

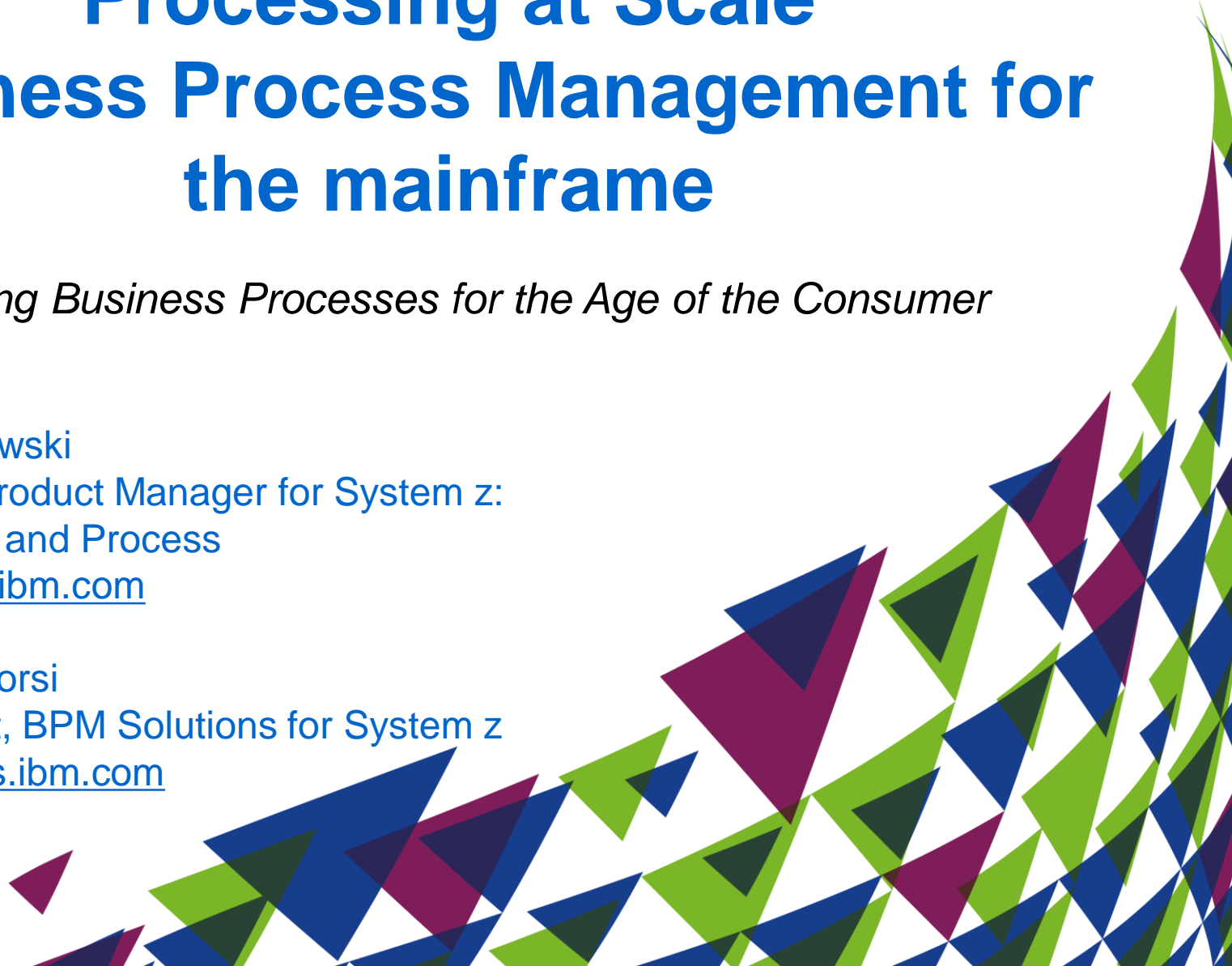


# Driving Straight-Through Processing at Scale Business Process Management for the mainframe

*Reinventing Business Processes for the Age of the Consumer*

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# What do you need from your processes in the age of the customer?

*Processes must be:*



## Instant

**At Internet speed**

47% of online bank account opening applicants don't successfully complete the process and fund their accounts

## Seamless

**Interconnected & ubiquitous**

In the US, mobile banking jumped to 32% of customers in 2012 up from 21% in 2011



## Insightful

**Targeted and relevant**

47% say it frustrates them when companies don't use the information they have to make interactions and offers more relevant

# Reinvent Processes for the Age of the Consumer

## Centralized Visibility & Control

# IBM Business Process Manager

### Instant

*Mobile aware and real-time collaboration* enable immediate actions that drive better business outcomes



### Seamless

Tight integration to **Systems of Record** enables enterprise-wide process improvement

