A data-centric approach to healthcare, research and innovation

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Clinicians, patients and researchers make decisions based on data... ...bad data, bad decisions, good data, good decisions

What are we trying to do?

- value is created at point-of-care!



The information systems of healthcare suck

- everyone struggles to manage the information and the ICT-systems are not fit for purpose





We are plagued with good solutions to the wrong problem



* good solution, wrong problem



- Mobile apps
- Analytics
- Al
- Wearables
- Enterprise EHR
- Cloud
- ...

Useless without good data!



EHR strategies

Strategy

Architecture

Monolithic solution

A provider that delivers the platform and the full range of applications. The data storage is usually based on the supplier's own standard

Procurement of platform and certain applications from the same supplier

The same provider of the platform and parts of the application portfolio, but where there is an opportunity to integrate other providers and self-built applications to the open platform



Procurement of platform and applications from various suppliers

A provider of the platform with data storage and other providers of the applications that are integrated into the open platform as well as self-built applications



App App App App App App App Integration

K

What drives the need for a digital transformation at Karolinska?



Hospital at home

- Communication
- Remote patient monitoring
- Diagnostics at home



- Imaging
- Decision support

Precision medicine





R & D

- Secondary use of health data
- Agile development of new solutions



Data architecture – H@H



Clinic/online Appointments

openEHR

...and?

- Patient demographics
- Clinical data
- Imaging data
- Laboratory data
- Pharmacy data
- Billing & financial data
- Appointment and scheduling data
- Operational data



The role of openEHR in H@H



Supporting cancer treatment



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Precision medicine

- clinical decisions based on data collected from many sources





Using openEHR for reporting in digital pathology





The role of openEHR in precision medicine



phenotype data

A lab-VNA, a long-term solution for results management*





Health Data Platform







Everyone wants to be data-driven so what is the problem?





The future of healthcare is built on an *open platform for patient-centred health data*

- because our patients deserve more



