

## Transforming an Architecture Practice

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### Agenda

- Background to the Architecture Practice
- Industry Input
- From Theory to Practice
- Summary





#### **About Lloyds Banking Group**

## LLOYDS BANKING GROUP



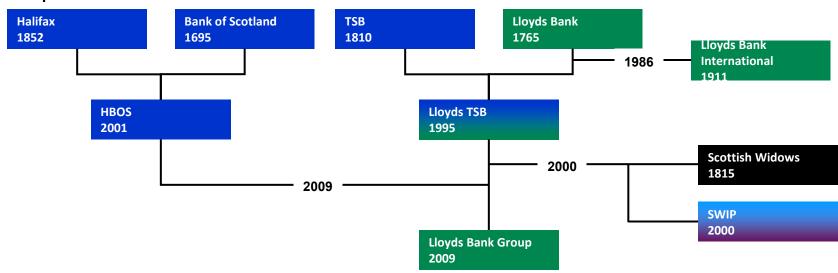
- Lloyds Banking Group is the UK's largest Bank
- 30m Customers
- 100,000 Employees
- UK's leading provider of current accounts, savings, personal loans, credit cards & mortgages
- Brands include Lloyds TSB, Bank of Scotland, Halifax, Scottish Widows, Cheltenham & Gloucester





#### **Company History**

 Lloyds Banking Group has been created from a series of mergers and acquisitions....



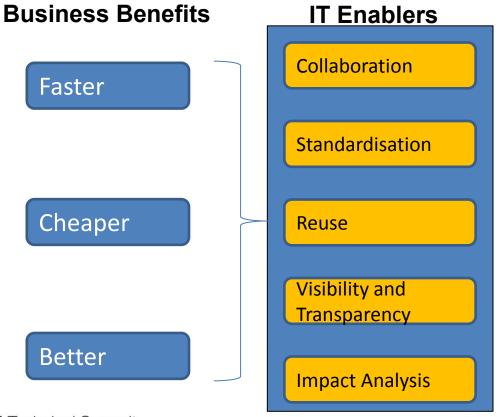
... which created a complex legacy of IT applications, data and infrastructure



#### Transformation Roadmap

**Target State** Use professional industry tools and methods to deliver high quality designs fast **Target State** 3<sup>rd</sup> July 2012 **People** Industrialised Design V1.0 Industry Ready for General Rollout Standard Skills Multiple Industrialised Language Lifecycles Design 3E Plan UML 2, TML, Waterfall. Industry IDF Agile Standard **People** Design LBG Current Defined State Skills Tools Organisation **RRC** One Team Lifecycle Language **RSA** Collaborative Waterfall -**UML** Lite RTC **LBG** One size fits all **Current State** Design **Target State** People **Process** People Lifecycle Organisation Language Lifecycle Language **Tools** Siloed. Word, Onshore, Visio Defensive Organisation Organisation Tools

#### Benefit Levers being Exercised





## Scope of Industrialised Design

Business	GITO	EAD	ADM
	Rational Transformation Programme		
Setting Business Vision Defining Requirements Defining Business Process Changes	Requirements Gathering Creating Business Requirements Creating Solution Requirements	Identifying key architectural elements  Concurrent consideration of functionality, infrastructure,	Detailed Design Build Test
		data and security  Deriving solution elements from (and tracing elements to) the defined requirements  Communicating the architecture to stakeholders  Producing and consuming reusable assets  Architectural governance	SD
			Physical Design



### Agenda

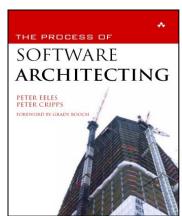
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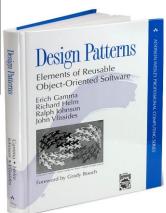


