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THE FUTURE OF BUSINESS REPORTING

Standardising Enterprise Reporting with XBRL: A Framework

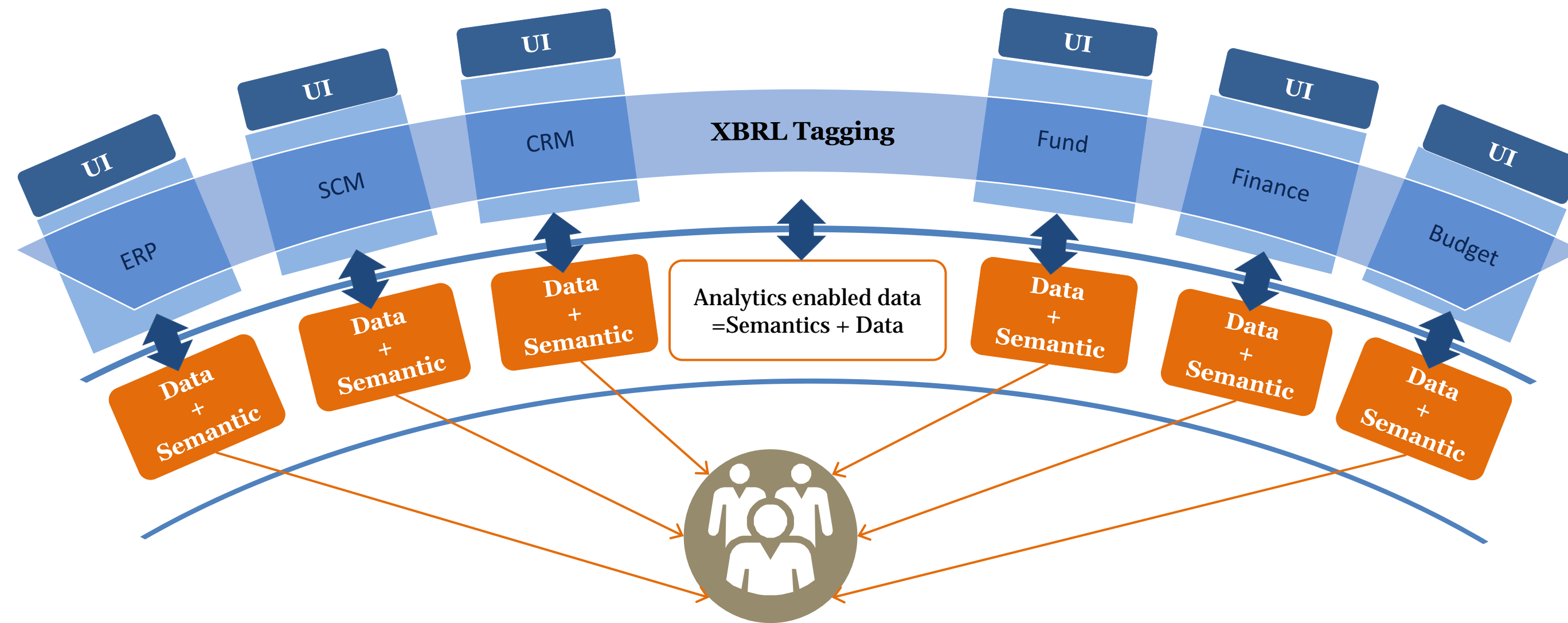
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Solution

XBRL enabled real time intelligence



Value Proposition for Standardised Enterprise Reporting with XBRL

Integrating data from various systems within an enterprise:

- Different data standard from various systems;
- Forever changing data analysis requirement from different business users;
- Complex data models / real time computation

The Framework -- Design Principles

Business user driven

To combine all data together, we need an integrated standard to define data standard suitable to various industries for different purpose within enterprise, which is compatible with data from various systems and self-explanatory.

Data-Centered Standard

To meet business requirement, the framework should be designed easily to be understood by business users.

