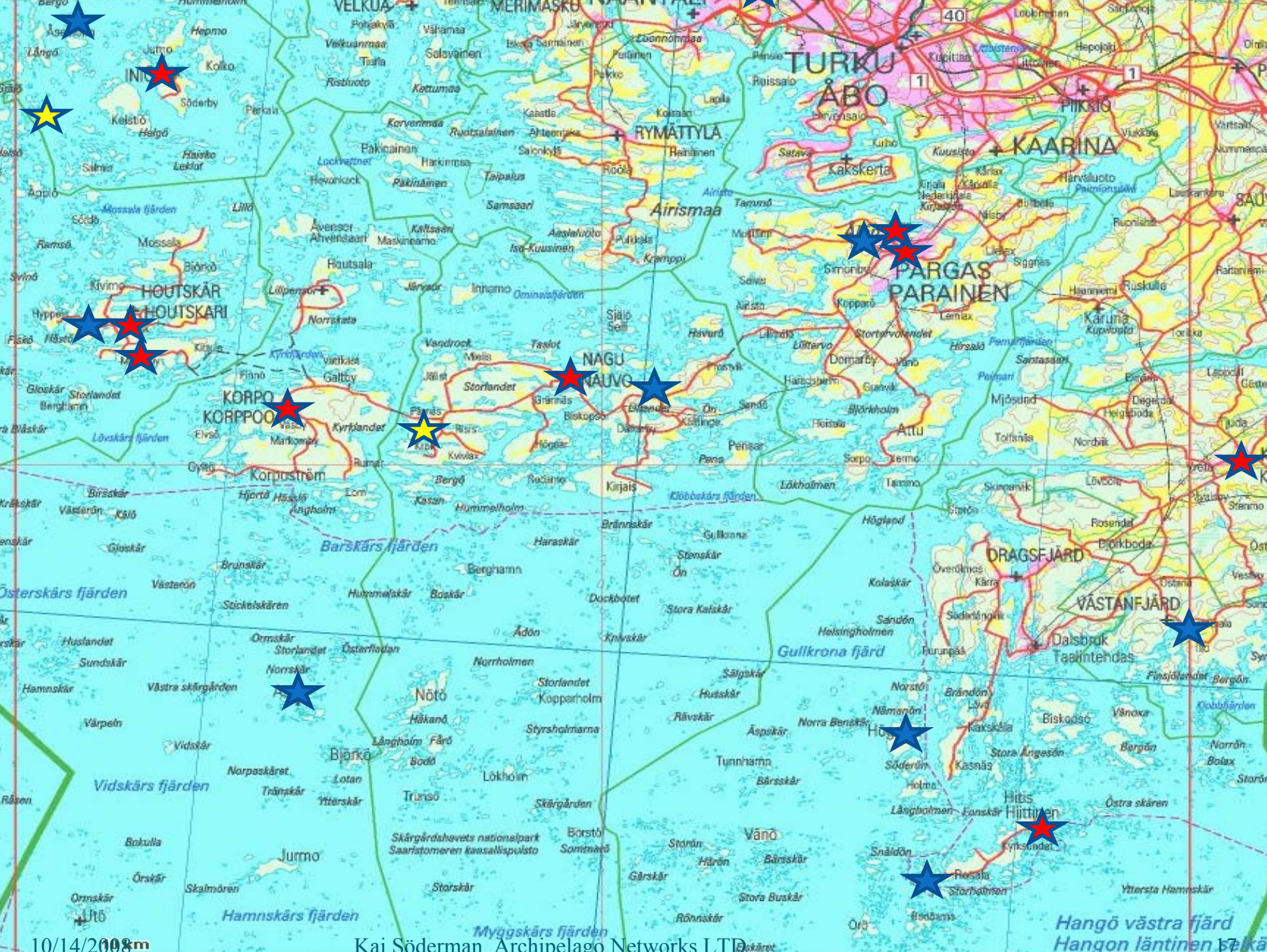


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- The phone is very easy to use, just 3 numbers to remember.
- Installation takes approximately 30 – 45min, and 30 minutes (including test call) to train the customer to use it.

ArchipelagoELLI





RESULTS FROM SURVEY

- There has been an inquiry about usage of the phone after some months of the installation.
- In the average evaluation were 16 persons interviewed about their experiences of the use of the video telephone. The evaluation was implemented as telephone interview.
- Of the answerers were eight person's customers, five persons employee within social - and the health care sector and 3 people's relatives to the customers.

Results and Conclusions

- The phone was easy to use, even for seniors with minor dementia. All seniors where 80+
- Video, eye-contact with the patient was more of use to the nursing personell than the patients
 - Savings trough less unnecessary trips, by diagnose trough the phone.
 - Good image quality an advantage in tending diabetes by reading the readings from the diabetes pen.
- Broadband technolgy (wireless connections) caused some extra obstacles
 - Thunderstorms and other weather phenomenons caused disturbances in electric distributions and in signal quality.
 - Too many devices for most of the 80+ persons to handle.
- The municipalities redeemed the phones for use in elderlycare
- The expectation for the project were fullfilled

Business?

- One stakeholder in the project was a private company, Rehab-center in Kimito, who had clients in Houtskär and Västansjön. Part of the rehabilitation program was done using these phones.
- In real life the distance between these customers were about:
 - 195 km road
 - 3 ferries
 - 1 boat
 - Travel time= 4,5 hours, one way

Continuing Business?

- As this model saved a lot of driving and time they could take more, outsourced rehabilitation and basic nursing cases from the municipalities .
- That would effective their business with more patients and more precise visits.
- The municipality gets more patients taken care of, with less money spendend.



Thank You!

Mikael Grannas

Kaj Söderman