Adobe Flex part of our IT Strategy

IT Architecture and strategy

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150 ANS

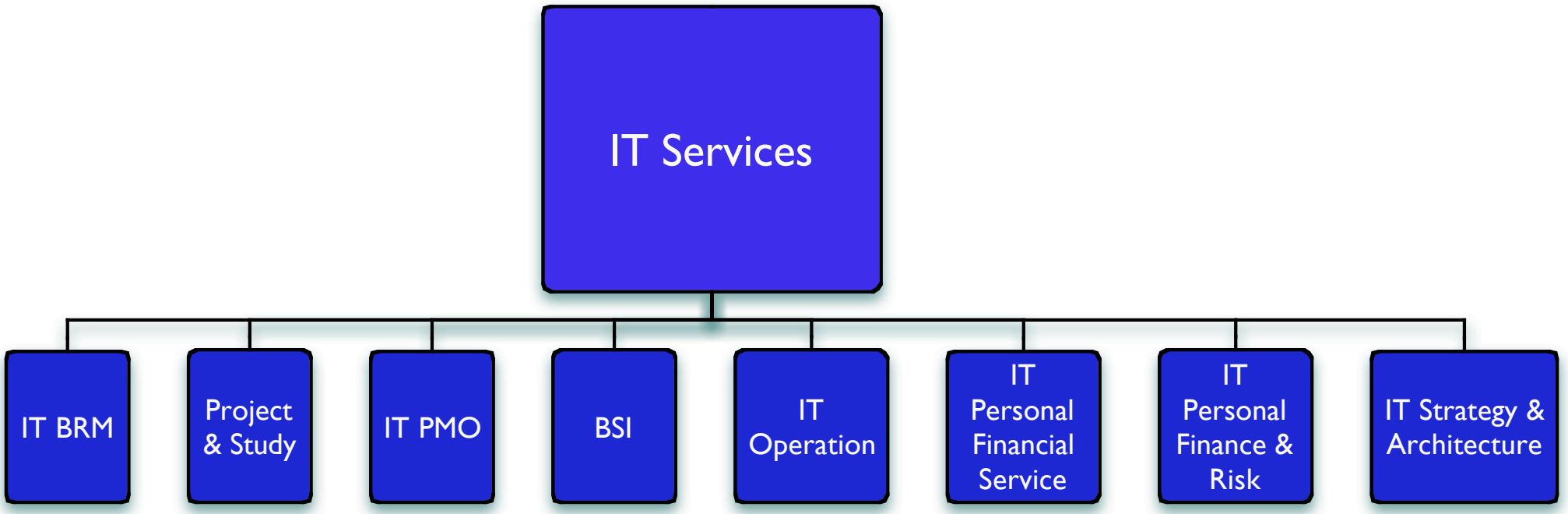
DEXIA

Banque Internationale à Luxembourg

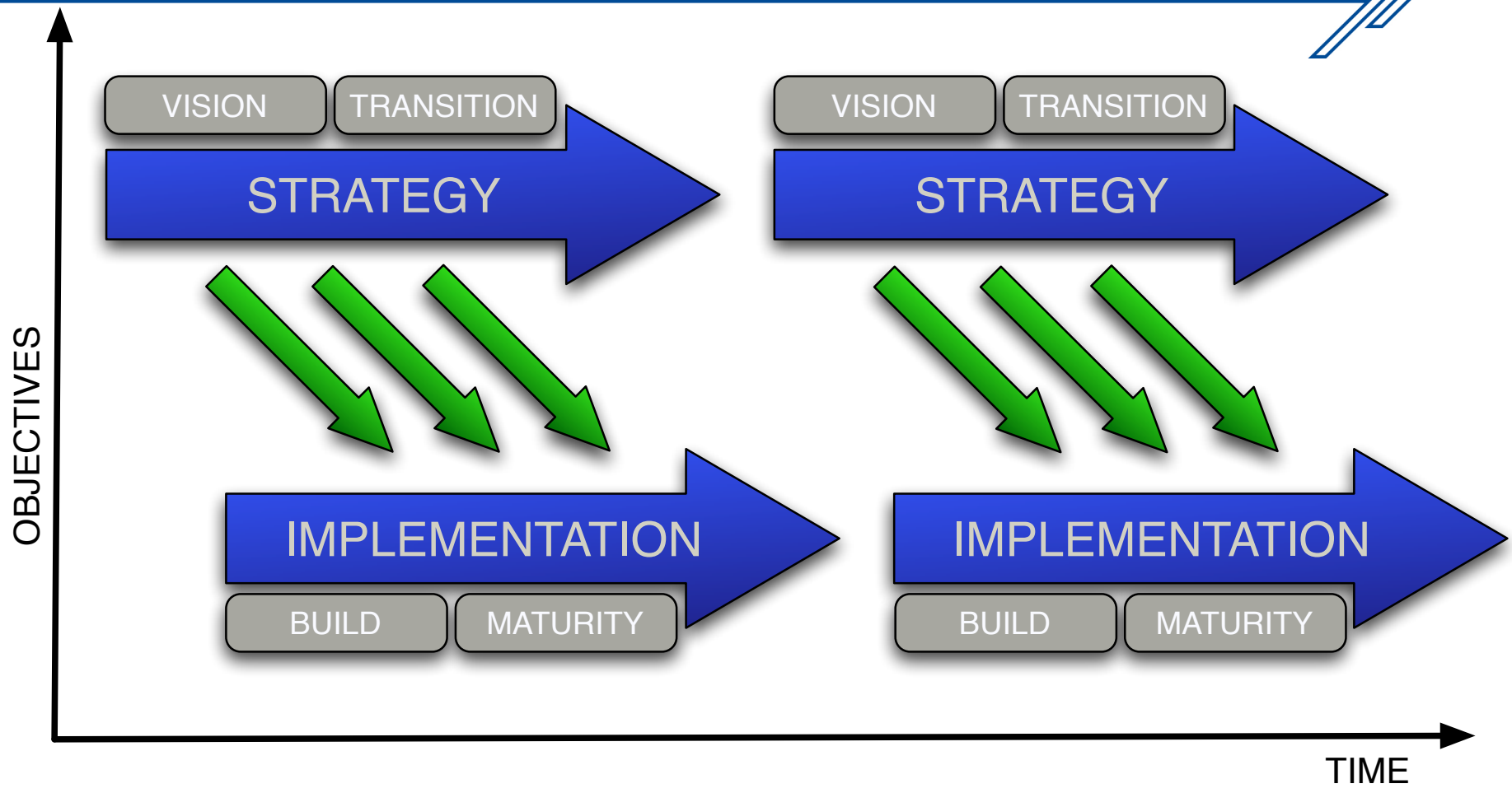
Dexia-BIL (www.dexia-bil.lu)

