



VI CEBS-XBRL Workshop

Madrid, 4-5 October 2006

Extension of Bdl Statistical Information System to manage standard XML-based data formats

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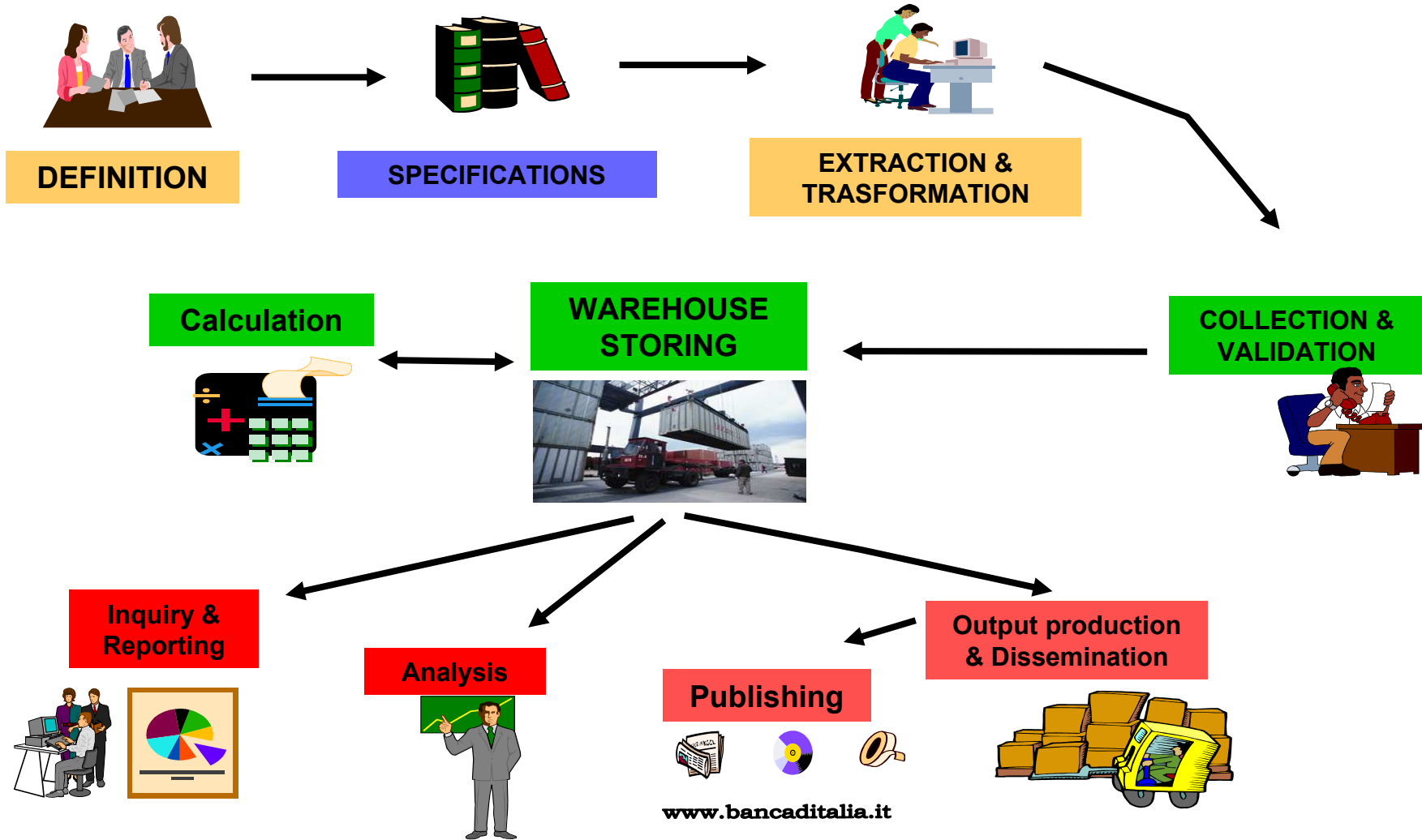
Agenda

- Primary Reporting in Bdl.
- The IT solution.
- Extension of the IT solution to manage additional formats (XBRL, SDMX-ML).
- Q & A.



