Data Governance and Master Data Management as a part of IBM BDW project

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ERSTE Group

May 2017, Dublin, IBM

CONTENT

- IBM BDW projects
- Implementation methodology
- Data Governance
- Master Data Management
- Conclusion and Lessons Learned

IBM BDW IMPLEMENTATION
UKRAINIAN MARKET OVERVIEW

SINCE 2007

PRIVATBANK
FIRST UKRAINIAN INTERNATIONAL BANK (FUIB)
STATE SAVINGS BANK OF UKRAINE (SSBU)
DELTABANK

IBM BDW IMPLEMENTATION
PRIVATEBANK

- Top 1 Retail bank in Ukraine
- Purchased IBM BDW
  - Fully replaced old ETL tools by IBM Data Stage
  - Reduced time of data download
  - Decided to stay with old DWH
  - Around 300 people support current DWH and BI

- Since 2016 has been purchased and refinanced by the Ukrainian Government to avoid the bankruptcy

IBM BDW IMPLEMENTATION

FUIB

- Top 5 biggest corporate bank in Ukraine
- Purchased IBM BDW
  - Implemented IBM BDW as a Bank Data Model
  - CFO was a Project Sponsor
  - Project has been done by external IT partner
  - MIS unit was created under CFO
  - External IT partner lost a development team, competence was not transferred to the bank
- DWH has been since 2013

IBM BDW IMPLEMENTATION
DELTABANK

- Top 10 biggest retail bank in Ukraine
- Purchased IBM BDW
  - Used IBM Data Stage as ETL and IBM Cognos as BI
  - Used IBM BDW as a Bank Data Model
  - Project has been done by external IT partner in Belarussian Branch
  - Started from Customer Data

- Project had been stopped. In 2015 Deltabank went to bankruptcy

IBM BDW IMPLEMENTATION
SSBU

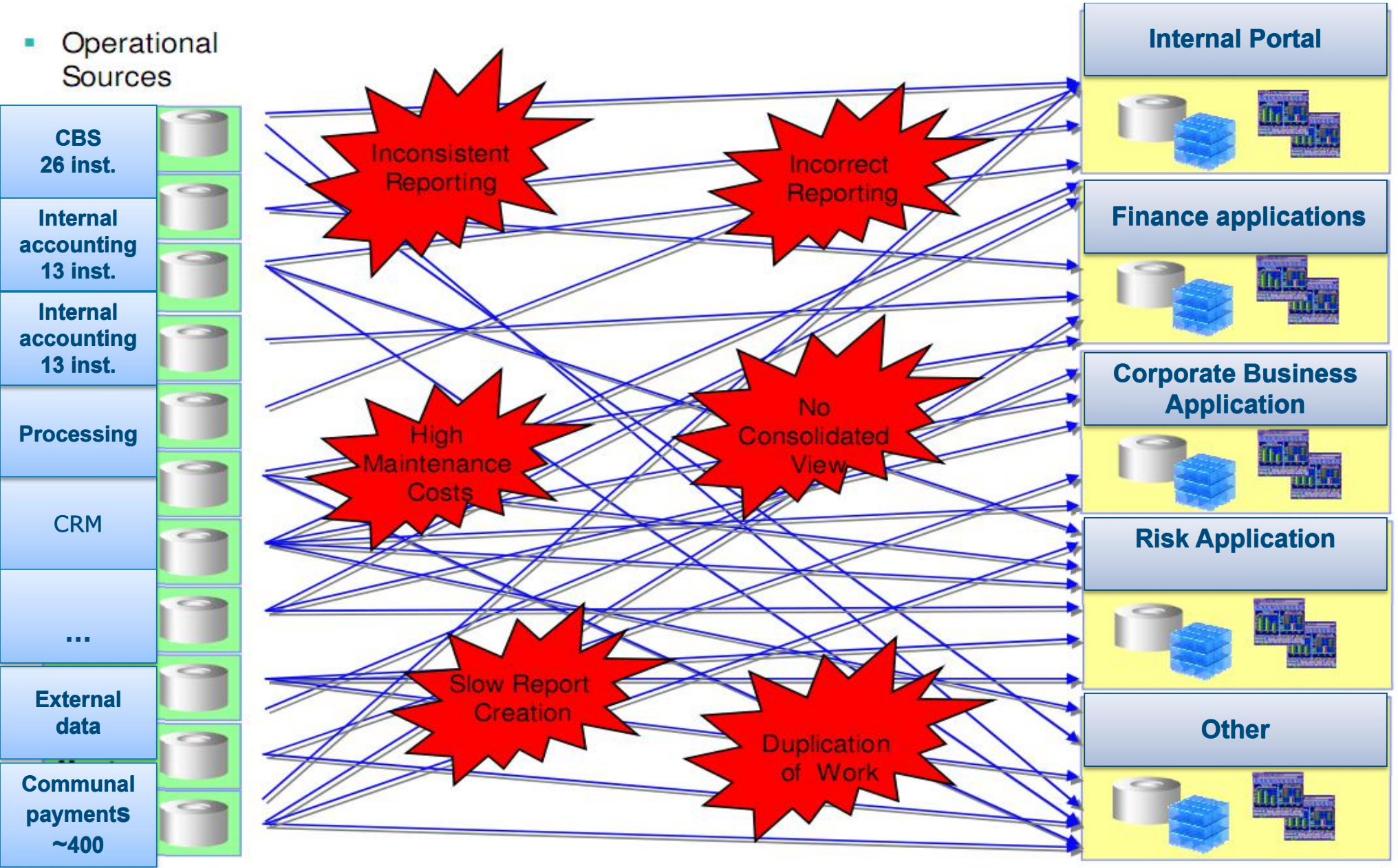
- The second Retail bank in Ukraine with the biggest retail network
- 100% owned by State since 1991
- Around 36000 employees
- Purchased IBM BDW in 2011
  - Used IBM Data Stage as ETL and IBM Cognos as BI
  - Customized IBM BDW and used IBM BDW as a Bank Data Model
  - CFO was a Project Sponsor
  - Project has been done by internal MIS team
  - MIS Department was created and was directly responsible to CFO
  - Has been in production since 2012

- SSBU is open to reference visits to IBM clients:

http://www-3.ibm.com/press/ru/ru/pressrelease/41575.wss

REPORTING WITHOUT DWH

SSBU, 2011-2012



IBM BDW IMPLEMENTATION

SSBU, 1st release 2012-2013

- Core Banking and GL data
  - postings, transactions, contracts, products
- Customers' data
  - Corporate customers (with a golden number and master data)
  - Retail customers (without a golden number and master data)
- FTP Application
  - Calculation of transfer income/charge
  - FPT yield curves modelling
- DWH Control Application
  - Monitoring of data uploads from sources to SOR & DM
  - Centralised management of DWH dictionaries (400 reference files and technical tables)
  - Launching and monitoring of DWH analytical applications' calculations
  - Running of auto tests
  - Monitoring of Samples
  - Monitoring of Web services

