

XBRL Business Intelligence

Taxonomy-driven Data Warehousing and Data Analytics



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EIOPA XBRL Europe Seminar
Tallinn, April 2012

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Company Information

| | |
|------------------|--|
| Founded in: | 2000 |
| Headquarters: | Duisburg, Germany |
| Employess: | 200 |
| Executive Board: | Peter Neisius, Gotthard Tischner, Babara Lix |
| Chairman : | Prof. Dr. Peter Chamoni |

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Agenda

1

Why to bother with XBRL data?

2

What is XBRL and DPM semantics exactly?

3





How does it add value to S2 data analysis?

4

How does it work live?

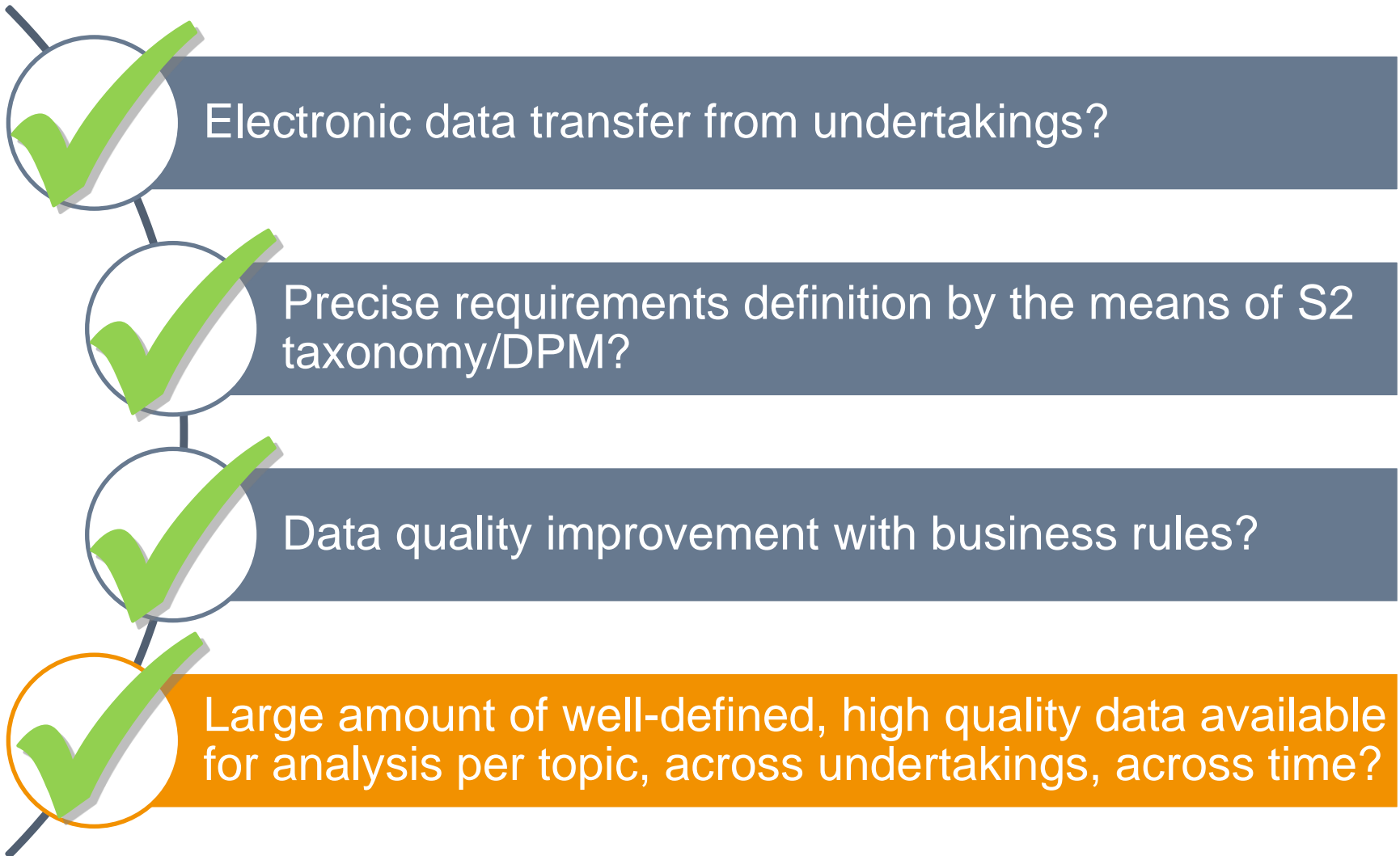
Why to bother with XBRL data?

