



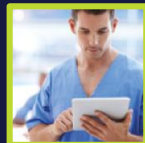
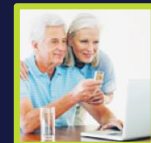
Feidhmeannacht na Seirbhíse Sláinte  
Health Service Executive



# Working Agile & Alignment with Business

Delivering eHealth Ireland

Office of the Chief Information Officer



# BACKGROUND



Today, a more impactful approach to Architecture Delivery is required





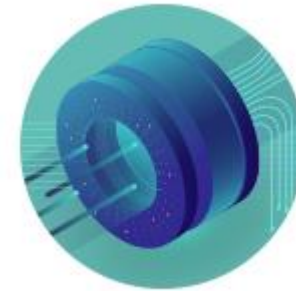
# Principles.... of working agile & alignment with business



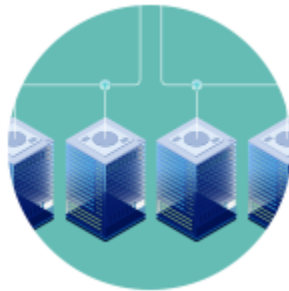
Focus on customer experience  
and their evolving requirements  
as a priority



Start with a  
(organisational) problem



Rapidly innovate and  
iterate architecture  
developments &  
delivery



Empower collaboration  
between different SME's within  
and across organisations



Success is about  
Business Outcomes,  
not Architecture



Focus on customer experience and their evolving requirements as a priority



### Process Models & HL Business Processes

Business Models & Processes are required to efficient working using technology to deliver the business of healthcare

### Dataset Specifications

Need for standardisation and a robust dataset specification which will underpin interoperability and data driven decision making

### Compliance

Need to comply with EU directives, specifically EU 2011/24/EU

### Security

Security is becoming an important component in sharing healthcare information

### Standards

Urgent need to confirm that vendors can comply with the standards required to provide interoperability

### Architecture Design

Need to support Solution Architects to deliver project and programme architecture





## Start with a (organisational) problem

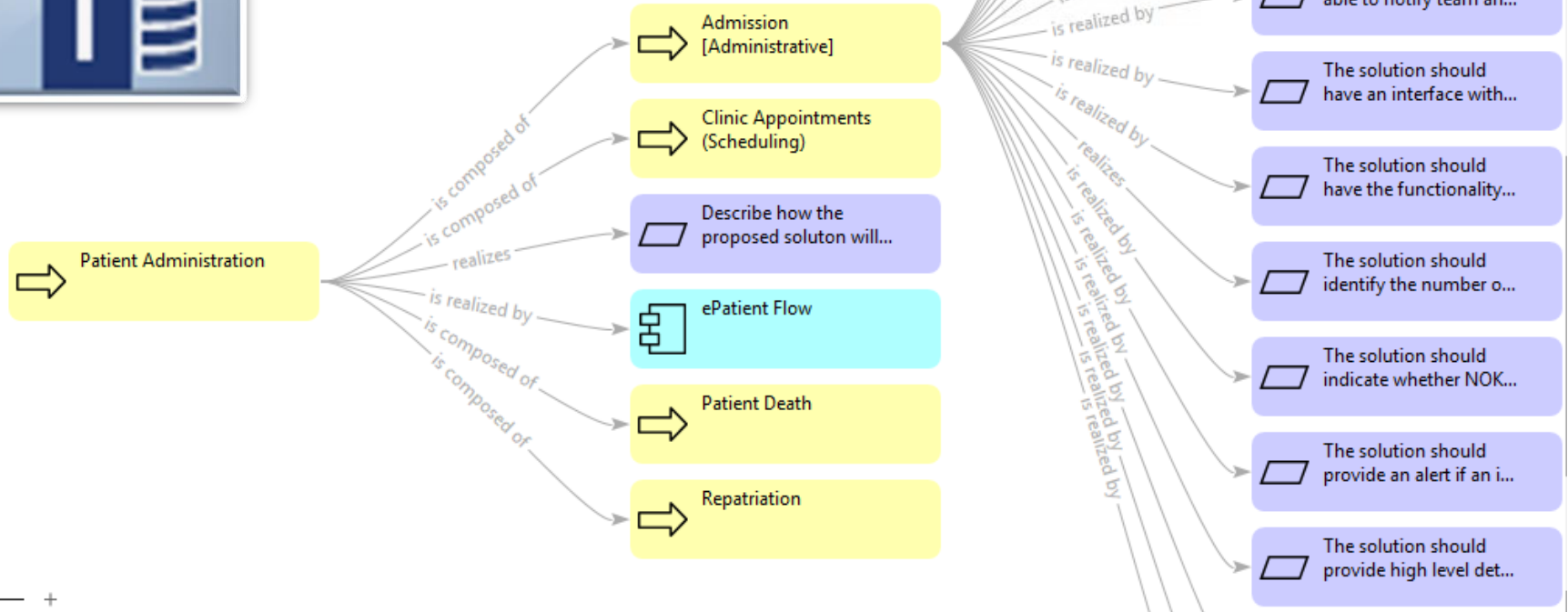


- Digital is changing the way we work
- *Time to Market (Procurement phase)*
- *Lack of Business Analysts*
- *Difficult to Architecture Standards into the solution design*
- *Not maximising the HSE's Organisational Knowledge (IP)*
- *Poor use of technology to maximise the value of scarce resources*
- *Vendor concerns*





