



KOREA
UNIVERSITY

32N2030 WG2N1434

Issues of PDTR 20943-6: Framework for generating ontologies based on 11179-3 Ed.3

**ISO/IEC JTC 1/SC 32 Plenary and WG2 Meeting
Kunming, China, May 26, 2010**

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Project History

- ❖ **The idea of this project has been presented in the following meetings**
 - ✓ SC32 Joint Study Period, Clearwater, Florida, USA, January 2007
 - ✓ SC 32 Plenary and WG Meetings, New York, USA, May 2007
 - ✓ SC 32/WG 2 Interim, Seoul, Korea, December 2007
 - ✓ SC 32 Plenary and WG Meetings, Australia, May 2008
 - **Extension of the Study Period and Change of its Direction**
 - ✓ SC 32/WG 2: Workshop on ROR-ODMS-SMMP Study Periods, Wuhan, China, November 2008
 - **WG2 N1177: Extending the Metadata Registry for Semantic Web**
 - ✓ SC 32/WG 2 Interim, Portugal, November 2008
 - **WG2 N1219: Extending the Metadata Registry for Semantic Web : Subtitled “PSO: Procedure for the Specification of Web Ontology”**

Project History (cont.)

- ❖ **The idea of this project has been presented in the following meetings**
 - ✓ SC32 Plenary and WG 2 Meetings, Jeju, Korea, June 2009.
 - **Approved as a subdivision of ISO/IEC 20943 Part 6**
 - ✓ SC 32/WG 2: Wuhan Study Period Meeting on ROR, ODMS, PSO, SQL/MM-8 MDR, Wuhan, China, August 2009.
 - ✓ **SC 32/WG 2 Interim, London, UK, November 2009.**
 - **Changed this project name from PSO to FBO (Framework for Building Ontologies)**

Goal and Obejctives

❖ The goal of this project is

- ✓ to provide a [Framework for Building Ontologies](#) based on MDR-3 (Ed. 3)

❖ The objectives of this project are to promote the followings:

- ✓ [Building ontology schema](#) consisting of well-defined concepts
 - i.e., well-known concepts or generalized concepts, which are accepted by general users as well as domain experts
- ✓ [Easy and clear understanding of concepts](#) across corresponding same or similar application fields
- ✓ [More formalized building](#) of ontology
- ✓ Ease of definition (building) of ontology
- ✓ [Enhancement of interoperability](#) between ontologies

ISSUES

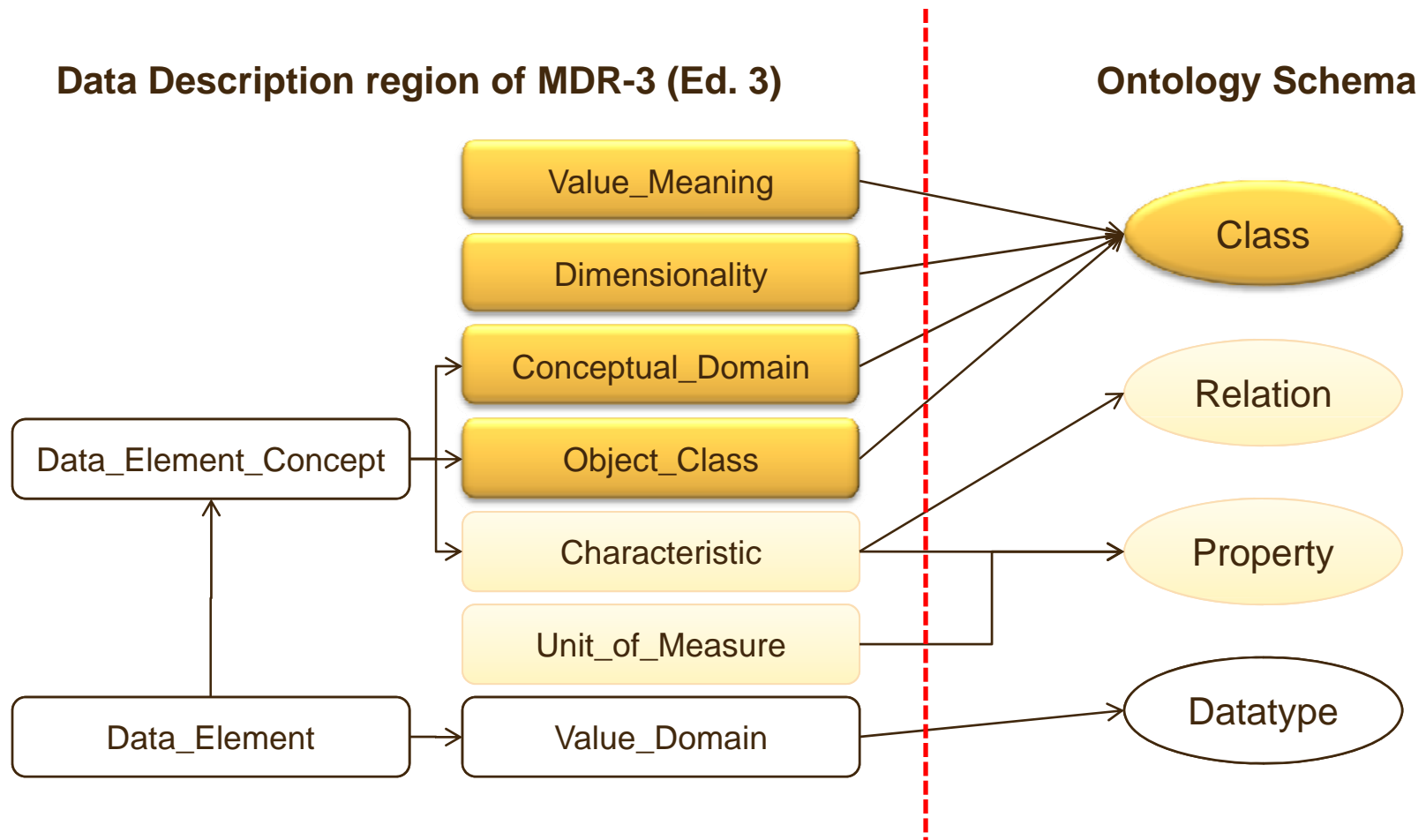
1. Scope
2. A Mapping Rule between MDR-3 (Ed. 3) and Ontology