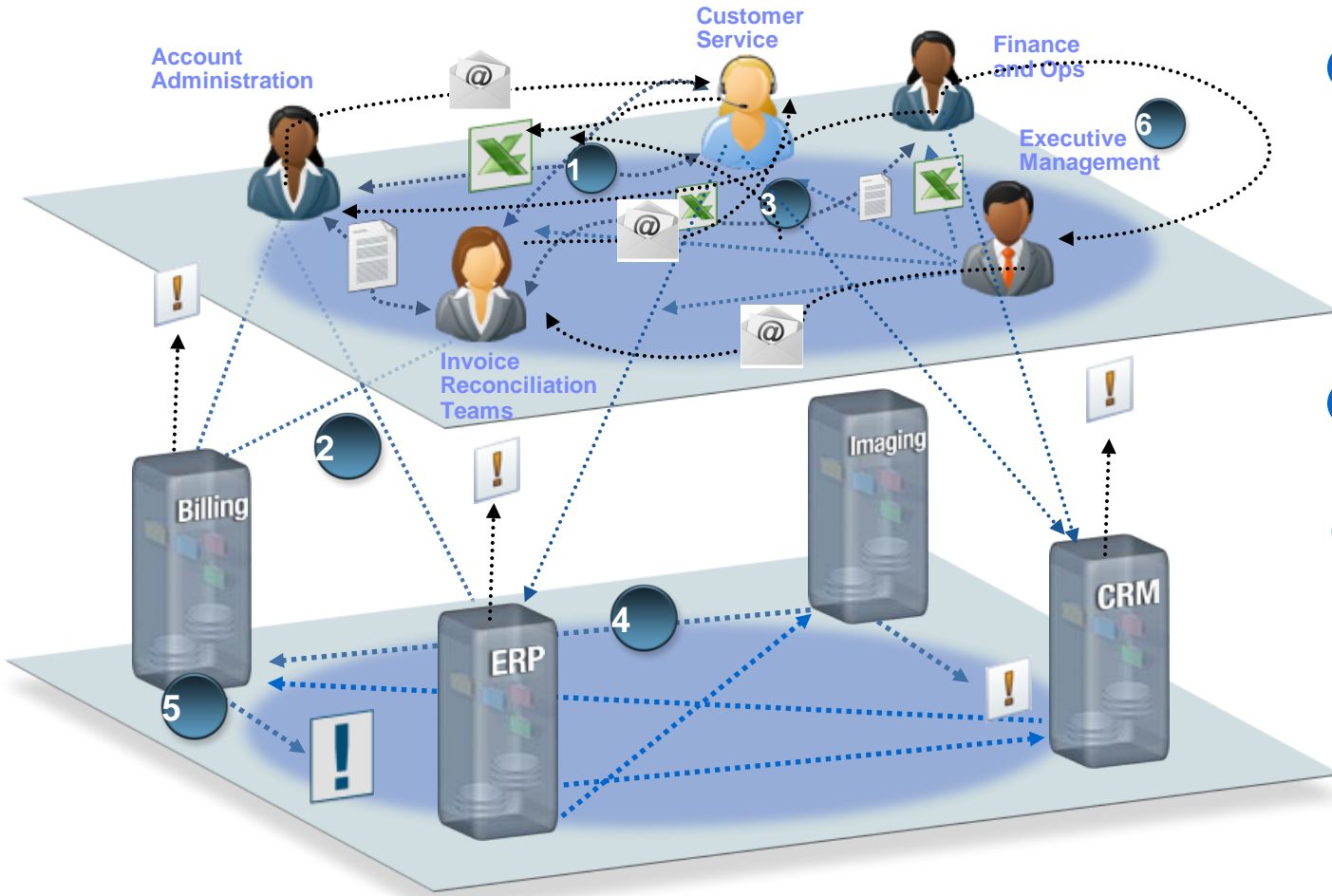


### Insightful:

*Robust analytics* provide comprehensive insights into process activities

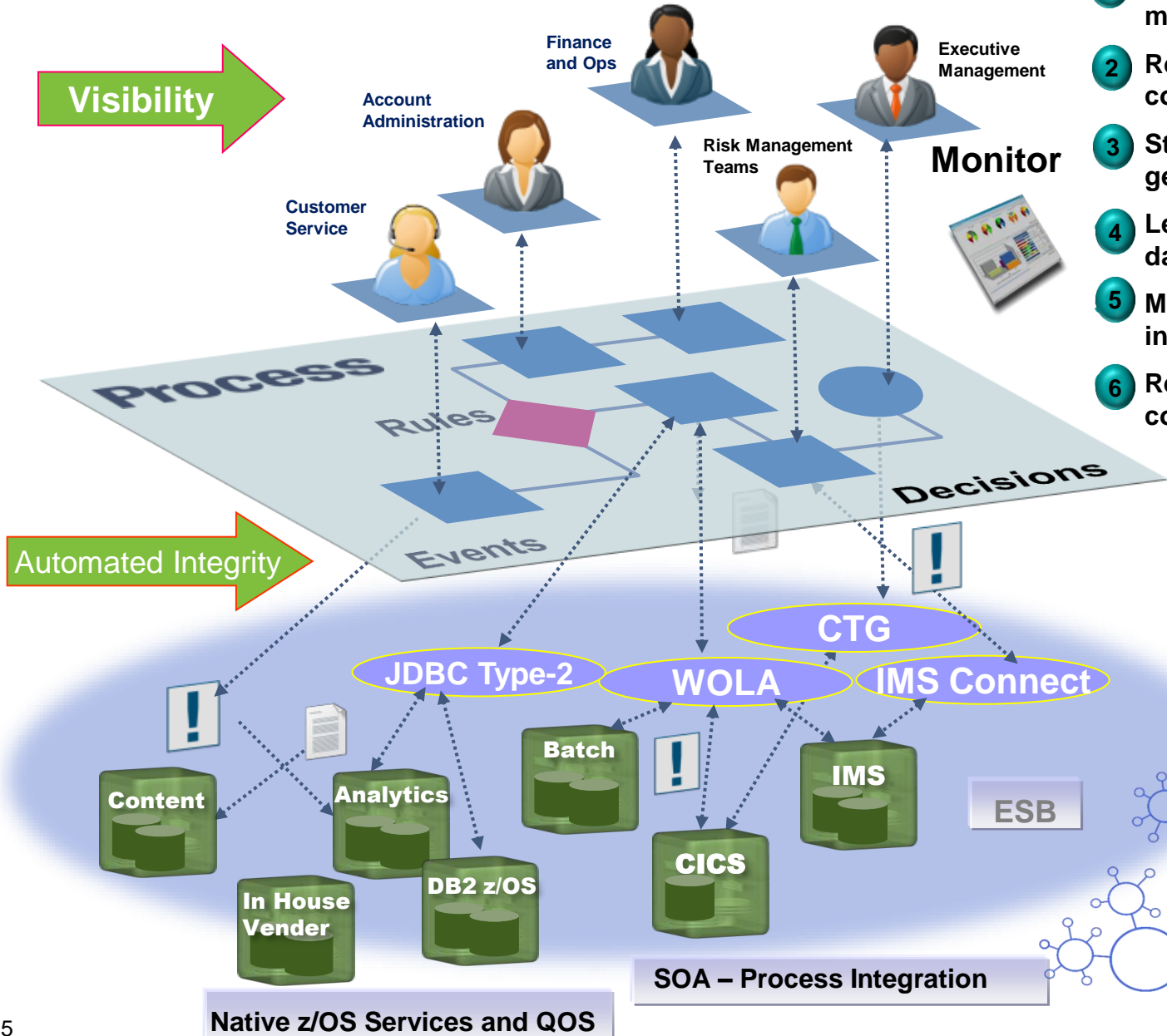


# “Business As Usual” Begs for Operational Improvement



- 1 Unstructured Tasks and Communication (ex Paper or email)
- 2 Inefficient Working Environment Spans Systems
- 3 Inconsistent Prioritization
- 4 Incomplete or Inaccurate Data Flow Between Systems
- 5 Lack of Control Over System and Business Events (Exceptions)
- 6 Poor Visibility Into Process Performance

# Bringing Order to the Chaos for z/OS



- 1 Automate workflow & decision making
- 2 Reduce errors and improve consistency
- 3 Standardize resolution across geographies
- 4 Leverage existing systems and data
- 5 Monitor for business events and initiate actions
- 6 Real-time visibility and process control

**Customer Benefits:**

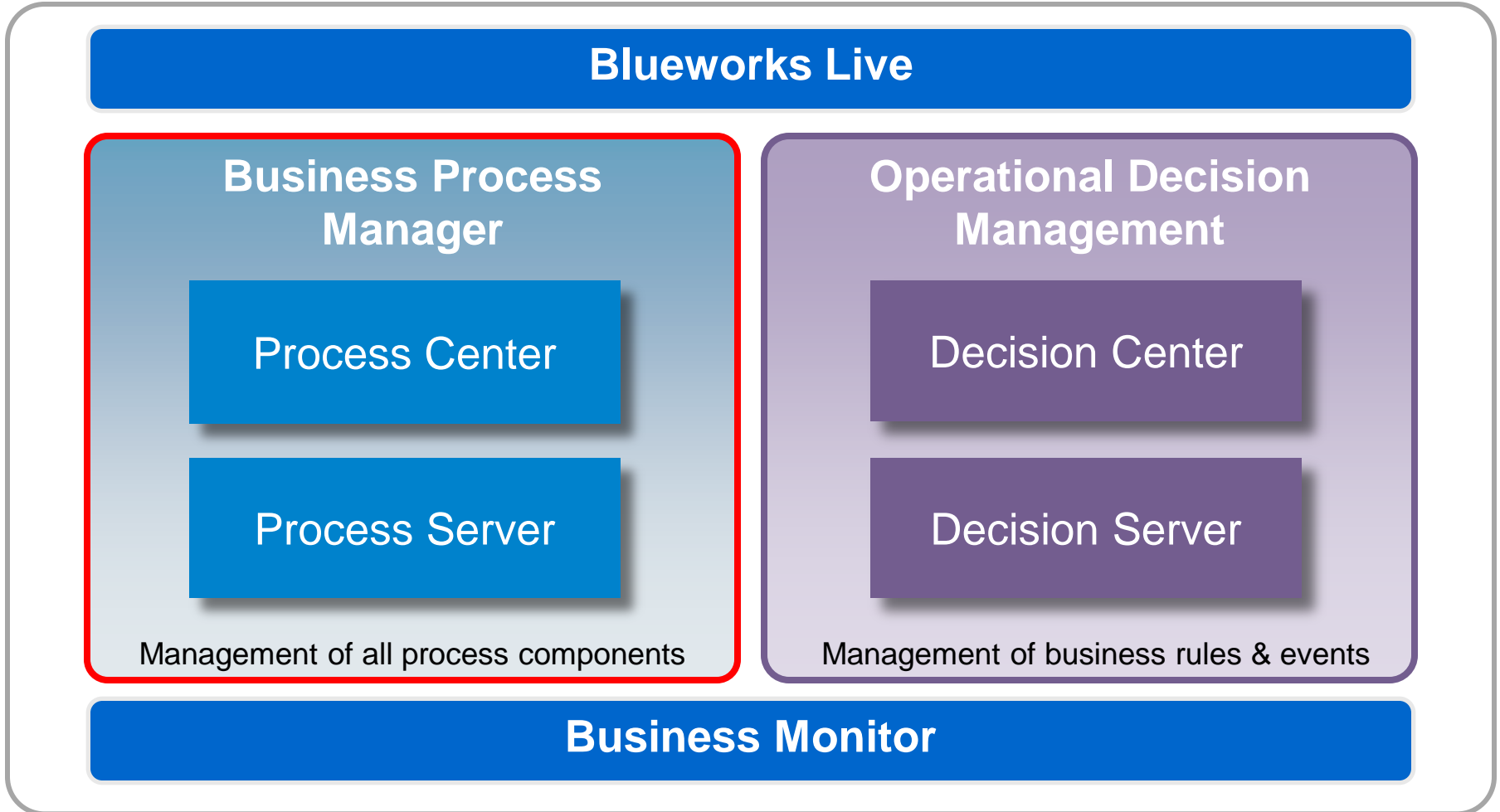
- ✓ Huge reduction in manual work
- ✓ Consistent work prioritization
- ✓ Easier to manage the business
- ✓ Consistent work handling
- ✓ Faster, more consistent Issue resolution

Native z/OS Services and QOS

SOA – Process Integration



# IBM Products for Business Process & Decision Management



Work together to deliver effective solutions for business operation improvement

# IBM Business Process Manager v8.5

*Visibility and control of business processes*

## Client Value

*A powerfully simple platform that provides visibility and control to optimize business processes and empower business users to be agents of change*

## What's New?

### Mobile

Infuse mobile insights into business processes using Worklight and IBM BPM mobile toolkit to extend process applications to mobile

### Cloud

Designed to accelerate BPM adoption, IBM Business Process Manager v8.5 now delivered as a cloud offering

### Performance Dashboard

Empower business users to collaborate and act on observed insights with next-generation process performance dashboards