Reasons for Solvency 2 going XBRL

-  To let software vendors sell XBRL tools?
-  To let insurance undertakings learn a new technology?
-  To let the EIOPA be at least as good as the EBA and better than the ESMA?
-  To improve efficiency of e-supervision in insurance sector across Europe?

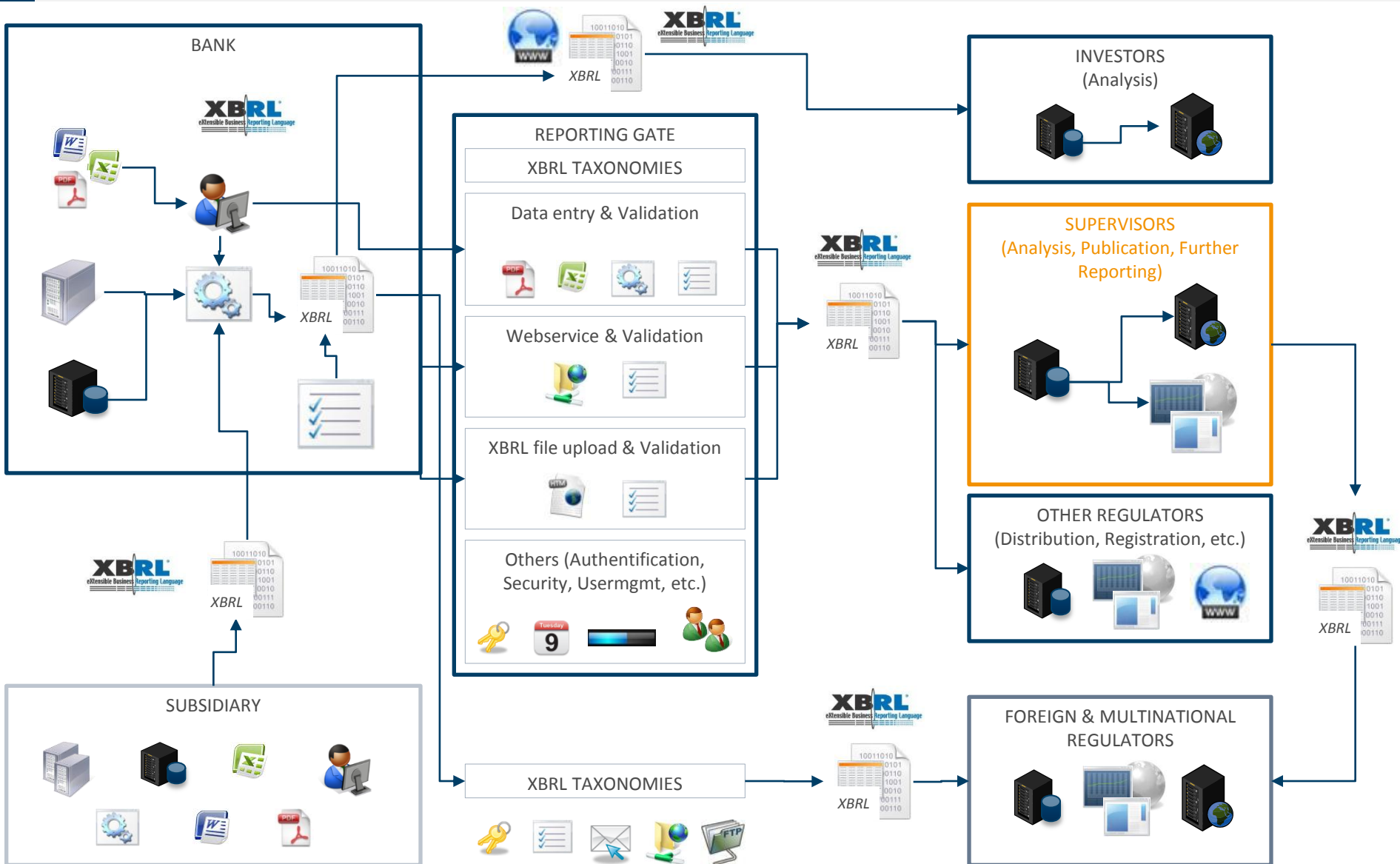
What is exactly the improvement?

E-Supervision with XBRL in insurance sector







Supervisory Systems and Electronic Reporting

Central roll of data analytics



How to analyse XBRL data?

Business Intelligence and XBRL

-  Looking at XBRL instance document code?
-  Using an XBRL viewer?
-  Buying an XBRL analytical tool?
-  Using Business Intelligence suites already in use and available on the market and understanding XBRL?