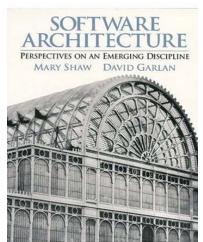
#### Inspiration

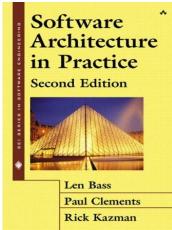
"If I have seen further it is only by standing on the shoulders of giants"

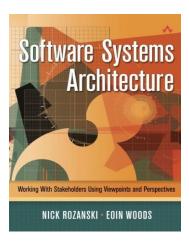
Sir Isaac Newton, letter to Robert Hooke, 15th February 1676









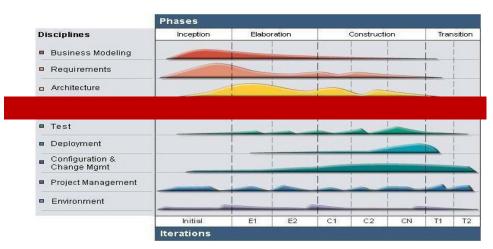




#### Rational Unified Process

The Rational Unified Process (RUP) is an iterative software development process framework. RUP is not a single concrete prescriptive process, but rather an adaptable process framework, intended to be tailored by organisations and software project teams that will select the elements of the process that are appropriate for their needs.

The Industrialised Design Method is based on elements of RUP, tailored to suit the Group's requirements.



The RUP has a project life cycle consisting of **four phases**.

- These phases provide a focus for the <u>iterations</u> that are an inherent part of the project lifecycle
- Each phase has a key objective and an associated milestone that denotes the objective being accomplished.

#### Mapping RUP to the Industrialised Design Method

- Disciplines are organised by logical coherence
  - The Industrial Design Method covers the **Analysis and Design** discipline.
- Phases are organised by timeframe:
  - Most of the work for the Industrial Design Method will be done in the **Inception** and **Elaboration** Phases
  - Some work could also happen in the other phases if change requests or defects have to be respected
  - The significant milestone for the Industrial Design Process is the "lifecycle architecture milestone" at the end of the elaboration phase as one of its most significant demands is a stable architecture.

#### **Summary of Best Practices**

#### Rational

Consider all elements of a development ecosystem

Implement a center of excellence

Plan improvements around capabilities

Adopt capabilities incrementally

Embrace principles of organizational change

#### Kotter

Establish a sense of urgency

Create the guiding coalition

Develop a vision and strategy

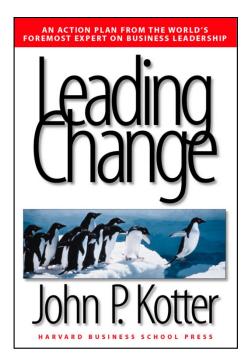
Communicate the change vision

Empower employees for broad-based action

Generate short-term wins

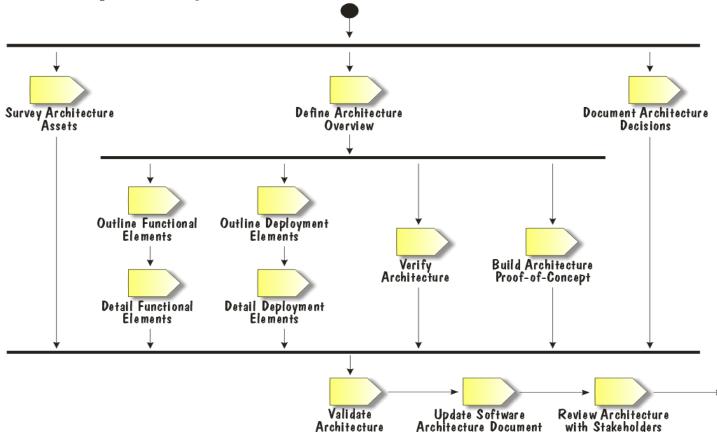
Consolidate gains and produce more change