- Member of Dexia Group
- International presence :
  - Australia, Austria, Bahrain, Belgium, Cayman Islands, Canada, Denmark, Spain, France, Germany, Hong Kong, Ireland, Italy, Jersey, Netherlands, Singapore, Switzerland, United Arab Emirates, United Kingdom
- Activities :
  - Private Banking
  - RBC Dexia Investor Service (Global Custody, Fund and Pension Administration, Securities Lending ...)
  - Asset Management
  - Financial Banking
  - Commercial Banking

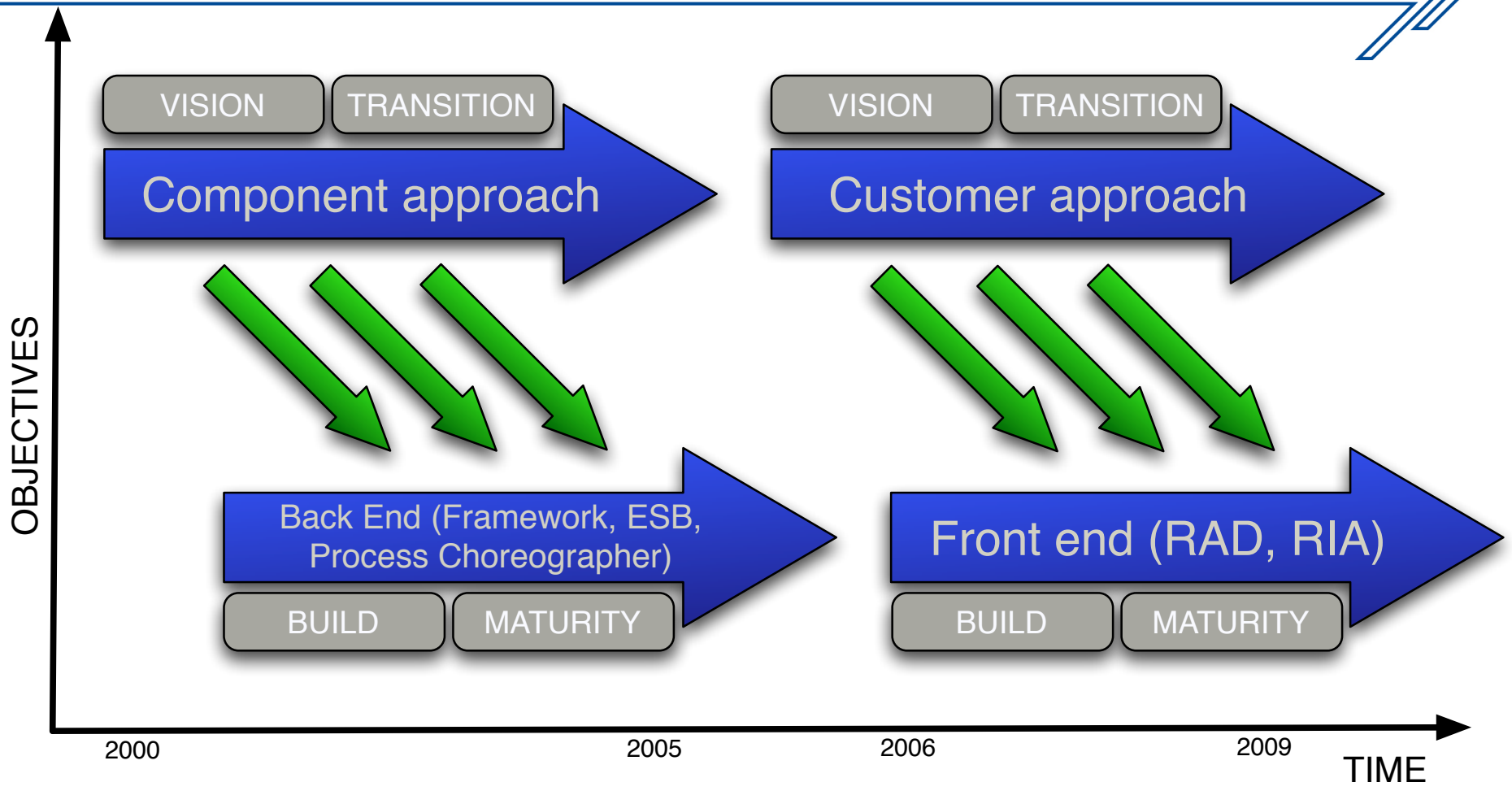
Dexia-BIL IT services



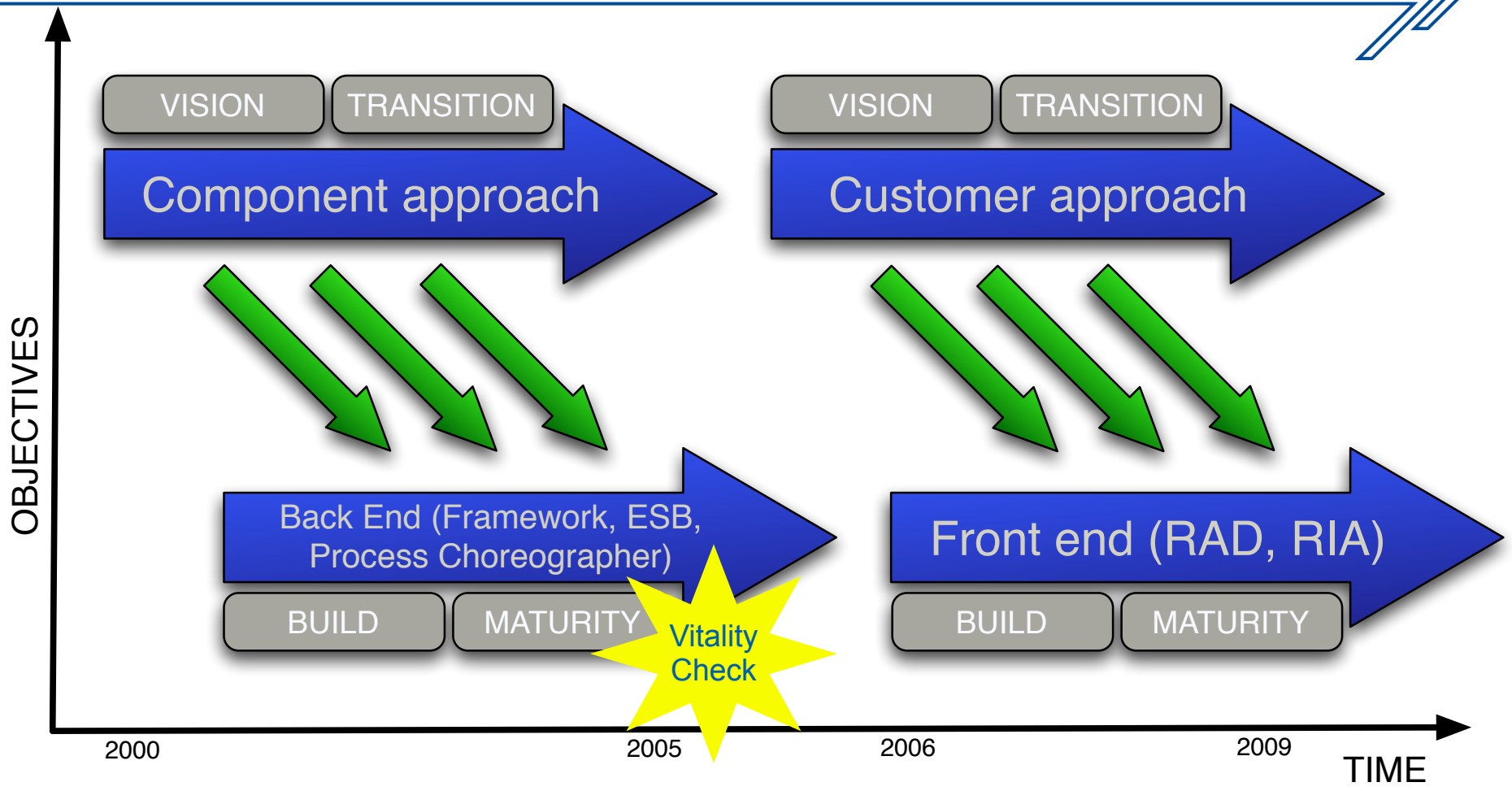
IT Strategy - Principles



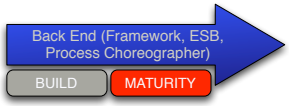
