24th XBRL International Conference

"Transparency: with Available, Reliable, Comparable and Re-usable Data"

March 20-22, 2012
Abu Dhabi, UAE

Project Implementation Workshop
Taxonomy Development Approaches

Paul Hulst Deloitte

Wednesday 21st March 2012 & Thursday 22nd March 2012
09.00 – 09.40

XBRL eXtensible Business Reporting Language

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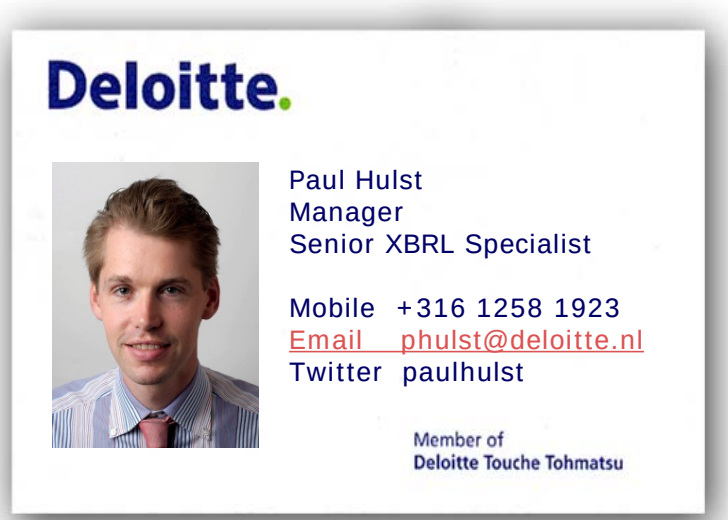
Goal of the session

- Introduction into XBRL
  - Major terminology
    - Taxonomy, linkbases, concepts
    - Instance: facts, context, unit
- Understand modelling
- Architecture
- Development approaches

Speaker



- Deloitte Innovation XBRL Team
- Involved in XBRL since 2007
- GRI – taxonomy architect
- Dutch Government – taxonomy design for grant requests using XBRL formula
- Deloitte – XBRL instance creation application design

Introduction into XBRL

Taxonomy

- A **dictionary** that defines **reporting terms** and the **relationships** between them

Instance file

- Containing **fact values** with **context information** and **unit / currency** measurement based on the taxonomy

Concept =
id
name

Linkbases
Label
Reference

Presentation
Calculation
Definition

XBRL Conversion Limited

Company Registration No. 01234567

Income Statement	Notes	2010 $'000	2009 $'000
Sales Revenue	1	10,093	11,194
Disposal Revenue		500	–
Cost of sales		(9,432)	(10,123)
Gross Profit		1,161	2,232
Administration expenses		(623)	(564)
Finance costs		(600)	(600)
Profit/(loss) before tax		(62)	1,068
Income tax expense		–	(427)
Profit/(loss) after tax		(62)	641

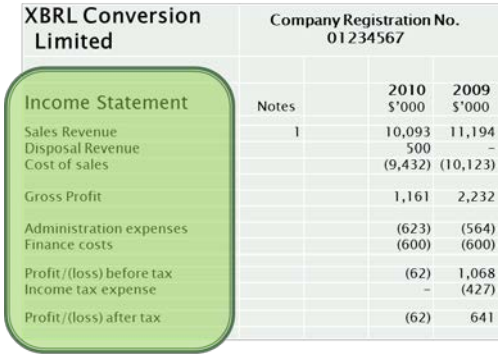
Context =
identifies reporter, time, breakdown

Unit =
identifies unit of measurement (e.g. currency $)

Fact =
Value
Context reference
Unit reference
Accuracy

Footnote =
Additional information about fact

Concepts & linkbases



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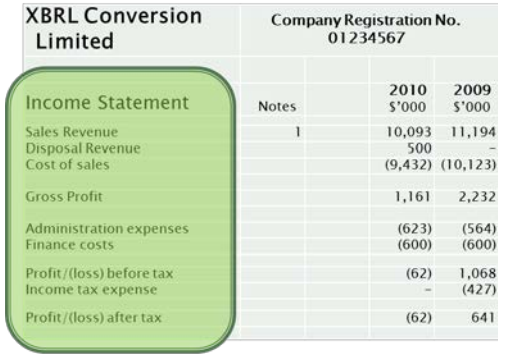
Attributes of a concept

