
**Tolven**TM

Healthcare Innovations

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- Introduction
 - Paradigm shift in healthcare informatics
 - Open Source
 - Example use-cases
 - Summary
 - Questions and Answer

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- **Affordable, Scalable, Standards-Based Healthcare Solutions**
 - Electronic Medical Records proven to reduce costs and patient risk
 - Integration with existing healthcare solutions
 - Transportable healthcare records
 - Consumer engagement
 - **Consumer Access to Personal Healthcare Records**
 - Individuals increasingly engaged in their own healthcare management
 - 66% of US consumers surveyed prefer electronic access (Markle 2006)]
 - 70% want access to check for errors (Markle 2006)]
 - **Open Source**
 - National agencies requiring open source solutions (US and elsewhere)]
 - FLOSS – services 4% of EU GDP by 2010 (UNU-Merit 2006)]

- **Open Source, Collaborative Platform for Healthcare**

- Enables meaningful collaboration throughout the healthcare continuum
- A highly adaptable platform for secure health data management
- Designed to support many healthcare environments
- Reference implementation of health and technology standards

- **Tolven End User Solutions**

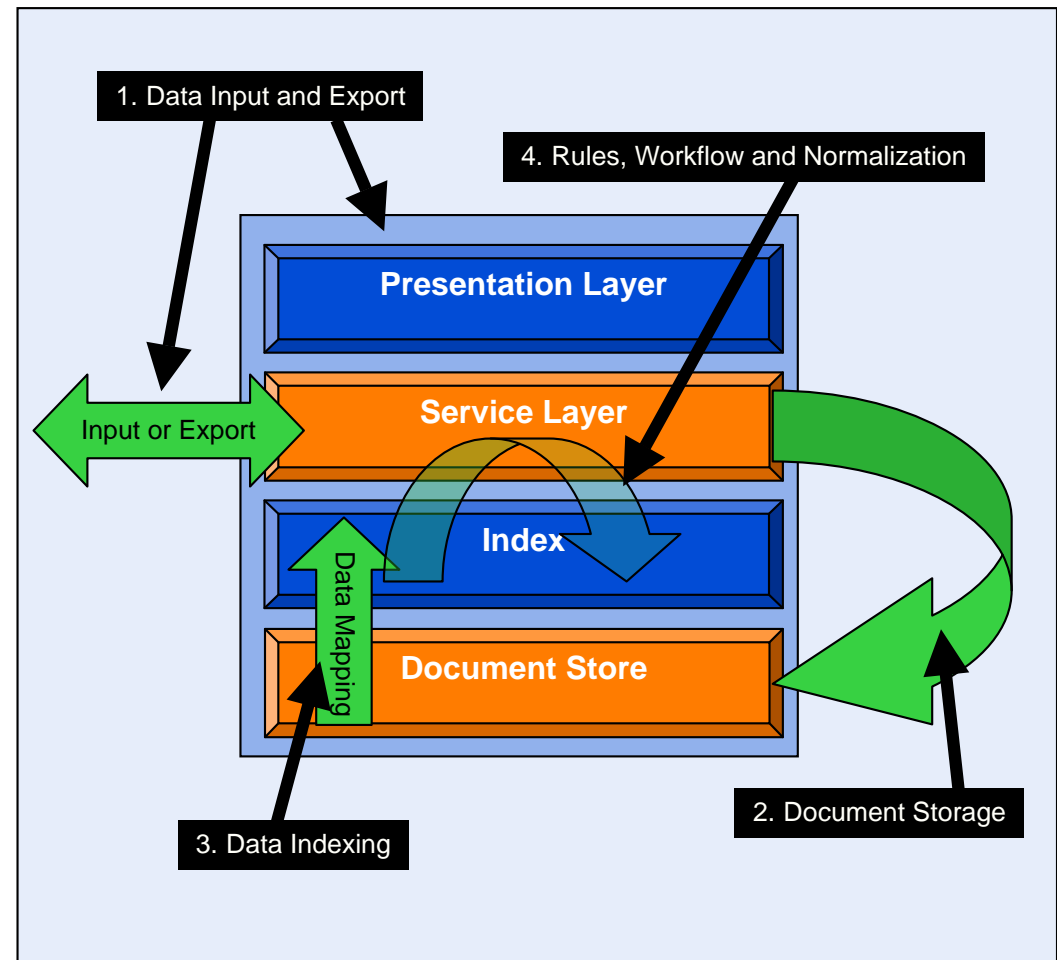
- Example applications for consumers and physicians
- Framework for further rapid application development
 - Web-browser interface
 - Mobile and static devices

