



银行主机应用架构热点问题探讨

Oct, 2013

Kuang Mi 邝谧
Client Technical Advisor
kuangmi@cn.ibm.com

2011年10月30日，中国银行IT蓝图项目完美收官，标志着始于上世纪90年代末的银行数据中心大集中‘运动’降下帷幕



What happened?

✓ 中国加入WTO，金融行业改革，银行IPO



✓ 互联网企业的兴起— Google, Facebook, Amazon, 淘宝, 百度, 腾讯, 新浪

✓ 2008年金融风暴



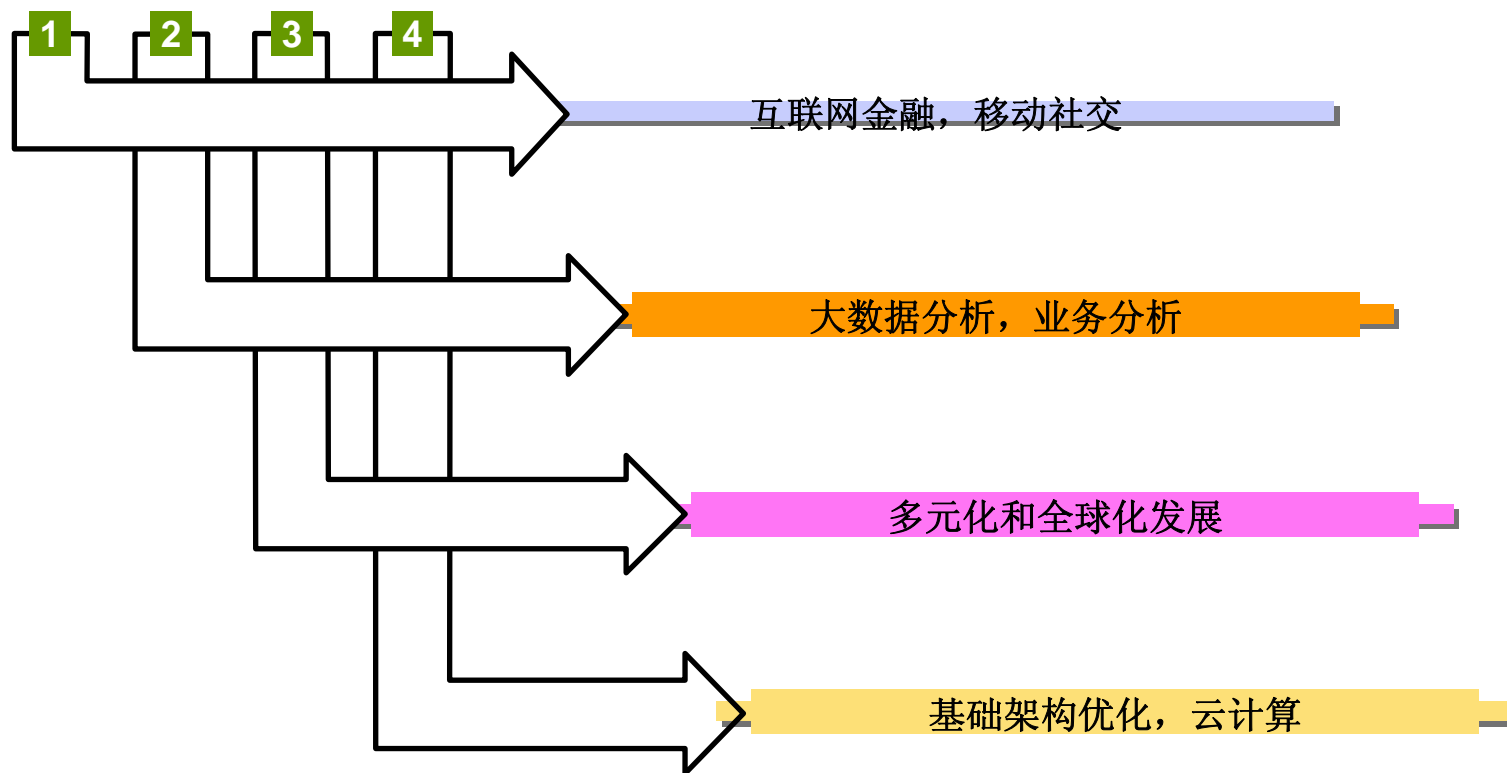
✓ Apple复兴，‘创新’成为生存的必须



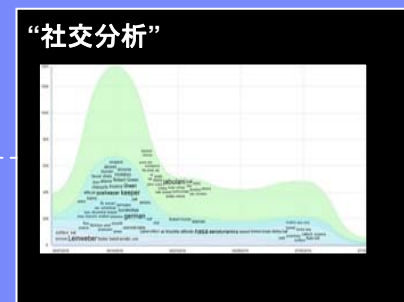
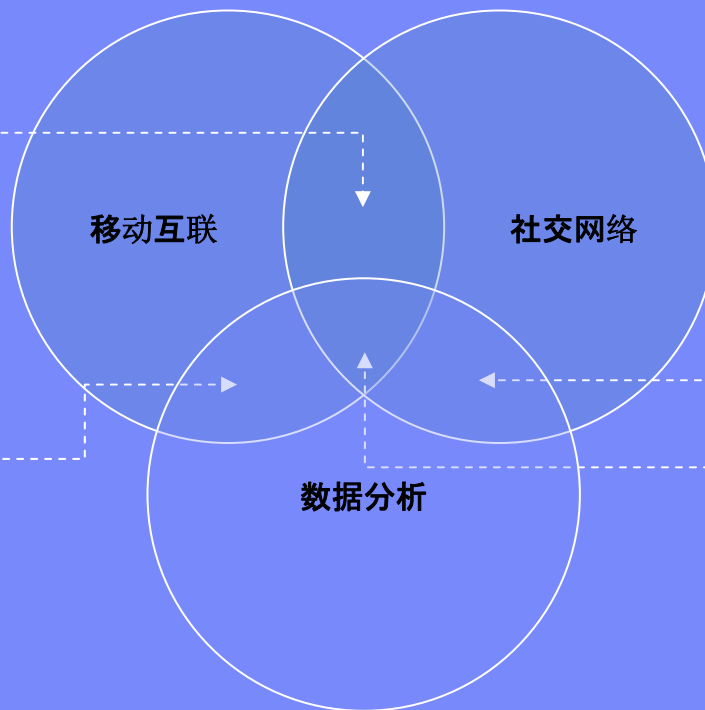
国内银行热点展望