Id	Unique identifier Technical purposes	Demo_SalesRevenue
Name	Descriptive	SalesRevenue
Data type	Kind of data captured	Monetary
Period type	Valid for a period (duration) or one moment in time (instant)	Duration
Abstract	Not allowed to assign a value to it?	False

Documentative linkbases

Label	Multiple types, multiple languages	Revenue from Sales
Reference	Authoritative text	IAS 18 35 b

Linkbases



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Describing structures of concepts

- Presentation

  to helps the user understand what is in the taxonomy and find particular concepts easily

- Calculation

  to check summations (A + B = C)

- Definition

  most common usage is defining a breakdown structure

- Formula

  to check business rules and generate new values

Instance

```
<xbrl
   xmlns:demo = “http://xbrl.demo.org/taxonomy/demo.xsd”

<xbrli:context id=“Y10">
     <xbrli:entity>
          <xbrli:identifier scheme="http://www.kvk.nl/kvk-id">40346342</xbrli:identifier>
     </xbrli:entity>
     <xbrli:period>
          <xbrli:startDate>2010-01-01</xbrli:startDate>
          <xbrli:endDate>2010-12-31</xbrli:endDate>
     </xbrli:period>
</xbrli:context>

 <xbrli:unit id="USD">
          <xbrli:measure>iso4217:USD</xbrli:measure>
</xbrli:unit>

<demo:SalesRevenues decimals=“-3" contextRef=“Y10" unit=“USD">10093000</demo:SalesRevenues>
```

