



The Hospital District of Helsinki and Uusimaa & eHealth platform

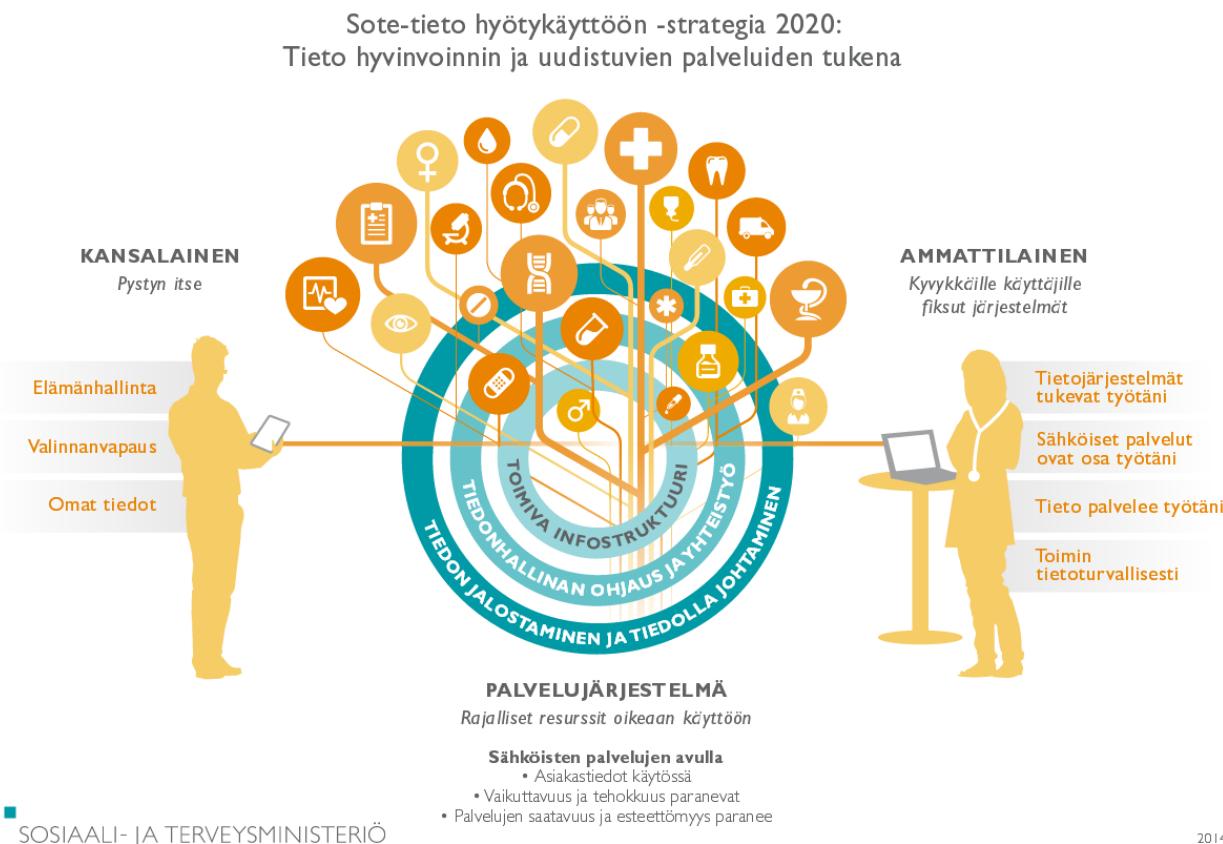
Tomasz Andrzejewski
Technical Program Manager IT Operations | Project Office



Finland Social and Healthcare information: Vision and Strategy

Finland Social and Healthcare information into use 2020 - strategy

- The eArchive is part of national strategy to enhance utilization of health information in social and healthcare sectors by 2020



Organizations behind national eArchive



- Research and development institute under the Finnish Ministry of Social Affairs and Health
- **Functional specification**



- Government owned social security institution
- **Responsible for implementation**