Primary Reporting in Bdl

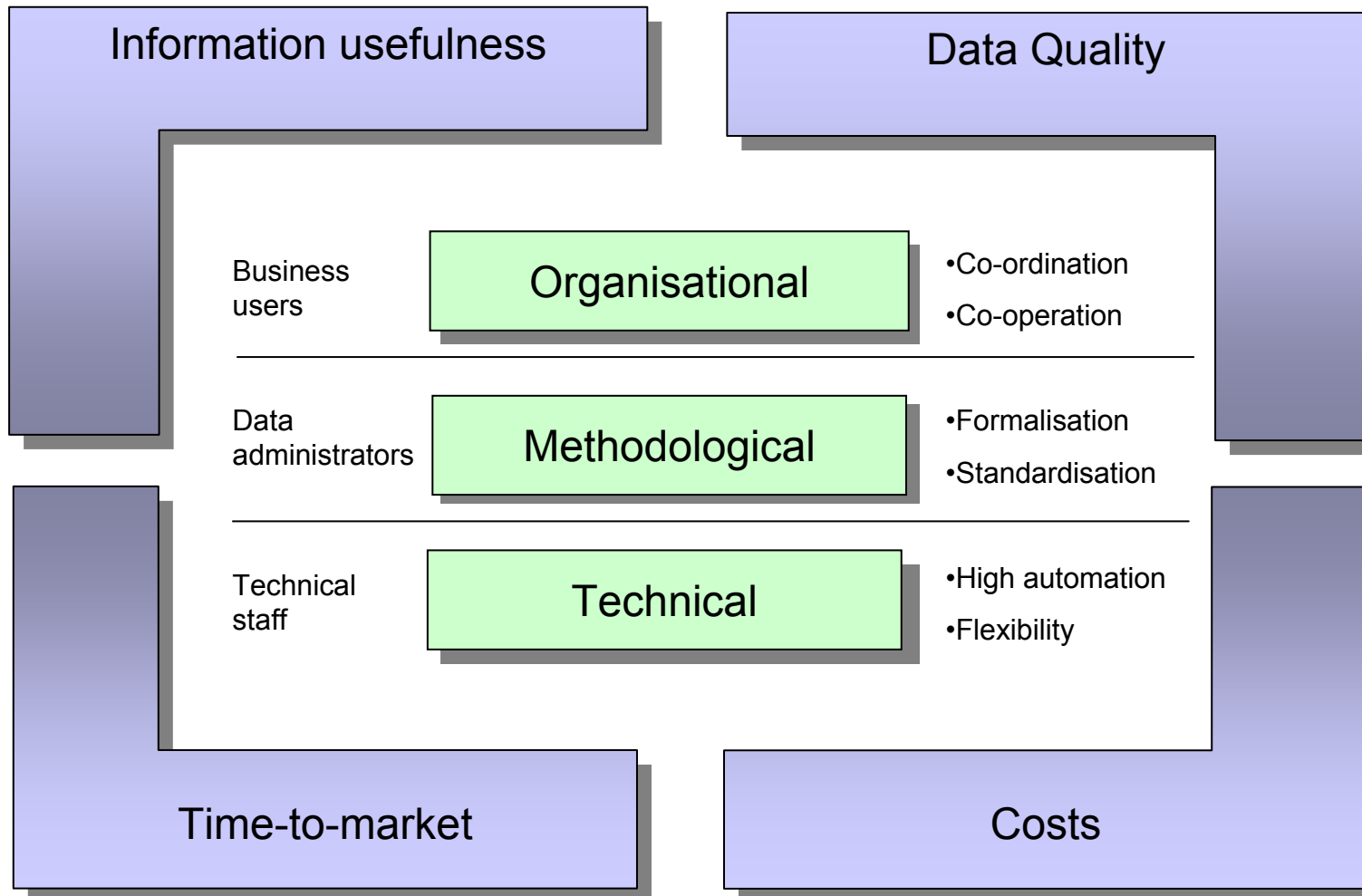
A process oriented view





Primary reporting supply chain

Roles, Means, Objectives





Software architecture foundations

- **Comprehensive data model for both: content and process**