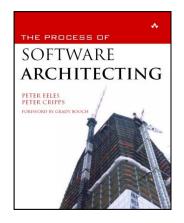
Anchor new approaches in the culture



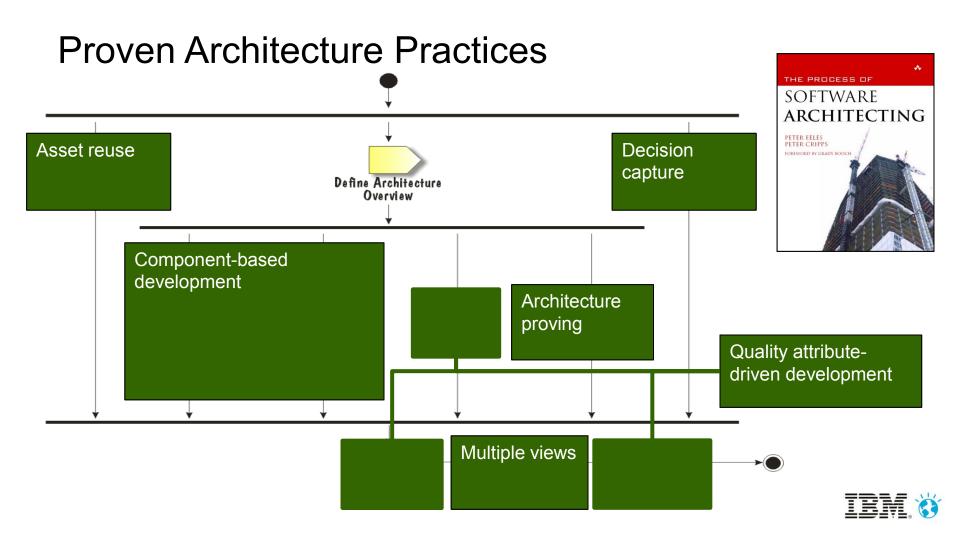


## Can you Spot the Innovation Enablers?







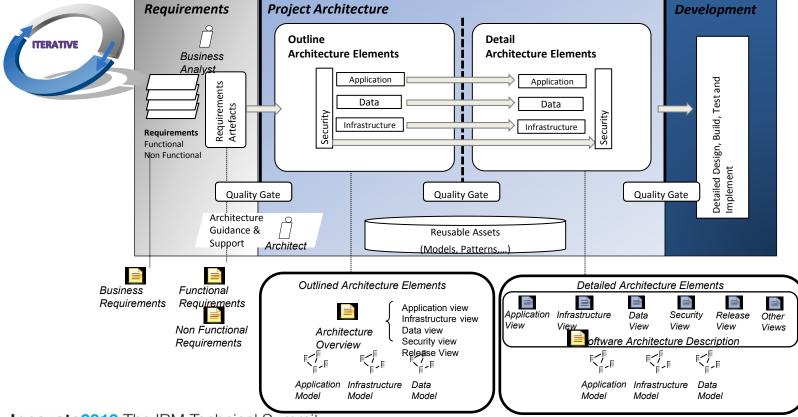


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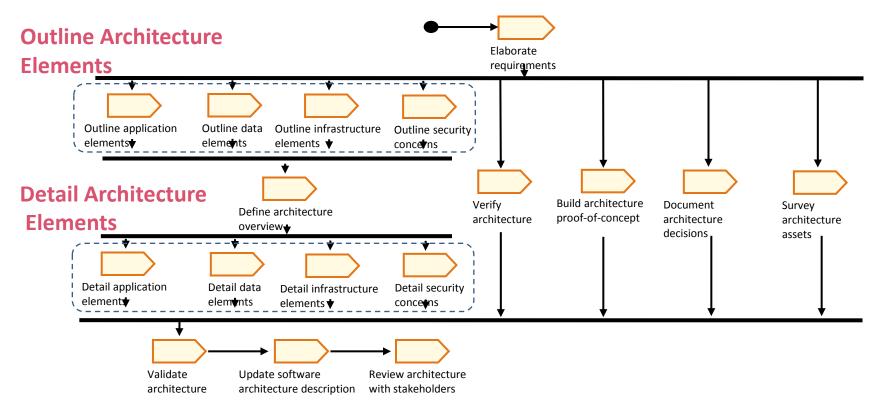