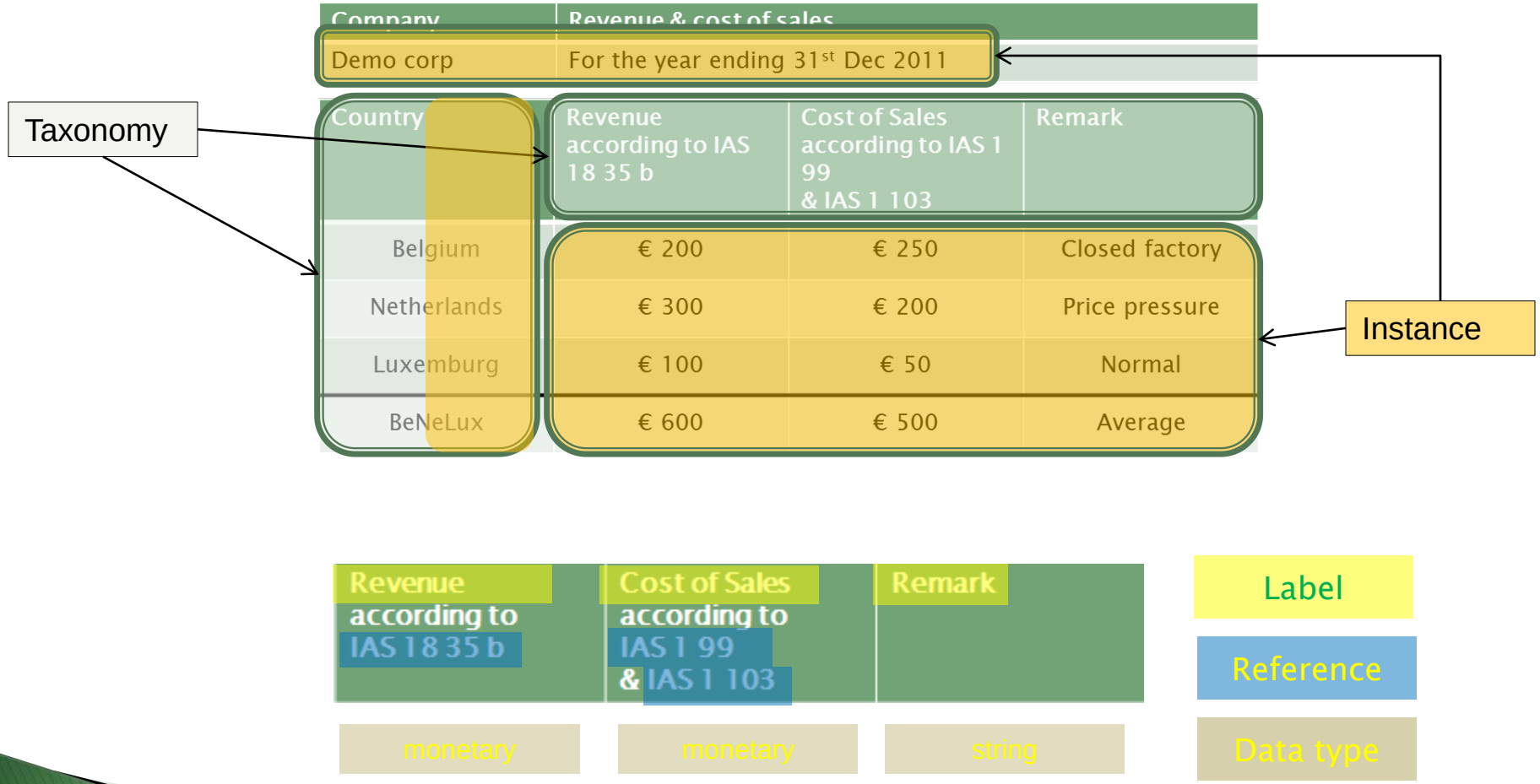
Exercise

Company	Revenue & cost of sales
Demo corp	For the year ending 31st Dec 2011

Country	Revenue according to IAS 18 35 b	Cost of Sales according to IAS 1 99 & IAS 1 103	Remark
Belgium	€ 200	€ 250	Closed factory
Netherlands	€ 300	€ 200	Price pressure
Luxemburg	€ 100	€ 50	Normal
BeNeLux	€ 600	€ 500	Average

What do you think are the facts?
What do you think are the concepts?
For those concepts
- what is the data type?
- what is the label?
- what is the reference?

Possible solutions



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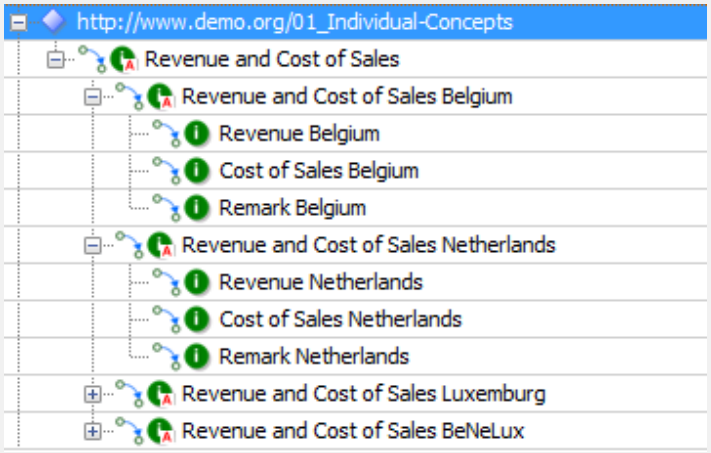
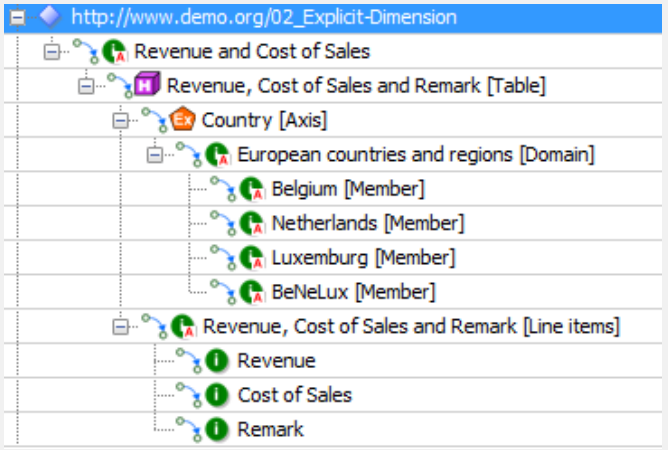
Possible solutions for country

