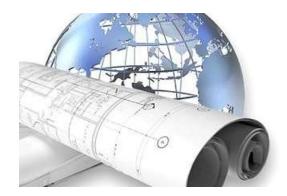


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A Viewpoint for Dealing with Change in Migration to Services





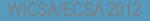
Maryam Razavian and Patricia Lago



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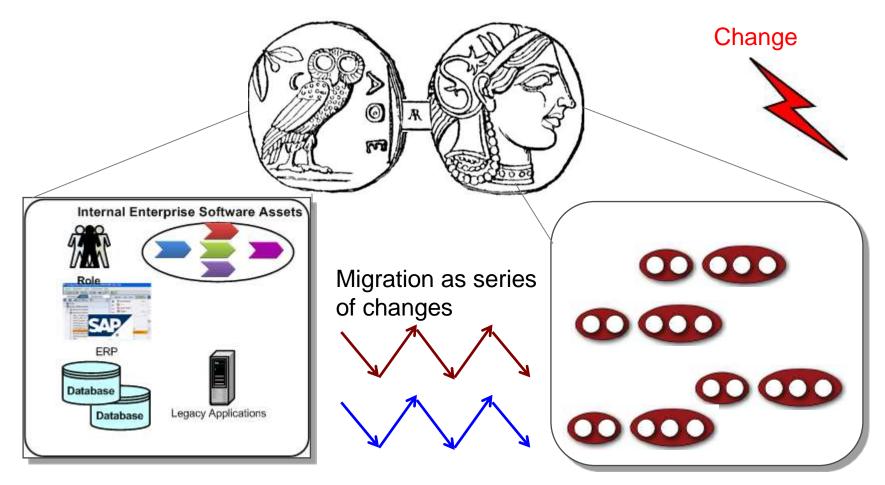
Change lies in the heart of migration to services





Background





Source State

Target state

Dutch Electronic Health Record System



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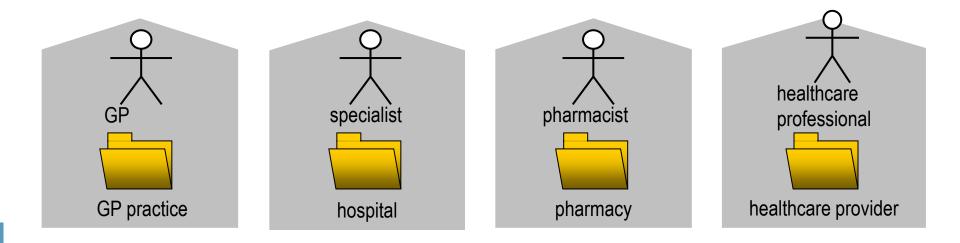
Nation-wide Electronic Health Record System



LSP Law: All healthcare providers have to connect to EHRS

Q1) How these changes impact the target service-based system

Q2) To what extent already partially migrated services can be used





Change Viewpoint: to guide the reasoning required for dealing with change.



Architects Mental Model of Dealing with Faculty of Sciences Change 1. Select a source of change 2. Find the impact of change Withdrawal of LSP Change law Impact Path Before After Scope Requirements confidentiality integrity confidentiality 3. Change D4:Where D5: What DØ:/How D2: How to D3:How to D6: How **Design** Issues delegate authenticate to architectural to to /retrieve authorization health style fits best store retrieve to patients patients the patient care patient medical coordination data? data? providers data? history? of information Design exchange in EHR? Opt2: P2P Opt1: central Rejected information service Design broker sharing Options Opt1: Opt2: P2P central Decided information service sharing broker

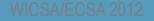


ISO/IEC/IEEE 42010 standard for documenting views and viewpoints

Purpose: guide the reasoning required for dealing with change

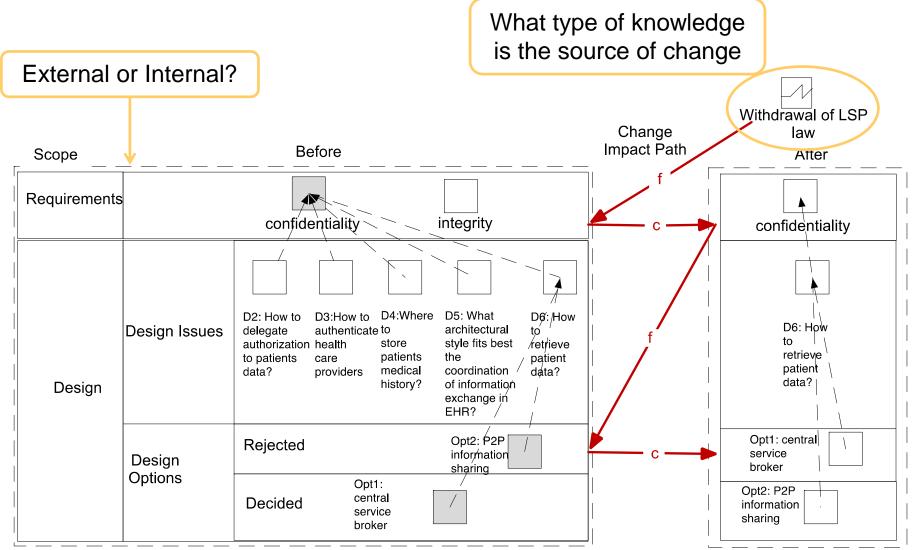
Concern 1: What is the source of change?

Concern 2: What is the impact of change?