IT Strategy - Dexia BIL



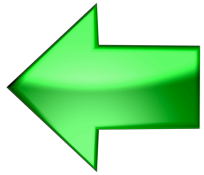
IT Strategy - Dexia BIL



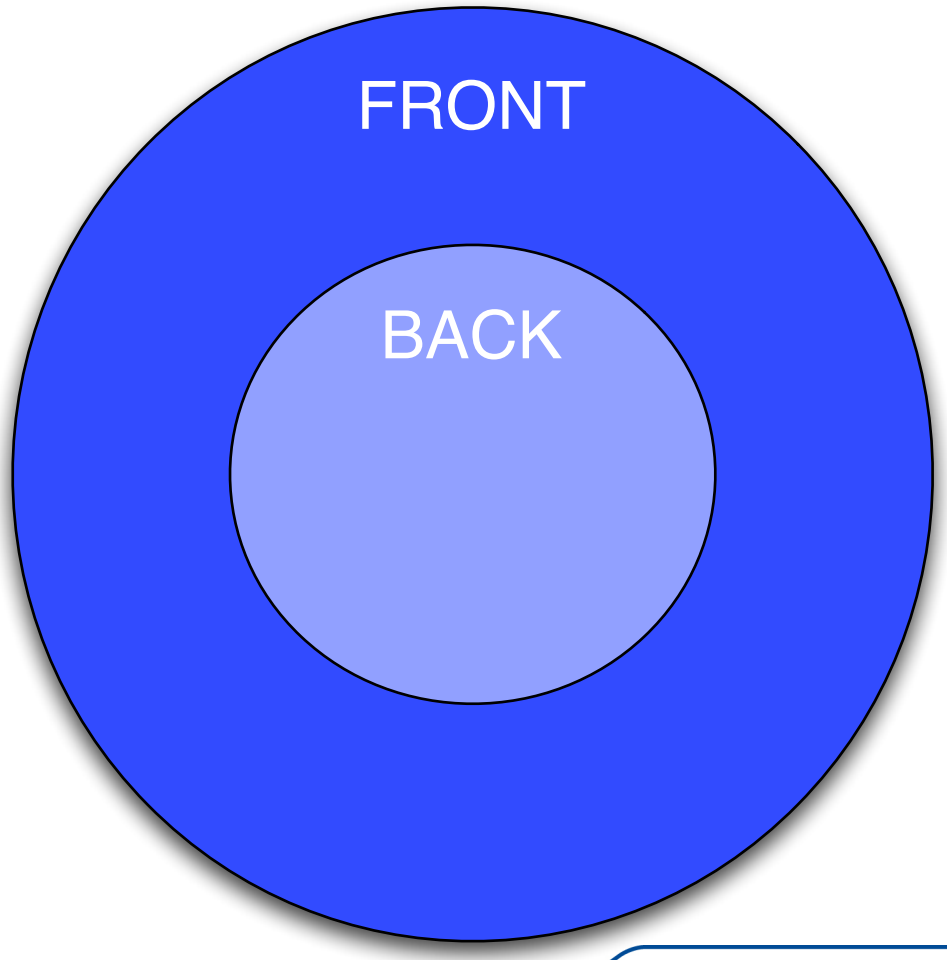
Component approach - Maturity



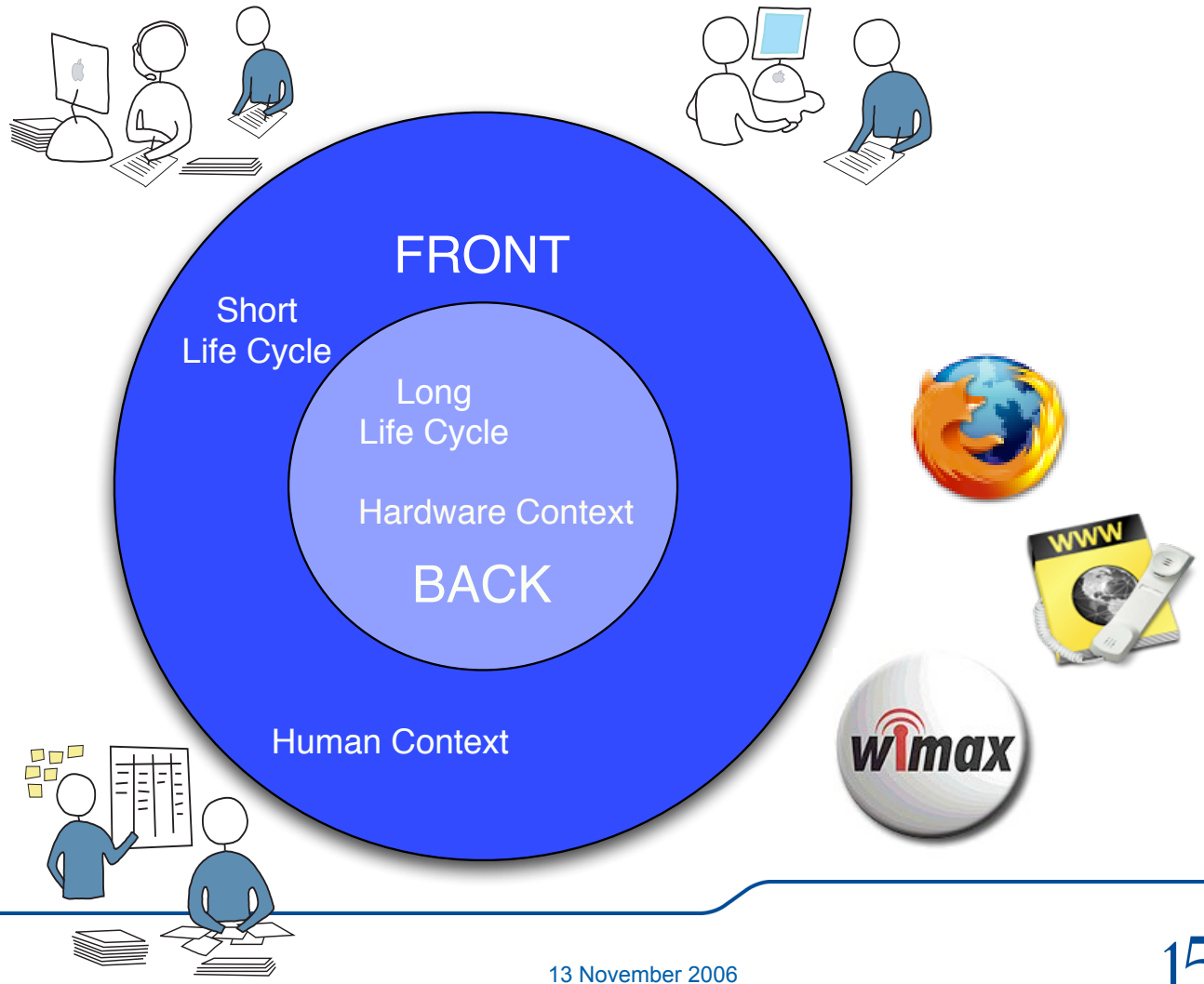
1. SERVICE IMPLEMENTATION
2. SERVICE ORIENTED INTEGRATION
3. GENERAL ENTERPRISE INTEGRATION APPROACH
4. ON DEMAND