核心银行系统转型，新一代...下一个轮回？



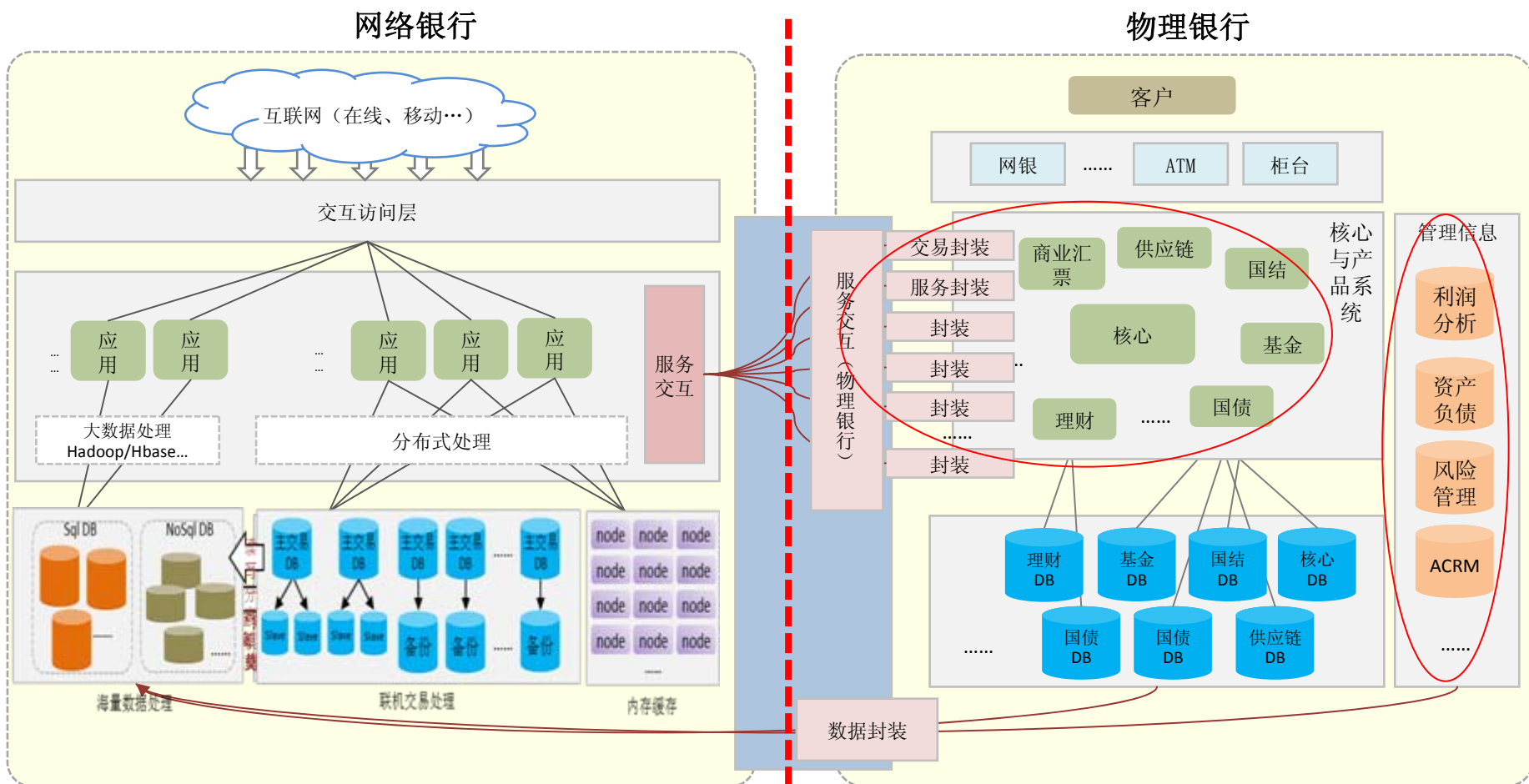
移动互联技术和社交网络



基于 SoLoMo 的
分析
(social, location, mobile)