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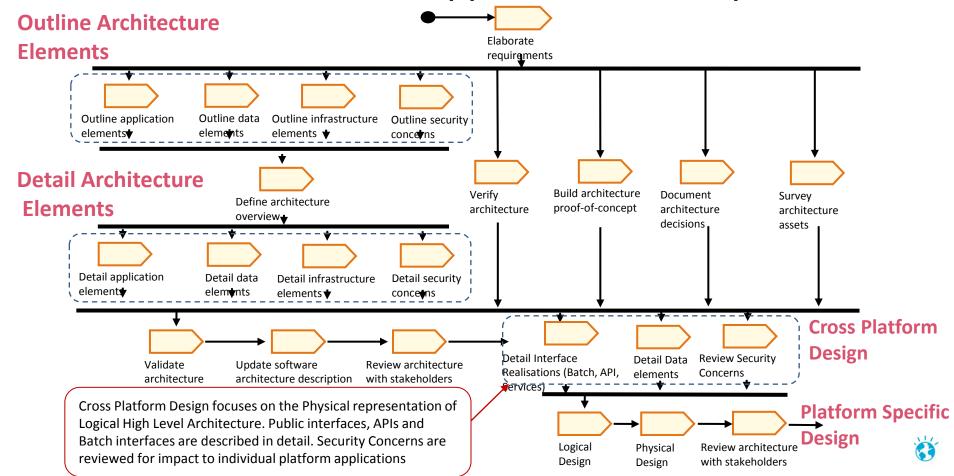
### Industrialised Design Method Overview



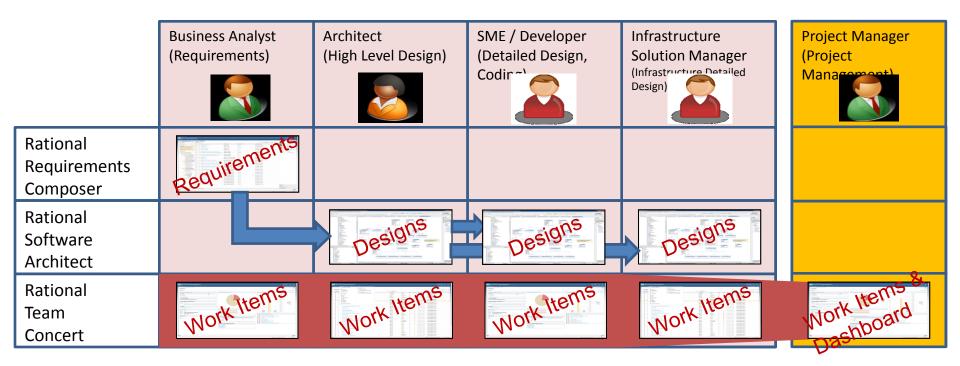
#### Architecture Method within the Architecture Practice



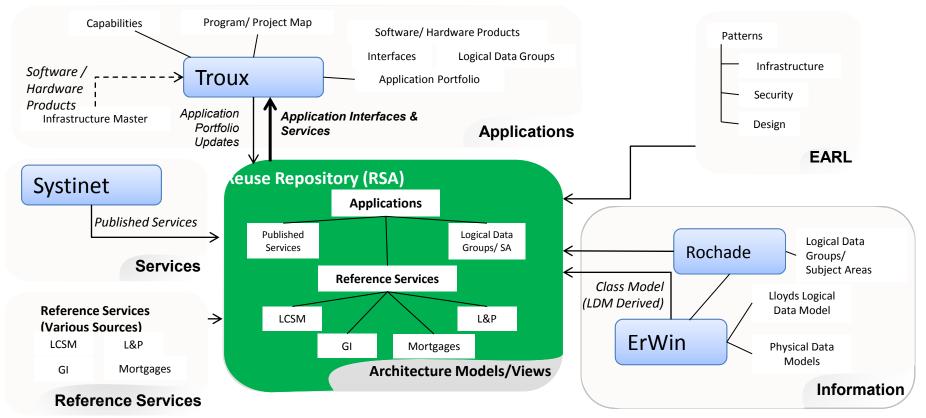
## Method extended into Application Development