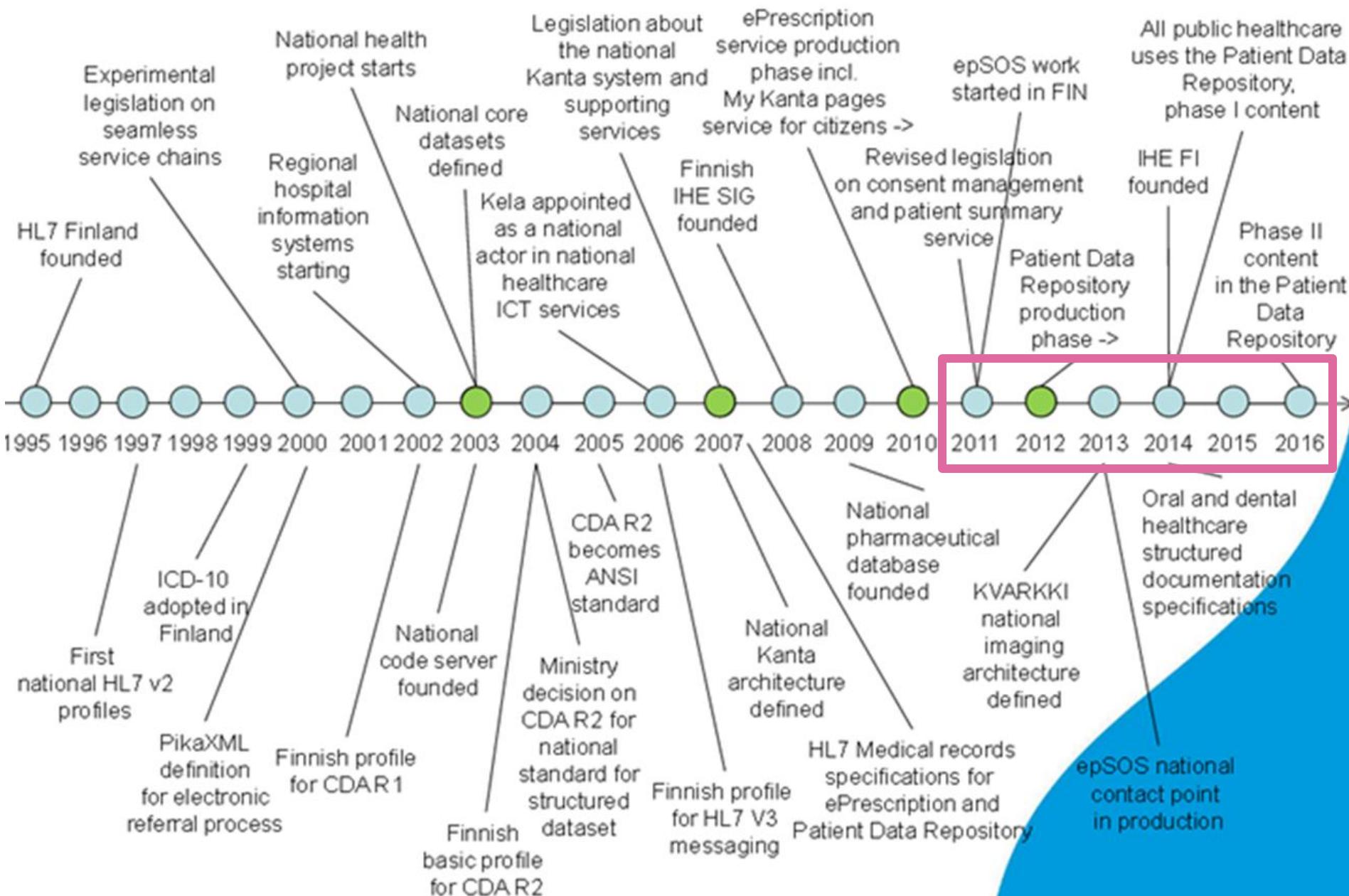


- **The national repository**
- Electronic prescription, Patient data management service, Pharmaceutical Database, **Imaging Data**