### New and enhanced versions

IBM Business Process Manager v8.5

*Cloud:* IBM Business Process Manager on Cloud

*PureApplication System:* IBM Business Process Manager Application Pattern v8.5

*z/OS:* IBM Business Process Manager for z/OS v8.5



# Automate and Manage Mission-Critical Applications

## IBM® Business Process Manager for z/OS V8.5

- Supports **automation** of business and system processes across z/OS core business applications
- Built-in dashboards** to help improve business process outcomes and enable the creation of custom dashboards
- Delivers high scalability and transactional integrity for **automated straight through processing** supporting thousands of transactions per second
- Takes advantage of WebSphere Optimized Local Adapter (WOLA) technology for **high-speed integration** with co-located COBOL, PL/I, and assembler applications in CICS, IMS, or batch environments at in-memory transfer speeds



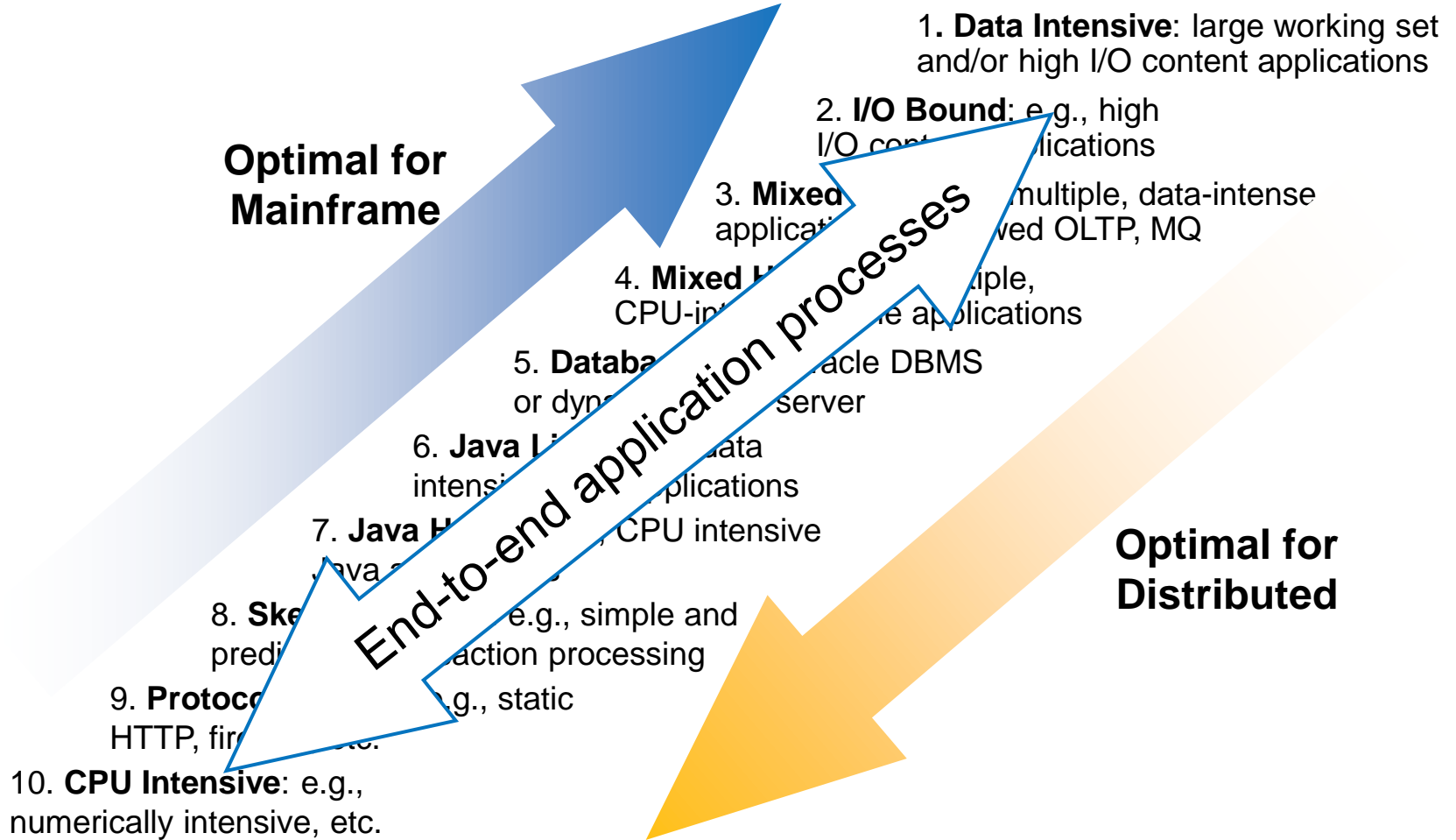
### What's new

- Simplified installation, configuration, and administration on z/OS to help reduce time and effort
- Performance and process instance details dashboards
- Exploits improved sharing of IBM WebSphere MQ and IBM DB2 resources to support high-availability configurations
- BPM Advanced Only Configuration

*Manage core business processes with high integrity and enhanced visibility*



# Hybrid architectures can better enable optimization



# Why z/OS for Business Process Management?

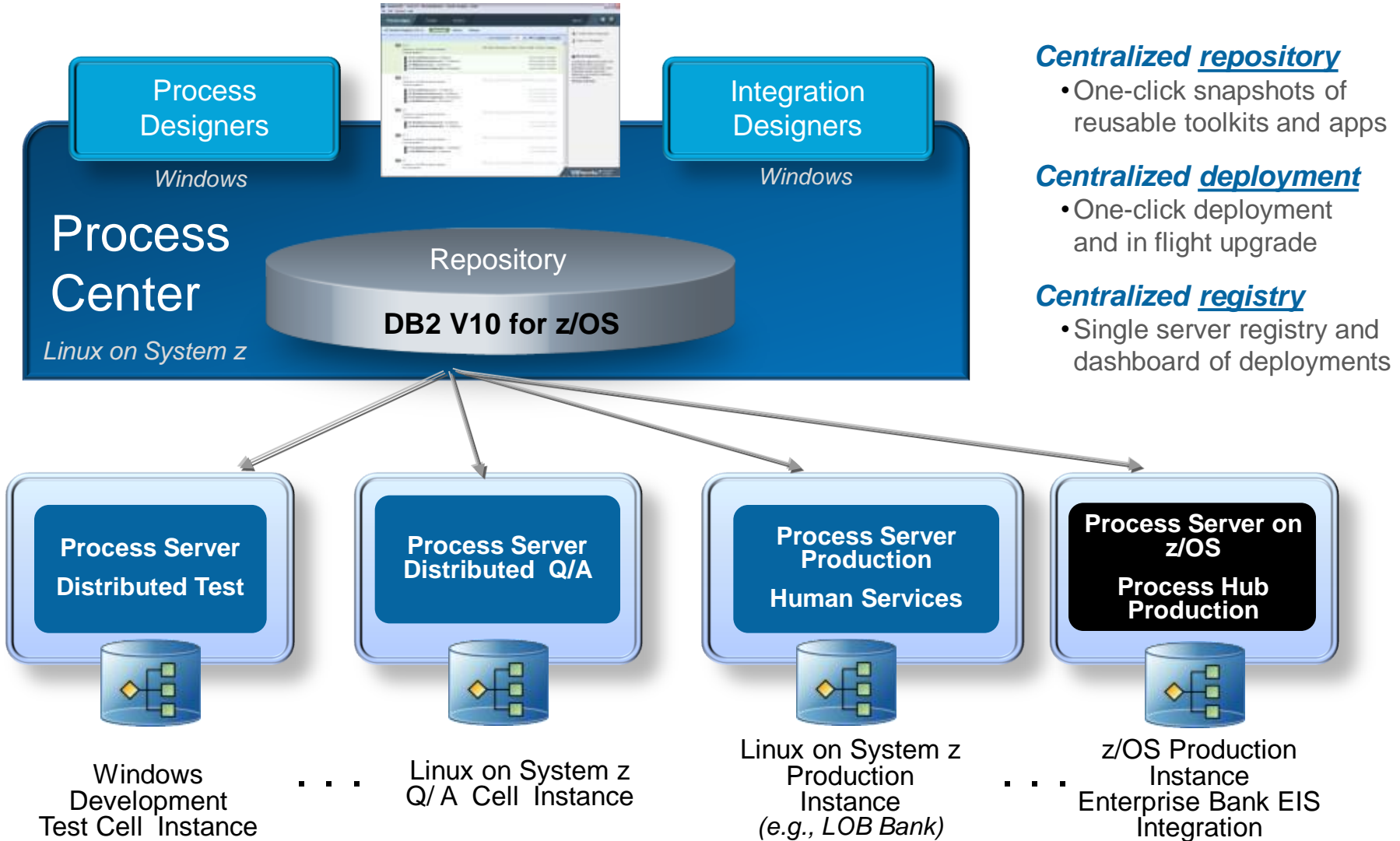
- z/OS Qualities of Service - Availability & Performance
  - Business Processes are business critical applications
  - Need availability: 99.999% of the time!
  - Need to be able to scale: thousands of trans per second
  - Excellent 2PC (Global Transaction Coordination) across mission critical SOR's
- Co-Location with key Mainframe Applications
  - Transactional engines including CICS and IMS
  - Batch work streams
  - Business data stores
  - It's Faster and handles more throughput
  - Ideal for Automated Straight through Processes and Service Choreography
- WOLA Adapters – the ultimate Co-Location
  - Zero network latency: Cross memory access Batch and CICS using Assembler, Cobol, PL/I, C or C++ applications
- zAAP Offload capable
  - Workloads can be 70 -80% zAAP eligible