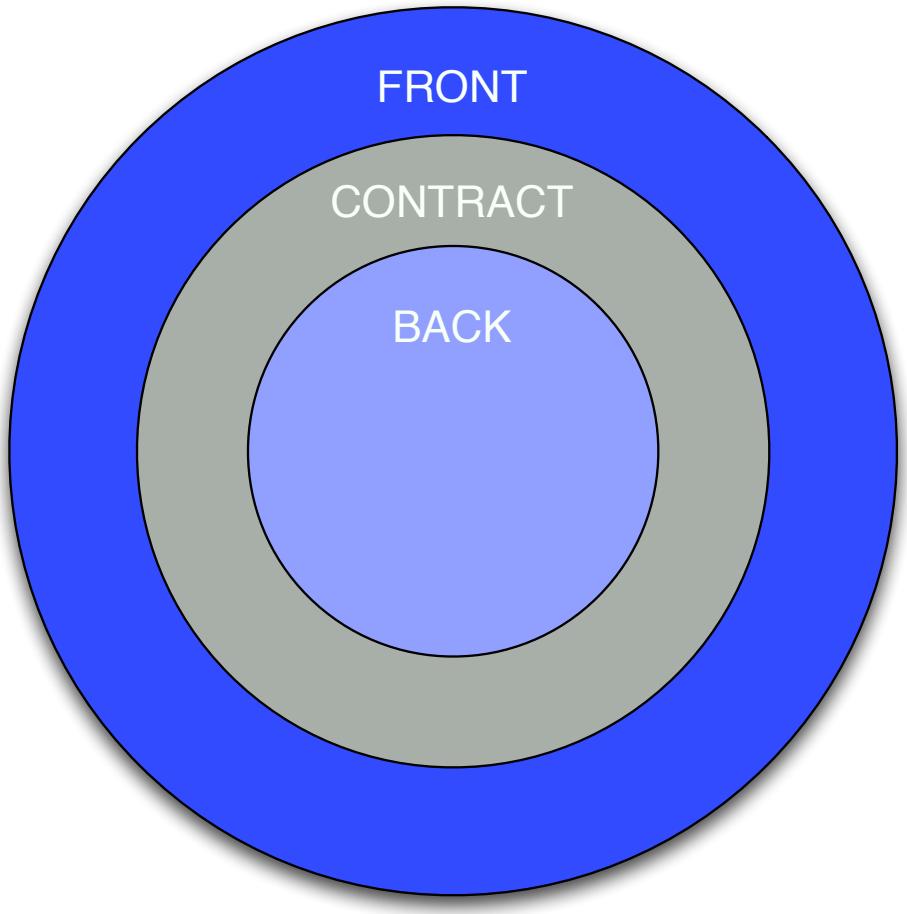
Transition - Be aware of the different life cycles



Transition - Different Contexts and Life Cycles



Transition - Virtualization by contract



Objective - Assemble rather than build

- Build was the standard way of solving problem for IT
- Rework is still a major activity in IT → we are still working on elementary function.

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Assembling everything :

- ☑ Assemble services in back-end
- ☑ Assemble data component(structured and unstructured) in information services
- ☑ Assemble graphical components in front-end

