



# *Baltic* **eHealth**

## **Ultrasound pilot**

Fetal Medicine, Umeå University Hospital



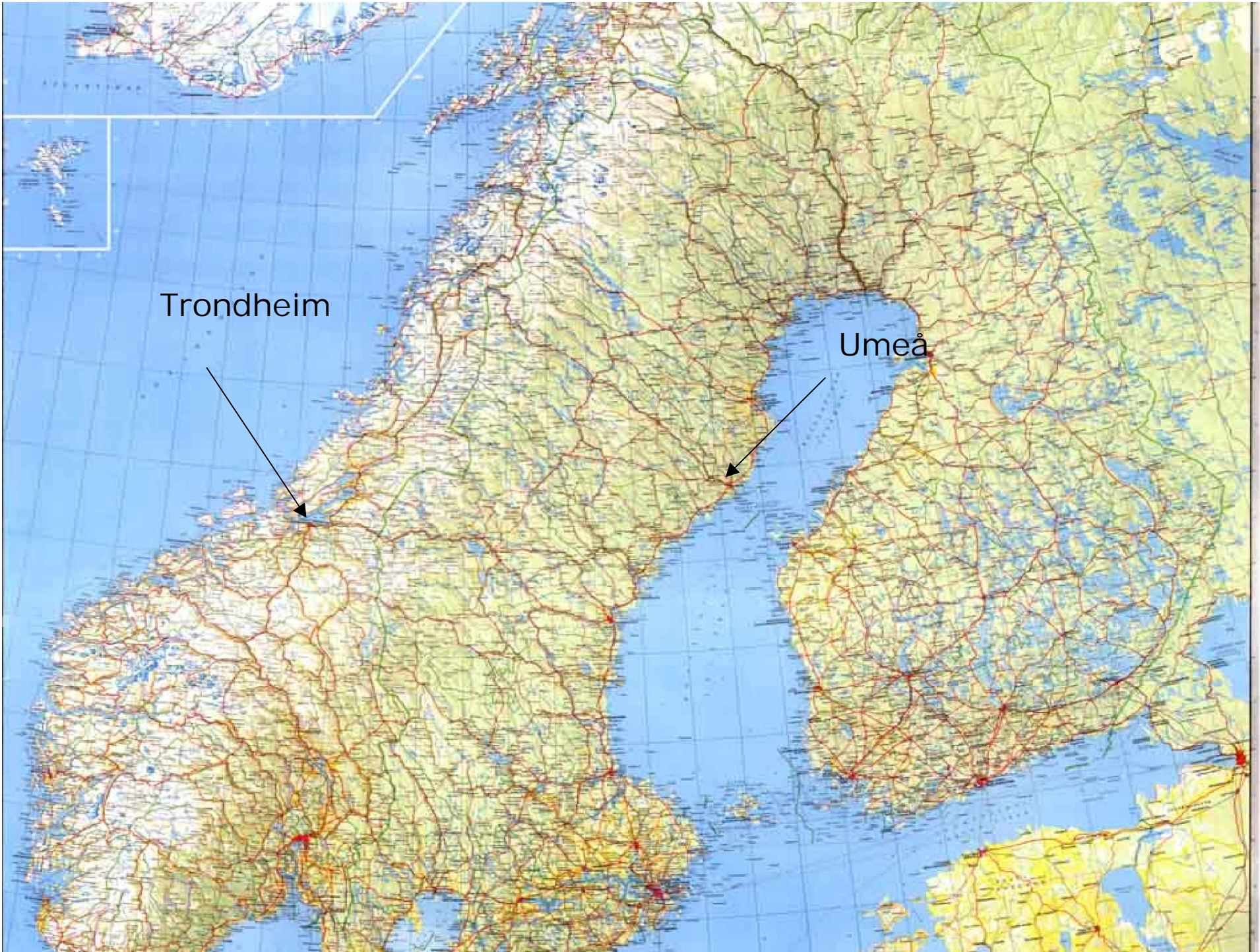
# Participating clinics

- n Fetal Medicine Centre /  
Umeå, Västerbotten
- n NSFM / Trondheim



Fetal Medicine, Umeå University Hospital





Trondheim

Umeå



## **Ultrasound pilot**

**Fetal Medicine Centre, Umeå  
Is a combined centre for Ultrasound and Special maternal treatment.**

**FMC is carrying out about 4500 to 5000 ultrasound examinations a year.**

**FMC has the commitment to examine routine ultrasound on pregnant Women in the county of Umeå.**

**FMC also has the second opinion responsibility for the rest of the Northern part off Sweden.**



**Ultrasound pilot**

**NSFM, National Senter för FosterMedicine (National Centre For Fetal Medicine), Trondheim.**

**Centre for the whole Norway.**

**A heavy scientific approach**



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**Ultrasound pilot**

**Population base in the northern part of Sweden for FMC**

**The municipality of Umeå, 111 000 inhabitants.**

**The northern part of Sweden about 800 000 inhabitants.**



Fetal Medicine, Umeå University Hospital



## Ultrasound pilot

### The aim:

To improve the clinical work of Fetal Medicine (Obstetrics and Gynecology) in geographical extensive areas by

*- demonstrating the possibility to exchange ultrasound images*

*between Umeå, Västerbotten and NSFM, Trondheim*

*and*

*- to show that technical solution for this exchange is easily achievable.*



## Ultrasound pilot

### What has happened since the first meeting in Svendborg?

Close correspondence and cooperation between Umeå and Trondheim the first meeting Svendborg.

Umeå did compose a draft to “specification of eUltrasound” aimed for the discussion with NSFM and KITH in Trondheim.



## **Technical solutions**

**In Trondheim, the first meeting, the main discussion was concerning technical solutions as “how do we get the images to NSFM in a safe way”?**

**# E-mail?**

**# Web-portal?**

**# Synchronous video-conferencing?**

**# Mini-PACS?**



## Ultrasound pilot

Barriers to figure out and to solve.

### **Language**

Is not a problem because of the similarity between the two languages, Norwegian and Swedish.

### **Legislation**

Also a similarity between the two countries.  
The “Case” that will be judged as a second opinion judgement is still owned by the doctor at FMC in Umeå.

### **Personal secrecy for the patient**

All images or video clips that are discussed must be encoded.



## Ultrasound pilot

### Clinical workflow

The clinical co-operation with second opinion examination at NSFM of obstetrical ultrasound can be carried out different ways.

Images send to a safe internet collaboration portal.

Synchronous real-time examination between the collaborators by conventional videoconferencing.

Video streaming and audio via conventional telephone.



**Ultrasound pilot**

## Request for second opinion help.

The request from Fetal Medicine Centre/ Umeå to

NSFM / Trondheim will be through:

E-mailing or Telephone call to secretary or midwife responsible for contact.



*Fetal Medicine, Umeå University Hospital*



## Ultrasound pilot

### The reply

**Images or clips sent to Trondheim via a web portal, will be answered by written text in, the same portal, in a few days.**

**The communication will be through telephone in the cases when synchronous obstetrical ultrasound examination will be carried out by video streaming technology.**

**If video-conferencing is the chosen way of communication, that technology takes care of it all.**



## Ultrasound pilot

What's happening today in the ultrasound pilot?

Until today we has carried out about 15 second opinion cases, sharp or for testing, with decent results.

We can conclude that the most difficult task to solve is of technical description, with band wide on the Baltic Health Net (BHN), concerning parts of the technical solutions that are used in this pilot.

We are now righting on a contract between FMC and NSFm for further cooperation between the two clinics.