Timeline of Finnish eHealth: work done so far

Timeline of Finnish eHealth

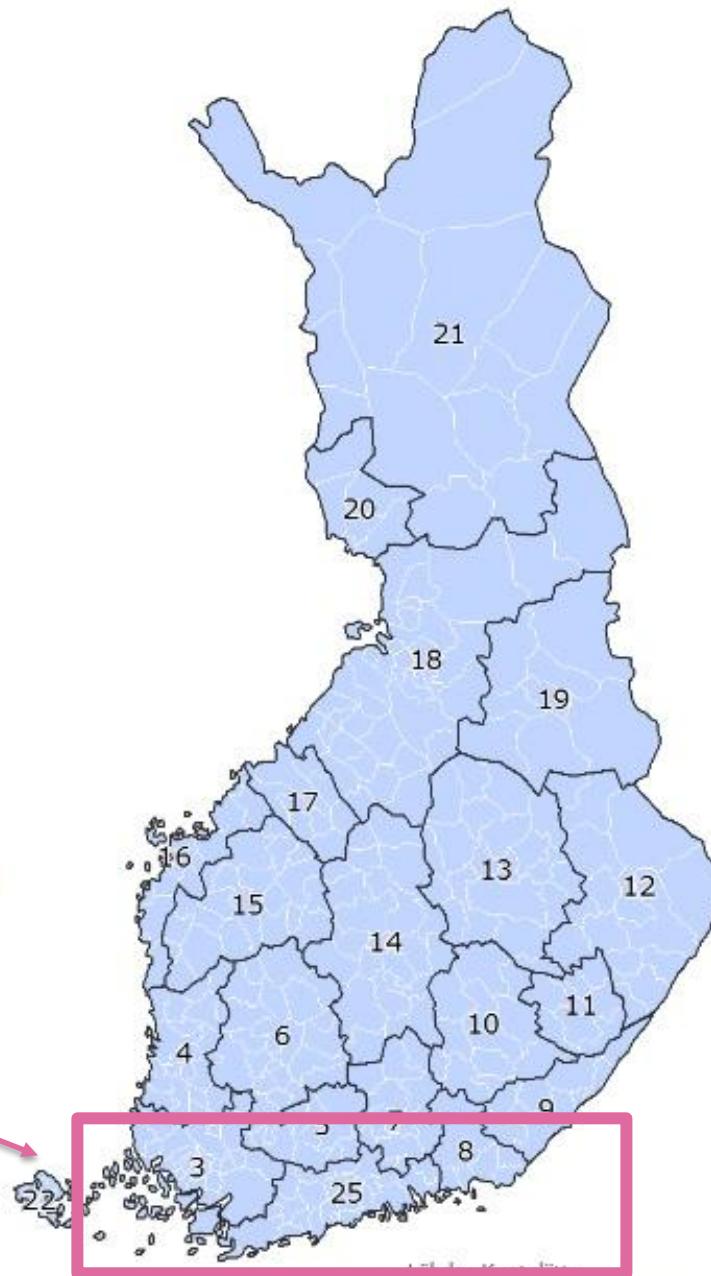




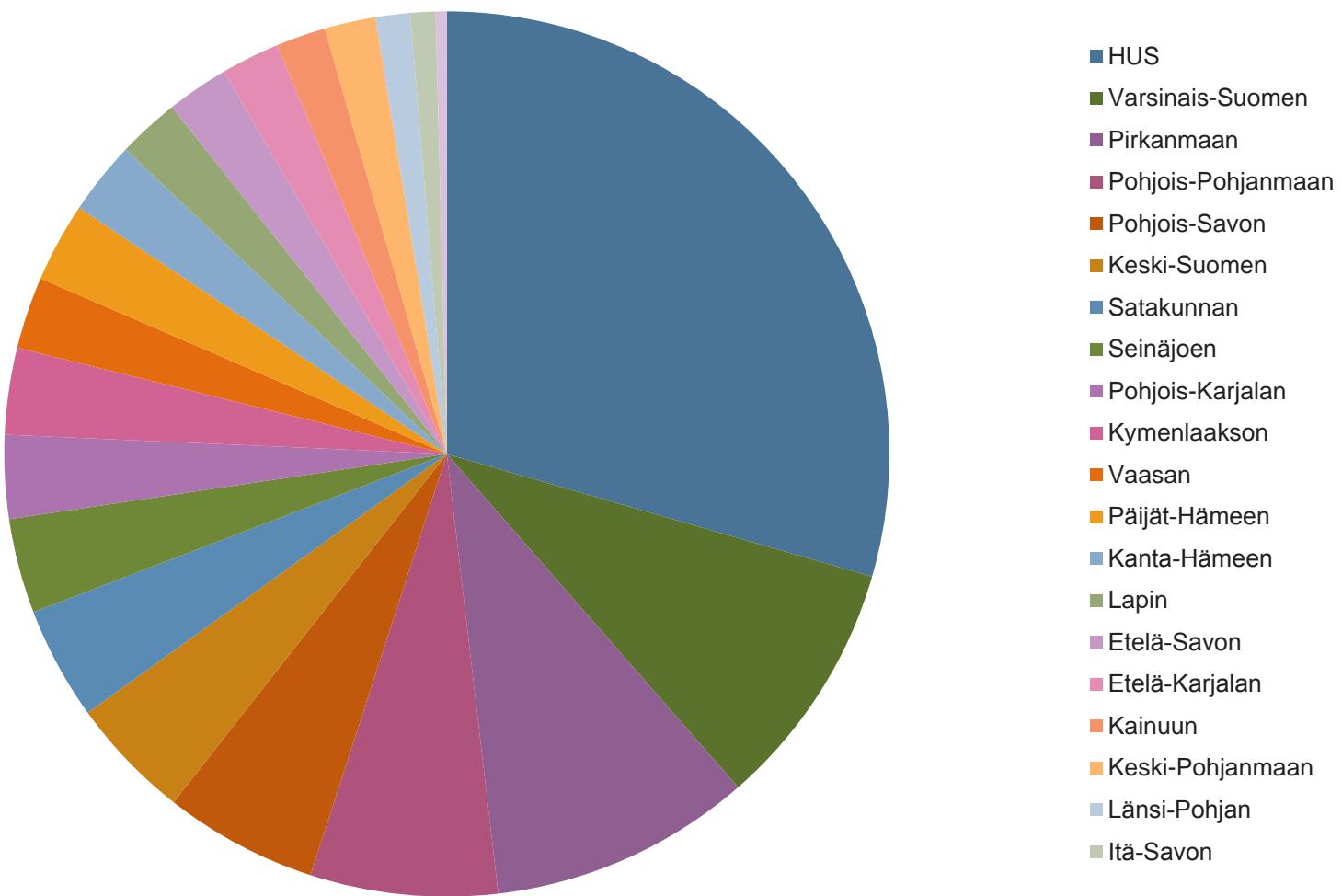
The Hospital District of Helsinki and Uusimaa