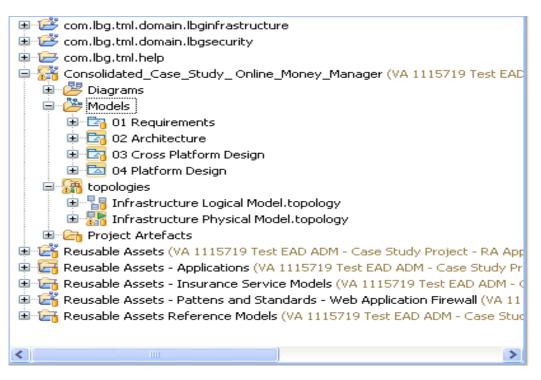
#### Target Tools Architecture



# Reuse Architecture Information Ownership and Control



## Overall RSA Project Structure



#### **01** Requirements

 Functional and Non Functional requirements and use cases are represented in this folder. These requirements are represented as components imported from RRC.

#### 02 Architecture

- EAD completes the Architecture Description in this folder
- Models (Application, Data), Views, Topologies and Requirements Realisations are created.

#### **03 Cross Platform Design**

 The design activity in this folder is the first level of collaboration between EAD, ADM in Level 4 with confidence.

#### 04 Platform < Name > Design

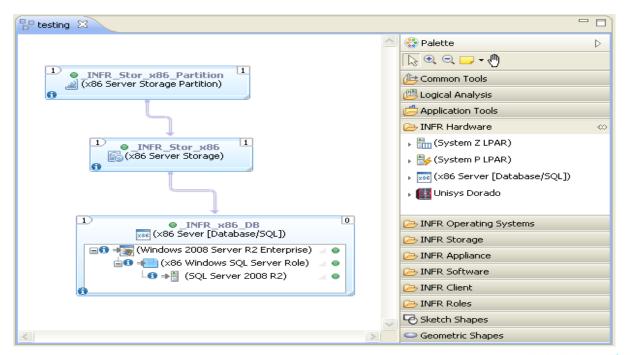
 Designs activity completed by the Platform on the basis of the agreements made in the collaborative design work in Level 3 – Cross Platform Design



## Topology Modelling Language (TML)

Applied through RSA Deployment Planning and Automation (DP & A)