Objective - Towards an industrial process

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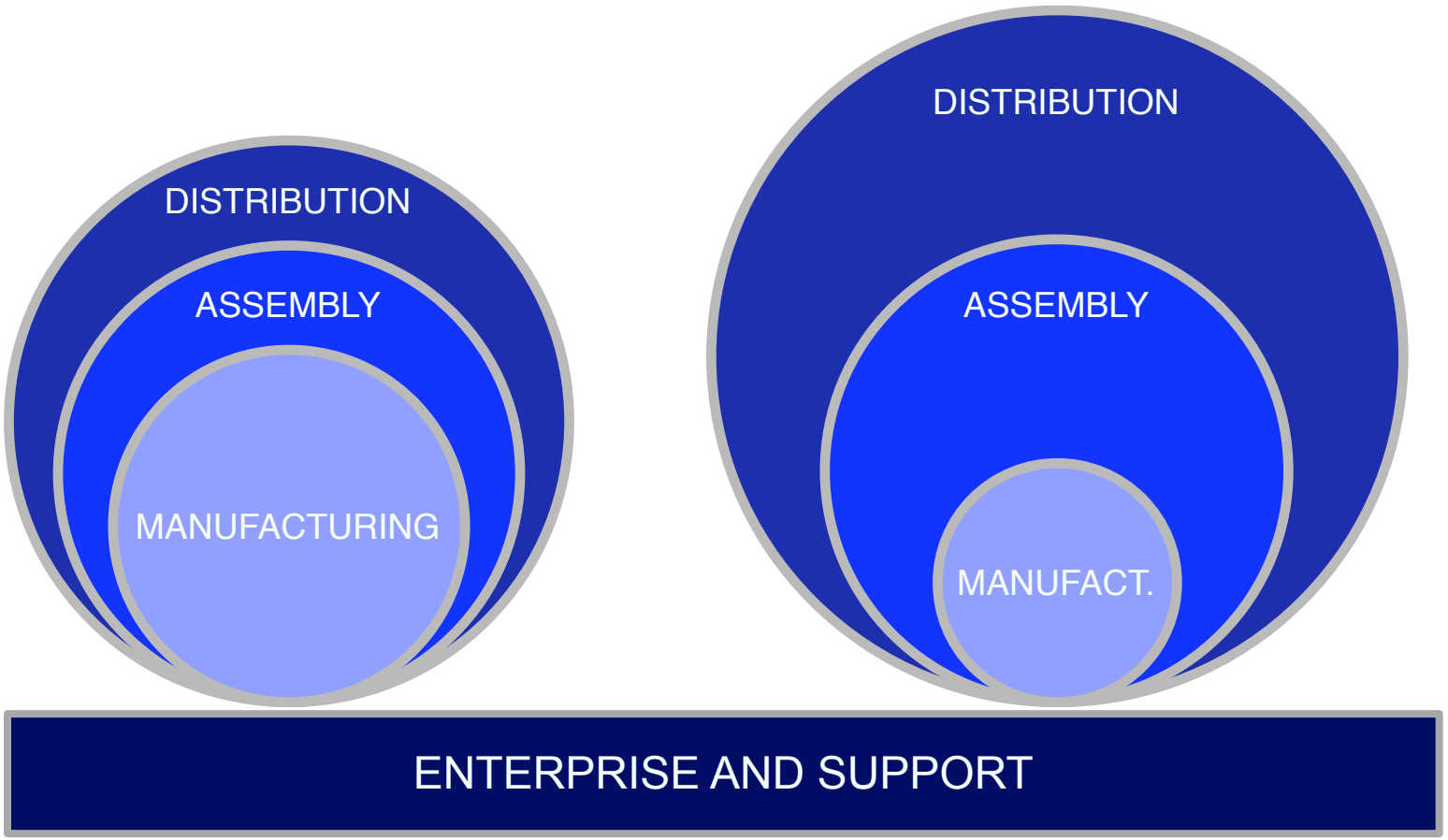


Objective - Rapid Application Development

- Still an average load of 3 days/man per screen
  - Poor reusability in front-end development
  - IDE design tools give up for complex screens
  - Struts, Tiles, taglibs, javascript, Ajax are complex

- Deliver as fast as possible
  - Deliver small component
  - Increase user feedback
  - Refine user requirement

Objective for 2007 with Flex : 1 screen - 1 man - 1 day

Objective - Rich Internet Application

- Enhance user experience
- Decision-support tools
- Disconnected mode
- Push information (real time)
- Interactive vectorial graphic
- Multimedia support
- Page flow
- Fine grained security
- User profiling
- Web deployment model

Objective - Multi Channels

- Cross platforms, cross browsers, cross devices
- Cross business unit
- Predictable experience and performance on different environments

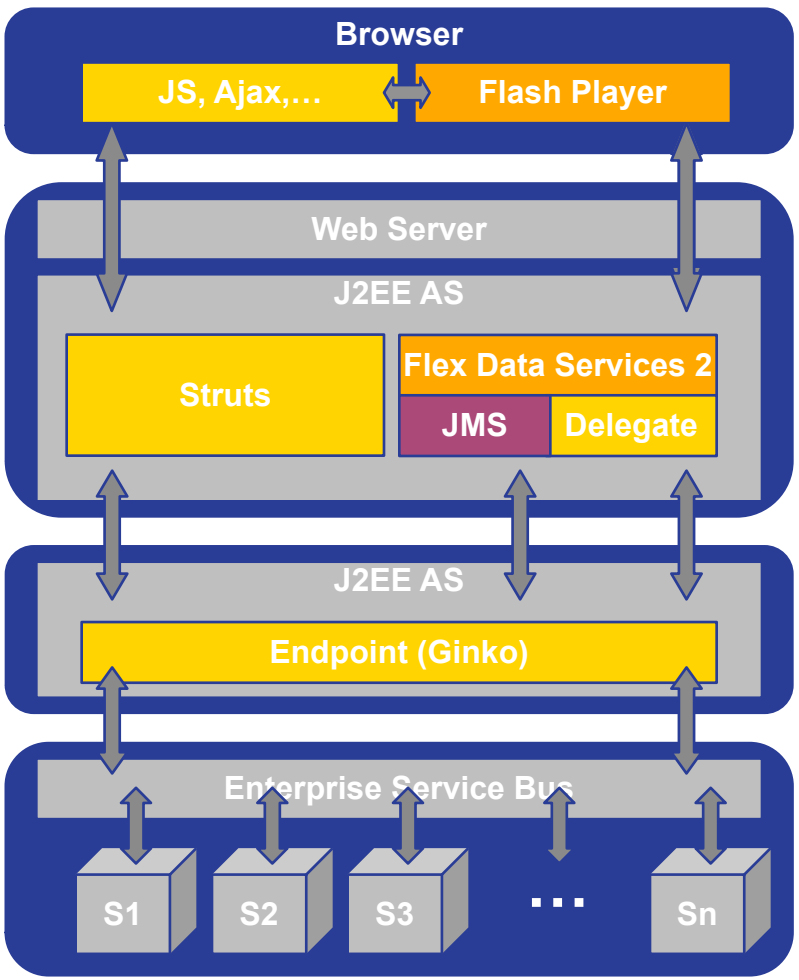
Flex - Phase 0 - A sample Portfolio Application

