Stichting NIOC en de NIOC kennisbank

Stichting NIOC (www.nioc.nl) stelt zich conform zijn statuten tot doel: het realiseren van congressen over informatica onderwijs en voorts al hetgeen met een en ander rechtstreeks of zijdelings verband houdt of daartoe bevorderlijk kan zijn, alles in de ruimste zin des woords.

De stichting NIOC neemt de archivering van de resultaten van de congressen voor zijn rekening. De website www.nioc.nl ontsluit onder "Eerdere congressen" de gearchiveerde websites van eerdere congressen. De vele afzonderlijke congresbijdragen zijn opgenomen in een kennisbank die via dezelfde website onder "NIOC kennisbank" ontsloten wordt.

Op dit moment bevat de NIOC kennisbank alle bijdragen, incl. die van het laatste congres (NIOC2023, gehouden op donderdag 30 maart 2023 jl. en georganiseerd door NHL Stenden Hogeschool). Bij elkaar bijna 1500 bijdragen!

We roepen je op, na het lezen van het document dat door jou is gedownload, de auteur(s) feedback te geven. Dit kan door je te registreren als gebruiker van de NIOC kennisbank. Na registratie krijg je bericht hoe in te loggen op de NIOC kennisbank.

Het eerstvolgende NIOC vindt plaats op donderdag 27 maart 2025 in Zwolle en wordt dan georganiseerd door Hogeschool Windesheim. Kijk op www.nioc2025.nl voor meer informatie.

Wil je op de hoogte blijven van de ontwikkeling rond Stichting NIOC en de NIOC kennisbank, schrijf je dan in op de nieuwsbrief via

www.nioc.nl/nioc-kennisbank/aanmelden nieuwsbrief

Reacties over de NIOC kennisbank en de inhoud daarvan kun je richten aan de beheerder:

R. Smedinga kennisbank@nioc.nl.

Vermeld bij reacties jouw naam en telefoonnummer voor nader contact.