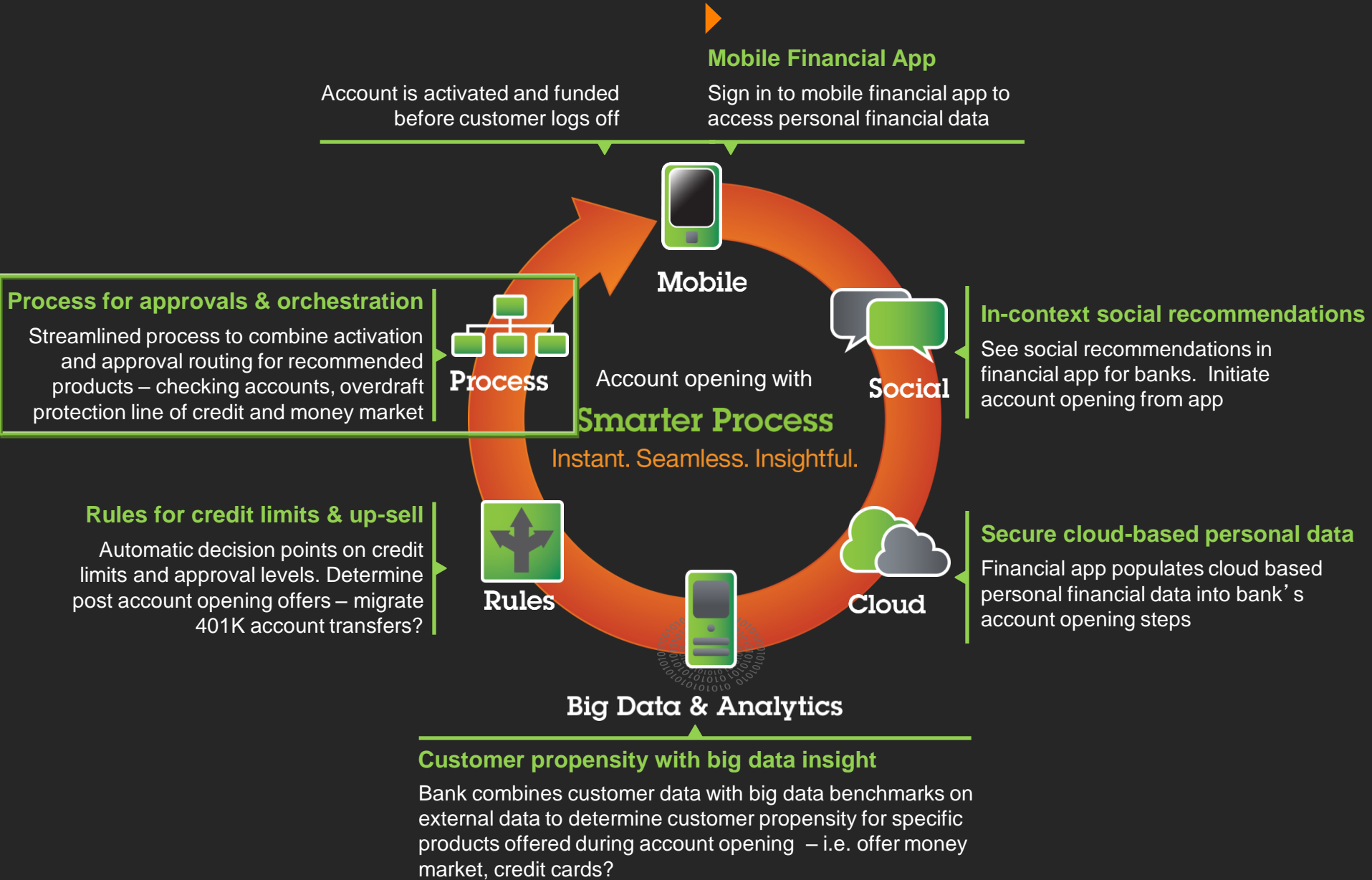
# Hybrid Business Process Management Topologies



Centralized Deployment  
Control Panel & Dashboard



# Reinventing account opening with Smarter Process

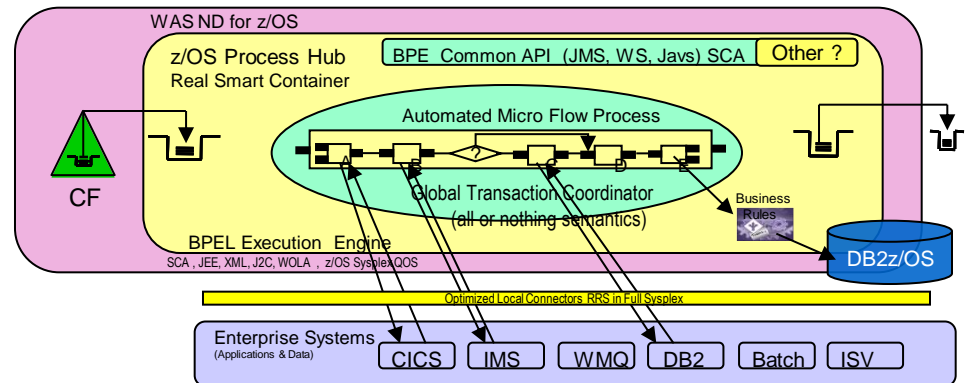


# Process Hub – Straight Through Processing on z/OS

- SOA for Process:
  - Coordinated re-use of existing CICS, IMS and datastore access investment to provide a business process “service”
- Composite high value transactions:
  - Orchestrated workflow within a recoverable transaction context
- Composite high volume workflows:
  - Highly scalable automated batch workflow with strict SLA requirements
- Process Hub on z/OS
  - Integral part of a broader hybrid environment BPM solution

“Fit for Purpose” Process Deployment

- Offer assured transactional integrity
- Low latency process orchestration through co-location
- Combine business decisions with SOA style asset reuse
- Integrate with business policy (ODM), enterprise messaging backbone (MQ/ISB)
- Integrates with Sysplex configurations and GPDS recovery solutions

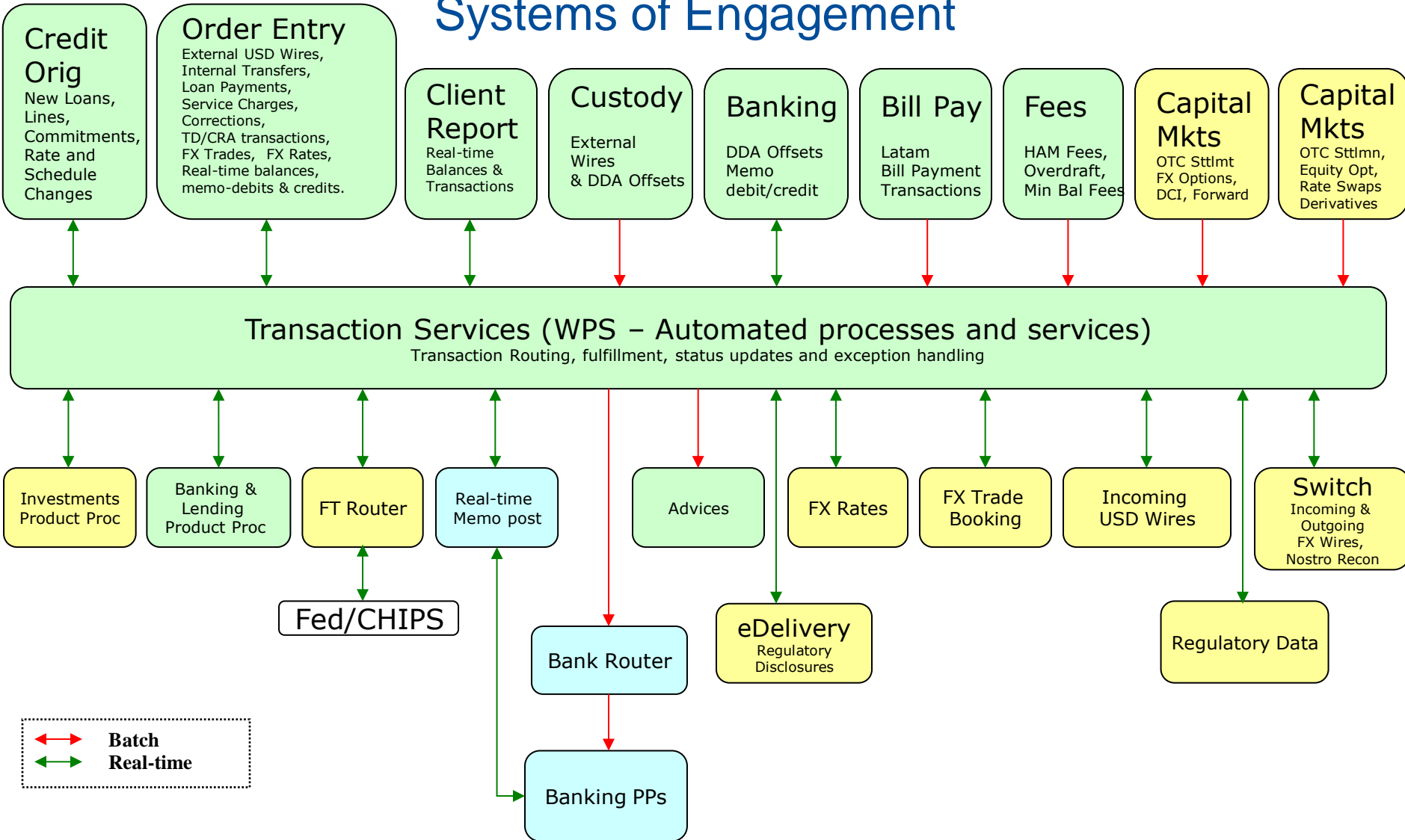


*Opportunities across industries – e.g. Banking , Insurance ,Least Cost Routing, Order Validation, Fraud Detection and Transactional Risk Management*