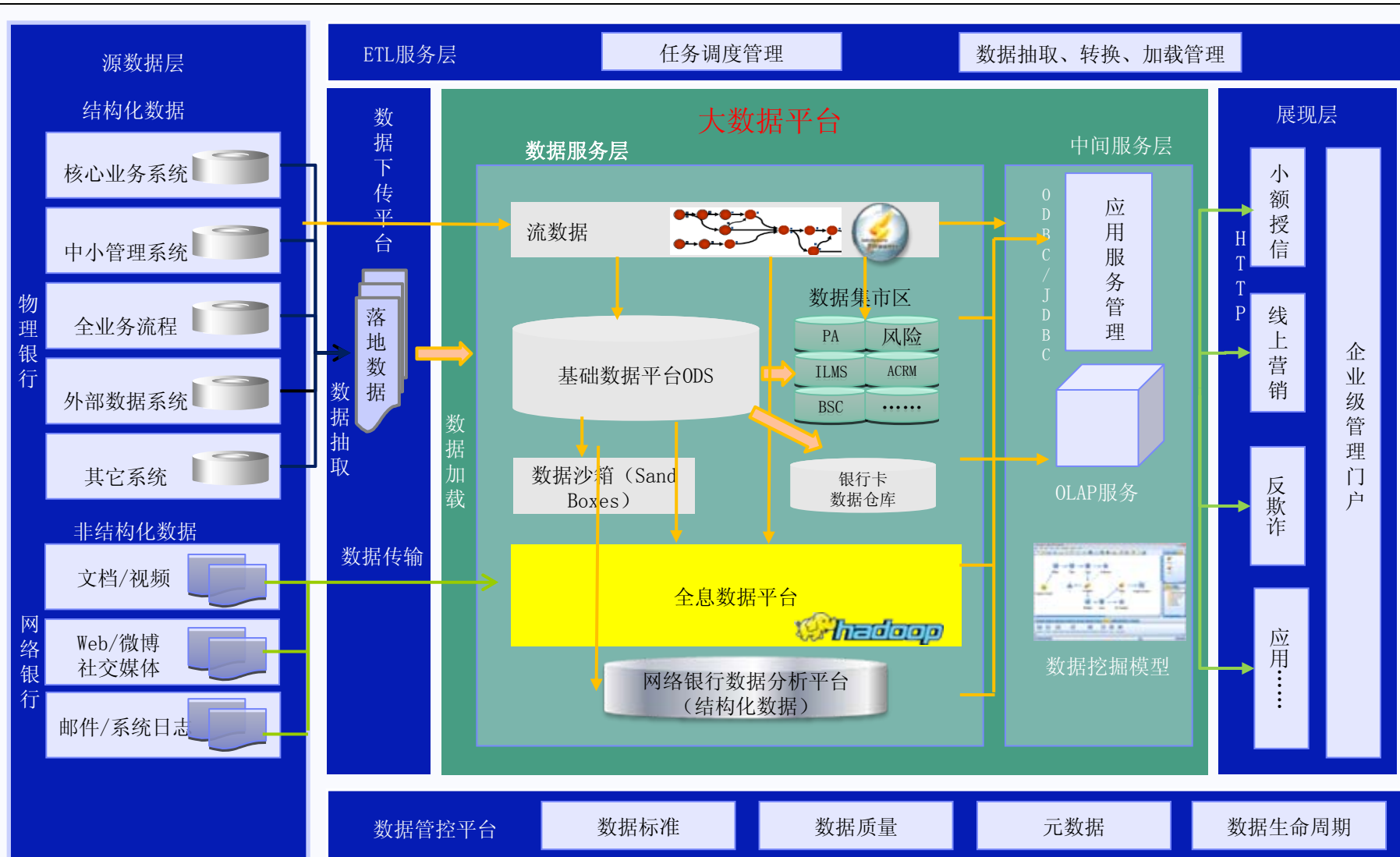
银行业未来的创新领导者——移动互联、社交网络及数据分析三个领域技术的有机结合

网络银行的建设思路

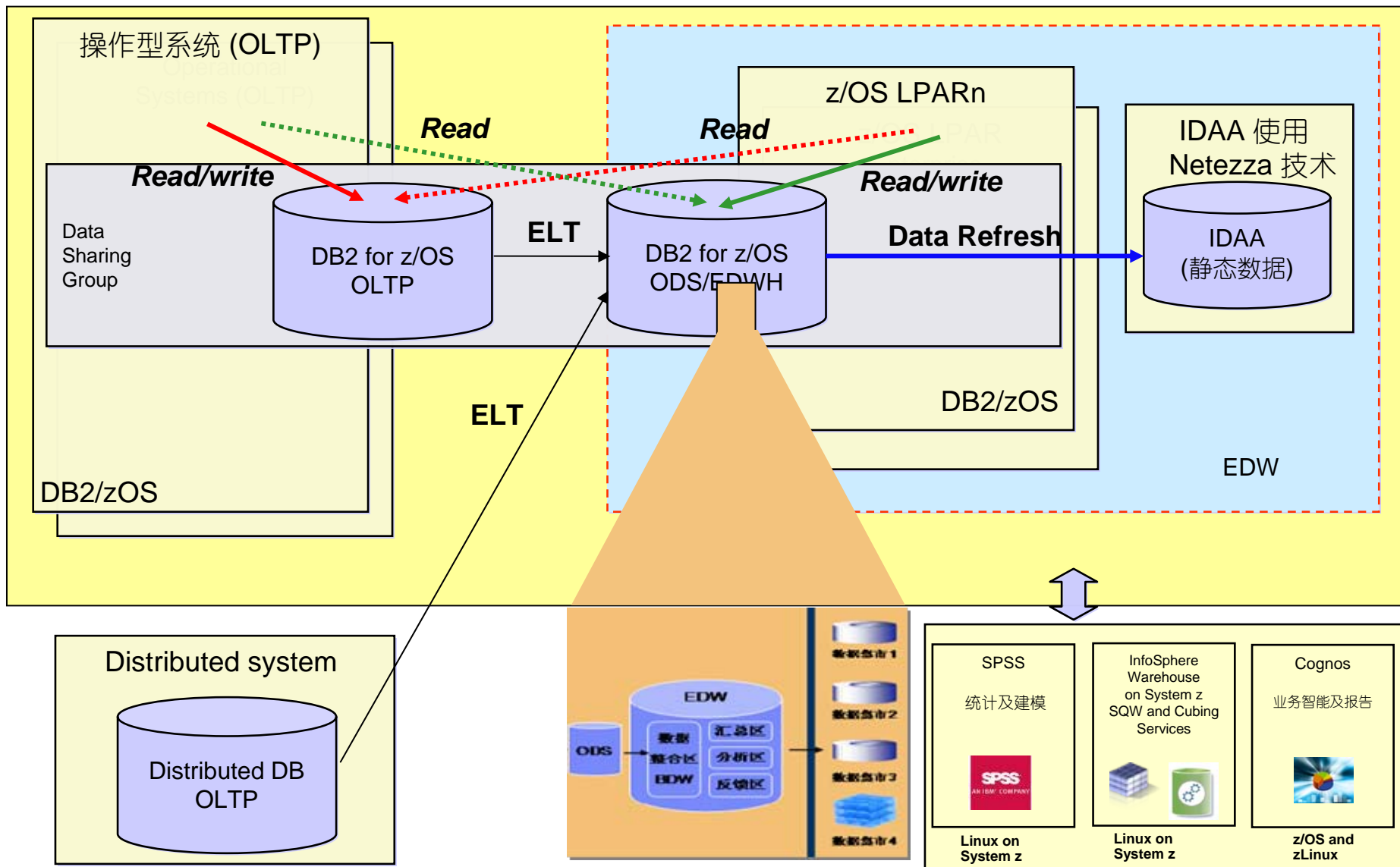


- 为适应互联网新商业模式的要求，涉及商业模式、业务流程以及网络银行创新的产品服务系统将在网络银行范畴内进行独立建设。
- 通过将核心与传统产品系统的交易活动进行服务封装处理，供网络银行应用交互调用。为保证网络银行大数据营销的精准性，还需要统一实现对物理银行数据的融合分析挖掘。

大数据平台整体逻辑框架



主机数据仓库架构



GDPS Active-Active双活解决方案

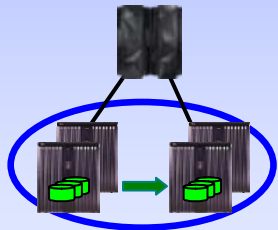
There are multiple GDPS service products under the GDPS solution umbrella to meet various customer requirements for Availability and Disaster Recovery