# Building Repository Content



**iServer** is Enterprise Architecture tool that provides a central repository for the EA team and Also provides a platform to collaborate with OCIO partners and access architecture documentation.



# Enterprise Architecture Portal

## Enterprise Architecture Portal

*Designed as architected, implemented as designed*



[Home >](#)

### Home

#### Data & Information



Standards based design, test & conformance assessment and certification

#### Governance & Assurance



Guidance & Assurance on information architecture, interoperability and regulatory compliance

#### EU Programmes DoH & HSE



Supporting National eHealth policy, research, EU regulations and information sharing

#### Design, Test & Certification



Standards based design, test & conformance assessment and certification

#### SNOMED CT



Structured clinical vocabulary for use in national clinical systems & E.H.R's

#### Asset Library



Resources & content to support good design practice and business capabilities

#### Enterprise Architecture | Additional Information

[What is Enterprise Architecture ?](#)

[eHealth Ireland - Enterprise Architecture](#)

['To Be' Architecture](#)

[Asset Classification Model](#)

#### HSE | Strategies

[Sláintecare Implementation](#)

[eHealth Ireland](#)

[National Service Plan](#)

# Organisational Requirements

## Enterprise Architecture Portal

*Designed as architected, implemented as designed*



Home > Design, Test & Certification > Requirements

### Functional Requirements



Functional requirements define what a system is supposed to do



### Data Requirements



Data requirements define the content and/or structure of data instances and values

### Non-Functional Requirements



Non-functional requirements define how a system is supposed to be

### Interoperability Specifications



Interoperability requirements define the degree to which the information and services are to be shared

### Standards Requirements



Standards define established norms or requirements

### Enterprise Architecture | Additional Information

[What is Enterprise Architecture ?](#)



[eHealth Ireland - Enterprise Architecture](#)



['To Be' Architecture](#)



[Asset Classification Model](#)



### HSE | Strategies

[Sláintecare Implementation](#)



[eHealth Ireland](#)



[National Service Plan](#)







# Functional Requirements

## Enterprise Architecture Portal

*Designed as architected, implemented as designed*



Home > Design, Test & Certification > Requirements > Functional Requirements

### Functional Requirements

Bed Management

HSE Reporting & BI

HSE System Support & Optimisation

Patient Administration

System Outputs

HSE System Requirements

Ward Management

HSE Configuration & Optimisation

Information Security

Hospital Patient Flow

HSE Project Management

HSE Training, Documentation & Help

### Enterprise Architecture | Additional Information

[What is Enterprise Architecture ?](#)

[eHealth Ireland - Enterprise Architecture](#)

['To Be' Architecture](#)

[Asset Classification Model](#)

### HSE | Strategies

[Sláintecare Implementation](#)

[eHealth Ireland](#)

[National Service Plan](#)



# Rapidly innovate and iterate architecture developments & delivery



### Patient Administration

## Functional Requirements

1: Process Area	2: Business Process	3: Functional Requirement
Patient Administration	Admission [Administrative]	The solution should be able to identify overlaps on bed etc. The solution should support user defined categories The solution should support the use of barcode read The solution should have the functionality to inform the patient to admissions The solution should provide high level details of patient functionality to aid the admissions process The solution should provide an alert if an interpret rules that are configurable The solution should automatically estimate the length based on reason for admission The solution should provide pertinent information at location (geographical) for bi directional flow, PDD, The solution should indicate whether NOK confirms profile with a history of changes available throughout ward

### Bed Management

## Functional Requirements

1: Process Area	2: Business Process	3: Functional Requirement
Bed Management	Hospital Bed Management	Bed type should be configurable, clearly - surgical and medical highlighted It should be possible to define the bed or ward as a "Time Limit application will identify patients who have resided on the ward It should be possible to set the expected time at which beds will receive/accept transfer of patients The solution should allow the designated user to Open, Close Suspend beds and to require a reason for the change in bed and its configuration The solution should clearly identify the gender of the bed and its configuration The solution should show at a glance, pertinent information to be number of isolated patients in the ward, reasons why ELOS has been without creating erroneous or unreal transactions The solution should permit the administrator to allocate/change admissions, for transfers, or for completely restricting beds. This to specific roles eg bed managers The solution should have the functionality to increase ward capacity alternative capacity (which might be higher or lower than the est

