# DEN HEALTHTOOLS

Stefan Ohlsson Healthcare Industry Leader, IBM Nordic stefan.ohlsson@se.ibm.com







#### What is Open Health Tools?

Skip McGaughey - Executive Director





## **VISION OF OPEN HEALTH TOOLS**

#### Vision:

To enable a ubiquitous ecosystem where members of the Health and IT professions can collaborate to build open, standards-based interoperable systems that enable patients and their care providers to have access to vital and reliable medical information at the time and place it is needed.





Ensuring users have increasingly better and affordable access to and use of comprehensive health information whenever and wherever needed to improve the health and well-being of individuals and communities worldwide



# What will the OHT Community do for You?

**Enable a community** of individuals, vendors and organizations to integrate appropriate standards, early adopter implementations, reference applications and the necessary integration tooling to support this community.

- **Enable healthcare information interoperability** by providing a common software tool platform based upon open standards for creating software.
- **Provide a range of exemplary tools** and several reference / exemplary applications to facilitate the use of and illustrate the Open Health Tool Technology.
- Provide software tooling to **enable easy integration** with existing systems and processes.
- Create, nurture and enable suppliers to participate in an ecosystem that allows them to **profit from open standards and open source software.**



# The approach to standards

#### Strategy:

- Adopt recognized industry standards and best practices.
- Maintain close working relationships with identified Standards Development Oranizations (SDO).
- Provide feedback to SDOs via early adopter program and communities to foster creation of useful, usable healthcare standards that address real healthcare requirements.

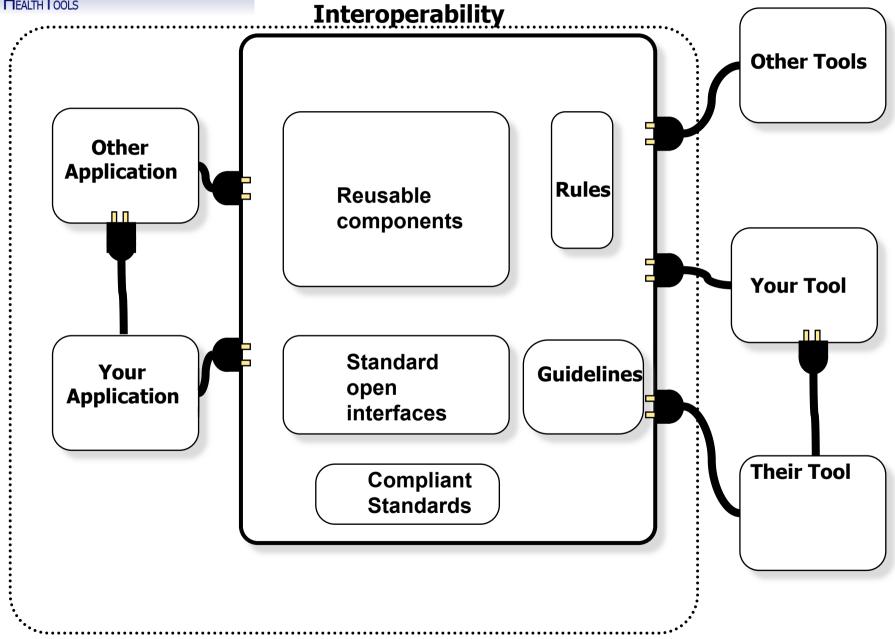
#### SDOs:

- HL7: CCD, Semantics, Documents, Services
- OMG: technical specifications of services
- IHE: pragmatic community for adoption
- IHTSDO (SNOMED): Semantics, terminology definitions for healthcare
- ASTM: CCR / CCD specifications
- ISO/CEN/HL7: EHR requirements and specifications

#### **OHT is NOT a Standards organization.**

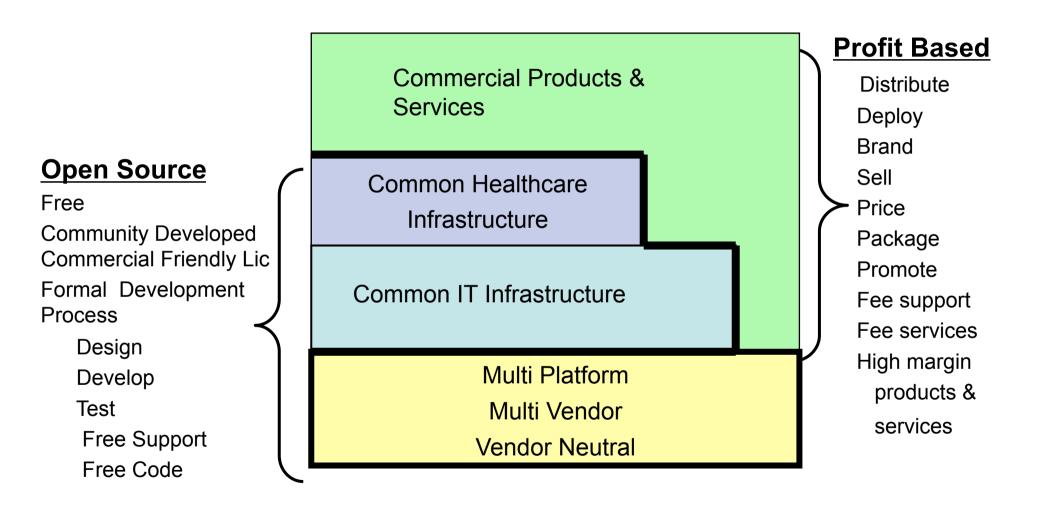
**OHT** implements standards in the development of software.