GDPS/PPRC HM

Continuous Availability of Data within a Data Center

Single Data Center
Applications remain active

Continuous access to data in the event of a storage subsystem outage



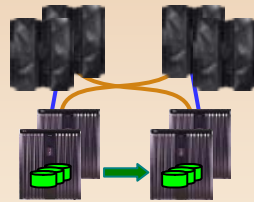
RPO=0 & RTO=0

GDPS/PPRC

Continuous Availability / Disaster Recovery within a Metropolitan Region

Two Data Centers
Systems remain active

Multi-site workloads can withstand site and/or storage failures

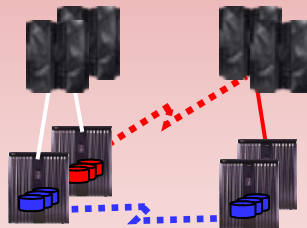


A/S RPO=0 & RTO<1 hr or
A/A RPO=0 & RTO mins

GDPS/GM & GDPS/XRC

Disaster Recovery at Extended Distance

Two Data Centers
Rapid Systems Disaster Recovery with "seconds" of Data Loss
Disaster recovery for out of region interruptions

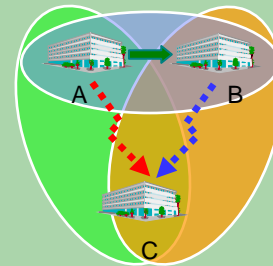


RPO secs & RTO <1 hr

GDPS/MGM & GDPS/MzGM

Continuous Availability Regionally and Disaster Recovery Extended Distance

Three Data Centers
High availability for site disasters
Disaster recovery for regional disasters

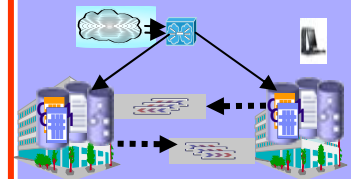


A/S RPO=0 & RTO<1 hr or
A/A RPO=0 & RTO mins
and RPO secs & RTO <1 hr

GDPS/Active-Active

Continuous Availability, Disaster Recovery, and Cross-site Workload Balancing at Extended Distance

Two or More Data Centers
All sites active



RPO secs & RTO secs

Components

Tivoli® – NetView®, SAz
STG – System z, DS8000®, PPRC
GTS – GDPS control code, Services

Tivoli – NV, SAz, SA-MP, AppMan
STG – System z, DS8000, VTS, PPRC
GTS – GDPS control code, Services

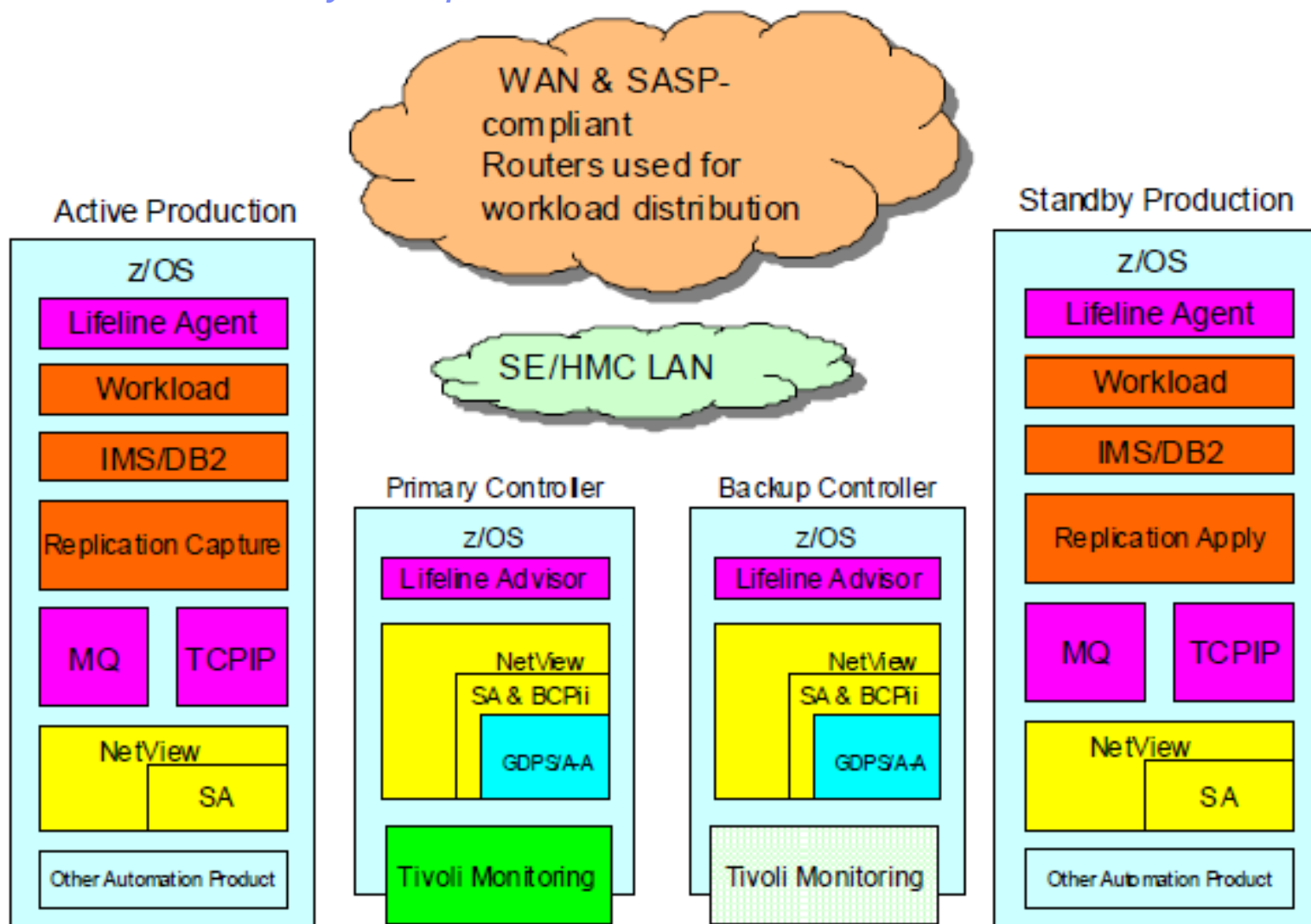
Tivoli – NV, SAz
STG – System z, DS8000, Global Mirror, XRC
GTS – GDPS control code, Services