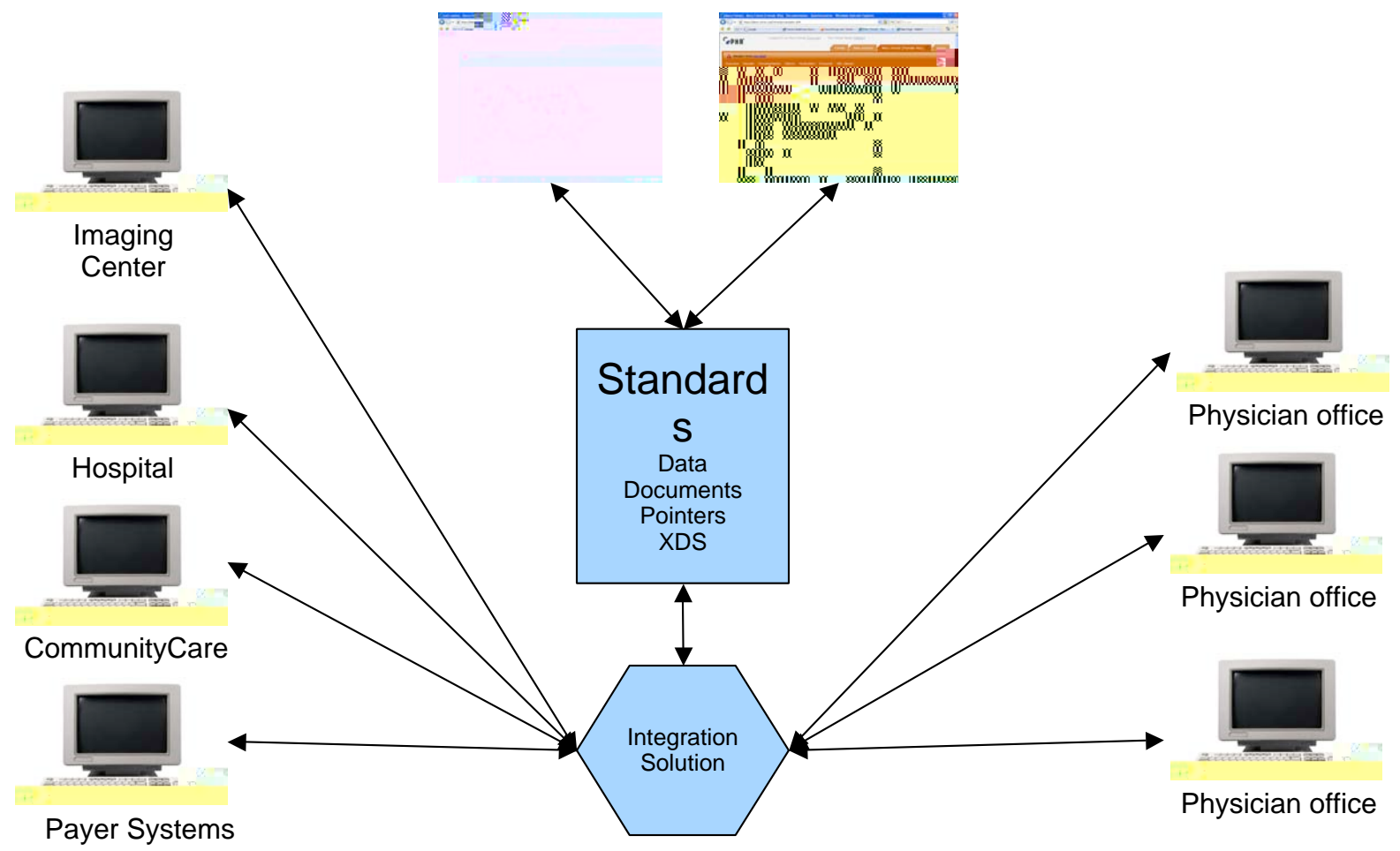


- **Tolven Extensions**

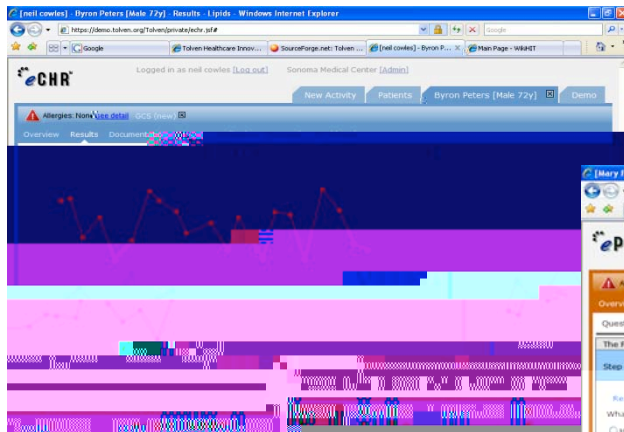
- An ecosystem for the development of innovative extensions to the Tolven end user solutions