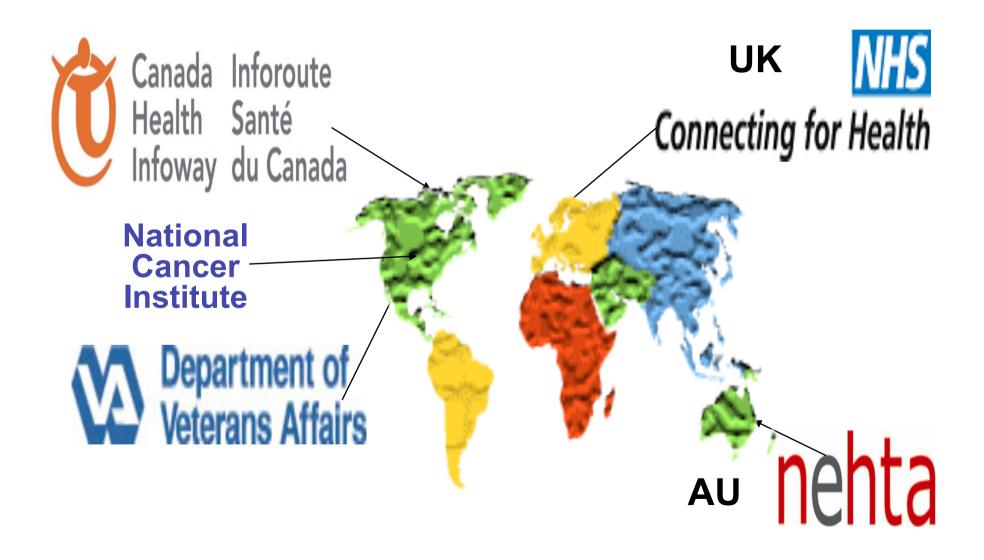


**Hybrid Business Model** 





# Membership of Healthcare providers





### Membership Open Standards Organizations





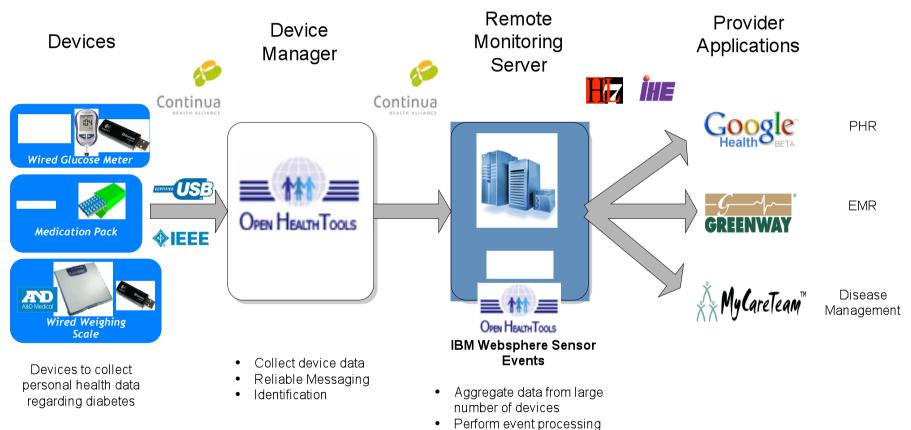
# **Example projects**

IHE Profiles	Implementation of IHE profiles used in health information exchanges
Model Driven Health Tools (MDHT)	UML platform with healthcare standards. Produce tools for developers, e.g. HL7 CDA tooling
Stepstone – remote patient monitoring	Home care solution for improved chronic disease mgmt. Reference implementation using healthcare standards and SOA



**Home Care Solution** 

#### **Architecture Overview**



 Map into Provider application





- Licensing there are different open source licenses, with significantly different implications re: intellectual property and rights. (OHT has chosen an approach to licensing that is friendly to software vendors which enables them to participate, e.g. Eclipse Public License)
- Awareness OHT not that well known in Europe beyond UK (NHS is a founding member.)
- Contributions to projects investment models needed, why invest in open source?
  can be challenging - can be achieved, e.g. foundational initiatives such as AAL that desire innovations, and reference implementations that can scale to production, standards orgs and alliances (e.g. HL7, Continua)



- Learn more about OHT, there is a lot going on
- Take advantage of opportunities to participate
- Leverage your expertise and skills
- Share your experience with others



## **Summary**

- Health & well-being is the outcome
- Information is the enabler
  - Health and reference information is available to individuals, their providers, and population health entities in the most useable form whenever and wherever they need it [accessible, available]
- "IT solutions" are the means by which the information is used
  - OHT contribution is to create and maintain a collaborative, inclusive, continuously evolving ecosystem to support and improve these solutions – with a specific orientation on meeting the needs of the solution users





Open Health Tools http://www.openhealthtools.org/ Open Health Tools – IHE Profiles https://iheprofiles.projects.openhealthtools.org/ Open Health Tools – Stepstone https://stepstone.projects.openhealthtools.org/ Open Health Tools – HoME https://mdht.projects.openhealthtools.org/ Integrating the Healthcare Enterprise http://www.ihe.net/ Continua Health Alliance

http://continuaalliance.org