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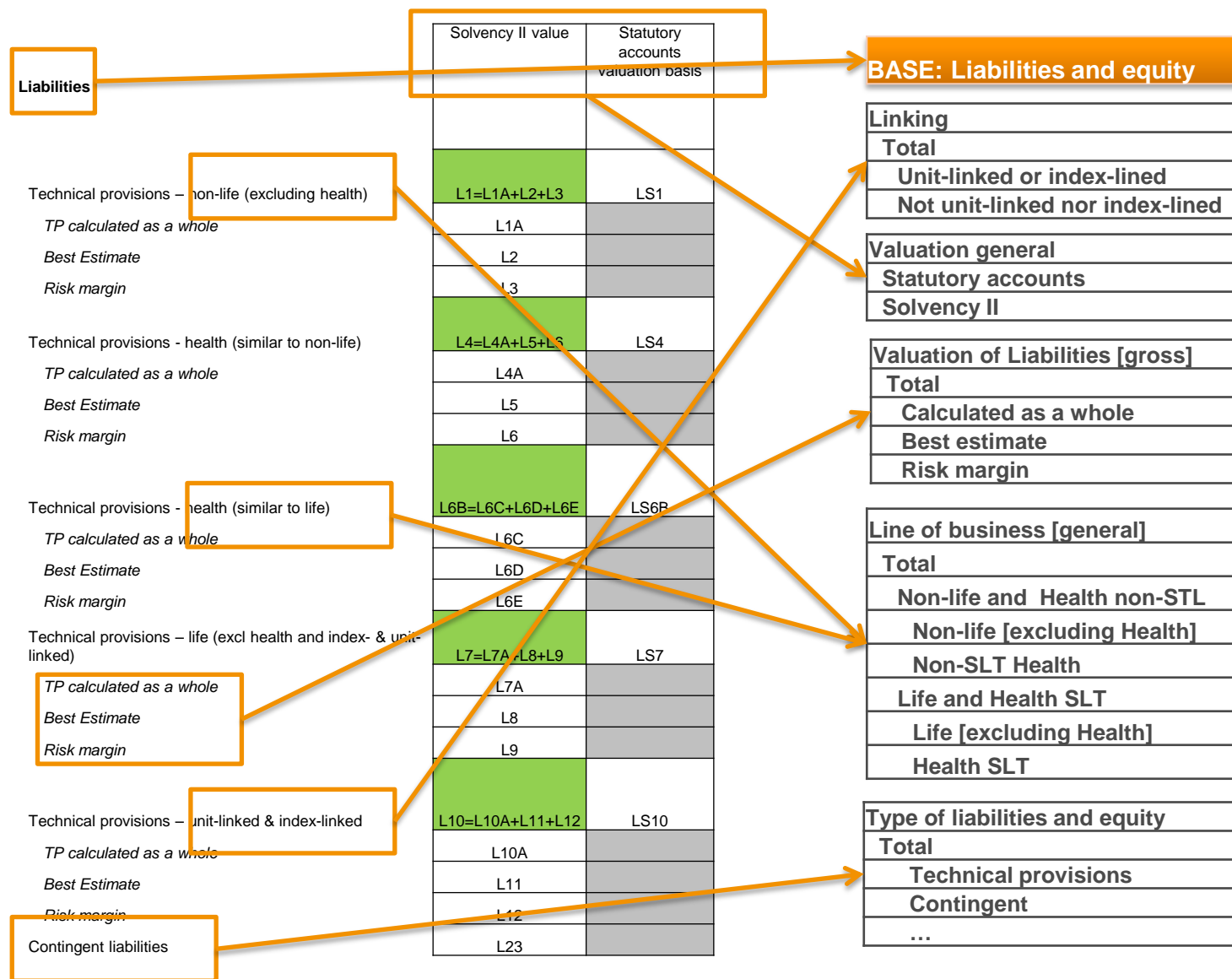
How does it add value to S2 data analysis?