The Hospital District of Helsinki and Uusimaa

- 3 Varsinais-Suomen shp
- 4 Satakunnan shp
- 5 Kanta-Hämeen shp
- 6 Pirkanmaan shp
- 7 Päijät-Hämeen shp
- 8 Kymenlaakson shp
- 9 Etelä-Karjalan shp
- 10 Etelä-Savon shp
- 11 Itä-Savon shp
- 12 Pohjois-Karjalan shp
- 13 Pohjois-Savon shp
- 14 Keski-Suomen shp
- 15 Etelä-Pohjanmaan shp
- 16 Vaasan shp
- 17 Keski-Pohjanmaan shp
- 18 Pohjois-Pohjanmaan shp
- 19 Kainuun shp
- 20 Länsi-Pohjan shp
- 21 Lanin shp
- 25 HUS**

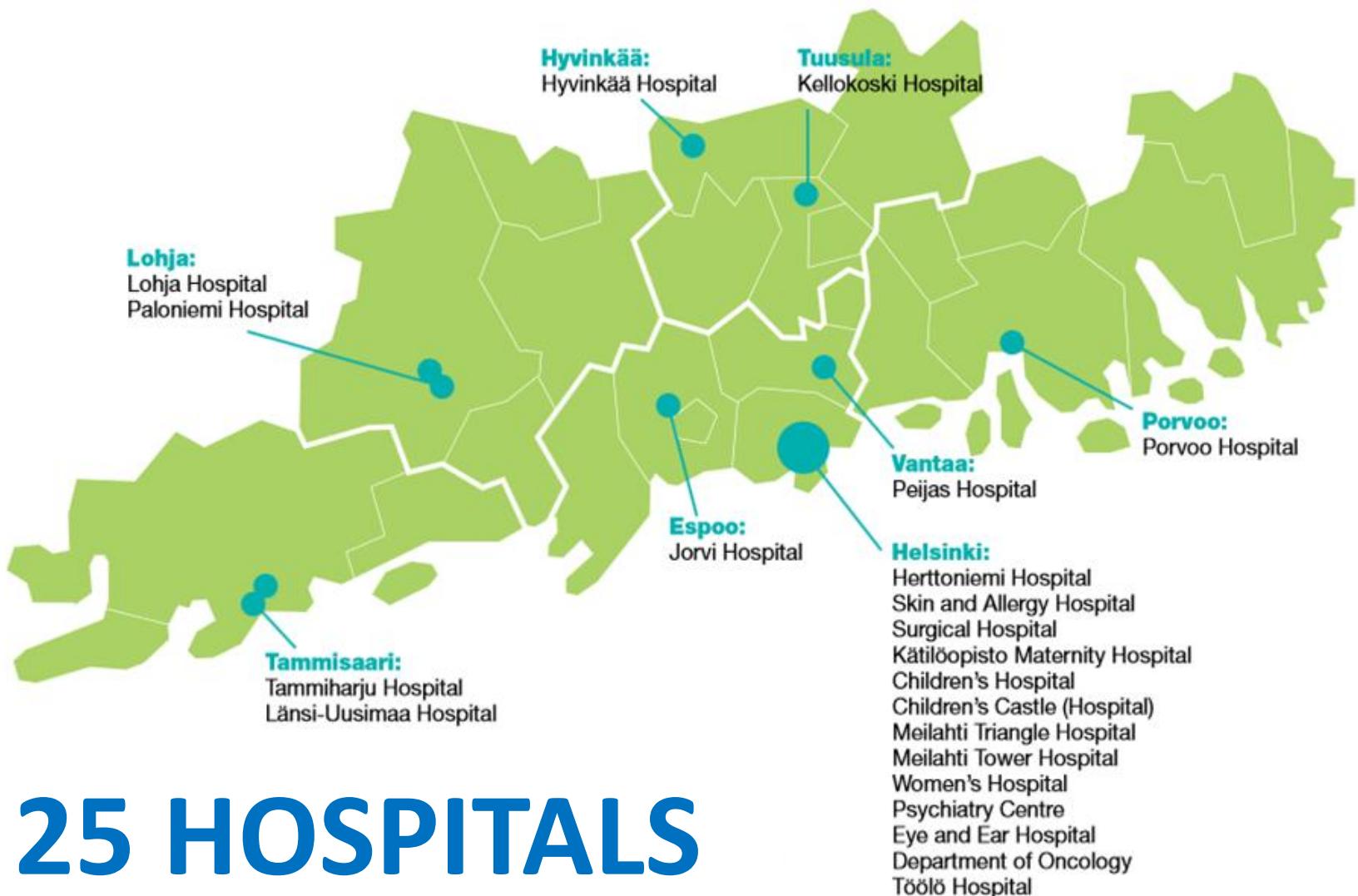


The Hospital District of Helsinki and Uusimaa



Finland yearly production:
4,5m studies (incl ultra)

The Hospital District of Helsinki and Uusimaa



25 HOSPITALS



6 YEARS OF TRANFORMATION

Year 2011 – 2017 ...