# Client Use Case: Transaction Services - Integrating SoEs with SoRs

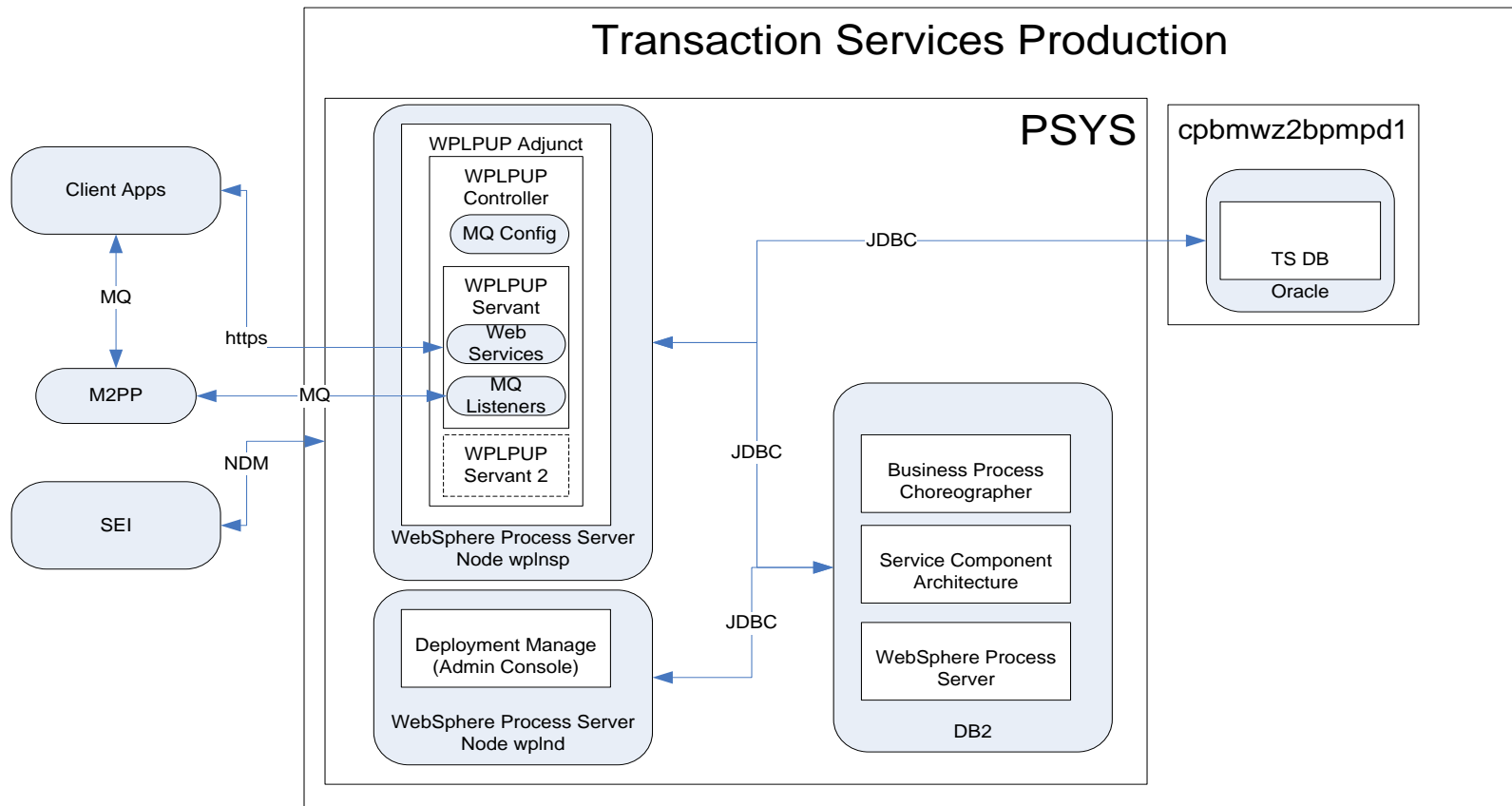
## Systems of Engagement



## Systems of Record

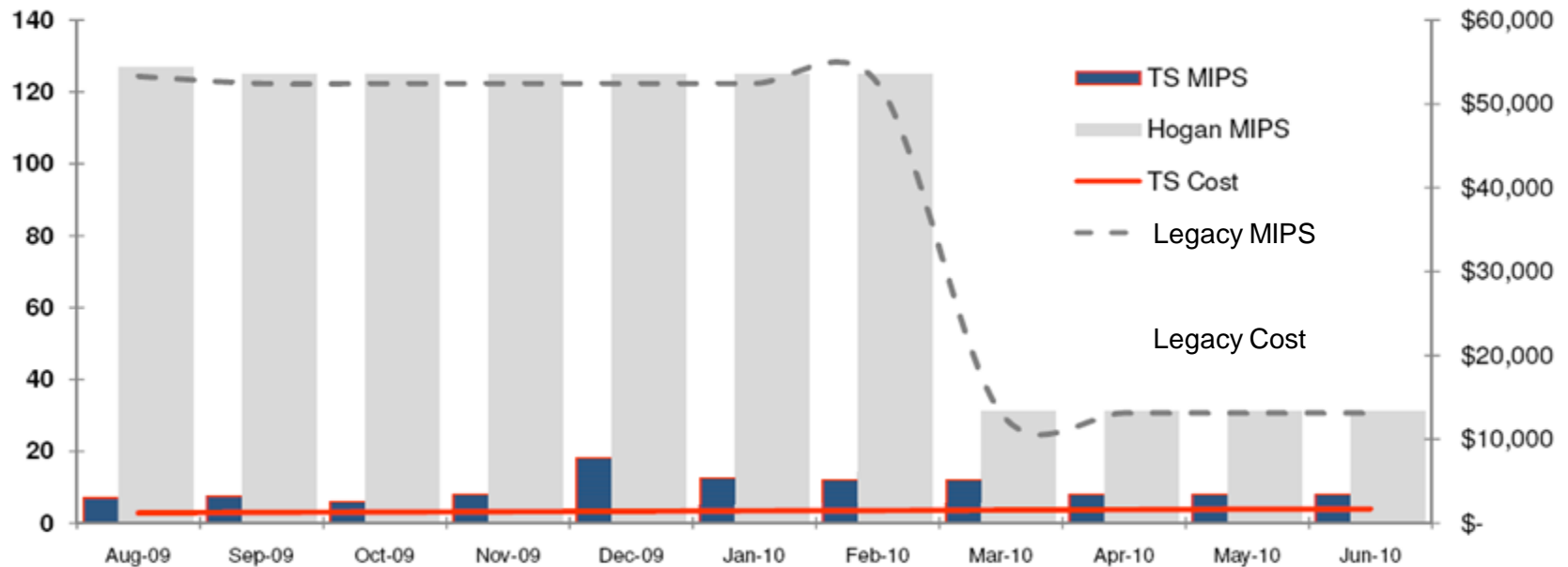
# Client Use Case: Transaction Services

- Built on WebSphere Process Server
- Live since 2009
- Communication via Web Services, Asynchronous MQ, and Synchronous MQ
- All services run in one cluster.
- All calls are microflows