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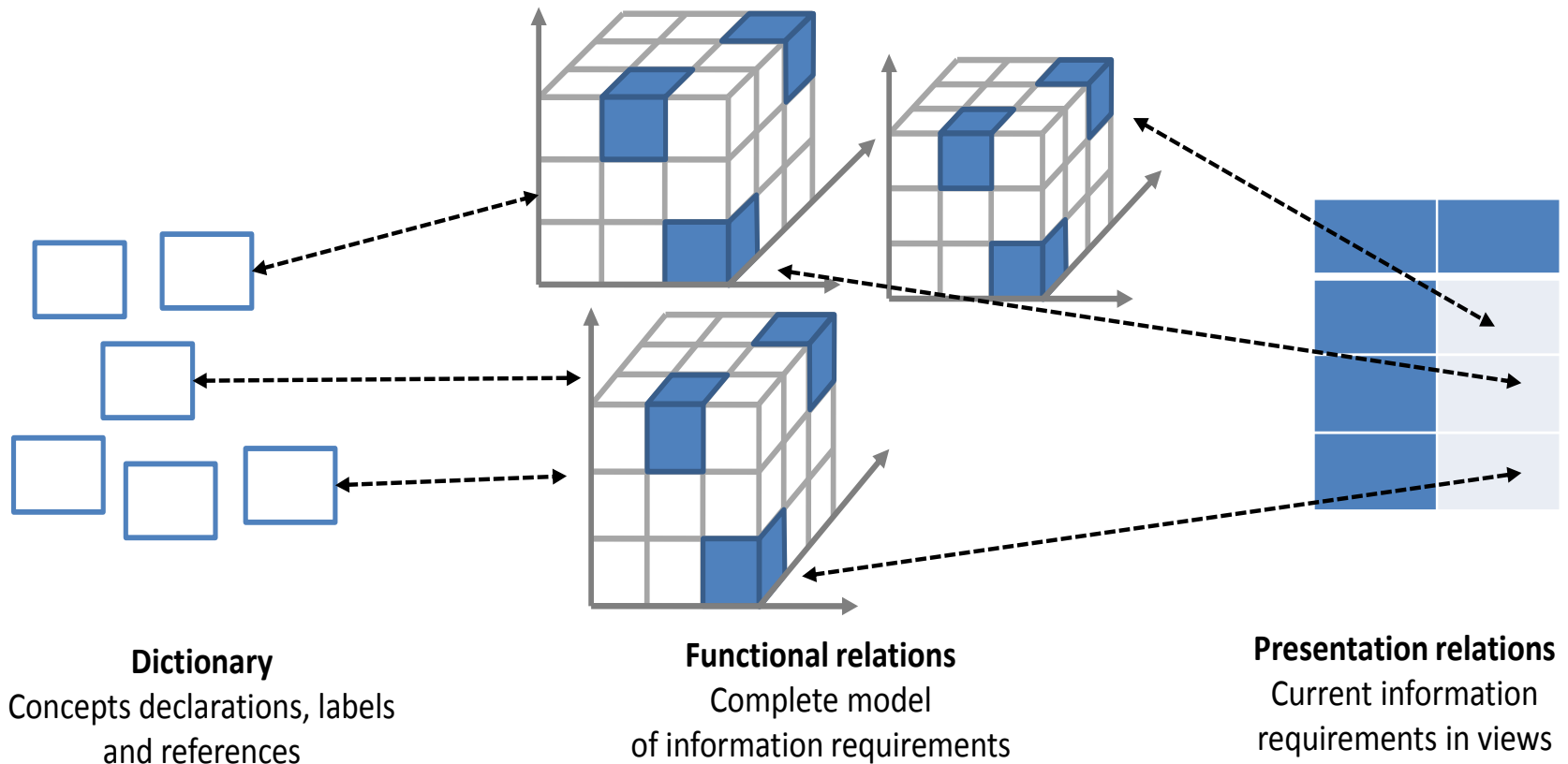
Role of XBRL Semantics