 - *A set of rules able to model a “generic” statistical data.*
 - *Electronic data dictionary*

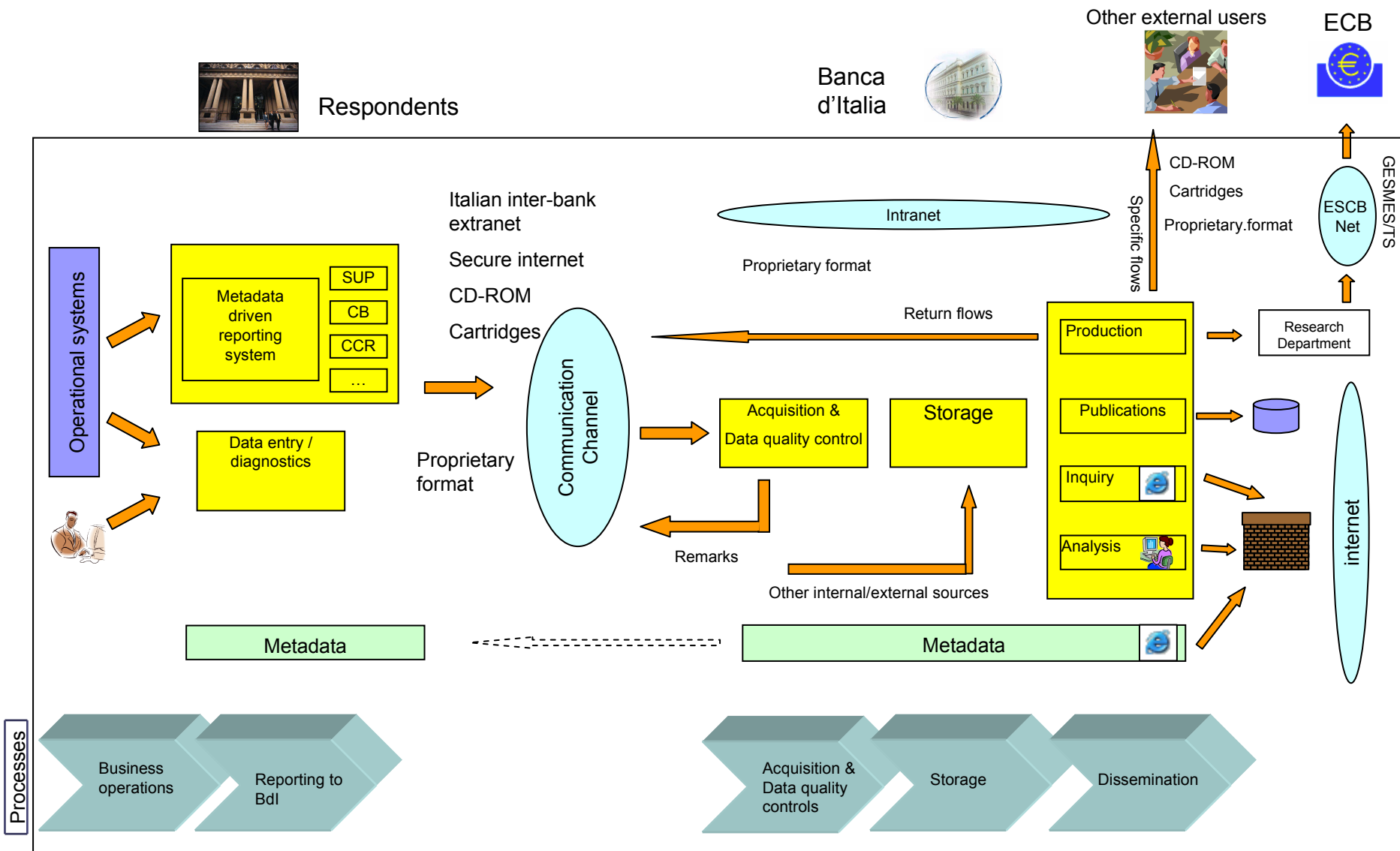
- **Metadata driven**
 - *Software takes “instructions” from the dictionary at the runtime*