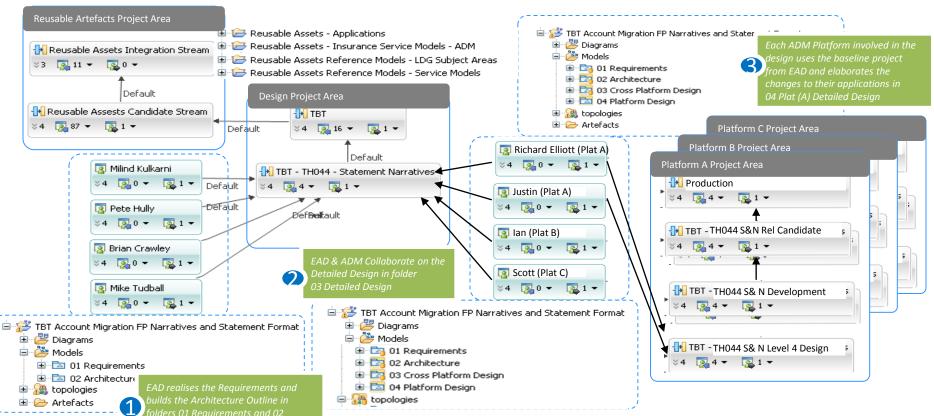
With customised palette





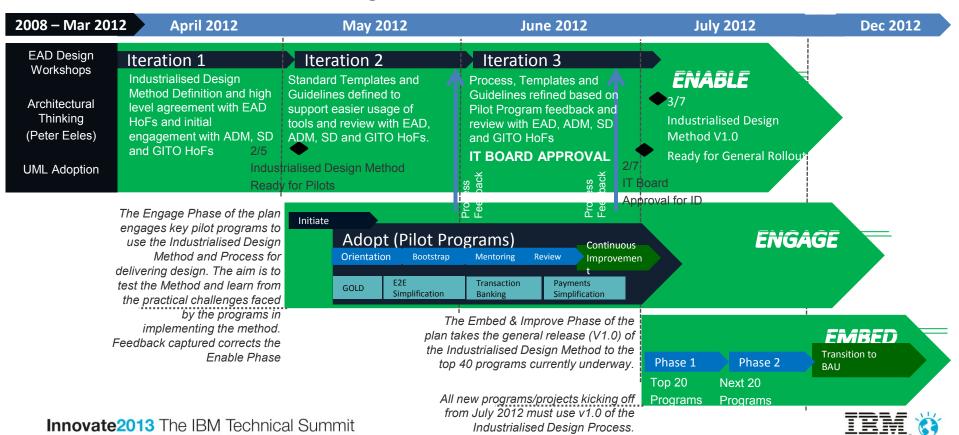
#### Q. How and Where do EAD and ADM Collaborate RTC Project Structures

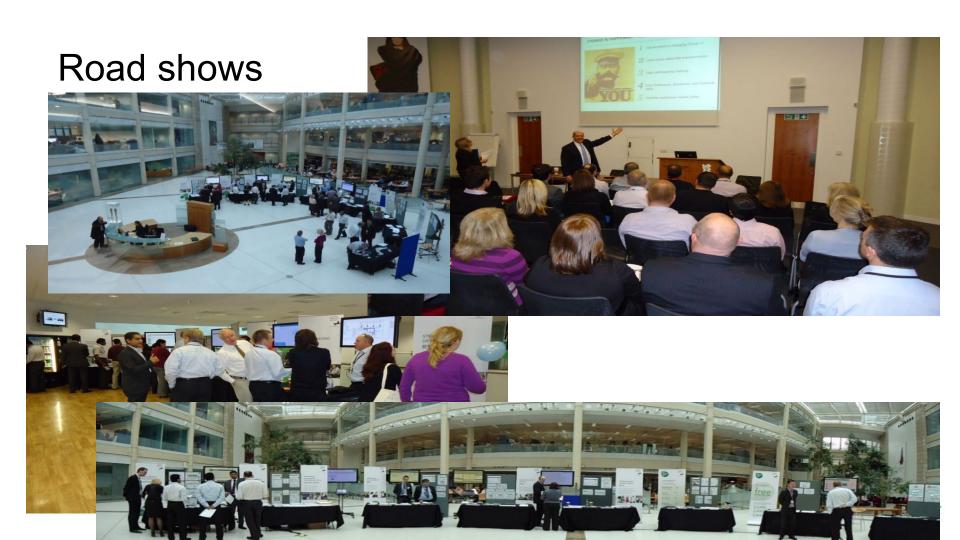
Cross Platform design completes in the EAD Design Project Area before Platform Design progress in the Platform Project Areas





## Industrialised Design Method 3E Plan





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#### Summary

- IBM perspective
  - Adoption of architecture best practice
  - Embracing principles of organizational change
  - An opportunity to bring experiences from an engagement of this scale to the broader community
- Lloyds Banking Group perspective
  - A thought-through case study that exemplifies the method is key
  - There is a real opportunity to "codify" patterns of practice
  - People-related change is the most difficult aspect of transformation



# Questions



**2013** 

# Thank You

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