Presentational relations vs. functional relations



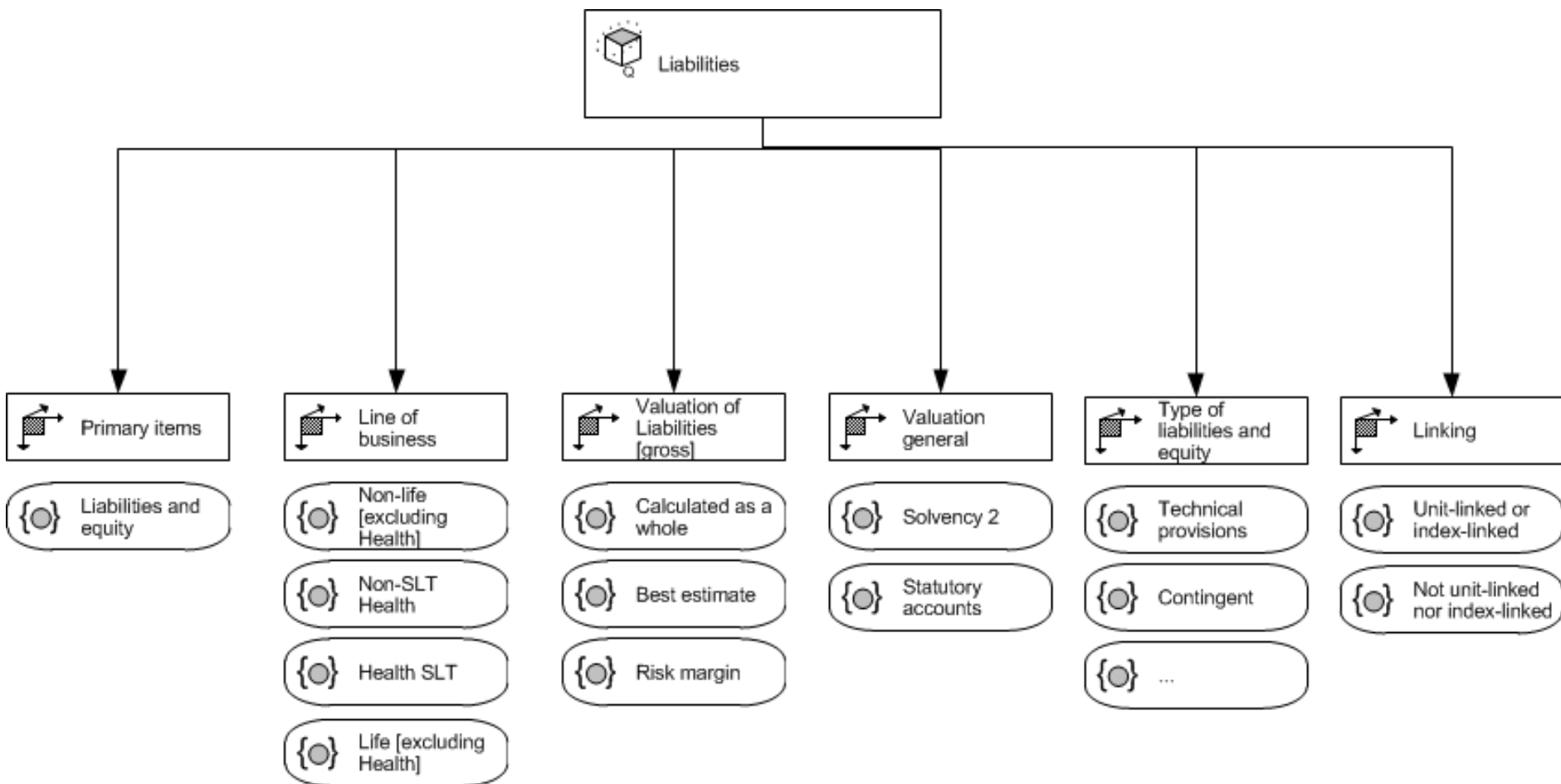
Understanding of Data Models

Presentational relations vs. functional relations



Semantics in XBRL

Possible breakdowns for Liabilities



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