- Integration with Flex Data Services
  - RPC Services (Remote Object)
  - Messaging (Collaboration, Pub/Sub)
- Integration with JavaScript, Ajax (with FABridge)
- Other relevant features:
  - Implement Cairngorm
  - Internationalized
  - …
- Successfully deployed on Tomcat + ActiveMQ and on WebSphere AS V6
- Sources of inspiration:
  - « Flex and JMS: Real Time Market Data Application » by Christophe Coenraets
  - « Flex JMS Chat on Tomcat » by Fumitada Hattori
  - « Internationalized Application » by Andy Rayne

Flex - Phase 1 - Prototype

- Based on a simple module in our existing Private Banking Portal
  - In Box module
- Risk limited
- Objectives :
  - Release in december 2006
  - Refine metrics for project evaluation
  - Define best practice
  - Performance and scalability evaluation
  - Understand the amount of bandwidth that will be needed
  - Evaluate flash plugin deployment
  - Expose any kind of problem early before they have major impact on main project

Flex - Phase 1 - Prototype - Overview



Client Side Presentation Layer

Server Side Presentation Layer

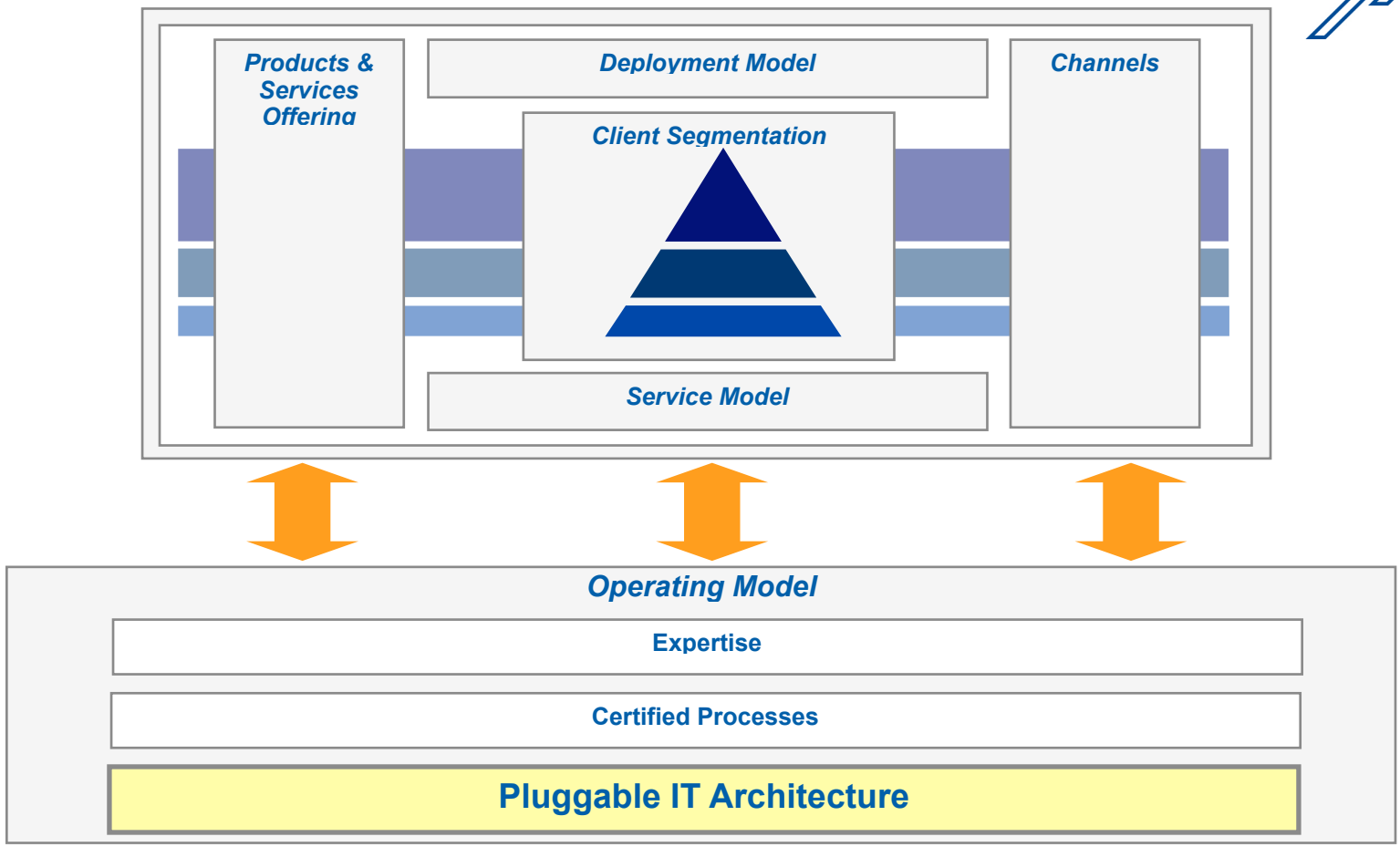
Integration Layer

Service Layer

Use Case - Vision +

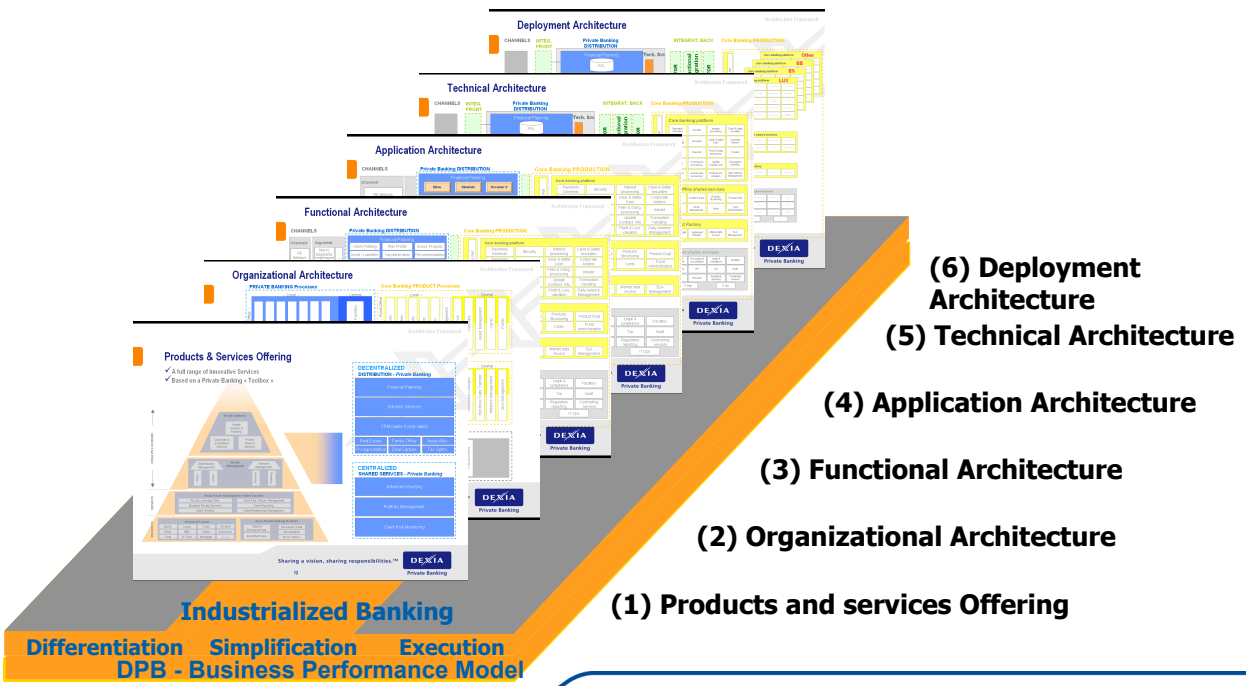
- Dexia Private Banking has redefined its growth strategy over a 10 years time horizon
- This strategy is mainly structured around international deployment (Organic, Greenfield, M&A) and some “niche opportunities”
- The support of a common Business Model through an harmonized Operating Model and Architecture is a key success factor in delivering this strategic approach
- Therefore Dexia Private Banking has launched the development of a common & flexible platform supporting the business model
- This front-office platform is independent of any core banking system

This Business Model is supported by a specific Operating Model



This Business Model is supported by a specific Operating Model

- To fuel the Business Model, the « Private Banking Tool Box » in turn needs to be supported by a dedicated IT Architecture
- Flexibility is key to lead to a « Pluggable » Architecture easily deployable



Vision + - Planning

- R1 - Prototype 06/2007
  - Limited business functionalities but complete technology stack
- New functionalities in new system and parallel run with legacy system till the end of 2007
- End of 2008 Vision+ is fully operational

Conclusions

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- Integration of Flex represents an essential evolution in applications design and development
  - loosely connected
  - increased productivity on the front-end
  - different kinds of users experiences through different kinds of development models
  - componentization of front-end
  - desktop functionalities
  - cross browsers, cross devices, cross platforms

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  - different kinds of users experiences through different kinds of development models
  - componentization of front-end
  - desktop functionalities
  - cross browsers, cross devices, cross platforms
- It's all about the business and the outcome business wants
- Standards and common practices will emerge, but in the short term you have to be creative