VENDORS' ANALYSIS
SSBU

Oracle, IBM, SAP, SAS

- Gardner reports
- DW data model
- ETL tools
- BI tools
- Licensing and costs
- References from customers
- Domestic market business cases
- Readiness to support from local offices
- Personal impressions

KEY STRATEGIC IT DECISION

SSBU

- Domestic automated banking systems:
  - have limited functionality for IFRS reporting, management accounting and risk management
  - All data are arranged around GL and accounting data, not contracts
  - fully compatible with regulatory reporting requirements of the NBU
- Western banking systems:
  - Support IFRS reporting, management accounting and risk management reporting
  - All data are arranged around contracts, not GL data
  - incompatible with regulatory reporting requirements of the NBU
- Implement a new Core Banking System or finance a development of local centralized Core Banking "Bars-Millennium"?
- Use IBM BDW as an example for the local Core Banking System development

PROJECT SOFTWARE

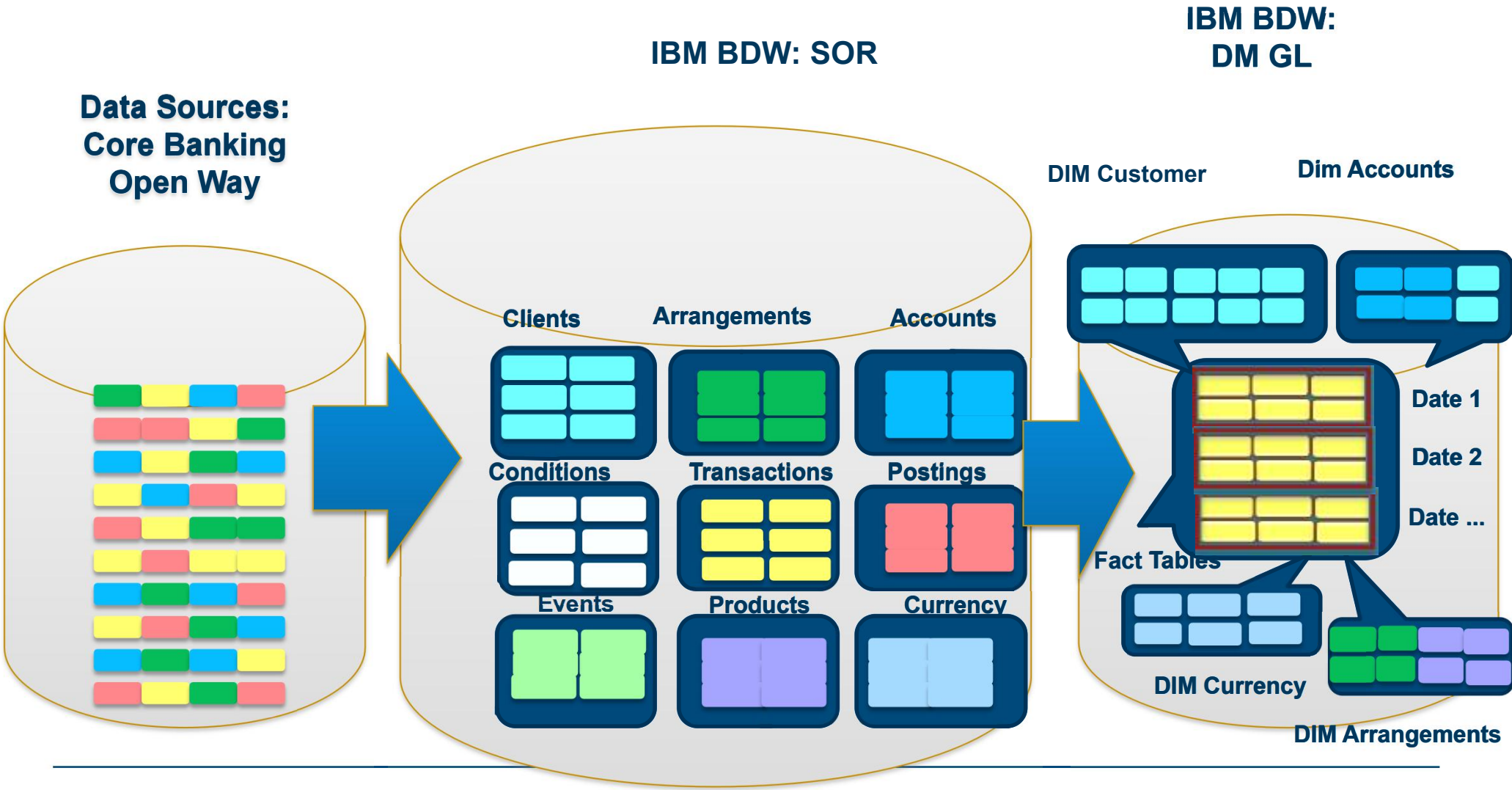
SSBU

- IBM Banking Data Warehouse
- IBM Information Data Architect
- IBM DataStage and IBM QualityStage
- IBM Metadata Workbench
- IBM Fast Track
- IBM Information Governance Catalog
- IBM Cognos BI and IBM Cognos TM1
- Control system of DWH
- DB management facilities
- Atlassian tools (Jira, Bamboo, Crucible)

IBM BDW
CONCEPTUAL MODEL

The Nine Data Concepts

IBM BDW
SOR & DM



Project phases

- Business requirements
  - Business Experts
  - Data Stewards
- Analysis & Design
  - Business Analysts
  - IBM BDW modeller
  - BI Architect
  - Data Analysts
  - Source Architect
  - Lead IT Architect
- Implementation
  - ETL developers
  - BI developers
  - Web developers
  - DBA
  - FTA + UAT
- Knowledge Transfer