Modern regional platform go-live with records from year 2002

1,4 mil studies / y

~14 mil studies
in VNA archive

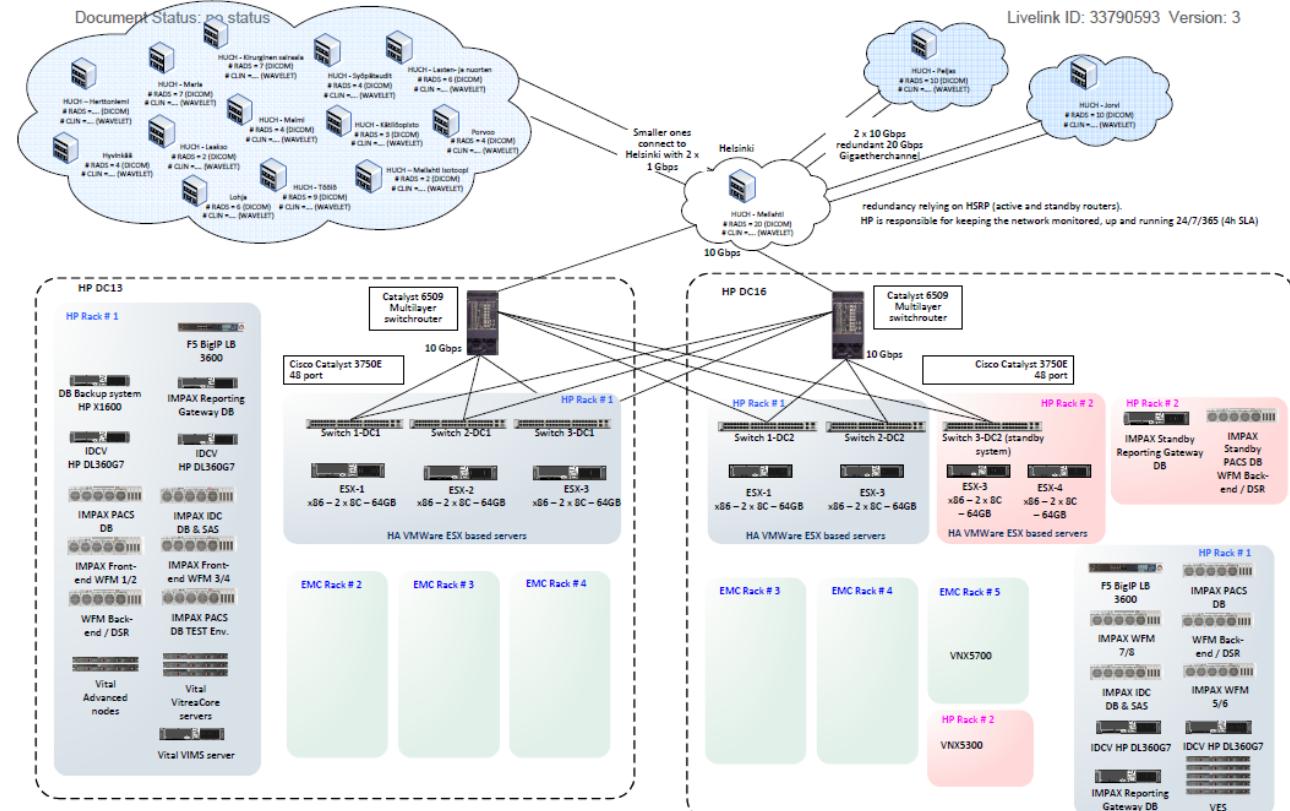
15 000 / 4 800
clinicians

495 / 244
Radiologists using
speech recognition

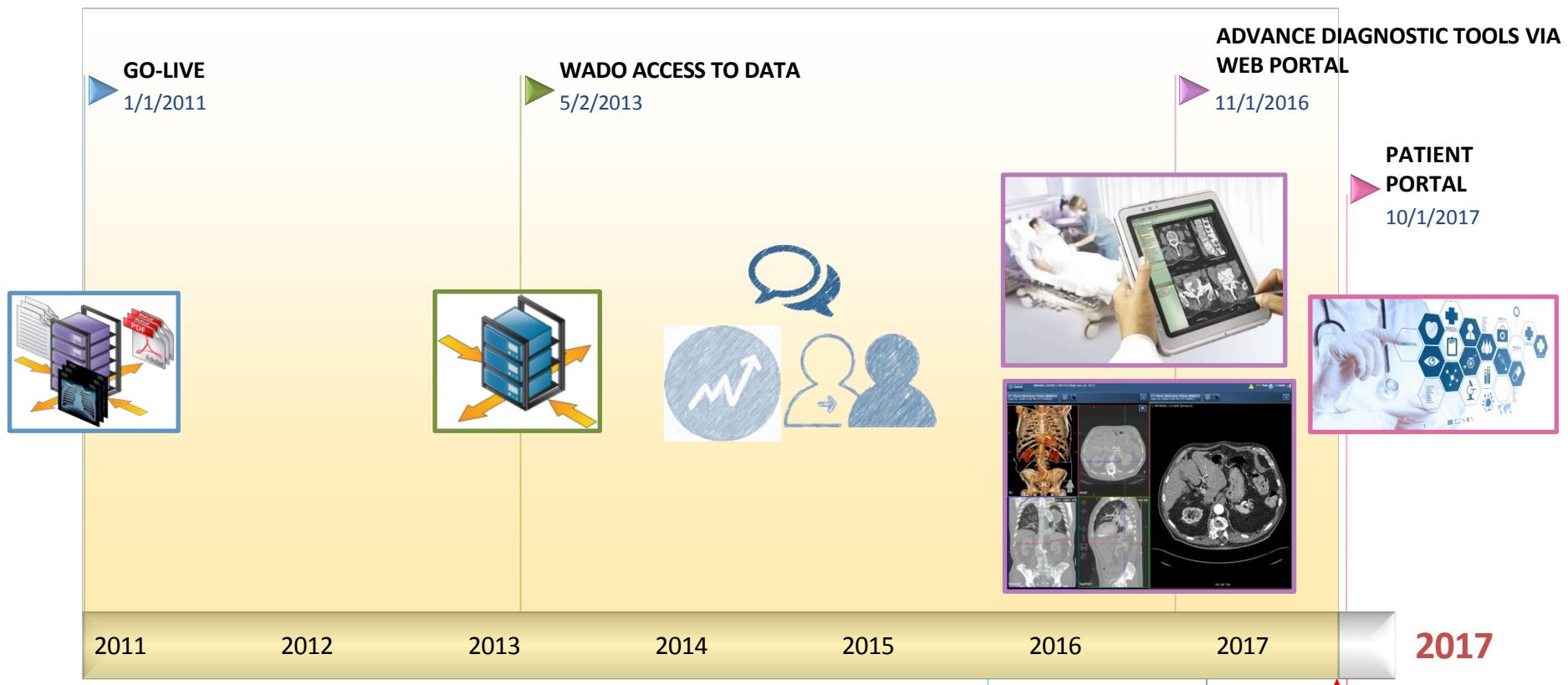
310 TB of data

~500 Modalities

5000 studies per day,
70 000 img/hour



MOBILE ACCESS TO IMAGES



Today

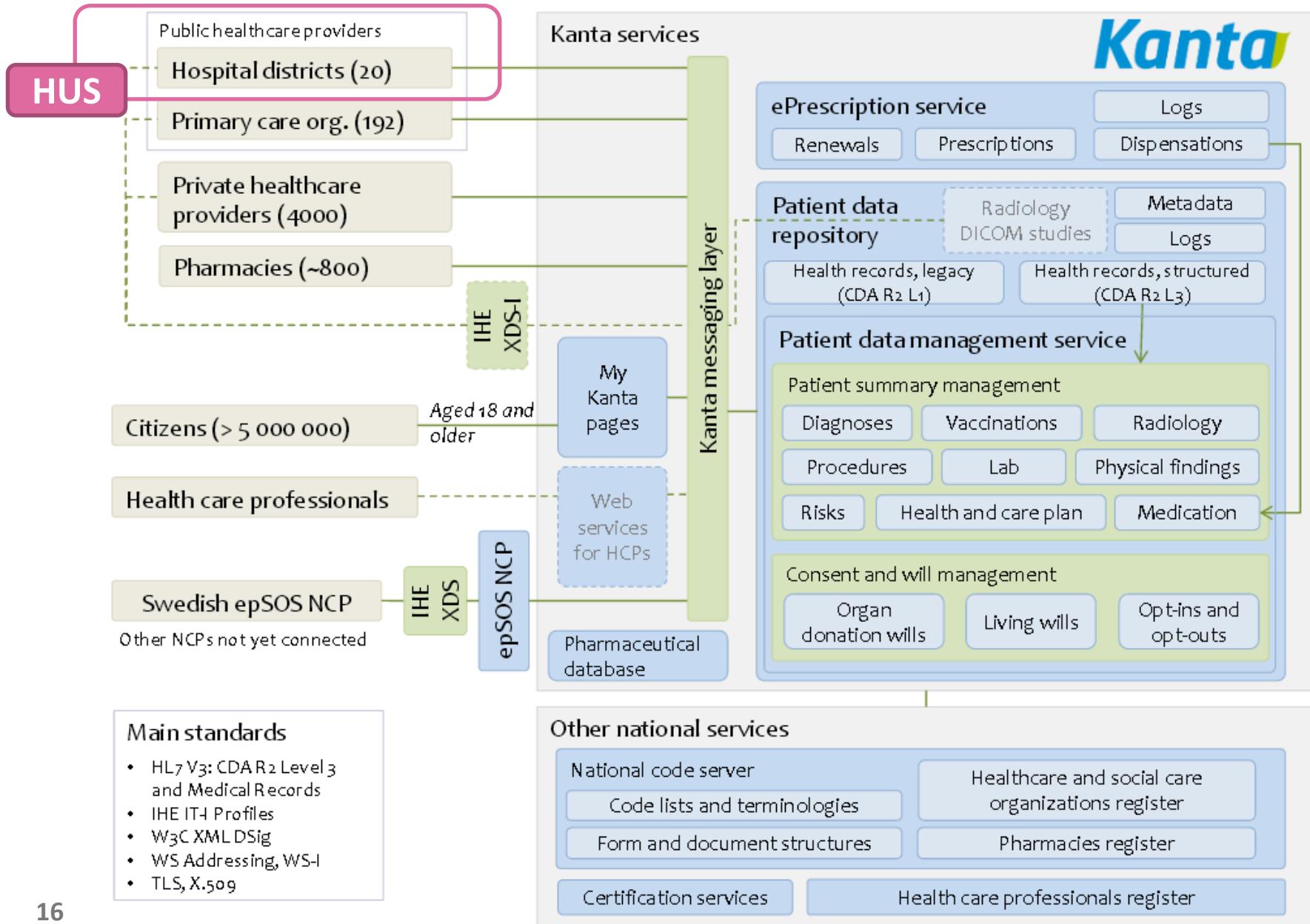


10/2/2017



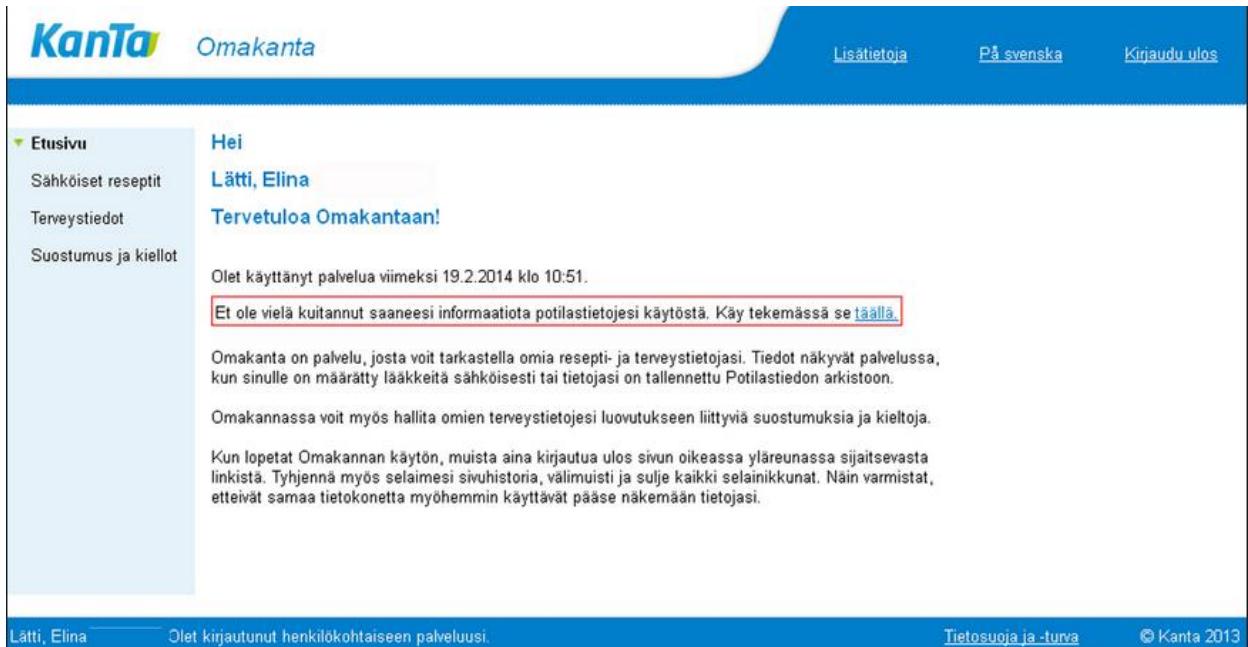
HUS & INTEGRATION WITH NATIONAL ARCHIVE

KANTA Architecture



My Kanta pages

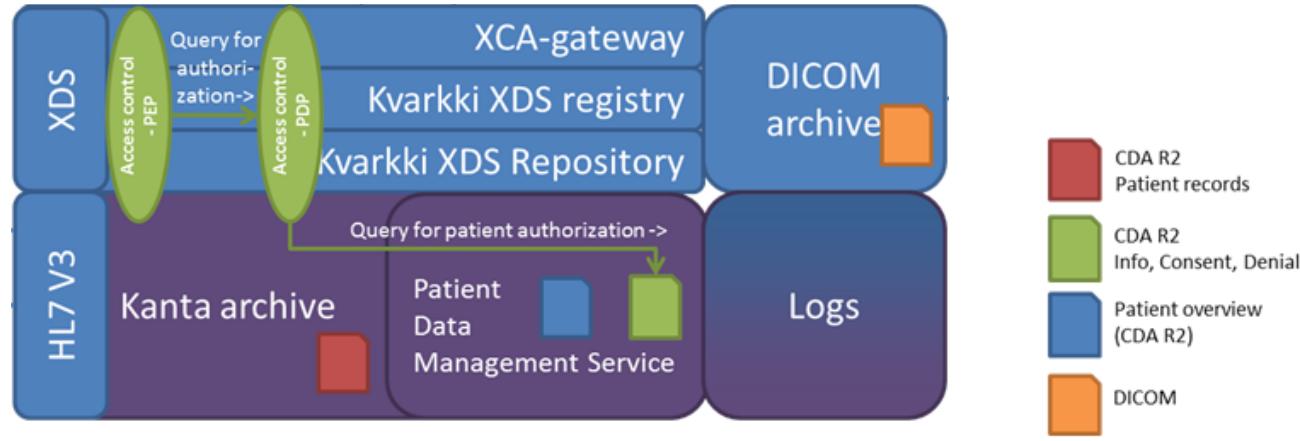