### HSE Project Management

## Non-Functional Requirements

1: Process Area	2: Business Process	3: Vendor Requirement	4: Cardinality	5: Current Version Supported? (Y/N)	6: Future Version Supported? (Y/N)
HSE Project Management	Project Team	The vendor's project manager should have a working knowledge of PRINCE2 project management methodology The HSE expects that an appropriate team, including the project manager, remains on-site during implementation and go-live and for an agreed period of time thereafter to ensure the smooth implementation of this project. Vendors should provide a detailed resource plan listing the staff that will be assigned to the project including details of each staff member's role, where staff will be based and the percentage of their time assigned during each stage of the project (including the post go live support stage). Vendors should provide details of a named Project Manager who will take responsibility after award of contract for all aspects of the provision of goods and services. Vendors should provide an initial Risk Register and Lessons Learned from previous implementations.	desired		
	Project Planning		desired		

### Bed Booking Request Form

## Data Requirements

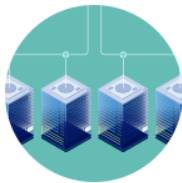
ePatient Flow User Requirements

### Architecture

## Interoperability Standards

### Referrals Management

## Policies & Guidelines



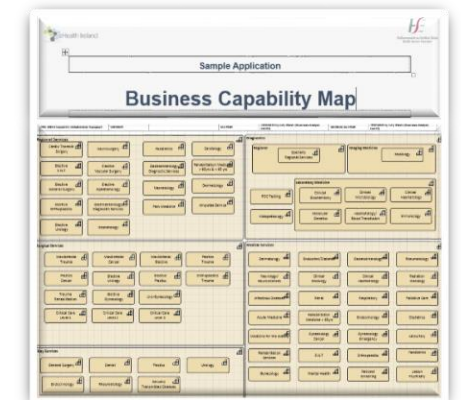
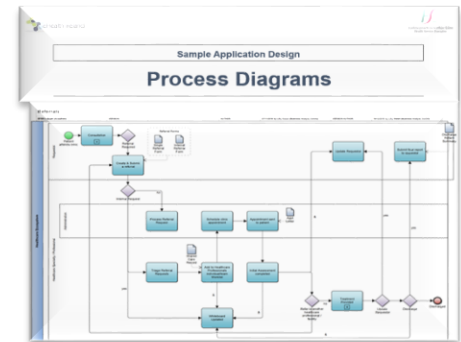
Empower collaboration between different SME's within and across organisations



← Sample Application Design - Standard

Quick Find item in 2: Heading

1: Application Design Name 1 <		2: Heading 5 <		3: Business Activity 1 <		
Name		Relationship	Name	Relationship	ID	Name
Sample Application Design		realizes	1.0 Solution Design	realizes	4.0	Go Live and Early Life Support
		realizes	2.0 Reporting & Data Analytics			
		realizes	3.0 Project Management			
		realizes	4.0 Support & Optimisation			
		realizes	5.0 Training, Documentation and Help			



**Sample Application Design**

# Sample Application Design User Requirements

---

Document Status		
Version No.	Date Last Checked Out	Modified by
9	11/06/2019 18:38:31	System Administrator

This document is subject to change control.

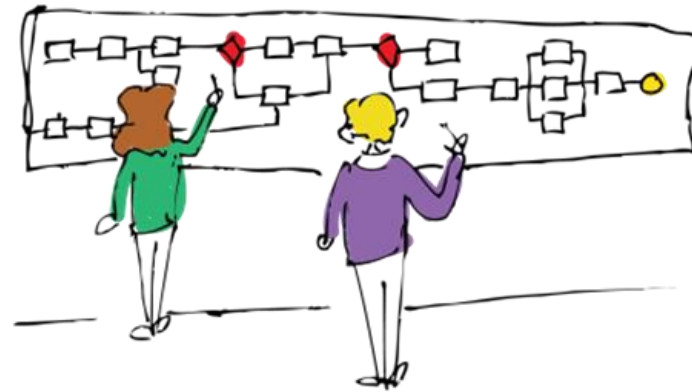
**Abstract**  
Sample Application Design project is used to demonstrate how solution designs can be compiled using the business activities that define how healthcare is delivered. A Statement of Requirements (SoR) be automatically generated and updated in real time to provide the project manager with the most up to date version.



Success is about Business Outcomes,  
not Architecture



# Working Better Together



- Shorter phase in lifecycle
- Easy access to real time content
- Valuable organisational asset