Project quality assurance

Project Sponsors and Executives

Business

Risks

Accounting Controlling

Back office

Business Owner

Head of Data Source

Head of MIS

Head of IT

Project Manager / Head of MIS

IT Consulting

IT Lead / IT Architect / Deputy Head of MIS

DBA

Hardware admin

Software admin

***IT** architect*

Source Architect
1

Data Analyst
1

Data extract/ developers
2

FTest
1

Conceptual and logical IBM BDW Data Modeler
1

Business Analysts
7

Conceptual and logical support of IBM BDW
1

Business Terms support in IBM IGC
1

DQI rules set up and Control
1

IBM Data Stage/ Quality Stage Architect
1

Data Mapping
3

ETL developers
5

PDM support
2

IBM IGC metadata support
2

IBM Cognos BI Architect
1

BI developers
3

BI users support / Training
1

DQI reporting
1

UATest
1

IBM BDW Control System Architect
1

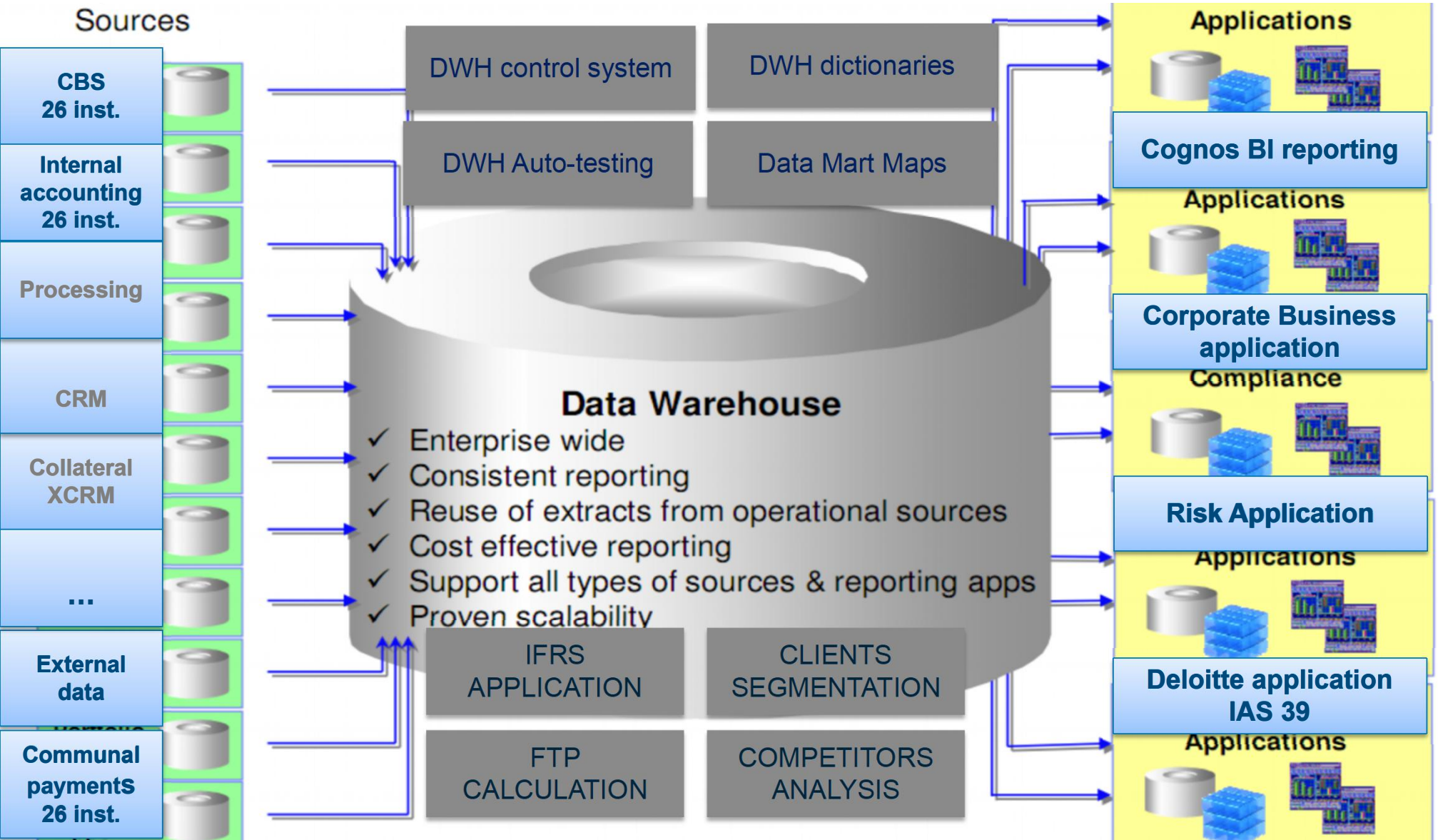
Web developers
2

FTest
1

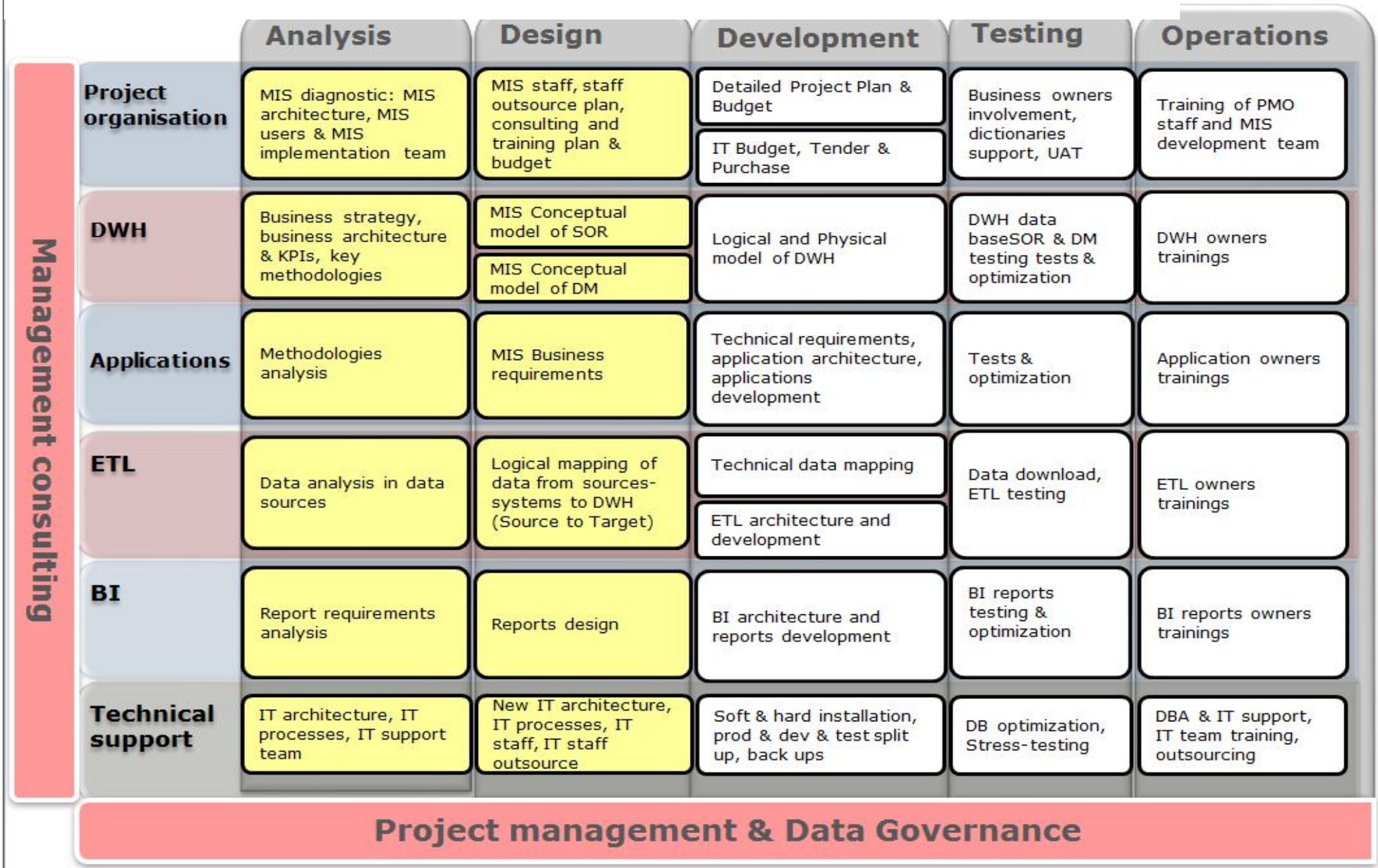
Technical writer
1

REPORTING WITH DWH

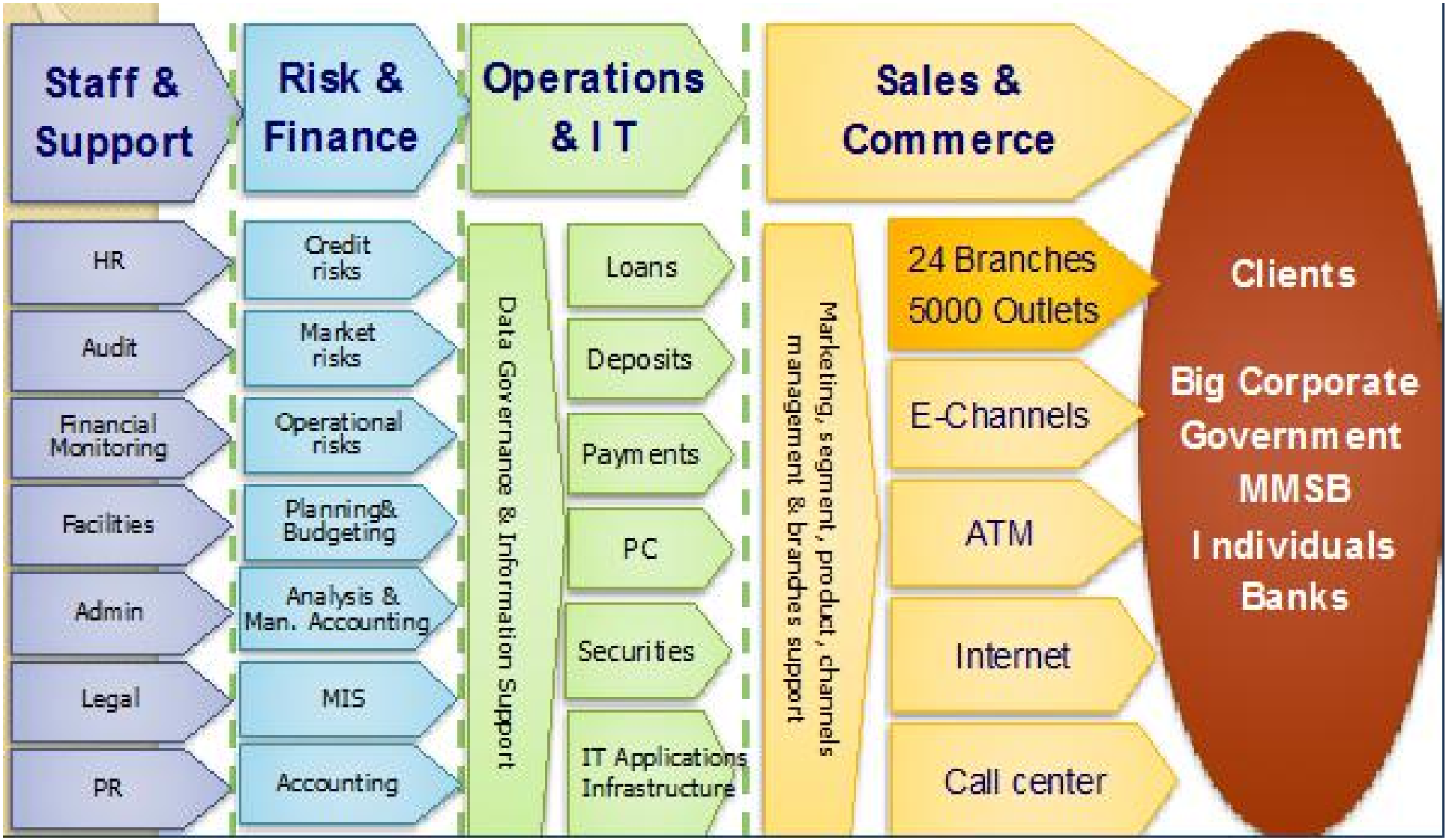
SSBU, 2013-2015



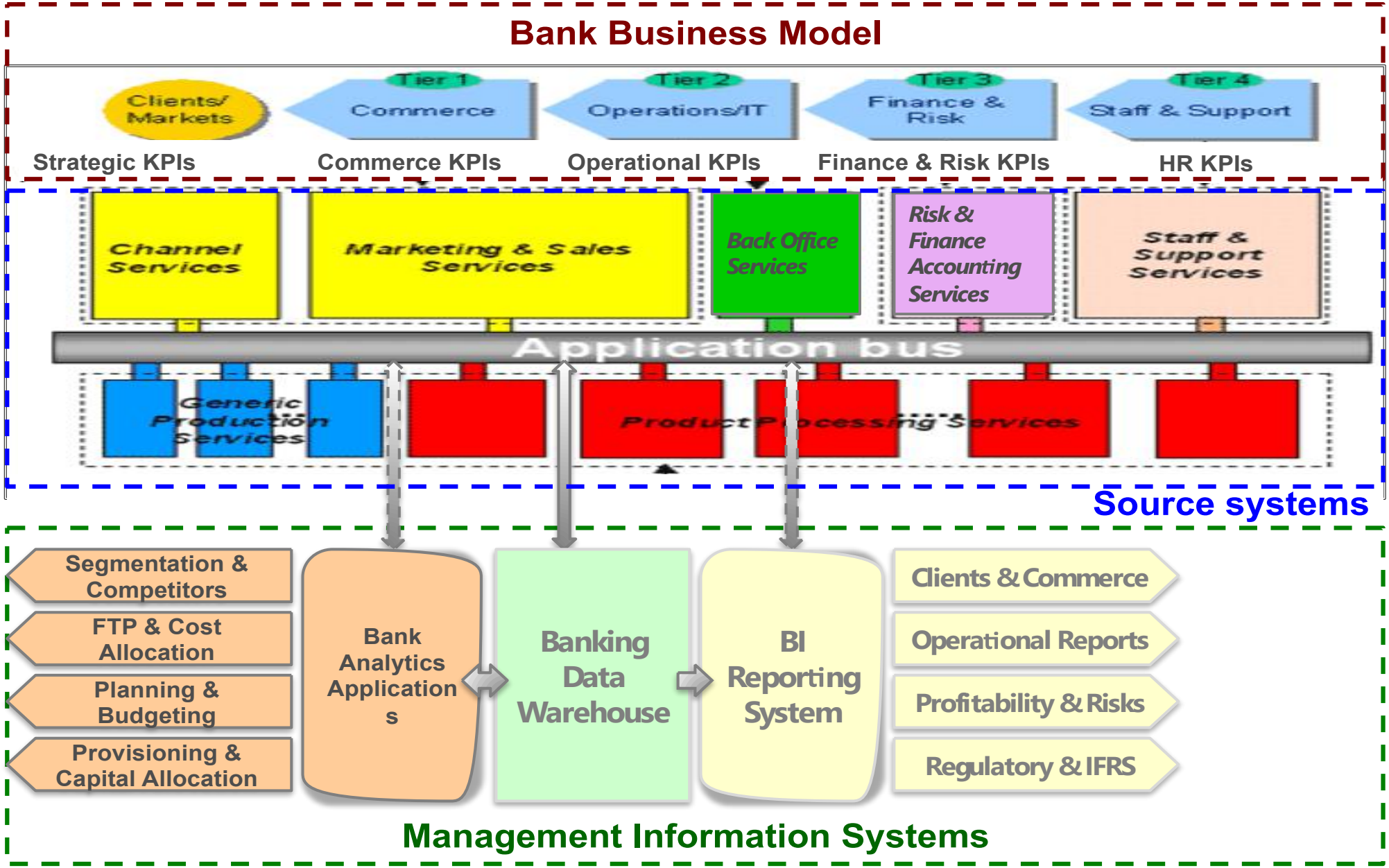
IMPLEMENTATION METHOFDOLOGY



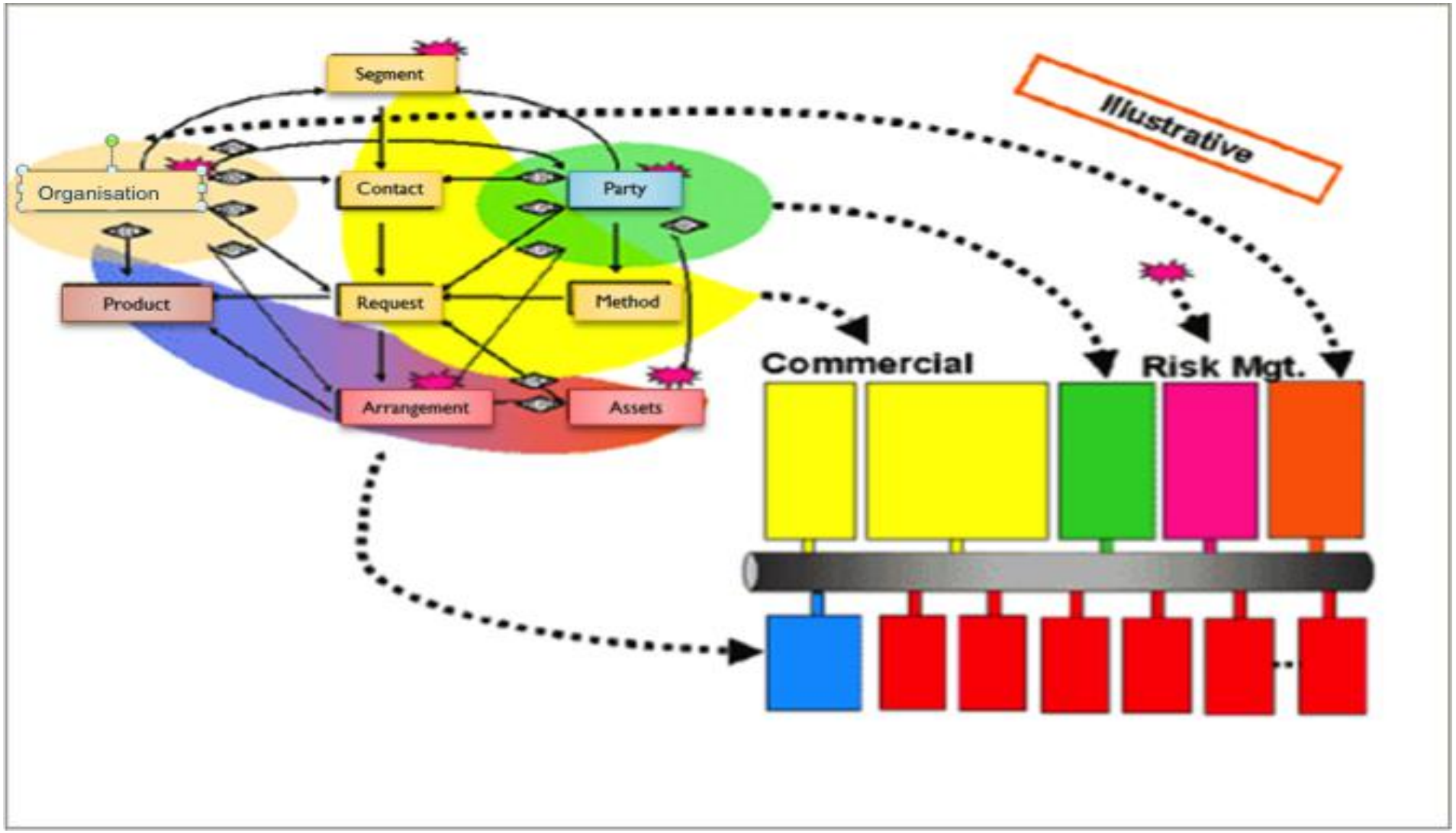
BANK BUSINESS



BANK IT ARCHITECTURE



BANK AND SOUCES DATA MODEL



MIS REPORTING

DQI

ОЩАДБАНК