Enterprise Architecture within ING
NIOC 2013

Henrik van Bruggen

Arnhem, 5 april 2013
www.ing.com

Introduction

Distinguished Chief Architect ING bank

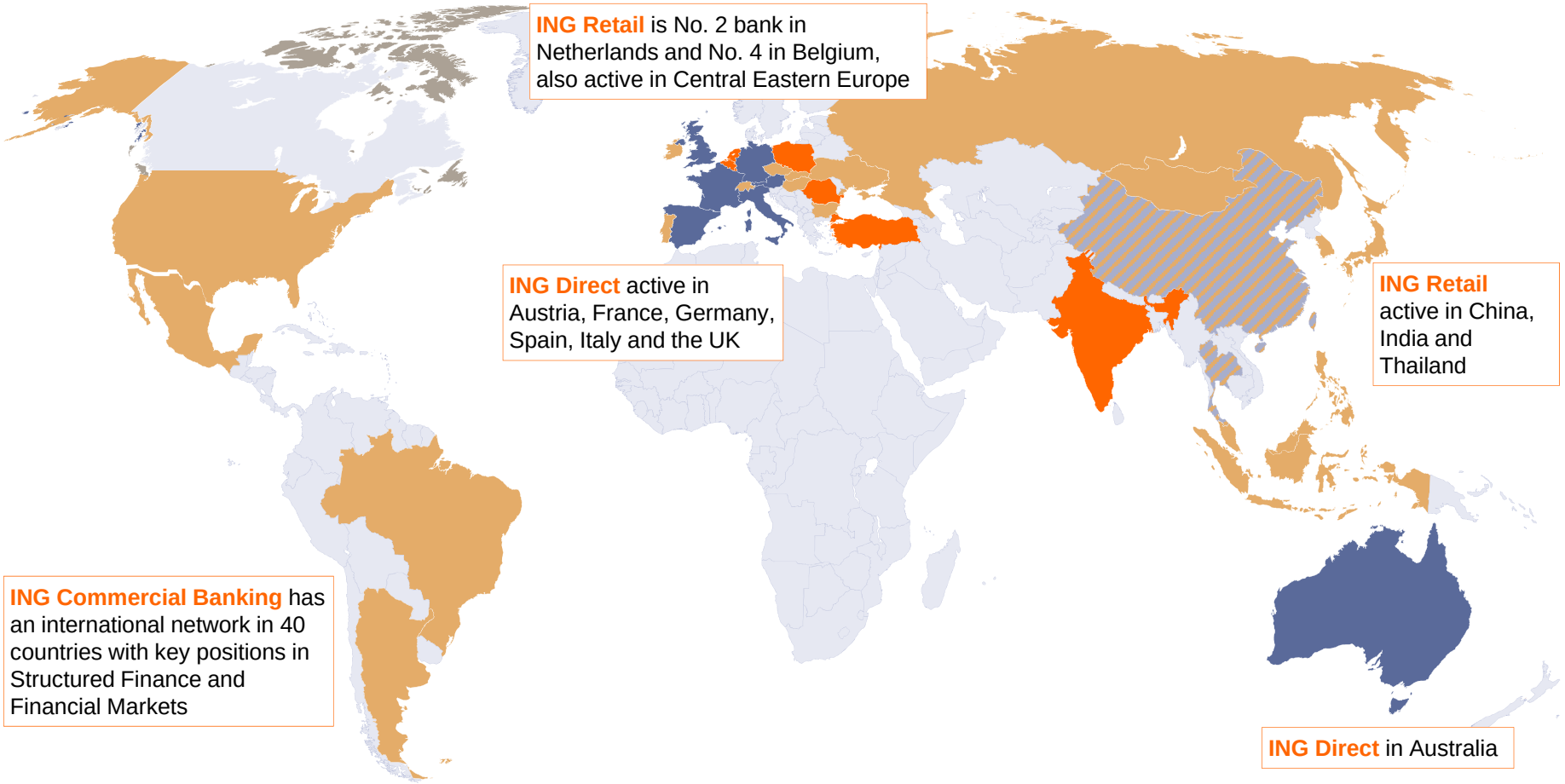
Application Architecture ING Netherland

Infrastructure Architecture Global ING

Since 1995 working for ING in various roles

ING

ING Bank worldwide



Life of an architect within ING

A1

A1 Wordle.net

Author; 12-11-2012

What is architecture?

Definition architecture ISO/IEC 42010: 2007 :

“The fundamental organization of a system, embodied in its components, their relationships to each other and the environment, and the principles governing its design and evolution.”

Architectuur dient om richting te geven aan ontwerp en realisatie van processen, organisatorische inrichting, informatievoorziening en technische infrastructuur van de organisatie

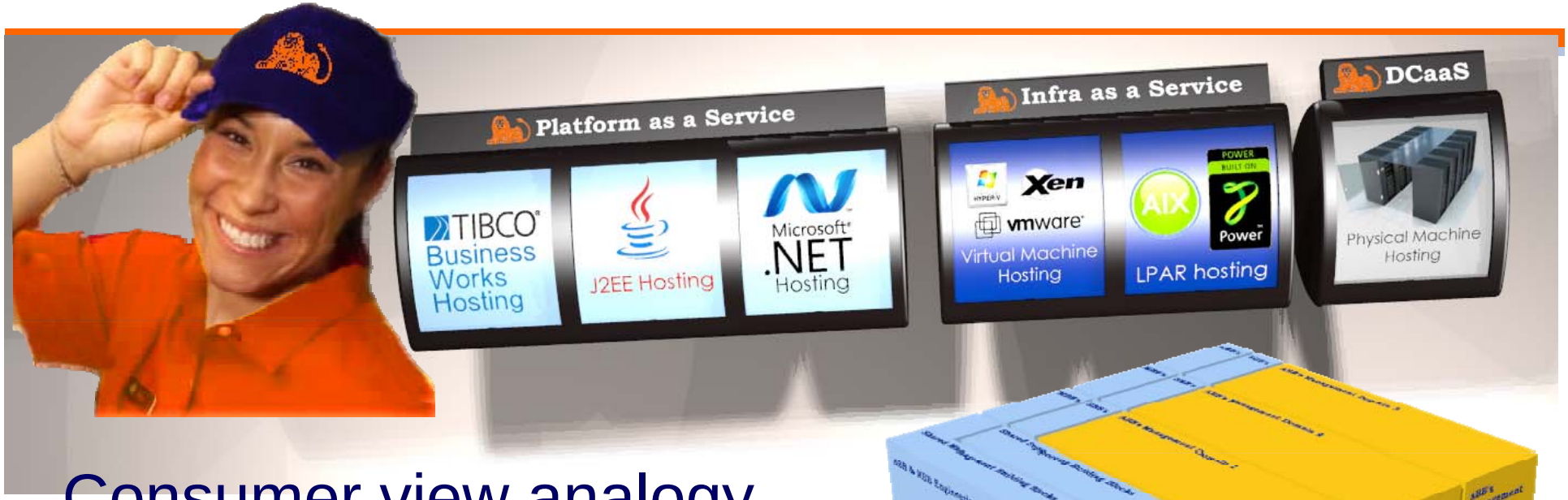
Architectuur is in deze zin dus een managementinstrument dat gebruikt kan worden om verandertrajecten te besturen