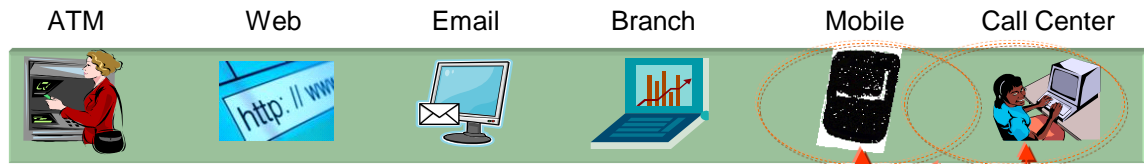


# Client Use Case: Still seeing substantial savings

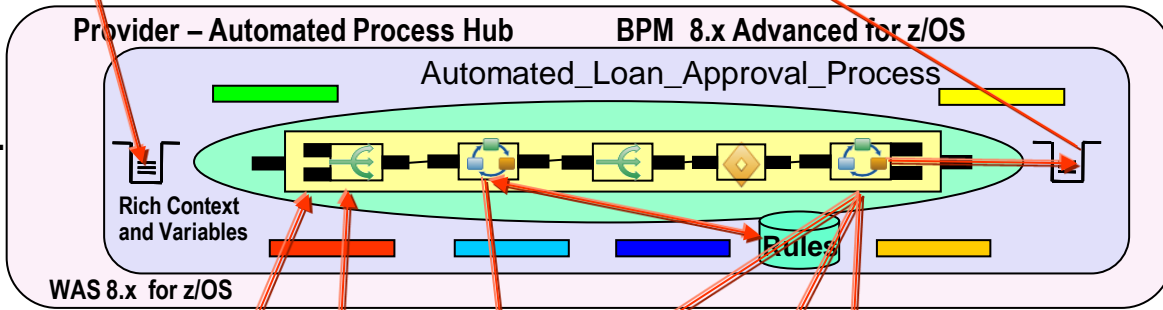
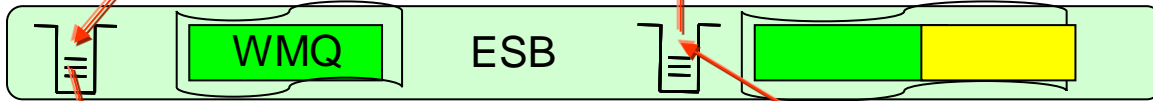
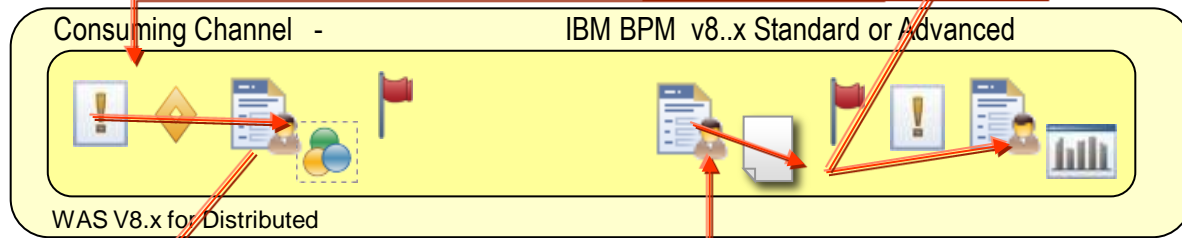
- Additional services were deployed to TS in March 2010
- Utilization was expected to manifest as increased zAAP consumption only
  - Through smarter coding decreased GP MIPS yielded **LESS overall MIPS**
  - Monthly platform cost **remained steady despite increased volumes**
  - With 15% growth monthly, the monthly cost is ~ still flat
- Retirement of legacy services TS converted expensive GP MIPS into zAAP MIPS



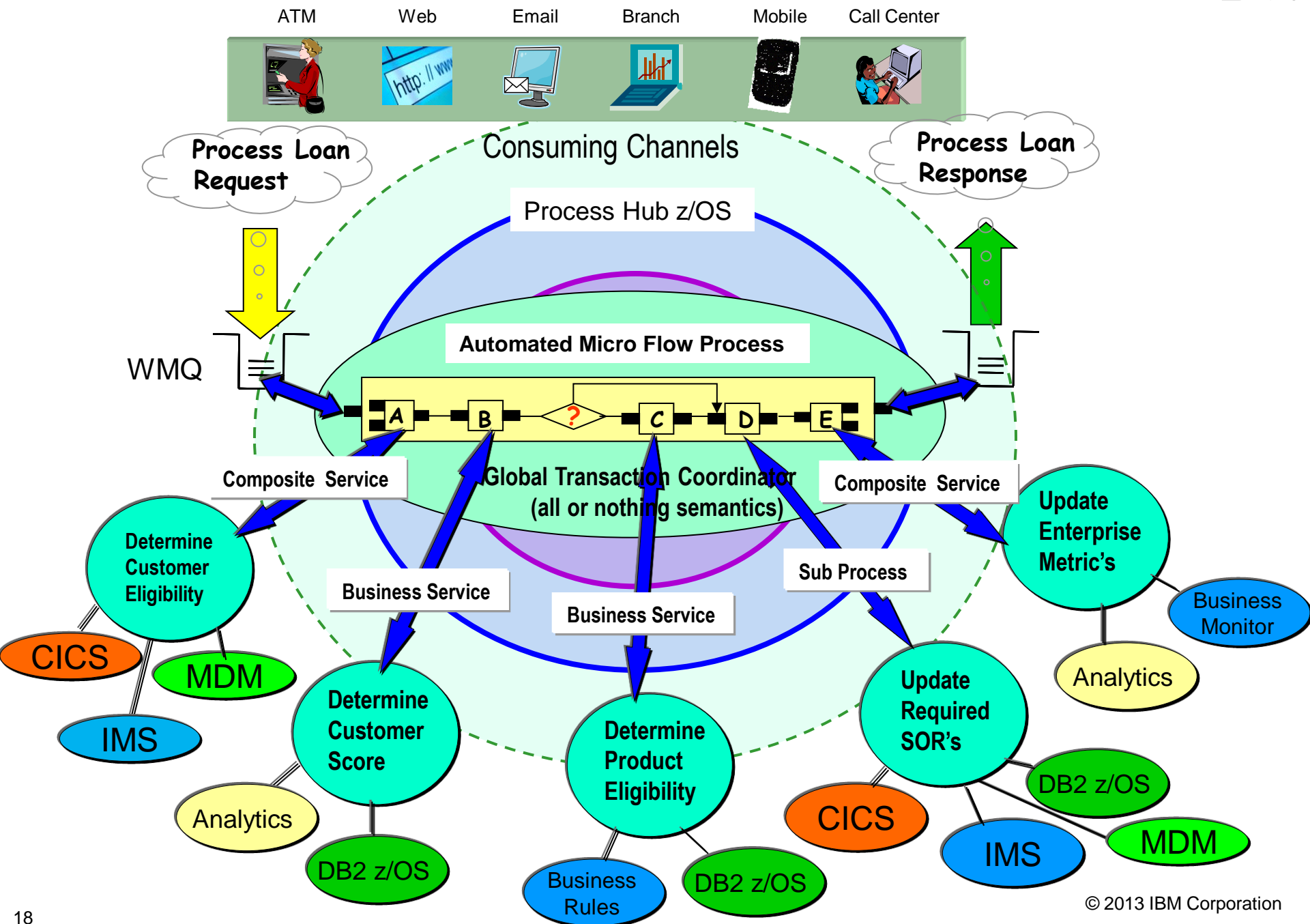
# BPM Process Hub Hybrid Loan Scenario



- 1 BPM Mobile Channel initiates Loan Application Process
- 2 Loan Expert "collaborates"
- 3 An Automated STP Process
- 4 The STP determines eligibility
- 5 From Business Rule results, Automated STP Sub Process updates all required disparate SOR's
- 6 Expert prepares Loan Fulfillment Documents.
- 7 Business Analysts review real time metrics