Мій банк. Моя країна

Перевірка договорів, що передаються в модуль FineVare, на 01.04.2015 року

На дату: 01.04.2015

Регіон: АТ ОЩАДБАНК

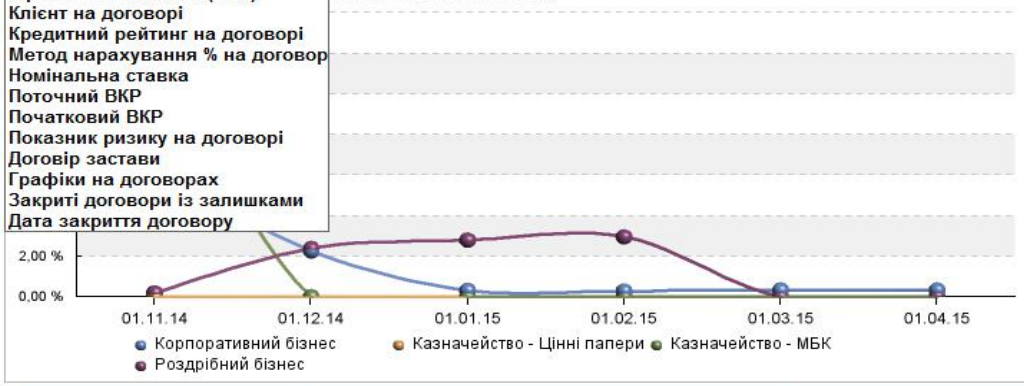
Бізнес: Разом

Тип перевірки: Продукт на договорі

Статус договору: Всі договори

- Продукт на договорі
- Ефективна % ставка (ЕПС)
- Клієнт на договорі
- Кредитний рейтинг на договорі
- Метод нарахування % на договор
- Номінальна ставка
- Поточний ВКР
- Початковий ВКР
- Показник ризику на договорі
- Договір застави
- Графіки на договорах
- Закриті договори із залишками
- Дата закриття договору

инаміка по бізнесам

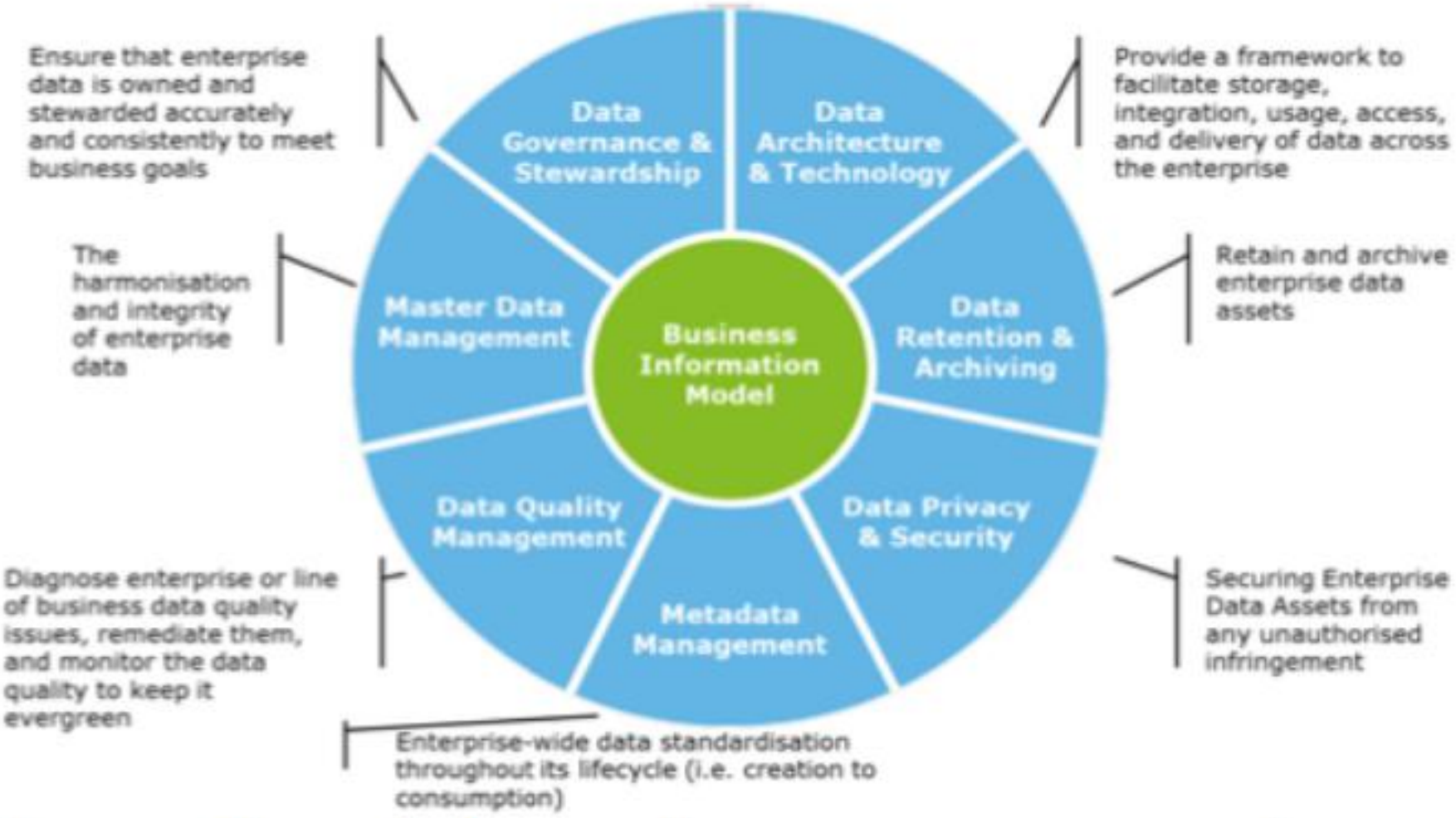


Договори без продуктів на 01.04.2015

Бізнес	Продукт	Кількість договорів	Балансова вартість за договором	Позабалансові зобов'язання	Інша дебіторська заборгованість
Корпоративний бізнес	Договори з продуктами	2 138	-84 743 361 620,89	-14 029 767 444,88	-28 985 992,81
	Договори без продуктів	7	210,03	0,00	-22,35
Роздрібний бізнес	Договори з продуктами	1 247 250	-5 426 802 399,65	-878 390 493,13	-6 572 925,46
	Договори без продуктів	26	2 062,87	-59 716,86	-10 878,08
Казначейство - Цінні папери	Договори з продуктами	361	-42 112 522 347,97	0,00	0,00
Казначейство - МБК	Договори з продуктами	25	-5 173 976 745,11	0,00	0,00