Having *impact* with architecture….

It takes more then structuring and modeling on paper

- Create a Business Framework
- Constant dialogue with your business
- Communicate in a language your business understands
- Create an Architecture Framework
- Manage by architecture roadmaps
- Governance that supports your roadmaps
- Architects that Inform & Inspire
- ……..

by creating simplicity….



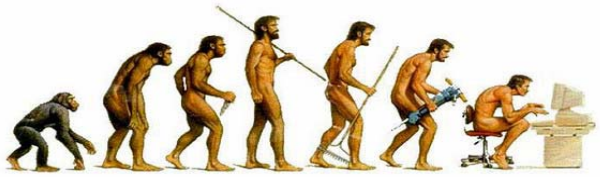
Consumer view analogy

Outside in view — Infrastructure service equivalents

ING

…. based on a clear DRIVER

- *Our* business Strategy, who do *we* want to be…
- *Our* History (legacy), what made *us* today ….
- Capabilities of IT, that what *we* can realize…



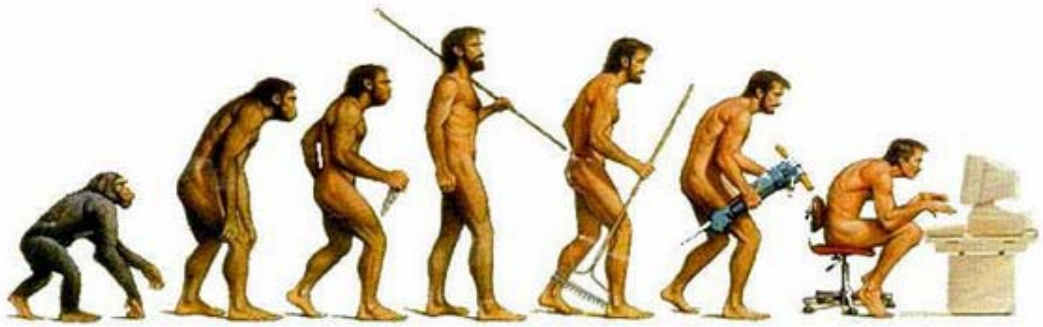
Drivers of *our* Architecture

Our business Strategy, who do we want to be

Let's look at a couple of challenges for banks….

…we need other channels to build up trust… putting focus on our real-time customer view

Drivers of *our* Architecture



Our History (legacy), what made *us* today ….

