ASPECT Plugfest
Building interoperability through metadata application profiles

Rosa María Gómez de Regil
Pierre Bouard

Brussels, January 18 2010
LOM application profiles in France

- 2000 – The AFNOR (French National Standardization body) works in the standardization of metadata for learning resources

- 2002 – LOM standard is published by IEEE

- 2003 – The AFNOR works in a French application profile: LOMFR

- 2006 – LOMFR is published (national application profile for every educational/training community)

- 2008 – SupLOMFR is developed (higher education AP)

- 2010 – ScoLOMFR is published (school level AP)
LOMFR

- **Characteristics**
  - Based in LOM
  - 3 new elements: document type (DCMI Type), activities, credits
  - 3 deprecated elements: interactivity type, interactivity level, semantic density
  - 2 mandatory elements: general.identifier, general.title
  - 16 recommended elements

  - Recommendations on the use of controlled vocabularies

- **Tools**
  - XSD schema
  - metadata editors
  - search engines

- **Use**
  - CNDP, Ministry of Education, Canal-U, thematic digital universities, CERIMES

www.screnen.fr
ScoLOMFR

- **Characteristics**
  - Based in LOMFR
  - 5 new elements: general document type, place, educational method, tool
  - 5 mandatory elements: general.identifier, general.title, general.language, general.description, localisation
  - 15 recommended elements (mainly of the educational category)
  - New vocabulary values
    - lifecycle.role, educational.learningResourceType, classification.objective
  - Vocabularies used with the Classification category
    - discipline, educational level, competencies, curriculum entries, labels, detailed intended end user roles
• **Tools**
  – XSD schema

• **Projects**
  – Vocabulary management
  – Presentation website

• **Use**
  – Educational community of the school level
Interoperability issues

• Technical interoperability
  – Validation issues
    • vCard structure
    • mandatory elements and cardinality
    • Use of standardized namespaces to validate the metadata records
  – Unique identifiers
Interoperability issues

• **Semantic interoperability**
  – Vocabulary management
    • Vocabularies from the classification category
    • Identifiers: `<source> </source> <value> </value>`

  – Metadata application profiles mapping
    • from standard to standard
    • from native database to standard
• **LOMFR**
  - [http://lom-fr.fr/xsd/lomfrv1.0/std/](http://lom-fr.fr/xsd/lomfrv1.0/std/)
  - [http://lom-fr.fr/vdex/lomfrv1-0/](http://lom-fr.fr/vdex/lomfrv1-0/)
  - LOMFR Samples

• **ScoLOMFR**
  - [http://www.educnet.education.fr/services/normes-tice/vocabnomen/scolomfr](http://www.educnet.education.fr/services/normes-tice/vocabnomen/scolomfr)
  - ScoLOMFR Samples
CNDP

• French National Educational Resources Center
  – French Ministry of Education operator
    • Publisher and producer of educational resources
    • Promoter of the use of ICT in schools
    • Supplier of tools, advice and training for teachers
    • Provider of access for existing educational resources
  – Member of the French education service network (SCÉRÉN)
    • 31 regional centers (CRDP)
    • 85 departmental centers (CDDP) and local centers (CLDP)

www.sceren.fr
Rosa Maria Gómez de Regil
rosa-maria.gomez@cndp.fr – +33 (0)5 49 49 79 14

Pierre Bouard
pierre.bouard@cndp.fr – +33 (0)5 49 49 78 40

SCÉRÉN [CNDP]
@4 - avenue du Futuroscope - Téléport 1
BP 80158 - 86961 Futuroscope cedex
FRANCE
www.screen.fr