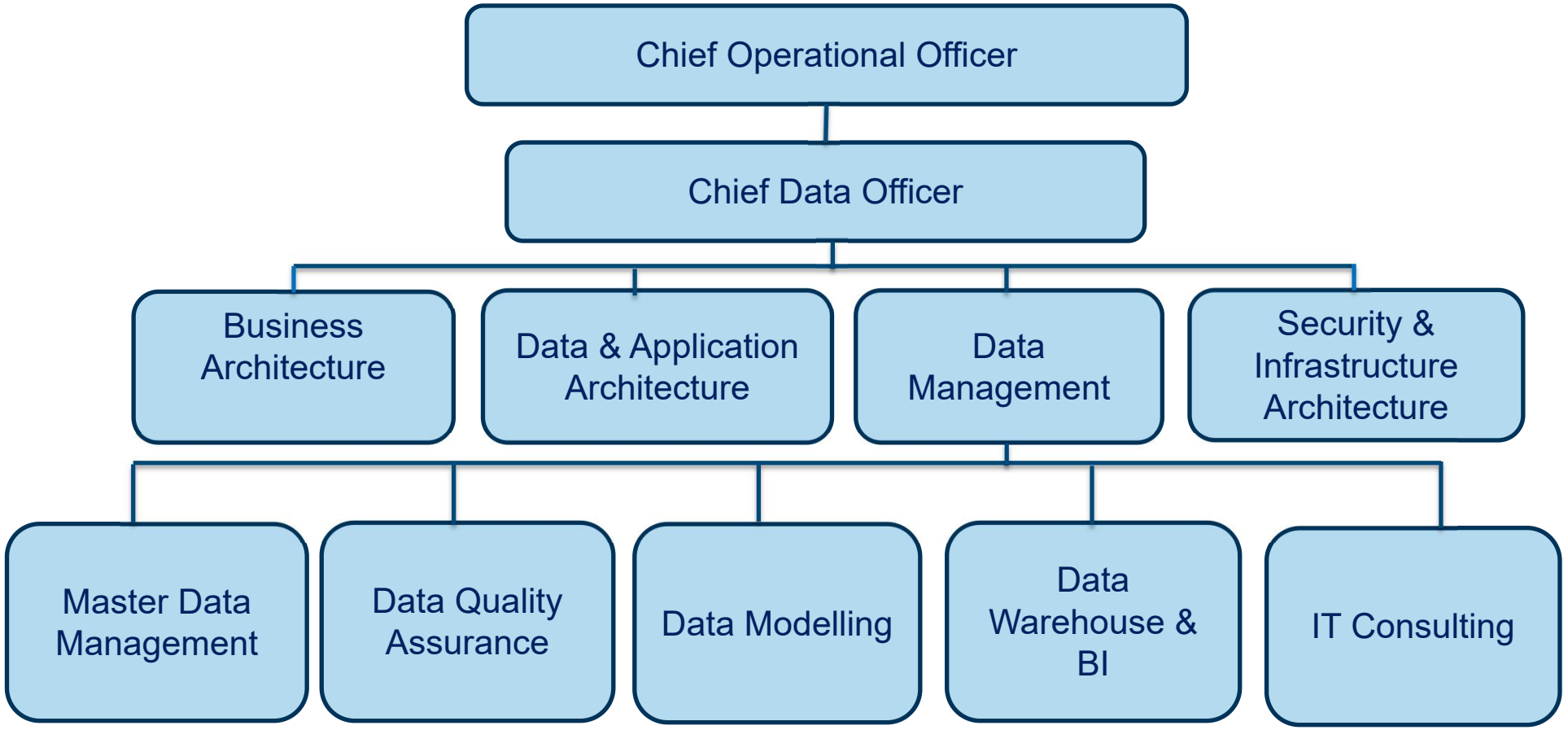
DATA GOVERNANCE

DELOITTE, 2017



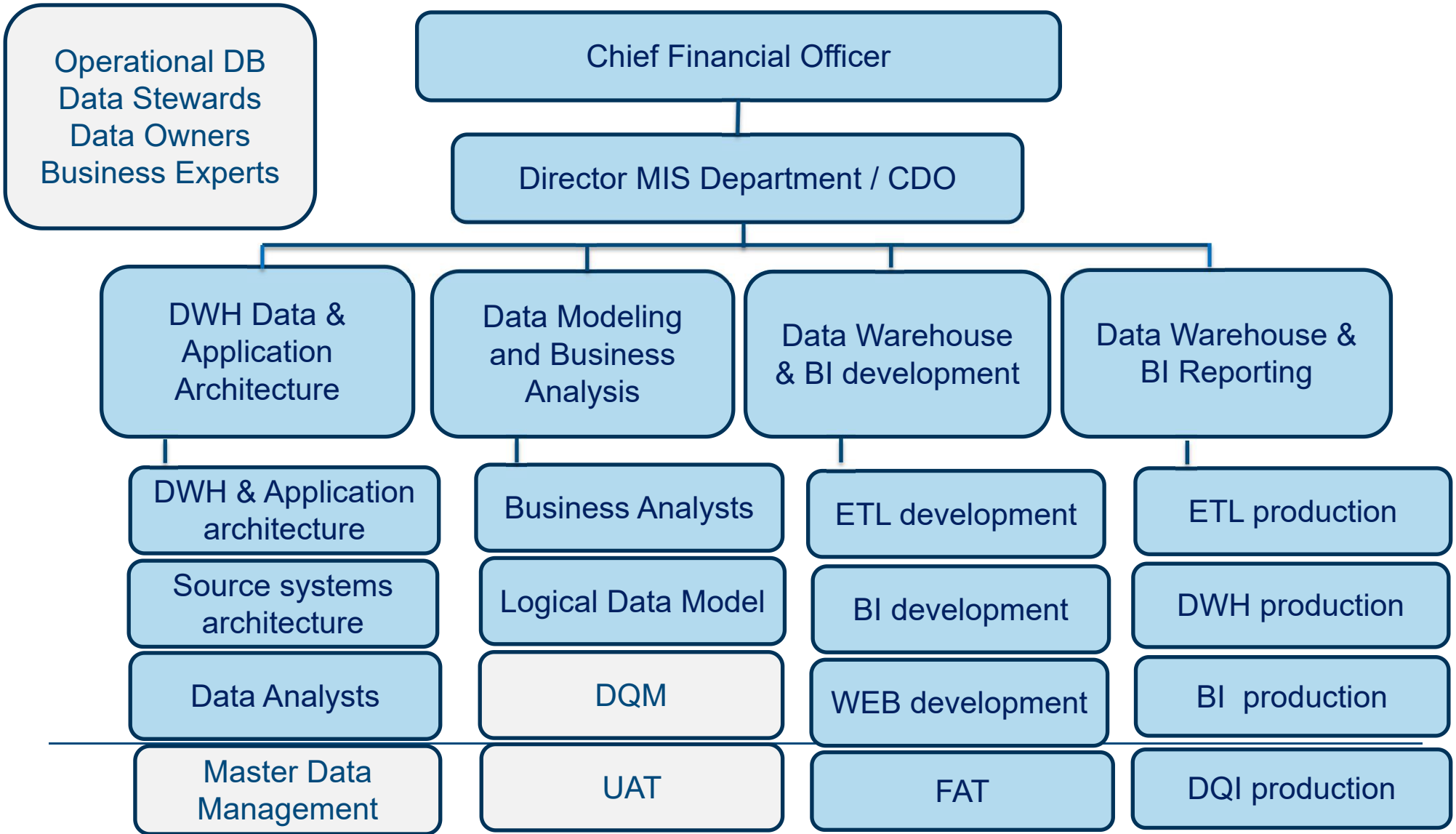
DATA GOVERNANCE

DELOITTE, 2017



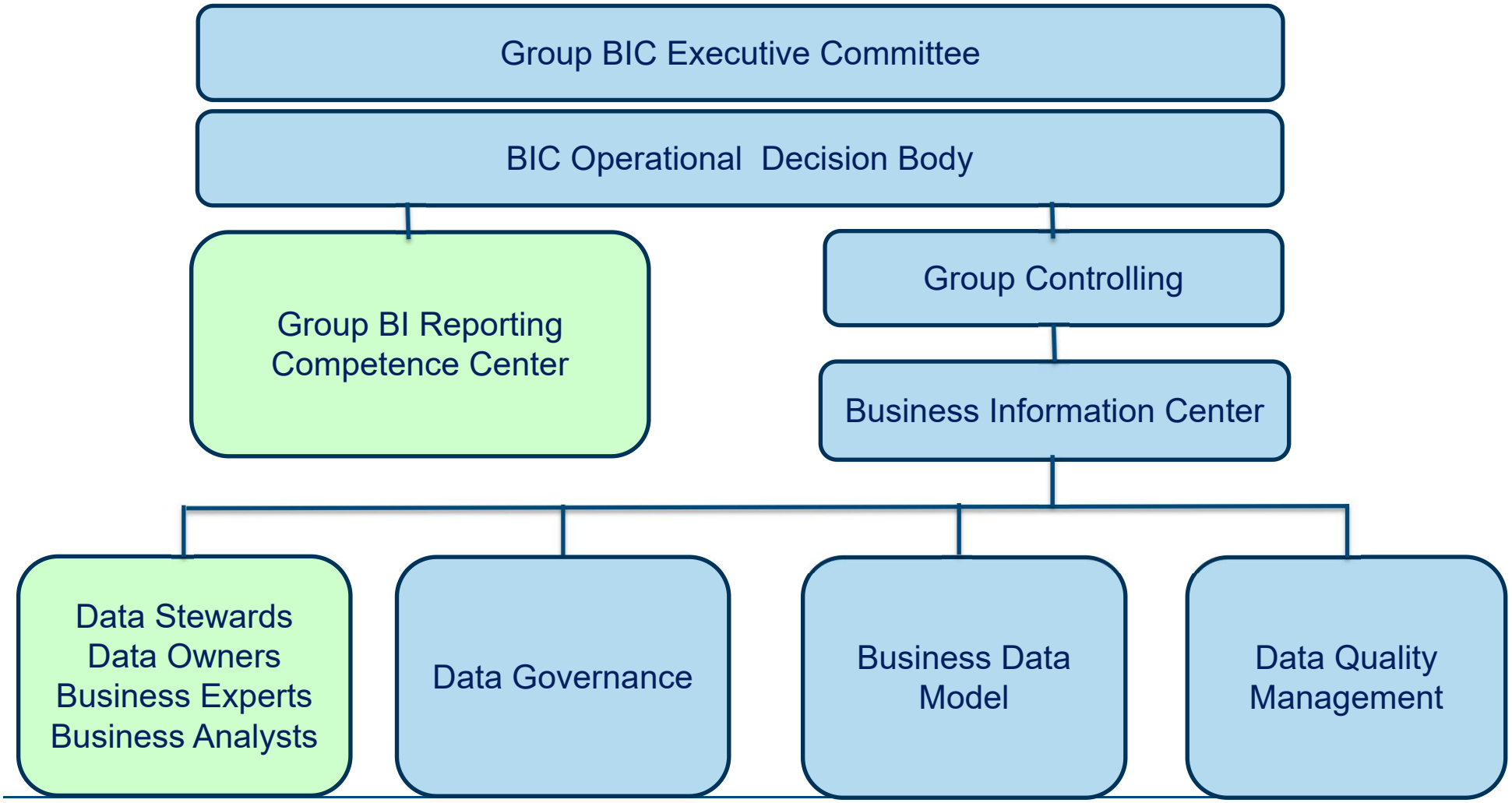
DATA GOVERNANCE

SSBU, 2017



DATA GOVERNANCE

ERSTE GROUP DG NETWORK, 2017



LESSONS LEARNED

UKRAINE

- The Chairman must support and regularly control the project performance
- The Business Sponsor (at the level of Deputy Chairman) must be appointed to take care of project deliverables
- Business users/experts must spend their time on business requirements, business terms and dictionaries definition
- A reliable IT consultant is important to mentor in IBM BDW, ETL and BI
- A future MIS owners should be appointed at the earlier stage to get transfer of IBM BDW knowledge
- A Project Manager must have the business knowledge, as well as strong leadership and communication skills, understand business and IT
- A DWH and applications architect is a key role in the project
- A qualified IBM BDW modeller is a second key role in the project
- Implementation team must be selected thoroughly; they must be fluent in English and be able to learn IBM BDW model and IBM tools
- It is important to involve source owners at early stages of the project
- IT must organise and maintain the IT infrastructure of DWH
- The key are information and relationships management

LESSONS LEARNED
AUSTRIA

- Data Governance Strategy
- Data Stewards
- Data Owners
- Business Analysts
- Business Experts
- Bank Data Manager
- Bank Data Modeller
- Data Quality Management
- BIC Operational Decision Committee
- BIC Executive Committee
- Harmonisation through locations