Issue: Scope

- ❖ **We decided that this project needs to be based on MDR-3 (Ed. 3)**
 - ✓ We are trying to adopt comments of the last London Meeting
 - ✓ We are trying to support MDR-3 (Ed. 3)

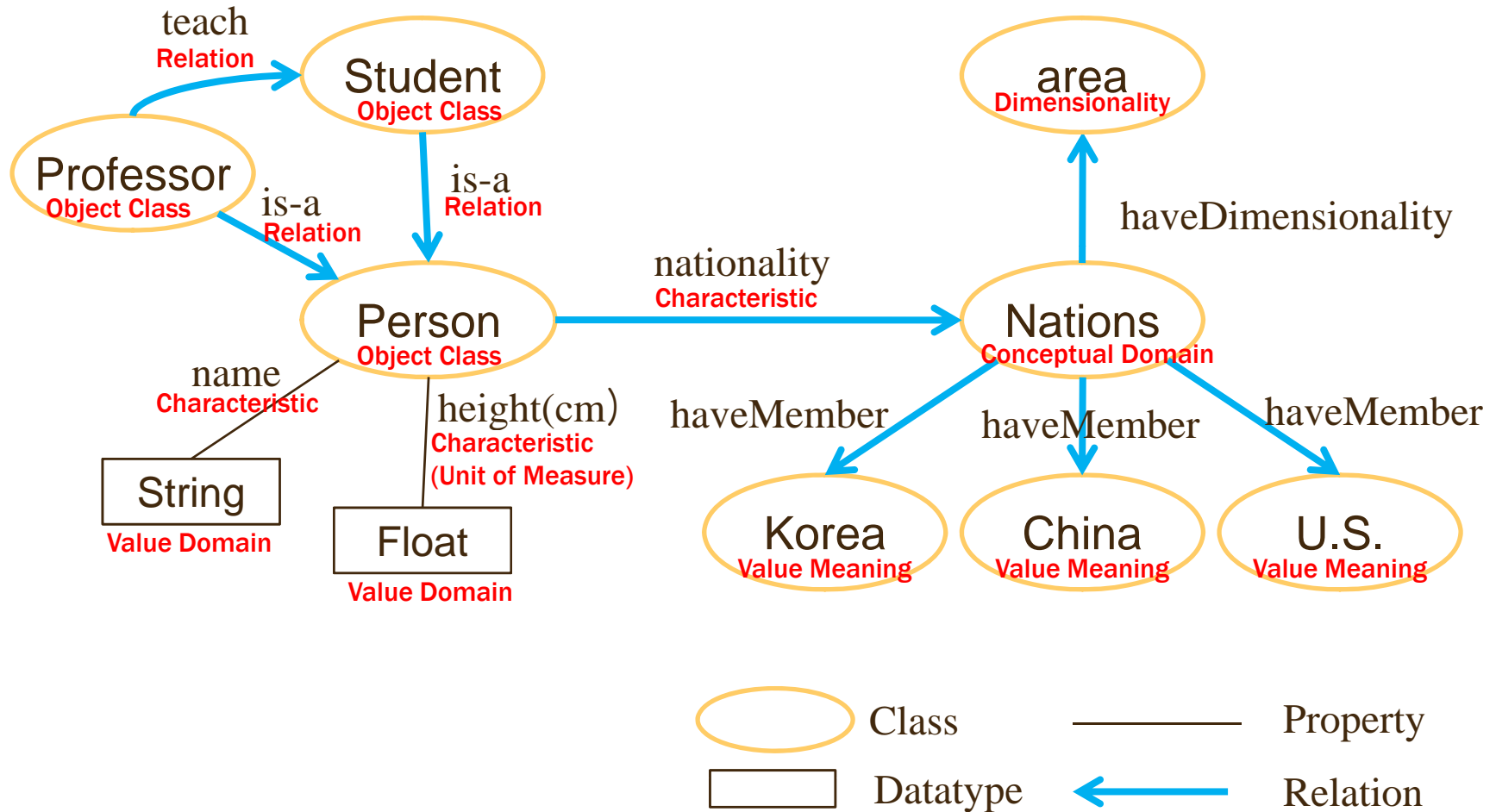
Issue: A Mapping Rule between MDR-3 (Ed. 3) and Ontology

❖ A proposed mapping rule



Issue: A Mapping Rule between MDR-3 (Ed. 3) and Ontology (cont.)

❖ Example of Ontology schema (Ontology graph)



Future Plan

- ❖ **The 1st PDTR will be submitted for ballot**
 - ✓ The 1st PDTR will reflect the decisions and comments from this meeting
 - ✓ Submission Due: 15 July 2010

- ❖ **Editing at the Interim Meeting: November 2010**
 - ✓ The 1st PDTR will be edited after ballot



Q/A

You have additional discussions or comments,
please contact:

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Reference

- ❖ **P. Cimiano, *Ontology Learning and Population from Text : Algorithms, Evaluation and Applications*, Springer Science+Business Media, New York, 2006. (slide 8-9)**