- **Component based**
 - *Each component covers a specific part of the process*
 - *Each component is able to handle every data described according to the unified rules*

- **Essential and integrated data base system**
 - *Banca d'Italia data administrators have full control of the reporting system behaviour and evolution*
 - *Italian banks have a concrete help in the production of data to be reported*

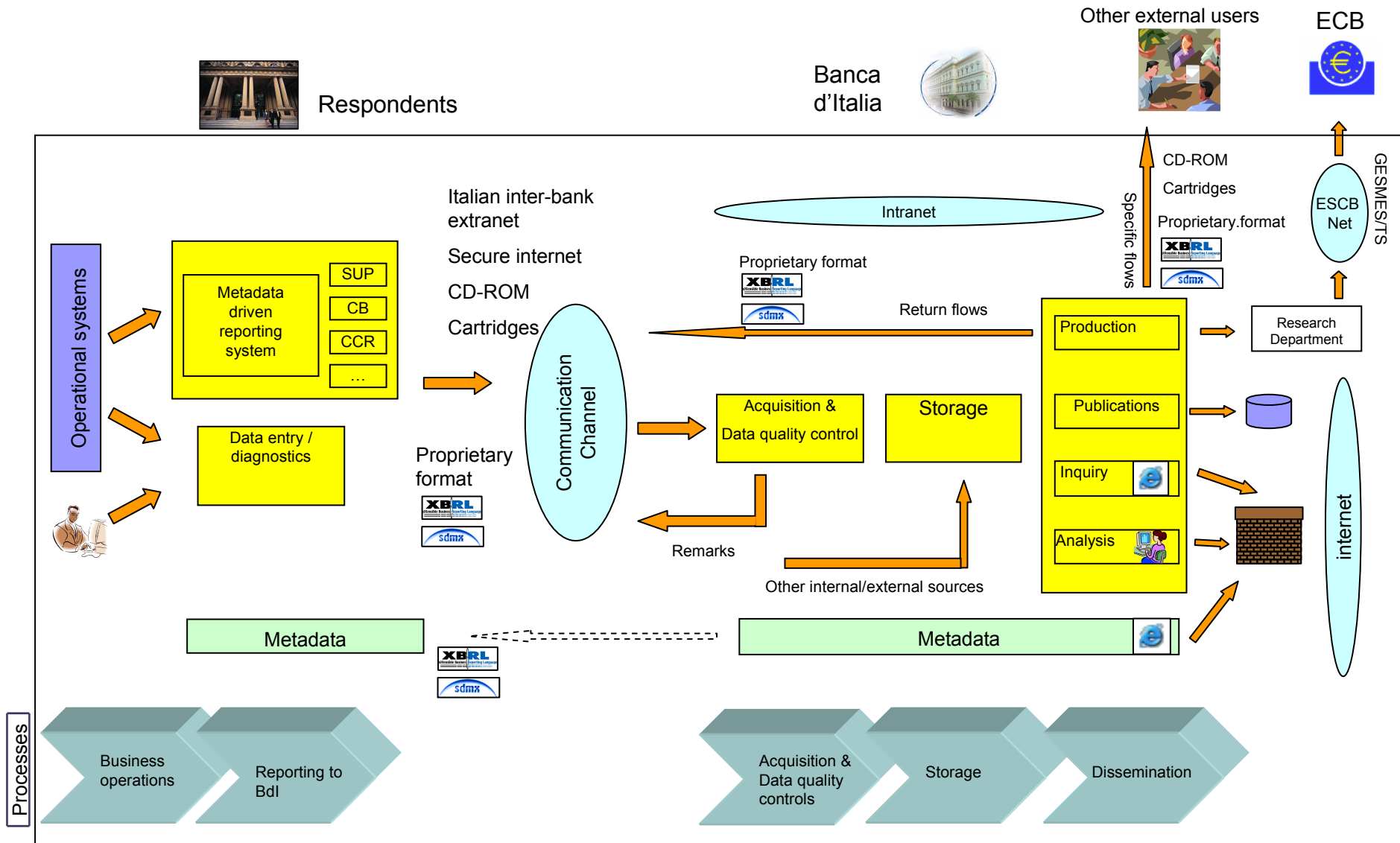


The IT solution as it is today