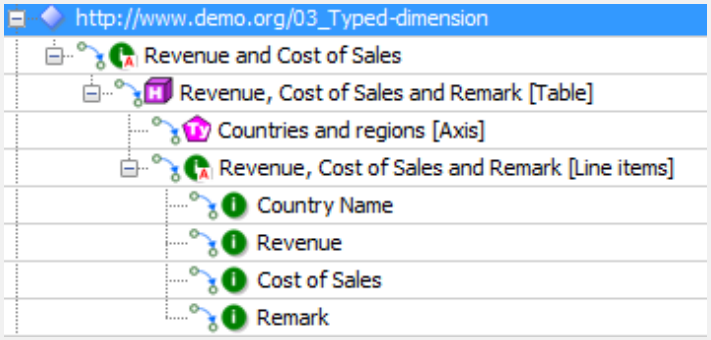
Individual concepts



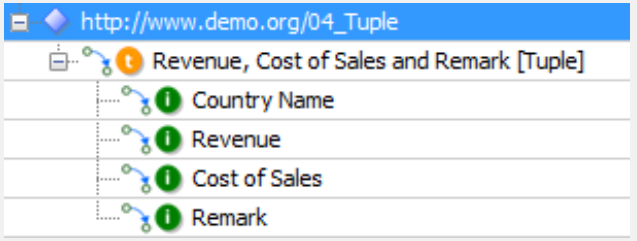
Explicit dimension



Typed dimension



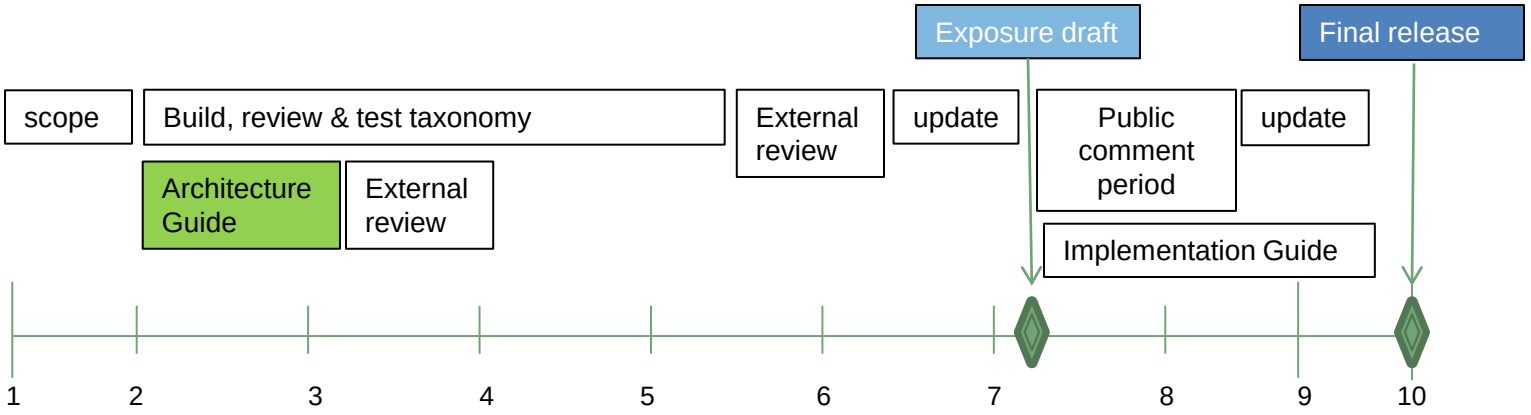
Tuple



Architecture

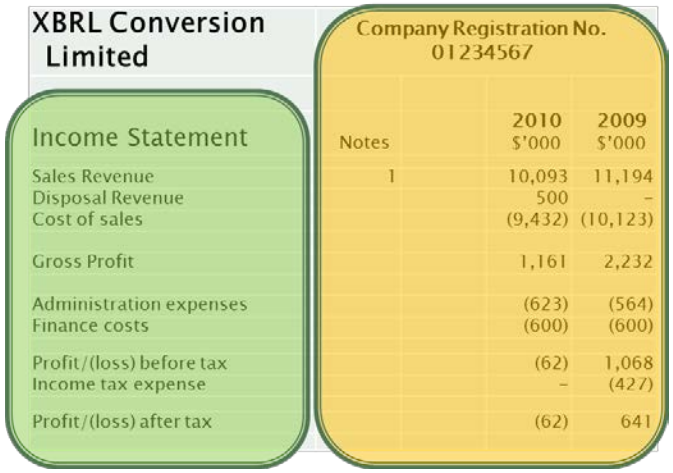
- User requirements determine which option is the right choice
- Must be documented to ensure correct and consistent implementation
- Topics
  - Requirements
  - Domain model
  - Logical model
  - Physical model
  - Naming conventions
- Alignment to other taxonomies must be considered
  - Interoperable Taxonomy Architecture

Project outline



Summary

- XBRL Terminology
  - Taxonomy = a dictionary that defines reporting terms and the relationships between them
  - Instance = fact values with context information and unit / currency measurement based on the taxonomy



- Development approach
  - Business driven, not an IT project!
    - Architecture Guide
  - External review: review team & public comment period:
    - Quality assurance
  - Adoption support:
    - Implementation Guide

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Questions?