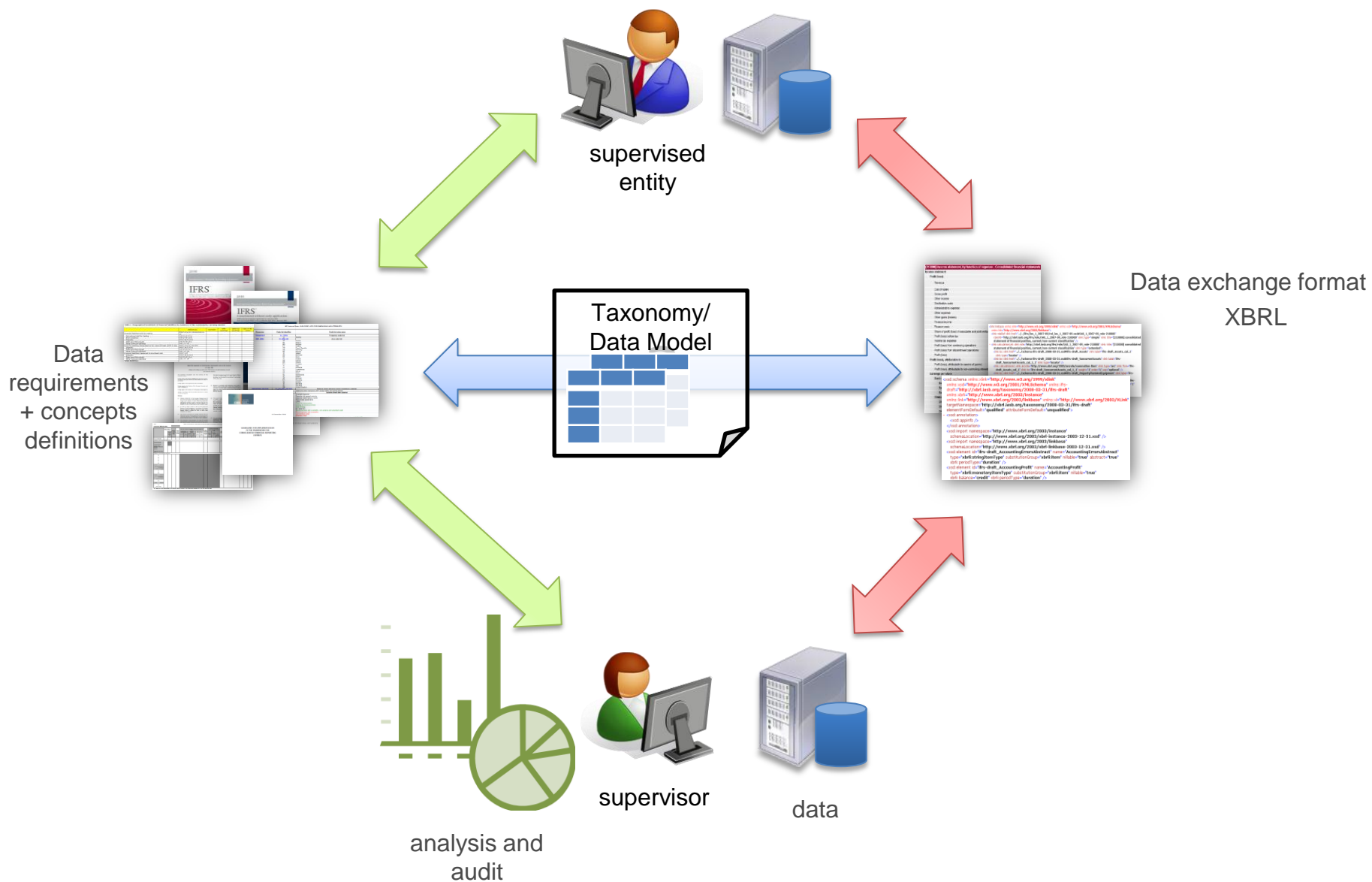
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Role of Data Models in Regulatory Reporting and Analysis

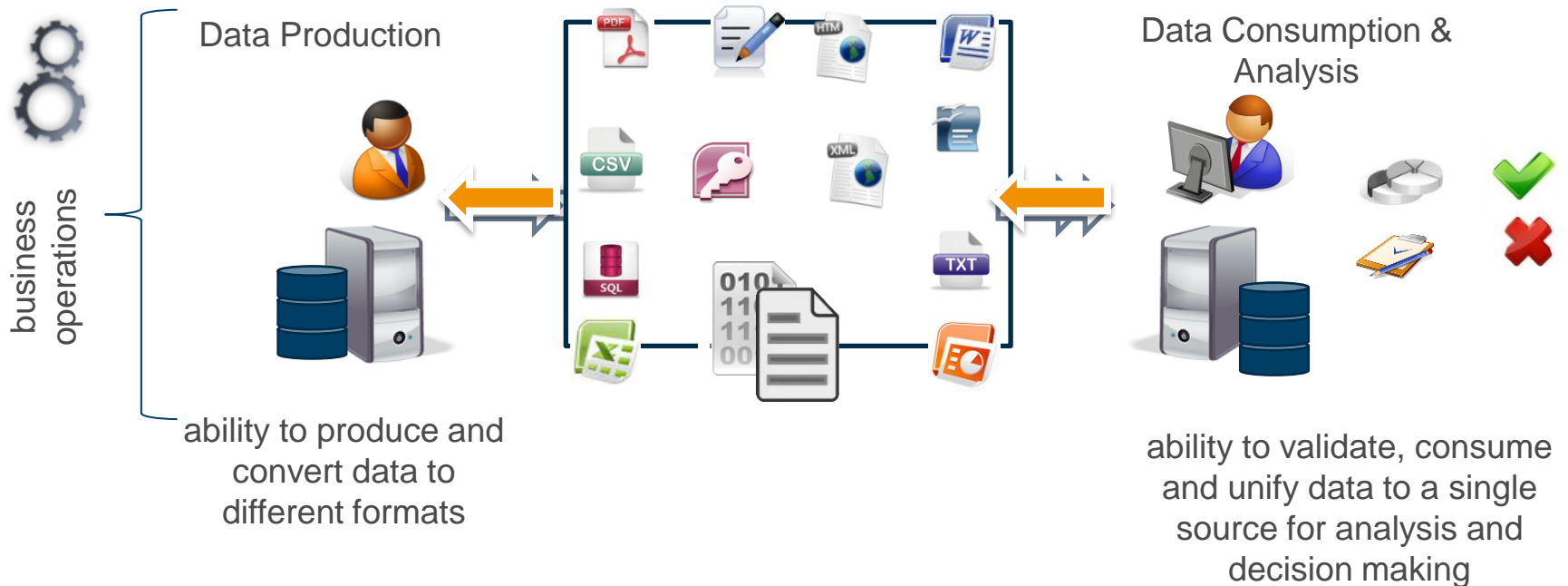
Improving efficiency of e-supervision



Reporting or analysis driven approach?