Evolution as a Driver

1965
Automated Enterprise

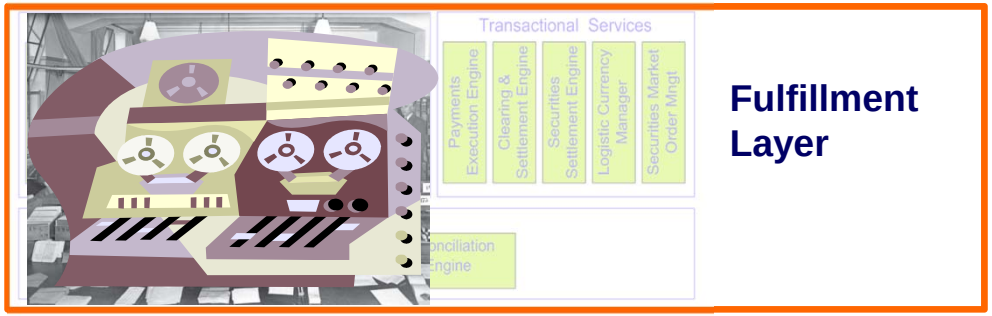
1986
Connected Enterprise

2005
Integrated Enterprise

2015
Real-Time Enterprise

202x
Predictive Enterprise

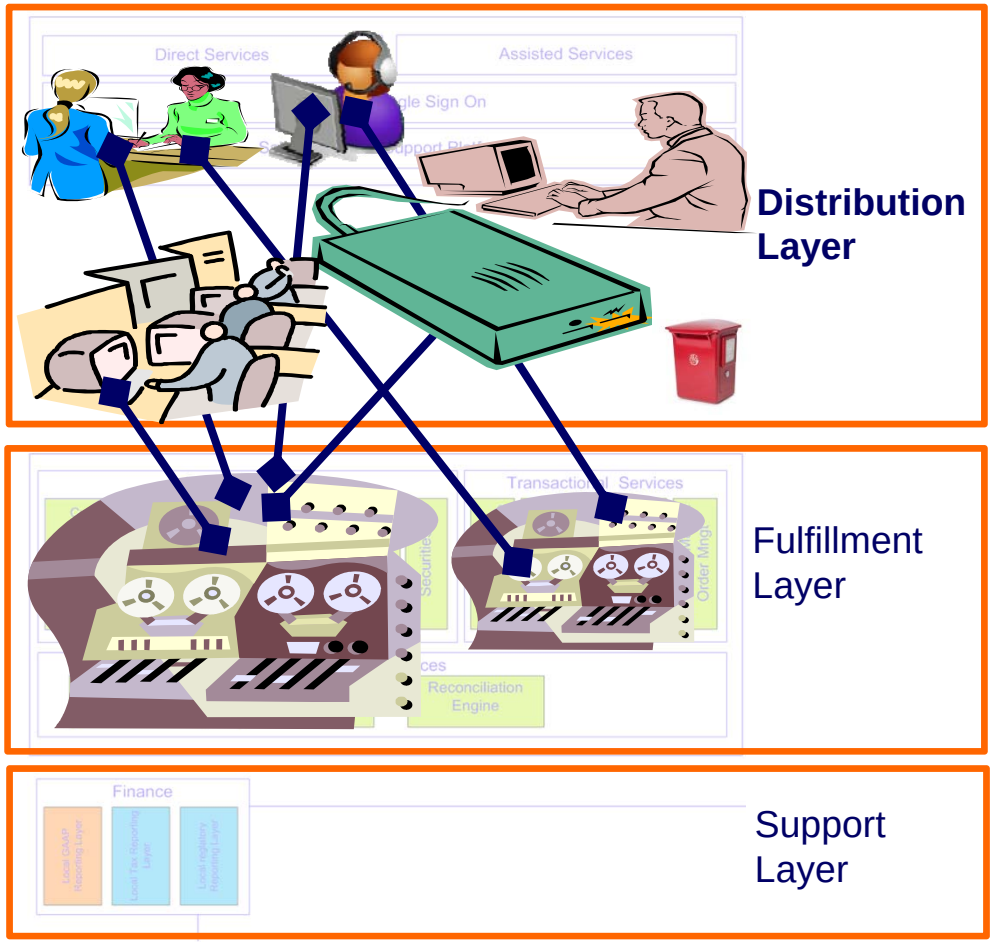
Automated Enterprise (1965)



ING's Logical Application Architecture Framework

- Administration and booking of payments automated
- Drivers: growth and efficiency