- Through My Kanta pages, a patient can
 - View
 - Give consent to the disclosure
 - Prohibit disclosure
 - Monitor the disclosure
- The healthcare service provider will
 - Use health data
 - Store information



The screenshot shows the Omakanta patient portal interface. At the top, there's a blue header bar with the Kanta logo, the text "Omakanta", and links for "Lisätietoja", "På svenska", and "Kirjaudu ulos". The main content area has a light gray background. On the left, a sidebar menu is open, showing "Etusivu" (selected), "Sähköiset reseptit", "Terveystiedot", and "Suostumus ja kielot". The main content area displays a greeting "Hei Lätti, Elina" and a message "Tervetuloa Omakantaan!". It includes a timestamp "Olet käyttänyt palvelua viimeksi 19.2.2014 klo 10:51." and a red-bordered notice "Et ole vielä kuitannut saaneesi informaatiota potilastietojesi käytöstä. Käy tekemässä se [täällä](#)." Below this, there are two paragraphs of text about the service and its terms of use.

Lätti, Elina Olet kirjautunut henkilökohtaiseen palveluusi. Tietosuoja ja -turva © Kanta 2013

Centralized eHealth architecture



Key Facts



- **Step 1)** Audit via certified by government audit companies
 - Certification class A
 - Certification class B
- **Step 2)** Conformity assessment via use cases
 - Provider to Kvarkki:
 - write via DICOM
 - changes via IHE IOCM and via HL7
 - read via IHE XDS-I
 - display via DICOM WADO
 - Cross district testing (IHE XCA)
- **Step 3)** Production go-live



FOUR SUCCESS FACTORS

FOUR SUCCESS FACTORS

• • •



HARD WORK



PROGRAM, NOT PROJECT,
MANAGEMENT



LEARNING ON MISTAKES

(SEEKING FOR
IMPROVEMENT, NOT BLAME)



MATURE GOVERNMENT TEAM,
AUDIT & TESTING PROCES,
INCLUDING DOCUMENTATION

THANK YOU



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