

Working together building Australia's knowledge networks



## Setting the Scene for e-learning Futures

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#### **Overview**

- General Comments
  - context
  - who the players are
  - IMS Perspectives
- Achieving Interoperability
  - in a federated environment
  - through a layered approach



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## Many Players & Many stakeholders







flexiblelearning.net.au

#### IMS Contributing Members ...



### Generally ...

- "Standards" for e-learning are only beginning to emerge
- Engagement in learning technology 'standardisation' increasing worldwide
- Systems Interoperability the main goal

### Context

- Education & Training in Australia
  - Largley publicly funded; government & private systems; principles of free access & user pays
  - Early adopters of technology; distance education
- From 1994
  - the Web takes off
  - Globalisation
  - Deregulation of Telecommunications sector

### Context

- Collaborative response by Education & Training sector
  - EdNA (Education Network Australia) www.edna.edu.au
  - AICTEC (Australian ICT in Education Committee) www.aictec.edu.au
  - The Learning Federation
    www.thelearningfederation.edu.au
  - ANTA flexiblelearning.net.au
  - DETYA DEST funding for IMS engagement



## **IMS** Perspectives

#### "making learning technology interoperable"

http://www.imsglobal.org





source: Ed Walker, CEO IMS Global Learning Consortium



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# IMS - Early Scope

- Metadata
- Content Packaging
- Enterprise systems
- Learner Information
- Question & Test



## **IMS** developments

- Digital Repositories Interoperability
- Specs development embracing both data interchange & runtime systems
- New Draft specs Learning Design; Reusable Competency Definitions; Sequencing
- Application Profiles 3 architectures OKI (higher ed); SCORM (VET); SIF (K-12)



## IMS - Next Steps (1)

- DRI Search Services, Access Mgt
- Learning Design Pedagogical models
- Accessibility for LIP
- Abstract Framework (November TB)
- K-12 Architectures & Use-Cases



## IMS - Next Steps (2)

- Drafted Project Charters
  - Learning Object Rights Expression Language (LOREL)
  - Vocabulary Definition Exchange (VDEX)
- Proposed Project Groups
  - collaborative learning
  - sequencing harmonization
  - personalisation
  - metadata
  - application profiles
  - assessment
  - content model

#### ISO/IEC JTC 1/SC36



http://jtc1sc36.org

#### **SC36**

- WG1 Vocabulary
- WG2 Collaborative Technologies
- WG3 Learner Information
- WG4 Management & Delivery (LMS, LCMS)
- WG5 QA & Descriptive Frameworks

## Scoping Interoperability

## **Interoperability Facets**

- Political Agreeing to common goals & ground rules for achieving mutual benefit
- Jurisdictional Mapping legal, regional interests
- Semantic Achieving common understanding, common meanings (eg Dublin Core)
- Syntactic
- Cultural
- Technical
- Sharing grammars, templates, ... Communities of Practice, workflow (eg CAUL, CAUDIT, NCODE, ASCILITE, ...)
- Systems exchanging data & services





#### **Questions?**