- **Open Source**
 - L-GPL license
- **Standards-Based Solution**
 - Continuity of Care Record index
 - HL7 data types
 - UMLS coding
 - EJB3, JME, web services, etc.
 - LDAP, SSL, PKI, etc.
- **Service Architecture**
 - Business process support
 - Rules engine
 - Third party system integration
- **Technology Independent**
 - Support for commercial and open source products

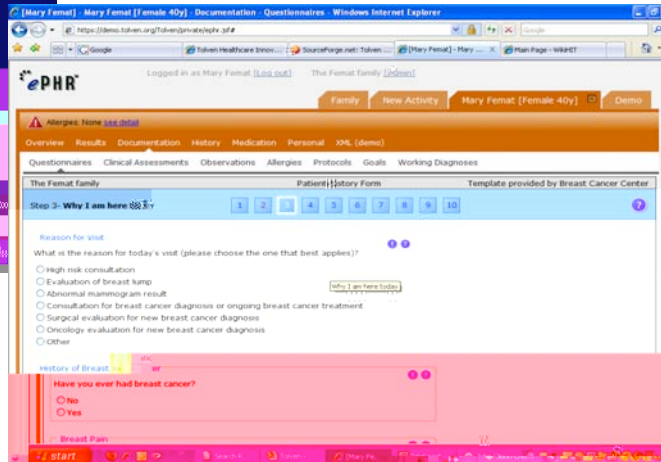




Clinician Health Record



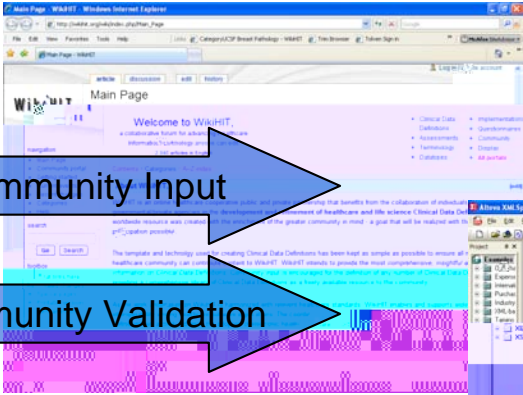
Personal Health Record



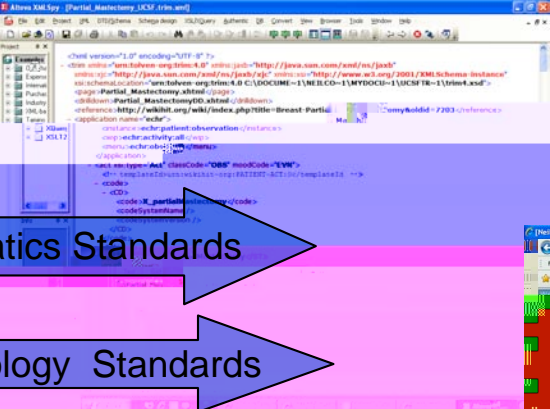
Mobility and Device Integration



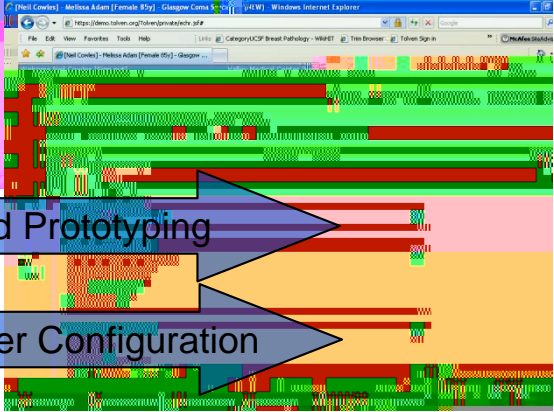
Wiki HIT.org



Templates



Applications



Community Input

Community Validation

Informatics Standards

Technology Standards

Rapid Prototyping

End User Configuration

Collaborative Design and Application Development



- Proven Underlying Open Source Components
 - Promotes re-use of existing components rather than re-build
 - Lower cost of ownership and proven scalability
- Professional and Technical Communities Involvement
- Transparency: *“It does what it says on the tin”*
- Radical Transformation of the Software Marketplace
 - Core technology (e.g., O/S, DB, AS, workflow, rules)
 - Business systems (e.g., analytics, financials, CRM, HCM)
 - Desktop (e.g., O/S, desktop, collaboration software)