The IT solution as it will be in a few months





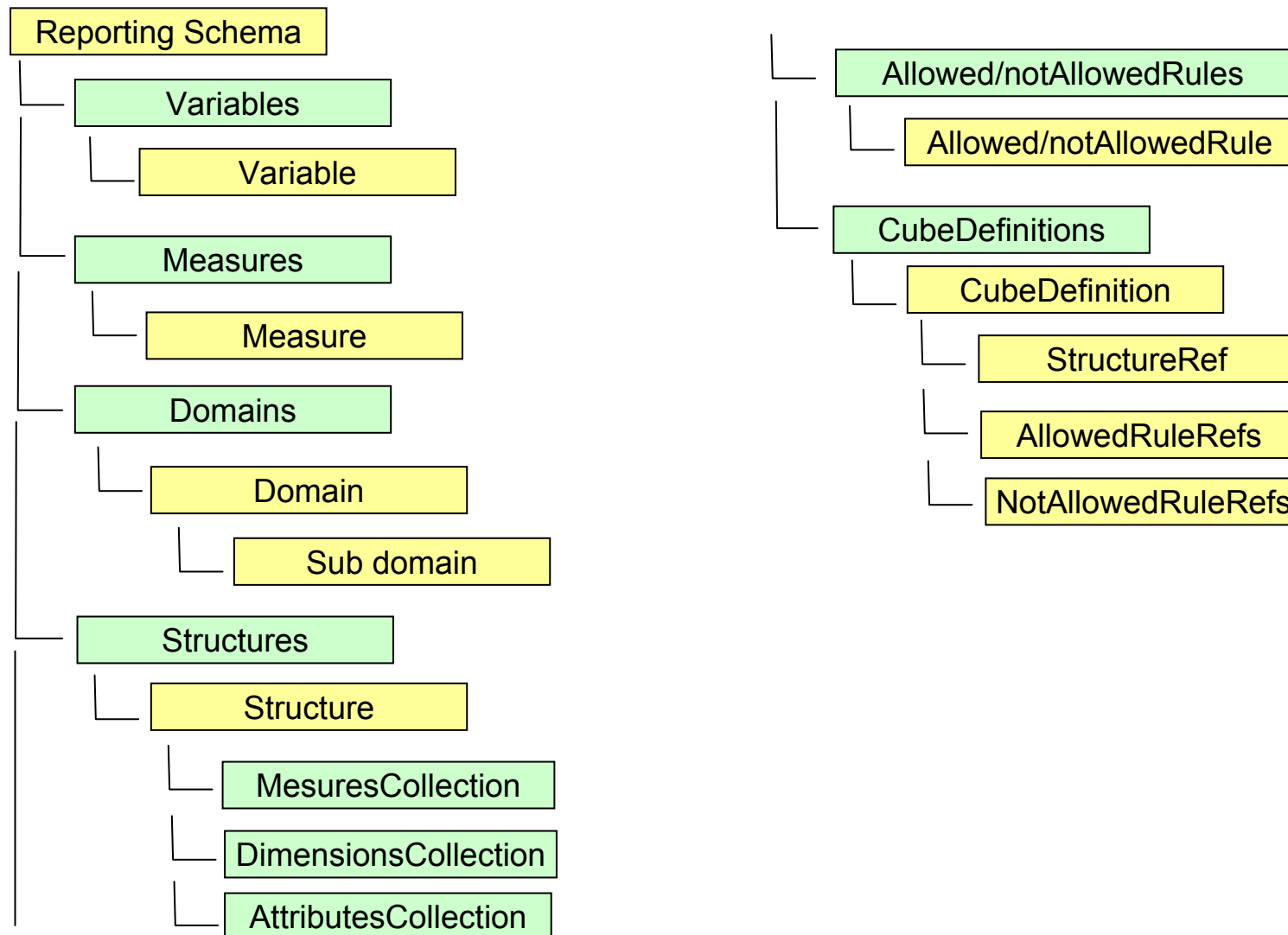
The technical solution

- **A new “component” that allows:**
 - semantic interoperability, in the form of mapping among XBRL/SDMX metamodel and Bdl metamodel
 - transformation from one data format to another

- **Available functions**
 - Export/import of metadata to/from our data dictionary
 - Transformation from XBRL/SDMX-ML data formats to our proprietary format
 - Dissemination using XBRL/SDMX-ML data formats