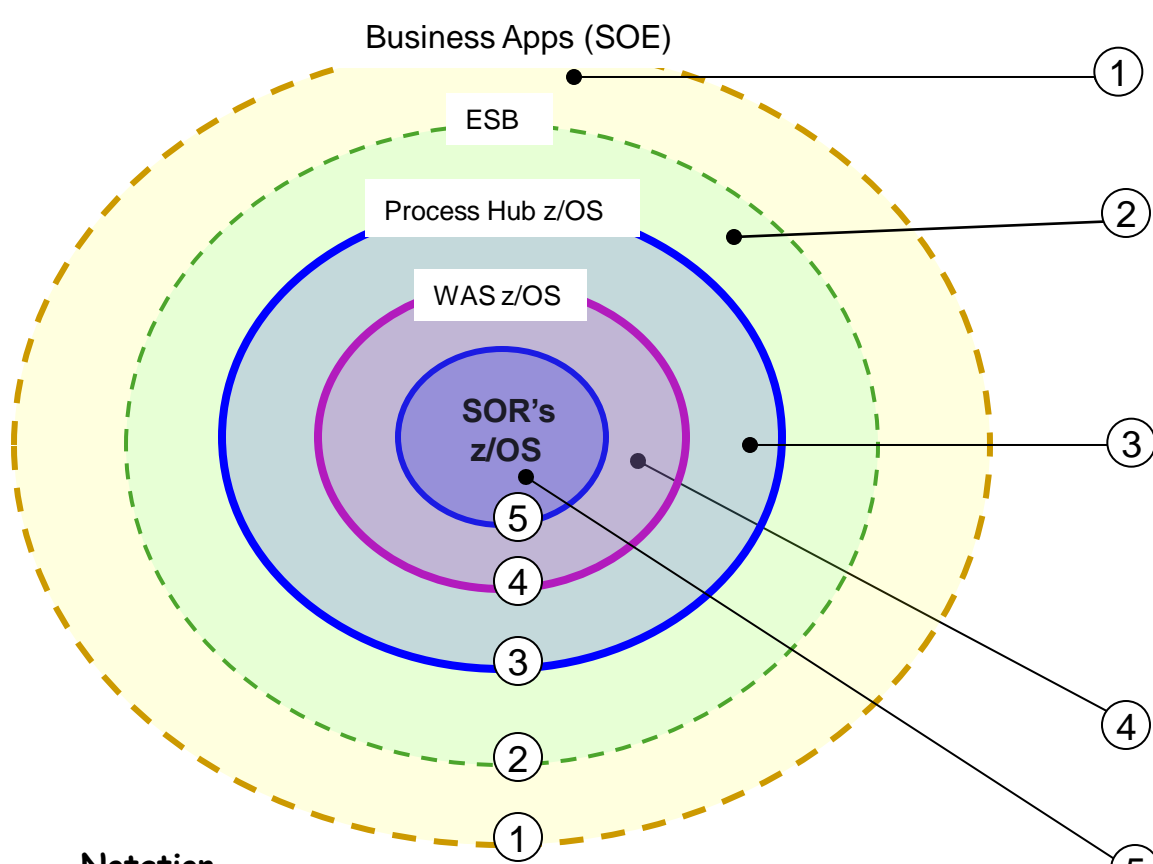
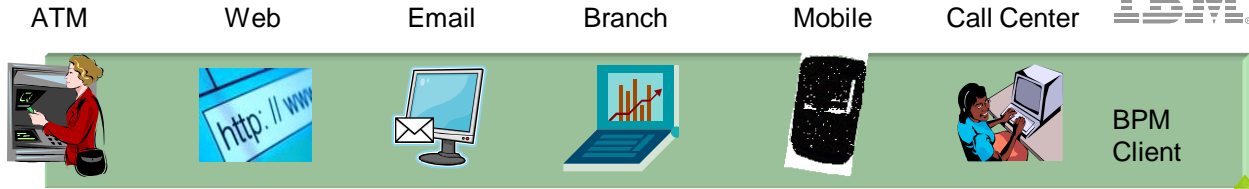
# BPM Process Hub Deployment





# BPM Z Process Hub Hybrid Solution

## Function Placement



- 1 Human Contact and Collaboration**
  - Social Portals ,Screen Flows, Content,
  - Work lists , Business Portals
- 2 Compute Intensive, Search and Analytics**
- 3 SOA Separation of Concerns**
  - Message Bus, Service Registry, Cloud Services,
  - Brokering and Mediations
- 4 Automated Straight through Processes**
  - And Service Choreography
  - Composite Services and Global Transactions
  - Collocated J2C Optimized Adapters
  - Parallel activities and exception handling
  - Bulk and Batch Integration
- 5 WAS Application Server for z/OS**
  - JEE Standards, XML , Multi-JVM design
  - Optimized Local Connections and QOS
- z/OS SOR's - Transactional**
  - Best in Class OLTP, QOS
  - DB2 z/OS Data Sharing , Batch and Bulk