Tivoli – NV, SAz
STG – System z, DS8000, MGM, MzGM
GTS – GDPS control code, Services

Tivoli – SA, NetView
AIM - Multi-site Workload Lifeline
IM - DB2 & IMS replication
STG – System z, DS8K, Global Copy
GTS – GDPS control code, Services

GDPS Active-Active 解决方案主要组件

GDPS Active-Active Key Components



未来银行

Think like a Retailer

Build extended ecosystem to support customer's everyday buying and paying needs



Act like a Manufacturer

Bring products and services at lowest possible cost to customers leveraging scale and efficiency



Operate as One Bank

Provide single, consistent and delightful customer experience in every interaction



Build Trust thru Risk Management

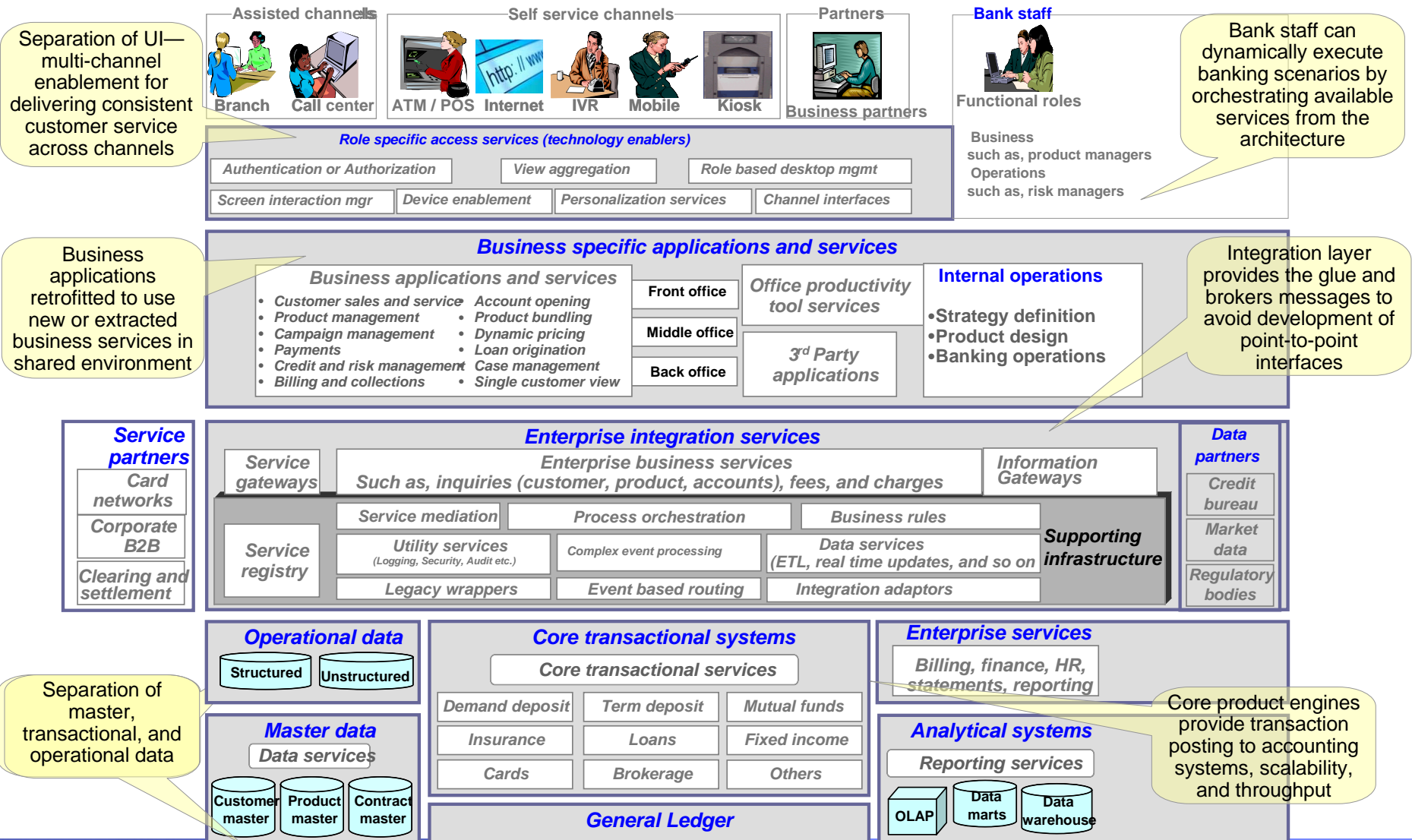
Protect customer by improving financial and fiduciary risk to gain complete trust