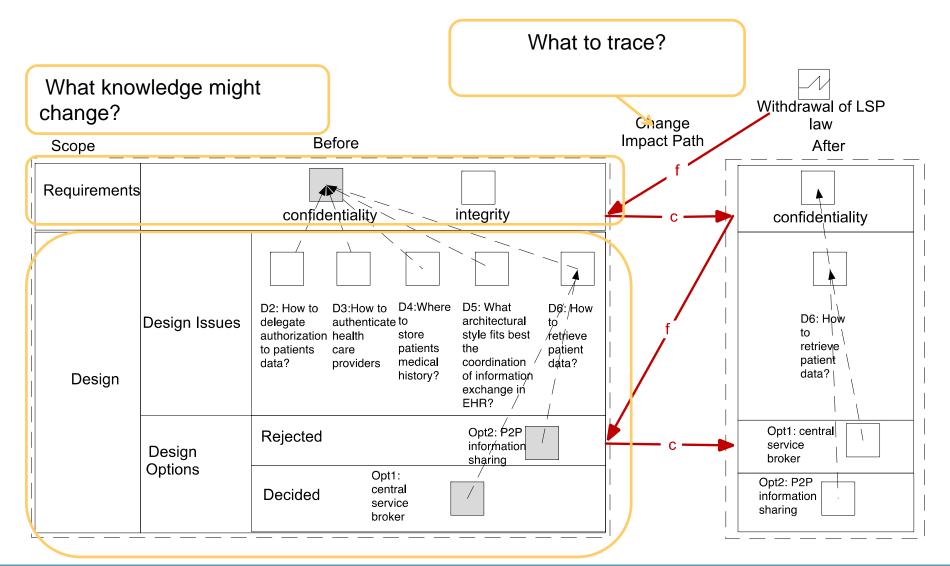
Concern 1: What is the source of change?





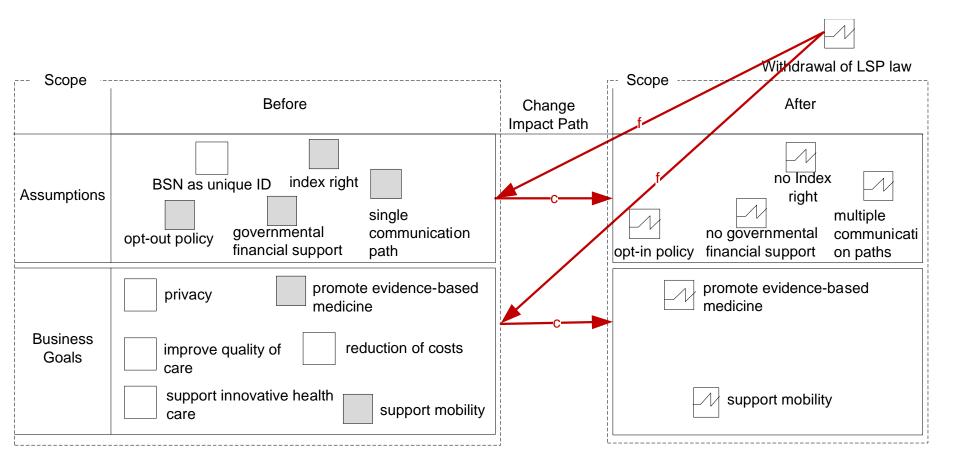
Concern 2: What is the impact of change?





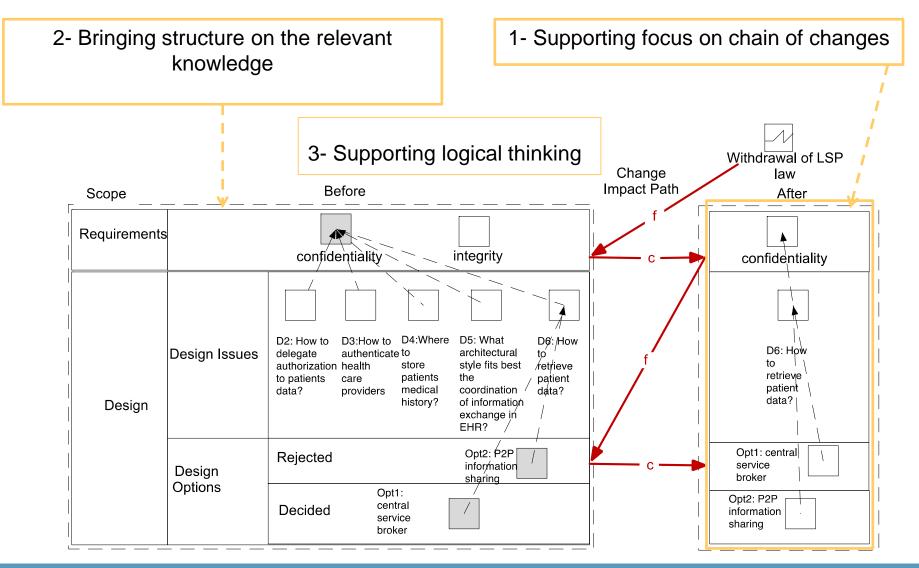
Scenario 1: Scoping Change in Problem Space





How the change viewpoint helps architects reasoning





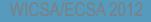
Summary and next steps



• A viewpoint in-line with architects natural way of thinking

• Tool support

• Empirical validation of the effects of change viewpoint in architects reasoning



Thank You



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m.razavian@vu.nl p.lago@vu.nl