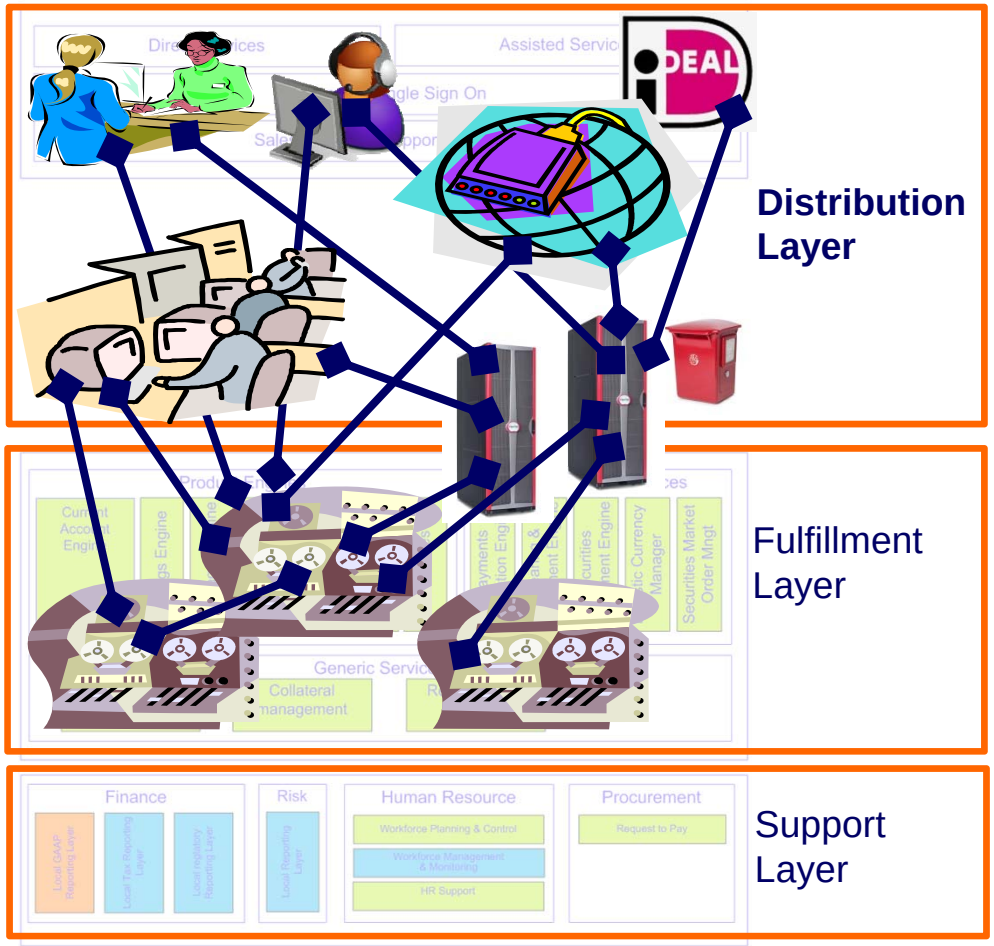
Connected Enterprise (1986)



ING's Logical Application Architecture Framework

- Introduction of Girotel, payments; Direct Channel to the back office Systems
- Back Office became visible to customers (or not)
- Drivers: Speed & Convenience