Who should be in charge of reporting requirements?

Daten Modell „Push“ vs. „Pull“ Approach



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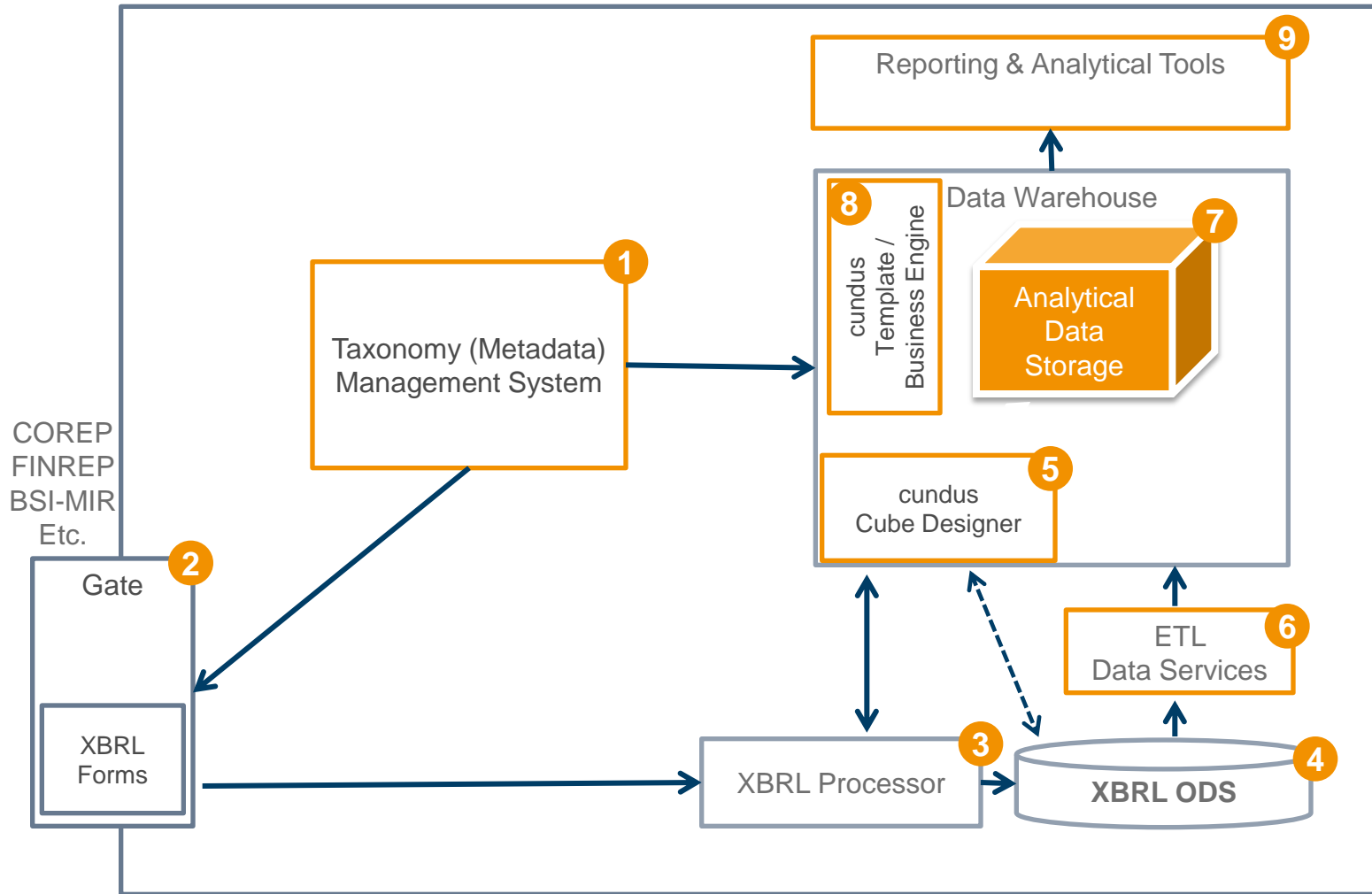
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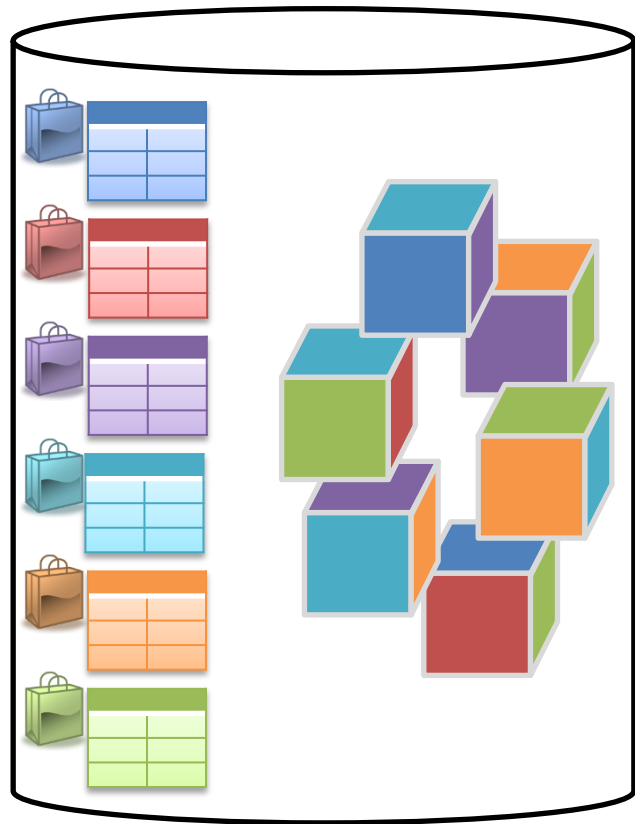
How does it work live?