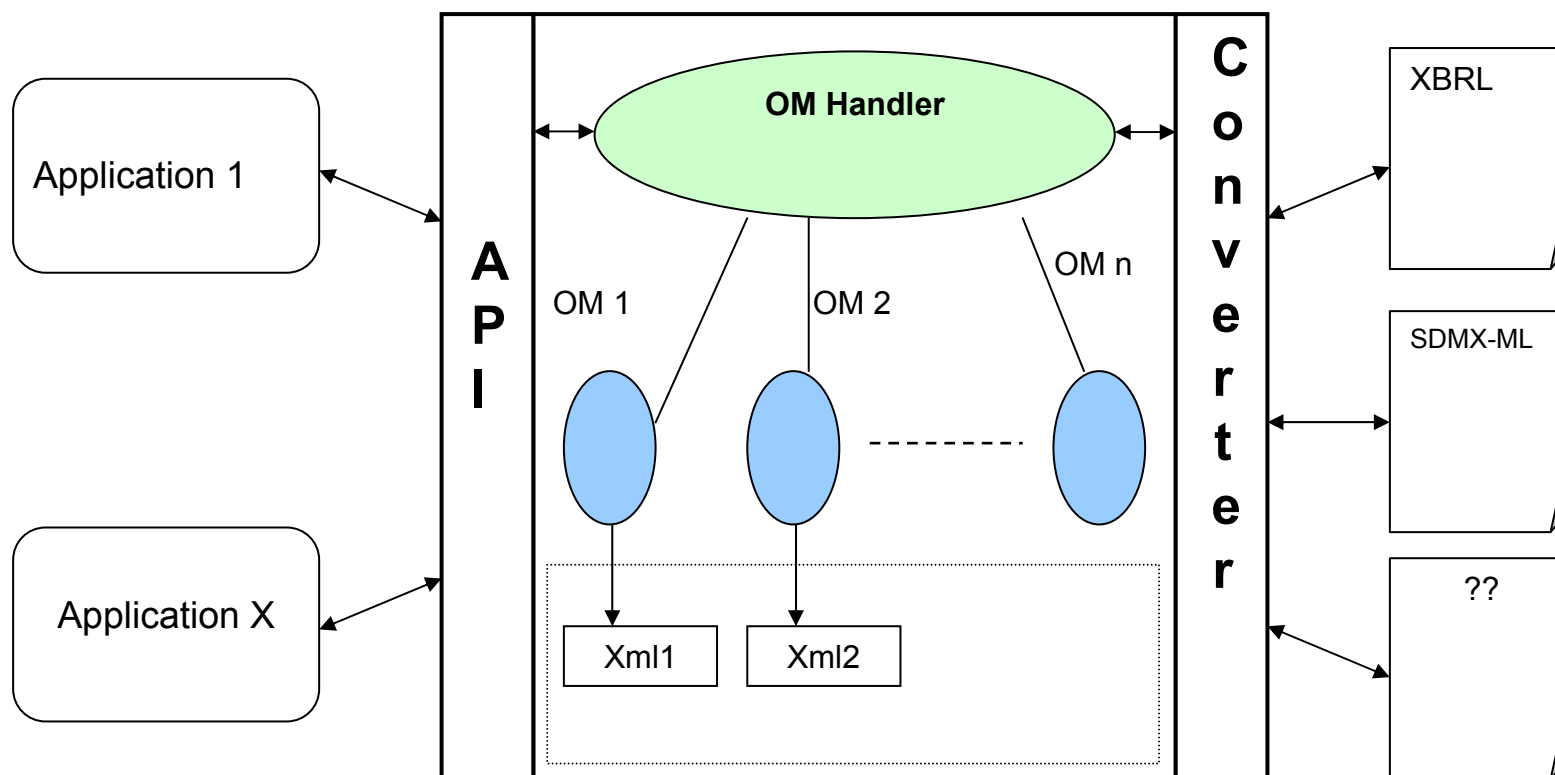


The new component: Object model overview





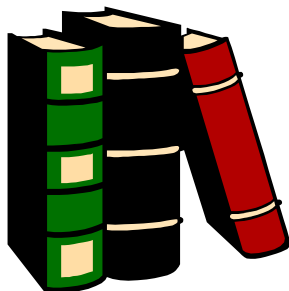
The “core” architecture of the new component





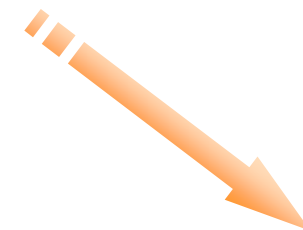
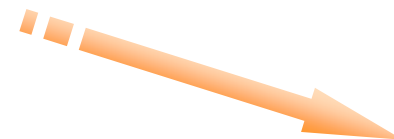
Export from the data dictionary

Manage



Data dictionary

Export



“Matriciale”