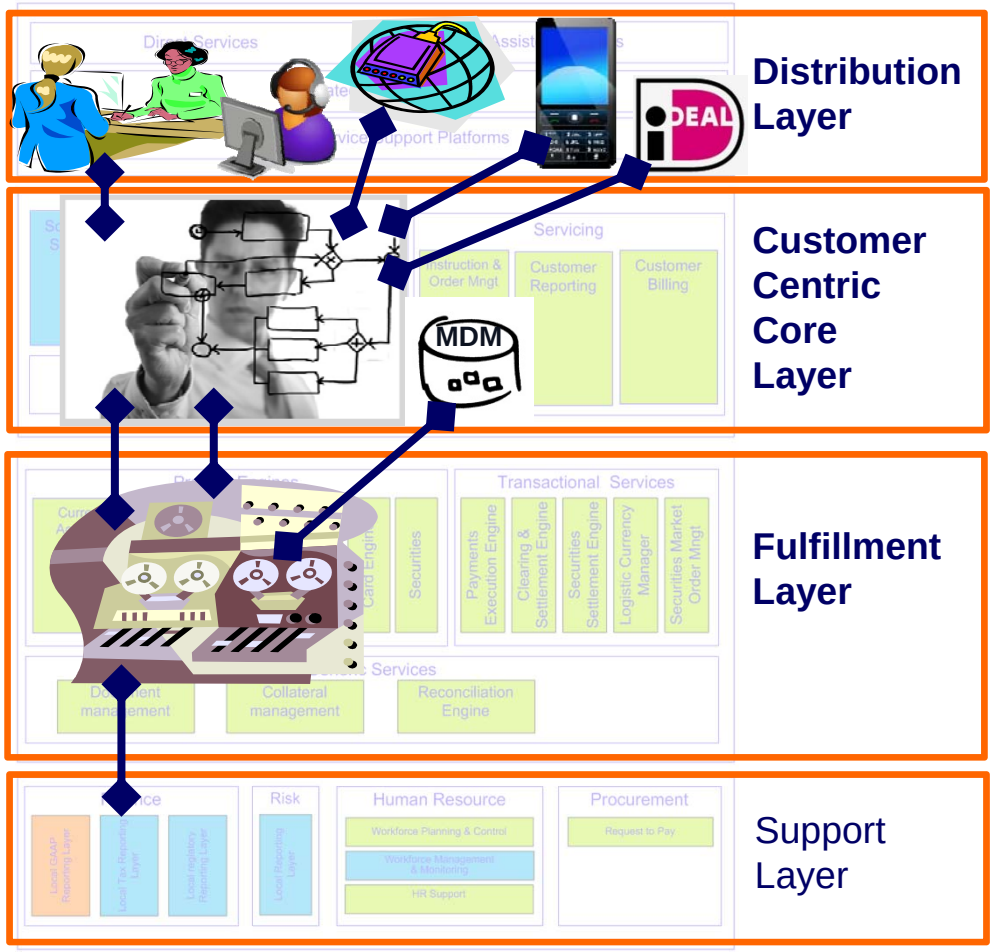
Integrated Enterprise (2005)



ING's Logical Application Architecture Framework

- Multi Channel (7x24)
- Near Real Time by Portals
- Complex customer view
- High integration cost
- No STP

Real Time Enterprise (2015)