Example Solvency 2 Regulatory Architecture

Taxonomy-driven data warehousing and data analytics

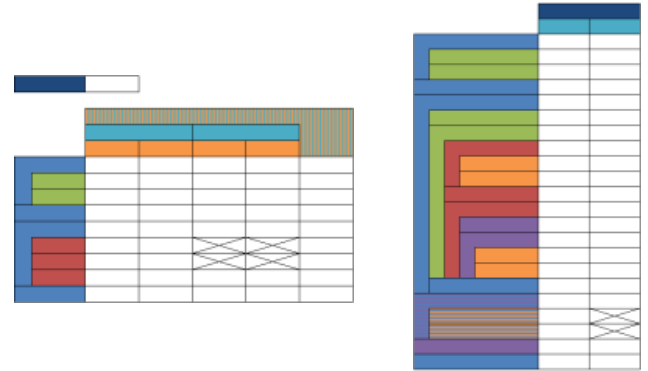


Analytical Possibilities with Data Models

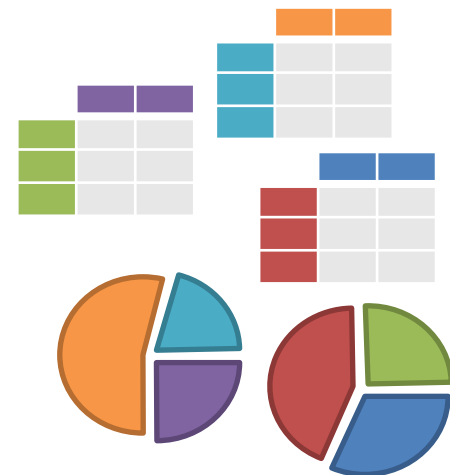


Data modelling
(e.g. by regions, by products, by
clients, etc.)

static
views
→



→
dynamic
analysis



Management Summary

XBRL Tools or BI Tools?

XBRL Tools for Analysis

- ✓ Strong connection to XBRL specification/syntax
- ✗ “Reinvent the wheel”, can not leverage on decades of improvements in Business Intelligence
- ✗ Proprietary solution does not fit into the overall IT landscape
- ✗ Scarce of resources
- ✗ **“Kindergarten BI”**

BI Tools for Analysis of XBRL

- ✓ Leverage of XBRL semantics throughout the BI cycle
- ✓ Leverage on performance, user / rights management, existing infrastructure, existing concepts for e.g. historical truth vs. current truth, change management, solid processes, reliable / tested products, system landscape integration, data sources integration
- ✓ Protect investments already made in existing analysis systems, support available (consultants) through wide use, continuing development efforts in coming years
- ✓ Availability of resources
- ✓ **Professional BI Framework**



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