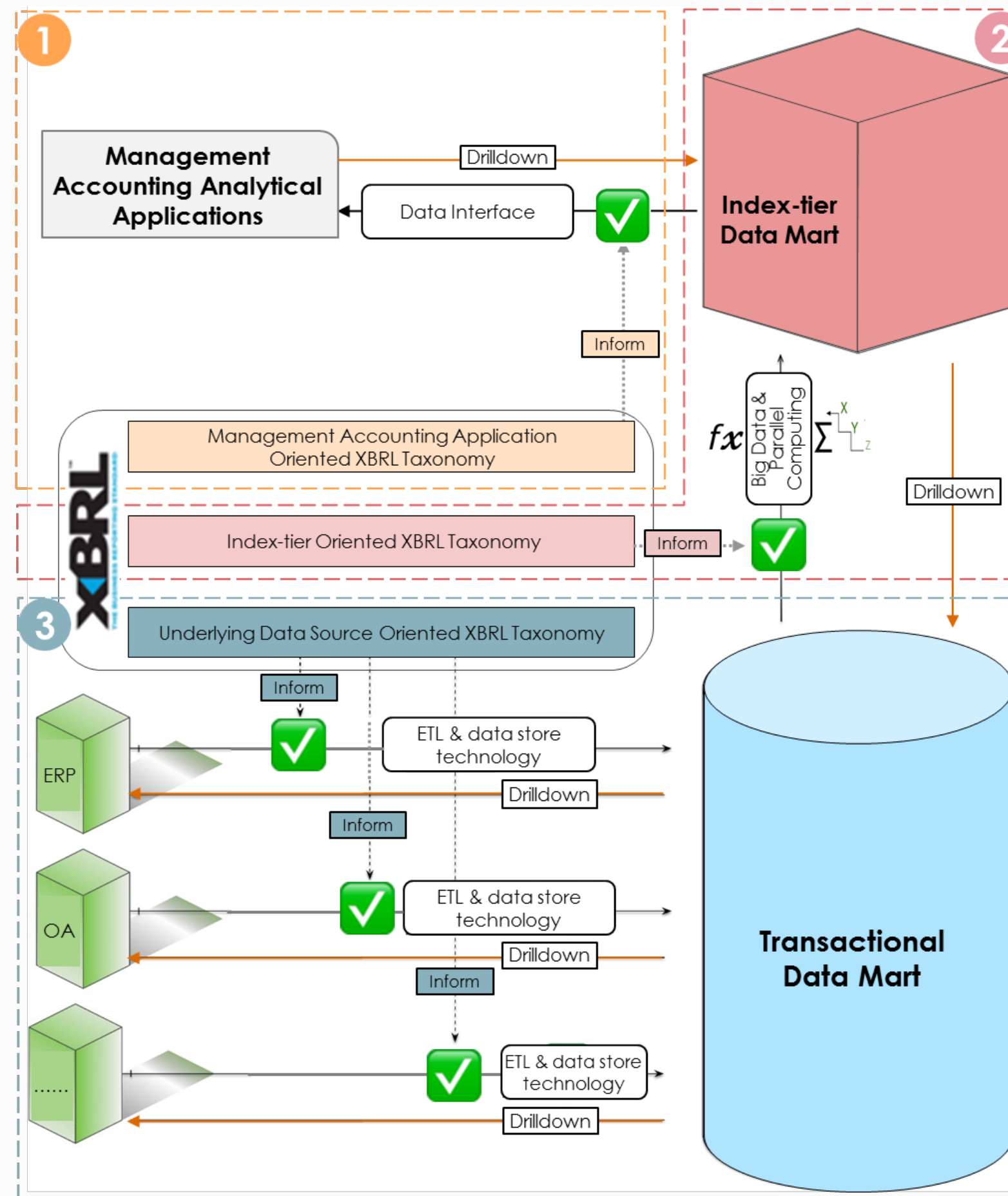
Compatible Eco-system

The framework should be flexible and adaptable to different systems and databases.

Open Standard

The framework should be opened to regulators, corporations, software developers and consulting institutes.

The Conceptual Framework



The Framework – Which part can be standard driven

- Data Interface through API
- Standard management accounting taxonomy
 - KPIs (aggregated data)
 - Master data
 - Transactional data
- XBRL-SQL/No-SQL
- XBRL-Hadoop

- Eventually, whatever can be standardised to realise Data-as-a-Service (DaaS) should be part of XBRL specification in the future.

The Framework – Ecosystem

- Go beyond a set of technical standards
- Building open-source component to expand the eco-system, imagine if:
 - XBRL data can be visualised in Qlik/Tableau without programming
 - Mainstream ERP system generates XBRL-tagged data automatically
 - Developers have plug-and-play SDK when deploy XBRL data solution to SQL/No-SQL databases working with Hadoop computing environment
- The aim of the eco-system is to enable Data-as-a-Service to business users and technical developers.

The Framework – Ecosystem

What does it mean to business users?

- Run a report in a WYSIWYG manner.
- Drill down capability / interactive data

What does it mean to technical developers?

- XBRL technical know-how encapsulated in APIs and SDKs
- Taxonomies, i.e. the definition of data, drive a data analytics solution, instead of database structure, technical specification of the BI tools etc.

The Framework – A brief summary

- A holistic standard driven Data Analytics solution
- Low cost
- Focus on enabling Data-as-a-Service
- It's a eco-system. More than a set of technical specifications

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