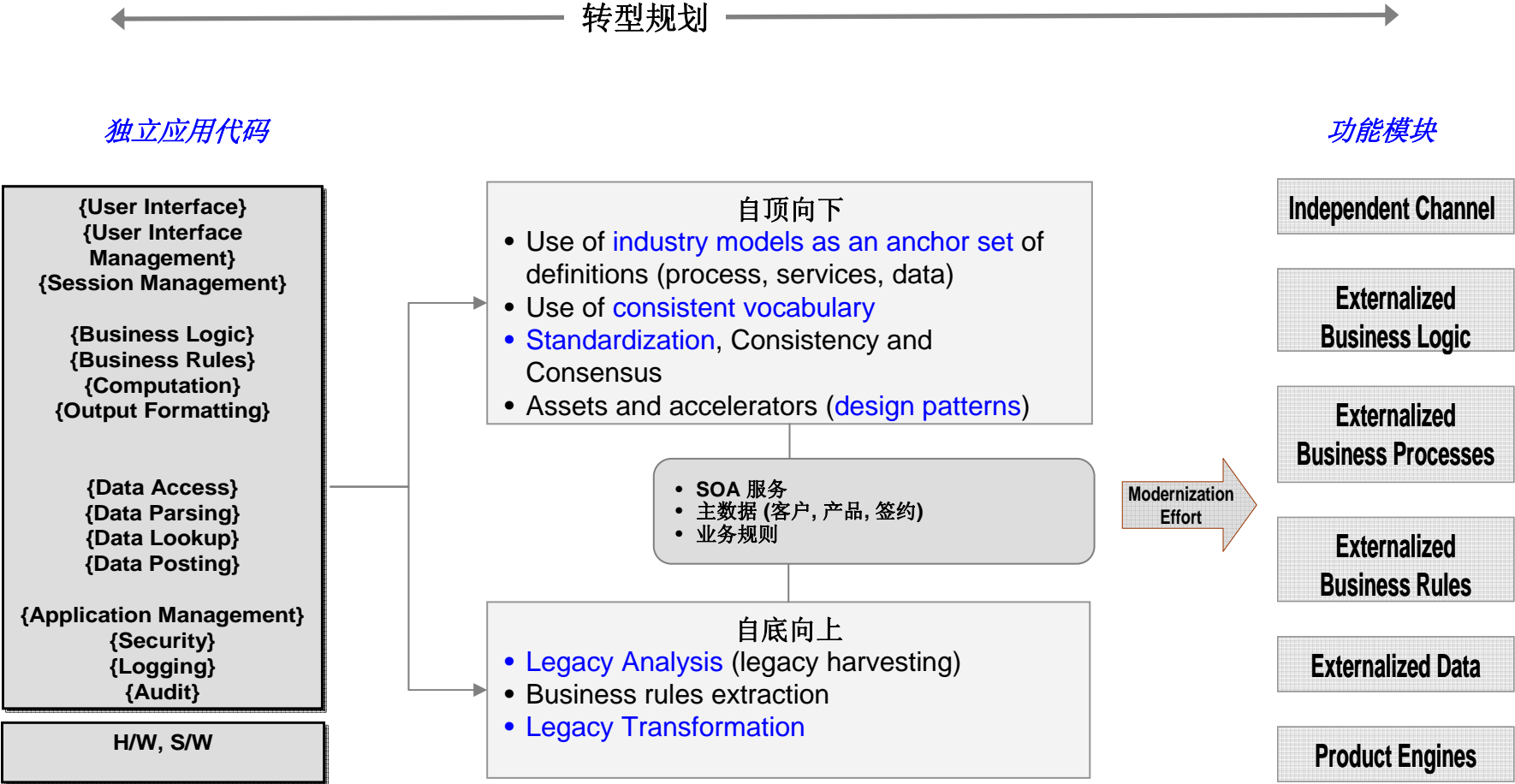
核心银行系统转型以支持业务转型



参考架构