**Notation**  
 Soft Boundary  
 zLinux, Blade or Cloud  
 Hard Boundary

**z/OS SOR's Enterprise Systems (Applications & Data)**

CICS

IMS

WMQ

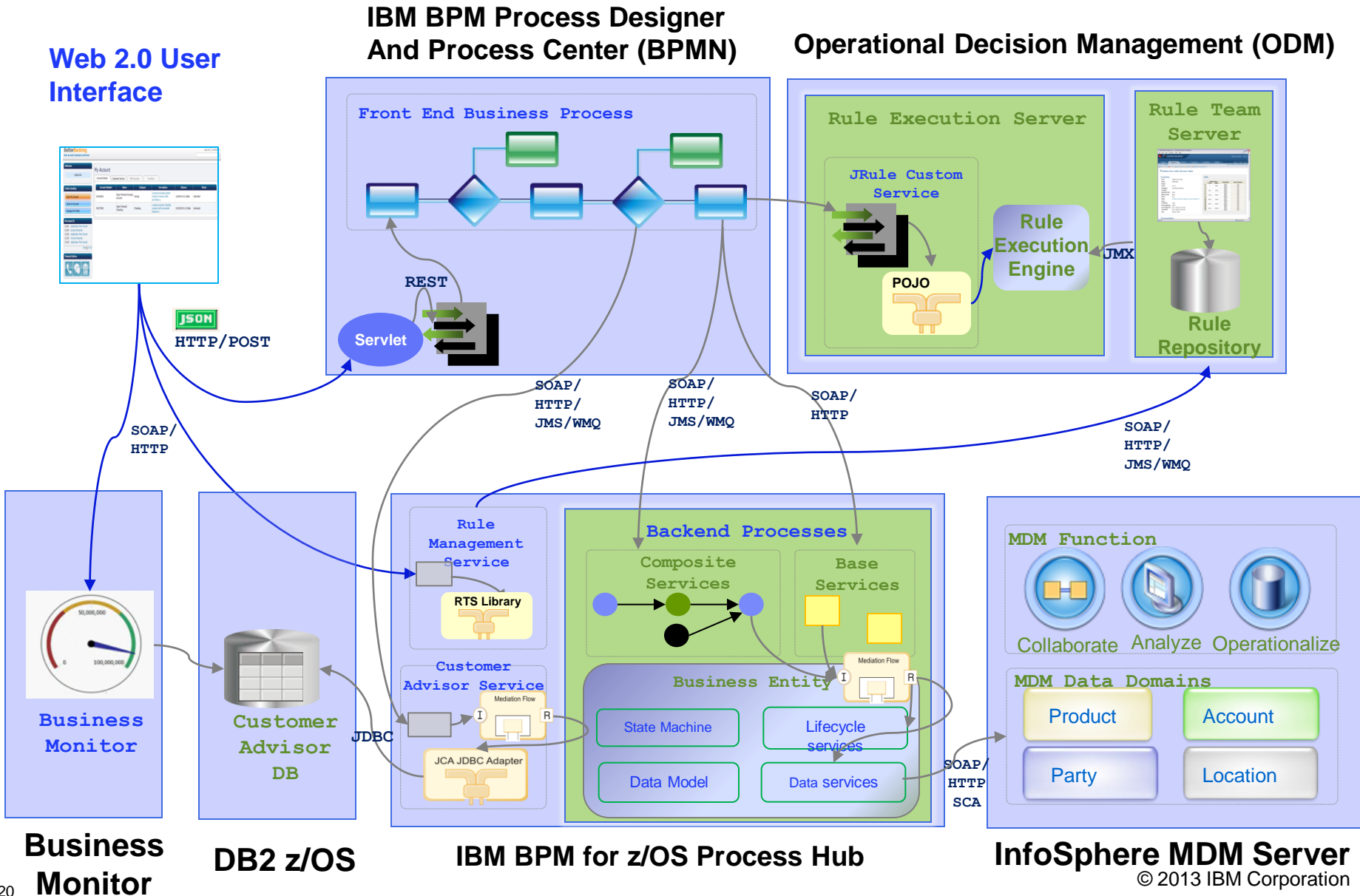
DB2

Batch

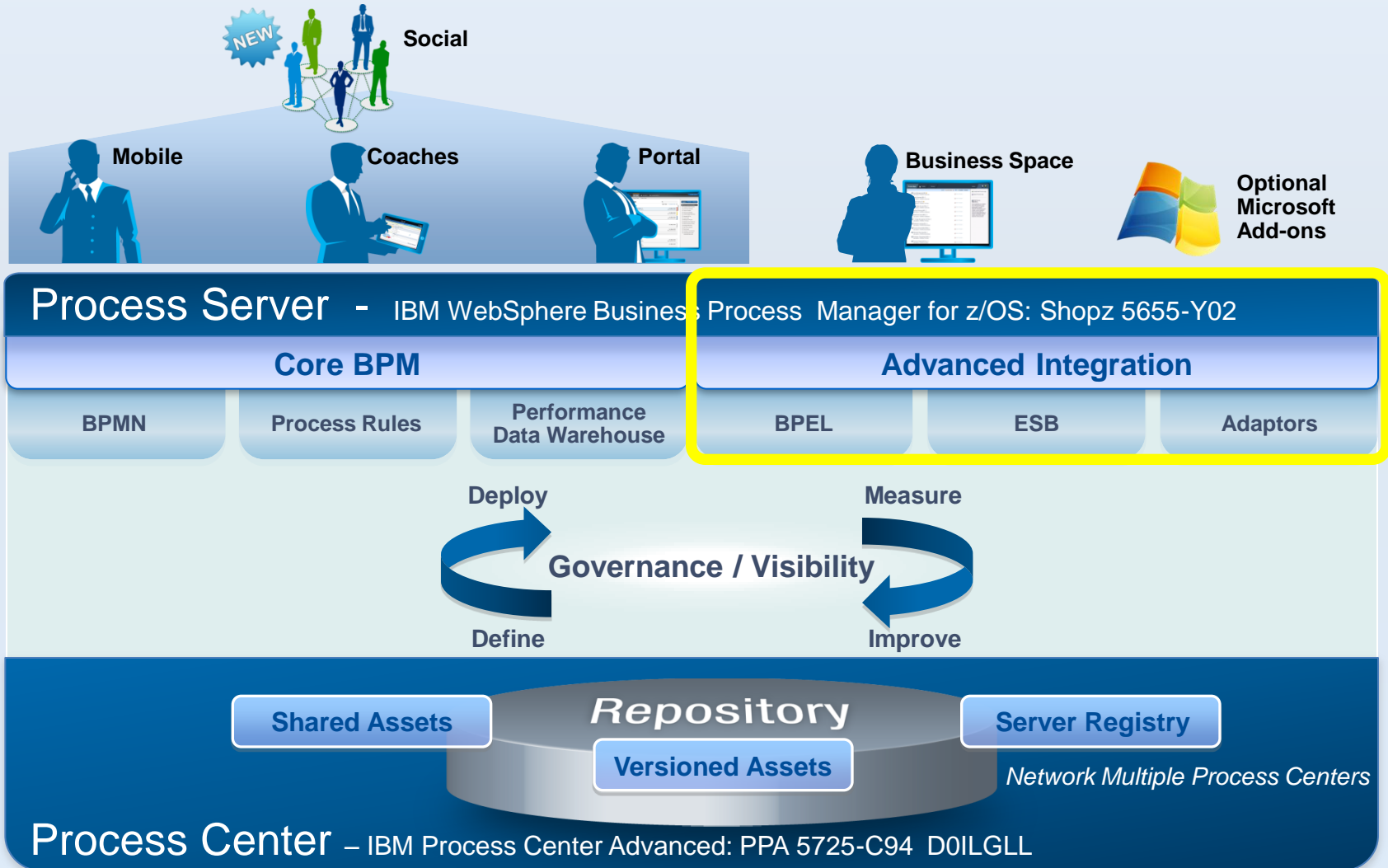
ISV

# Universal Account Opening Component Interaction

## Hybrid Solution View



# IBM Business Process Manager Advanced for z/OS Portfolio

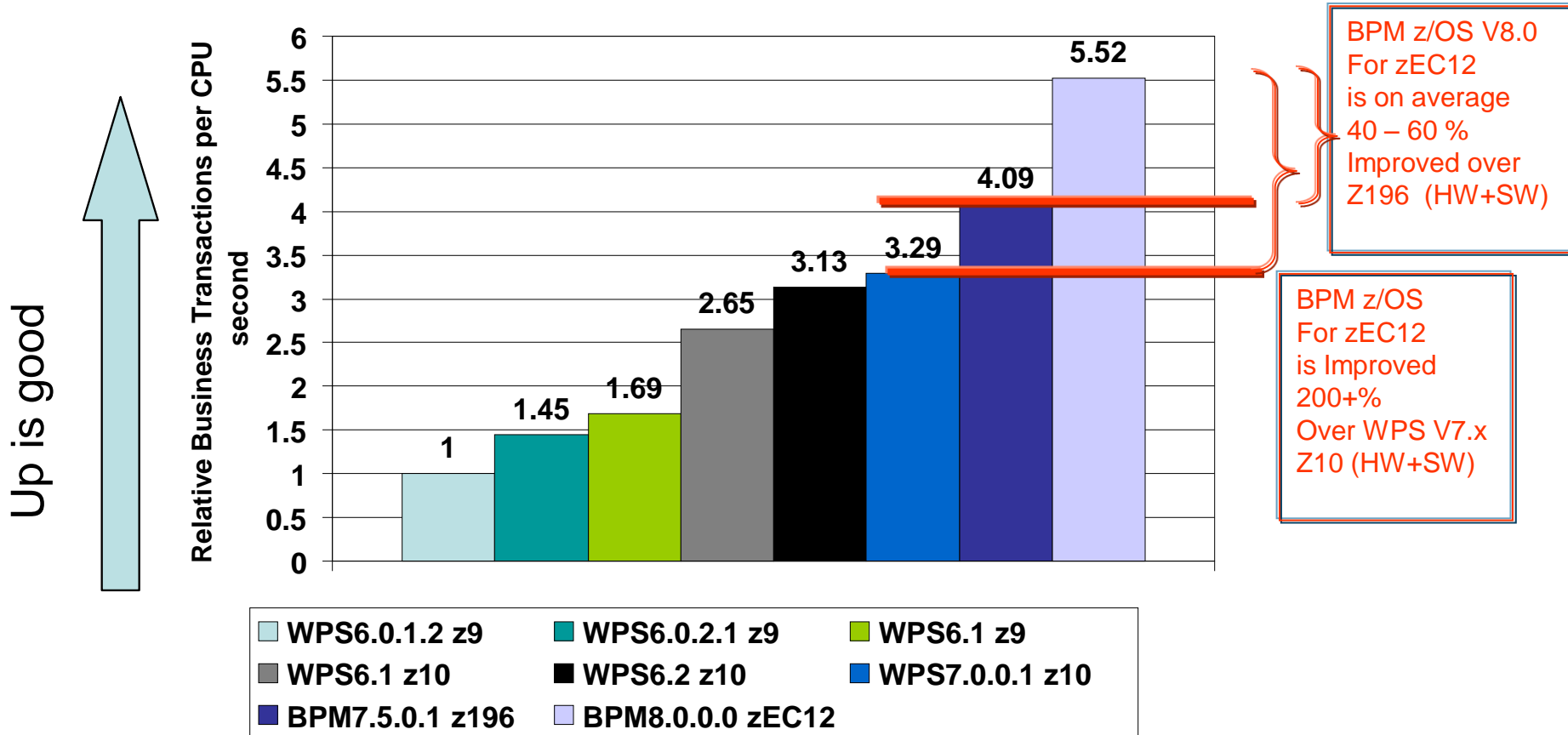


**Process Designer** -  
IBM Process Center  
Advanced: PPA  
5725-C94 D01MXLL



**Integration Designer** -  
IBM Process Center  
Advanced: PPA 5725-C94  
D01NZLL

# Transactional Performance: Growing with the needs of your business



BPM8.0.0.0 on zEC12 throughput is improved by about 452% as compared to WPS6.0.1.2 on z9

Get on the path to repeatable success  
*IBM delivers the fastest path to process improvement (10 weeks or less)*



Engage experts that focus on *BPM adoption and client success*

Partner with a global solution-focused practice with *unparalleled expertise*

*Flexible engagement models* to optimize access to expertise with *low total cost of ownership*



Use a proven methodology from a trusted partner

Start small, *grow fast*

**1** Build Project-  
Based  
Credibility

**2** Establish a  
Program

**3** Transform  
Across and  
Beyond the  
Enterprise

Project...

to Program...

to Transformation

IBM is the undisputed leader in BPM

# #1 in BPMS market share\*

Over **5000** BPM customers worldwide and growing!

IBM was named the *number one vendor in BPM software* with a 24.7 percent share, well *over twice that of its closest competitor*\*

**Gartner Report: A Decade of Leadership. IBM Named Marketshare Leader in Middleware Software for 10<sup>th</sup> Consecutive Year**

## Get started today

Visit [IBM Blueworks Live](#) to learn more about BPM and capture business designs

Contact IBM for a [Business Process Improvement Workshop](#)

Consider a Quick Win Pilot to get a jump start

[ibm.com/bpm](http://ibm.com/bpm)



# Where can I find out more?

- Business Process Management & Operational Decision Management
  - Discover, document, automate, and improve business processes: <http://www.ibm.com/bpm>
  - Business Process Manager Advanced for z/OS: <http://www.ibm.com/software/products/us/en/business-process-manager-zos>
  - Automate and manage your repeatable business decisions with next generation business rules: <http://www.ibm.com/ibmodm>
  - IBM Operational Decision Manager for z/OS: <http://www.ibm.com/software/products/us/en/odm-zos/>
- White papers & tech docs
  - [Optimizing process management with IBM System z](#)
  - [WebSphere z/OS – The Value of Co-Location](#)
  - [Brief introduction to WebSphere Optimized Local Adapters](#)
  - [WebSphere for System z Prescriptive Use Cases \(Oct. 28, 2011 Addendum\)](#)
  - BPM V 8 for z/OS Configuration Guide tech doc: <http://www.ibm.com/support/techdocs/atmastr.nsf/WebIndex/WP102075>
- Redbooks
  - [Batch Modernization on z/OS](#)
  - [Patterns: Integrating WebSphere ILOG JRules with IBM Software](#)
- Demos
  - [IBM BPM In Action demos](#)
  - [WebSphere Operational Decision Management YouTube demo](#)
- [Top 10 Business Use Cases for Operational Decision Management](#)
- [Good Decision! Decision Management blog](#)
- [System z pricing](#)

धन्यवाद  
Hindi

多謝  
Traditional Chinese

Grazie  
Italian

ขอบคุณ  
Thai

Gracias  
Spanish



Merci  
French

Спасибо  
Russian

شكراً  
Arabic

Obrigado  
Brazilian Portuguese

Danke  
German

多谢  
Simplified Chinese

நன்றி  
Tamil

ありがとうございました  
Japanese

감사합니다  
Korean