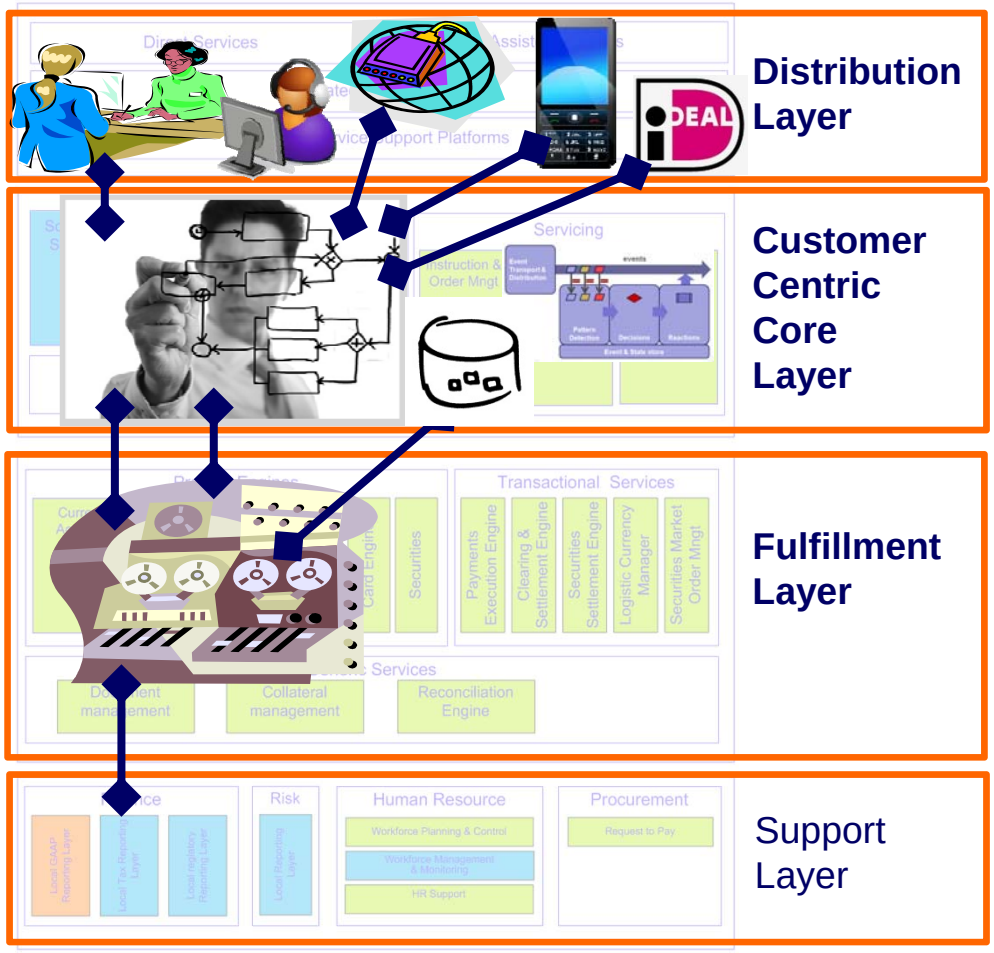


- Multi Channel experience (7x24)
- **Mobile Channel (!)**
- Real Time & STP processes
- Flexibility by BPM technology
- Central Customer View
- Core Bank Package
- Agility in Development
- Lower integration costs

required to take next step

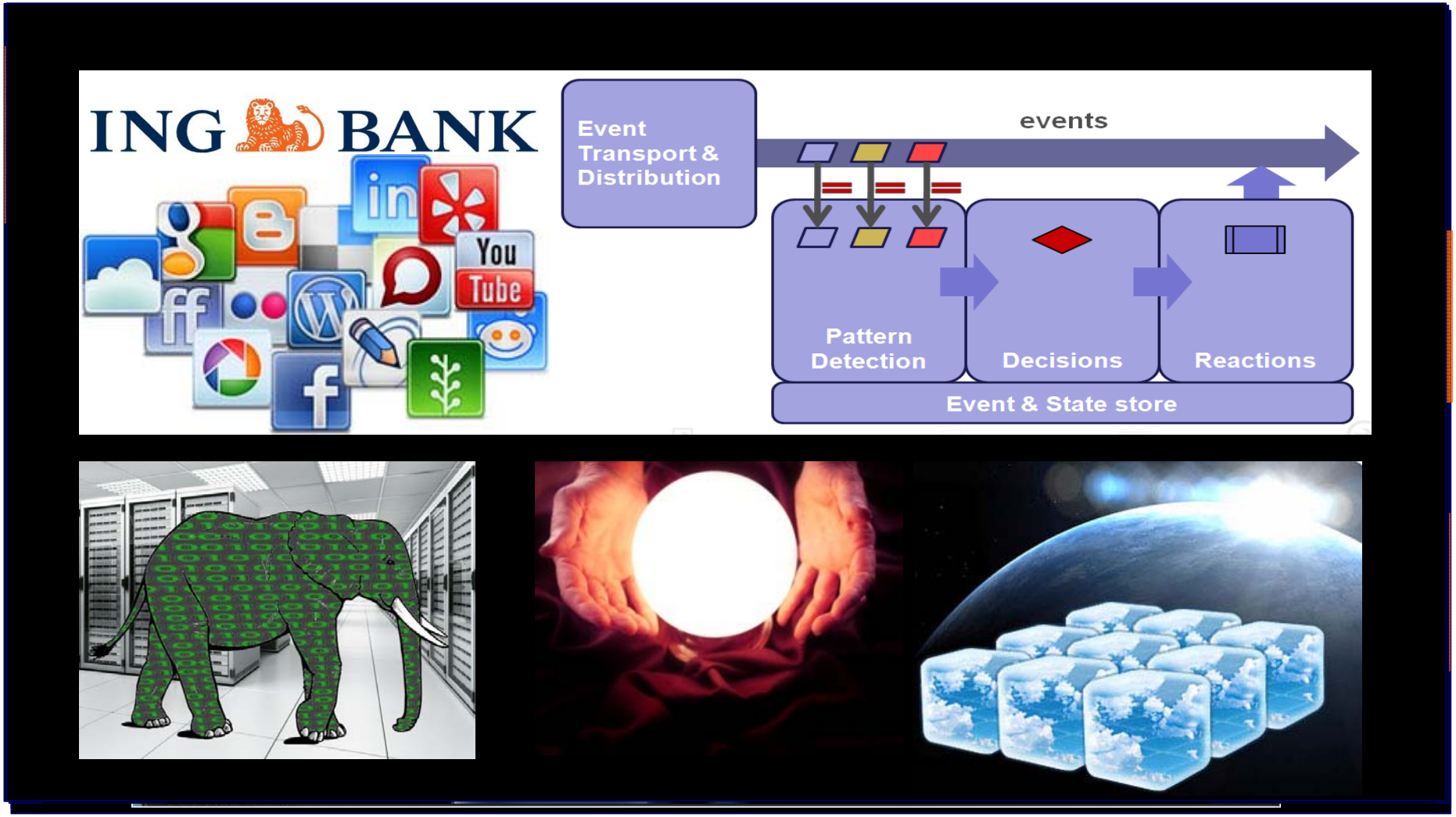
ING's Logical Application Architecture Framework