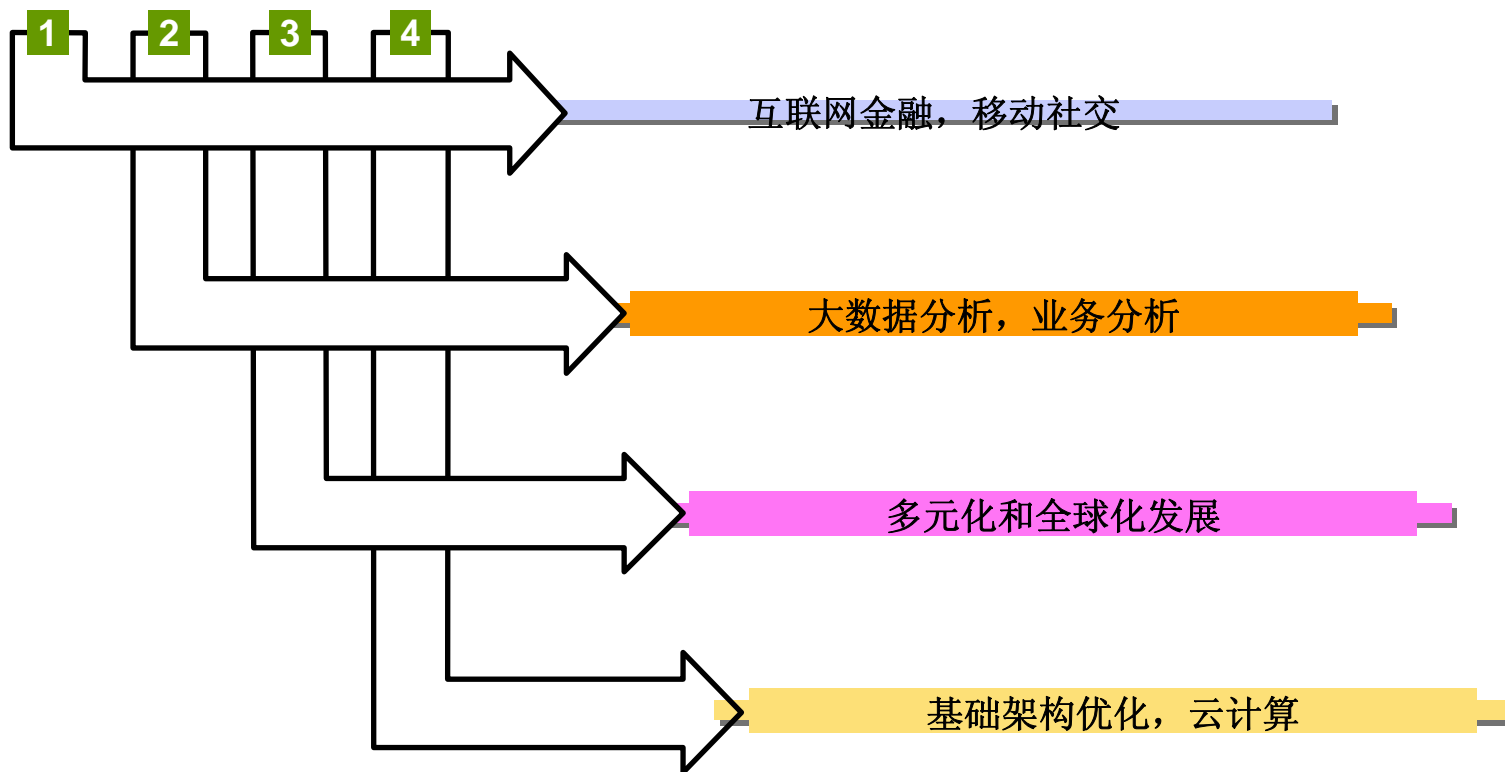
核心银行系统转型规划



国内银行热点展望



核心银行系统转型，新一代...下一个轮回？



Thank you!