Loans	X	X	
Deposits			X

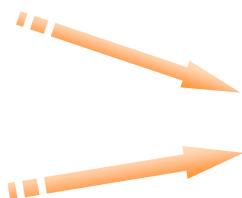




Import into the data-dictionary

Import into Excel

Import into the dictionary

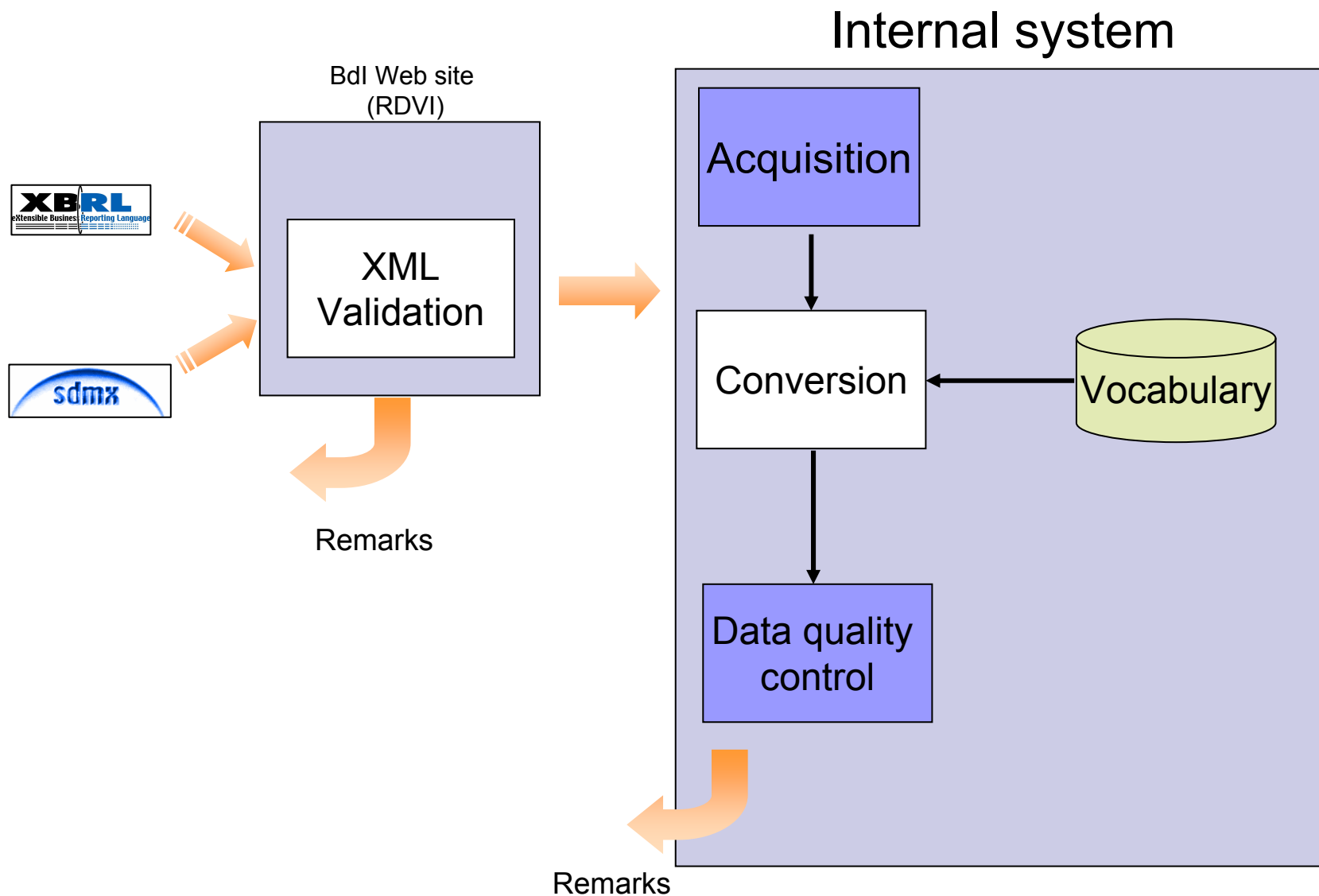


Data dictionary





Data transformation

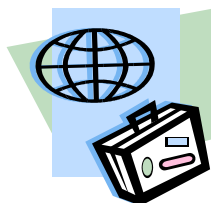




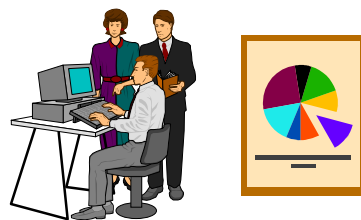
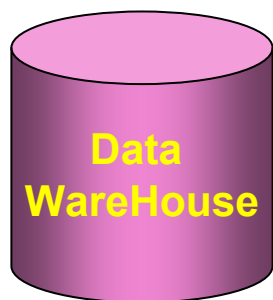
Dissemination



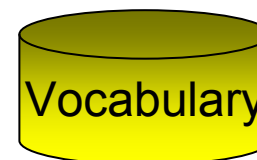
Inquiry



Production



Analysis



Publishing



The project

- System available by 1° quarter 2007
- Generalized solution
- No change imposed on data administrators
- No change imposed on reporting institutions



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Any questions ?

Thank you