Predictive Enterprise (202x)



- Multi Channel experience (7x24)
- Mobile Channel (GEO)
- Instant interaction
- Social Mining
- Use the information you have from your customer
- Active Fraud prevention

Predictive Enterprise (202x)



other elements that accelerate your business

- Sandbox as soon as possible, together with your business
- Align Business, Application *AND* Infrastructure Architecture
- Be closely aligned with the Scrum Teams
- Always prepare the next step….

This makes architecture DRIVE your business

ING

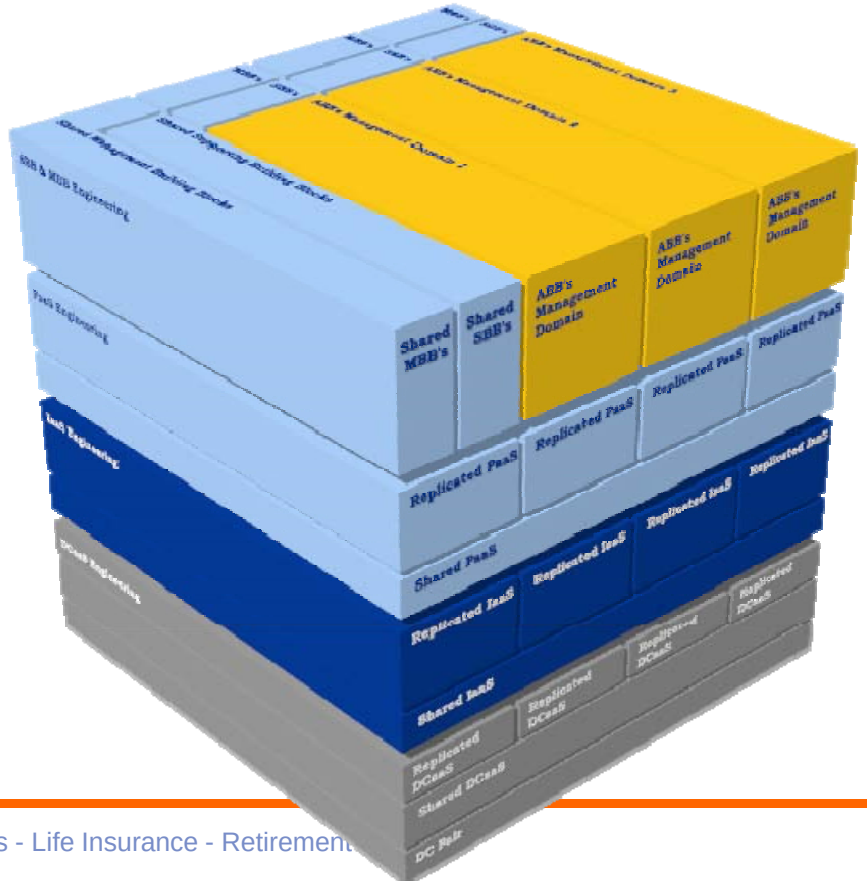
Thank you!!

Target state 2012-2017
Hybrid infrastructure services

Application-, Supporting-, and

Management Building Blocks

(ABB's, SBB's and MBB's)



DRAFT