


IMS Learning Design

A new standard for eLearning



Professor Rob Koper, July 2003
Director of RTD into Learning Technologies
Open University of the Netherlands (OUNL)
Educational Technology Expertise Center (OTEC)

OpenUniversiteitNederland

Content

- What is LD
- Why LD
- What it does
- This afternoon: more in depth how it works

What is LD

**Information
Model**

**Best Practice
Guide**

**XML
schema**

- eLearning 'Standard' published by the IMS consortium in February 2003 (final version)
- IMS consortium of major parties/vendors in eLearning (IBM, Microsoft, Sun, Apple, Blackboard, WebCT, NETG, ... and universities The 10 largest US universities, Canadian Univ., CETIS (represents UK), OUNL.
- Based on Educational Modelling Language developed and tested at the OUNL (R&D)
- Really a milestone for eLearning: will improve the possibilities of eLearning far away from the current approaches and possibilities
- Tell you why ...

Why LD

- Shortcomings of current eLearning approaches
 - * get rid of proprietary non-interoperable solutions
 - * get rid of the oversimplified technological driven views of learning/teaching and learning content
 - * extend the possibilities of eLearning: new more effective, efficient & attractive learning models
 - * integrate the large number of isolated existing standards (LOM, CP, QTI, RCD, LIP, ..)
 - * create a possibility for new markets and collaborations in eLearning

Vision

Provide a mechanism
to model

all

the processes, content and services
in all the different varieties of
learning and teaching
independent of any technology

Compare: musical notation, CD/DVD standards

What it does (some highlights)

- Provides the possibility to model all different kinds ***pedagogical models*** explicitly.

Learning is more than
consuming content,
learning is activity based

Why?

- Include: support role tasks, interactions, formative and summative assessment & certification, collaborative processes, solving complex problems/tasks, measure competencies, create individualized lesson plans, ..
- Different methods in different settings, content domains, levels of education, ...
- Get rid of oversimplified learning models and support new effective/efficient approaches to learning.

What it does (some highlights)

- Provides a complete description of **all** the processes, content and services within a learning module

In learning persons interact in different roles, using different resources and services

Why?

- Be able to get rid of system dependency (implicit system features that are not interoperable)
- Be able to validate the quality of the structure of a module and to guide the authoring process.
- Explicit coding to allow for automatic and human processing.

What it does (some highlights)

- Provide a way to **personalize** the delivery of learning resources to users needs: deployment in different media (print, web, mobile, cd-rom, ...)

‘Web only’ learning environments are poor learning environments.
Rich environments use different media

Why?

- People use a variety of media for learning: not only the web, not only print, not only meetings, ... but all in a situation dependend mix.

What it does (some highlights)

- Supports **reuse** of learning designs and learning resources.

Distinction between LD and Resources/Services
needed to implement real re-use

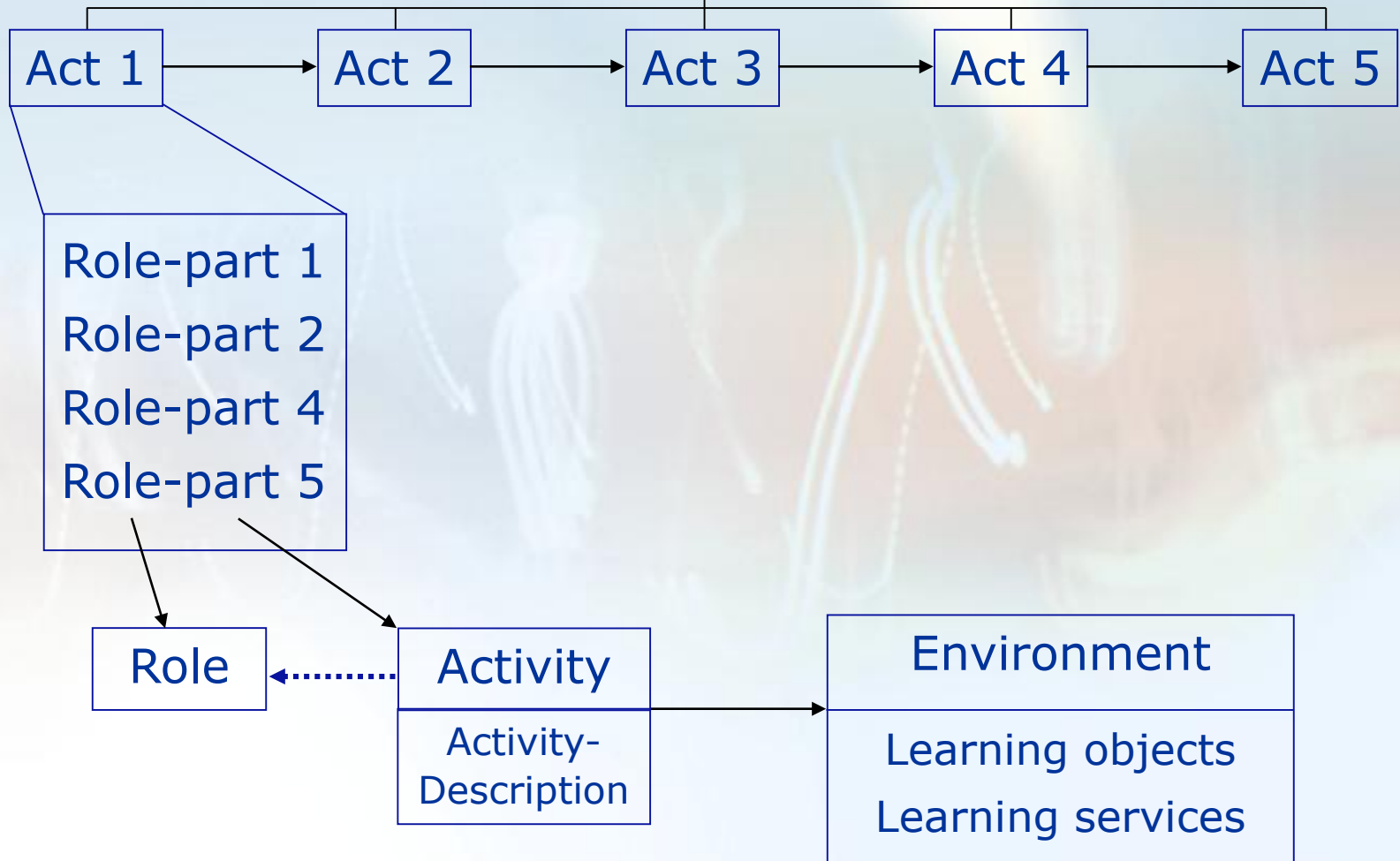
Why?

- Reuse makes development of high quality learning modules more cost effective.
- Reuse is only possible when components can be explicitly de-contextualized from the old module and re-contextualized within the new module.
- Want to be able to use the same resources in different learning designs/settings and vice versa

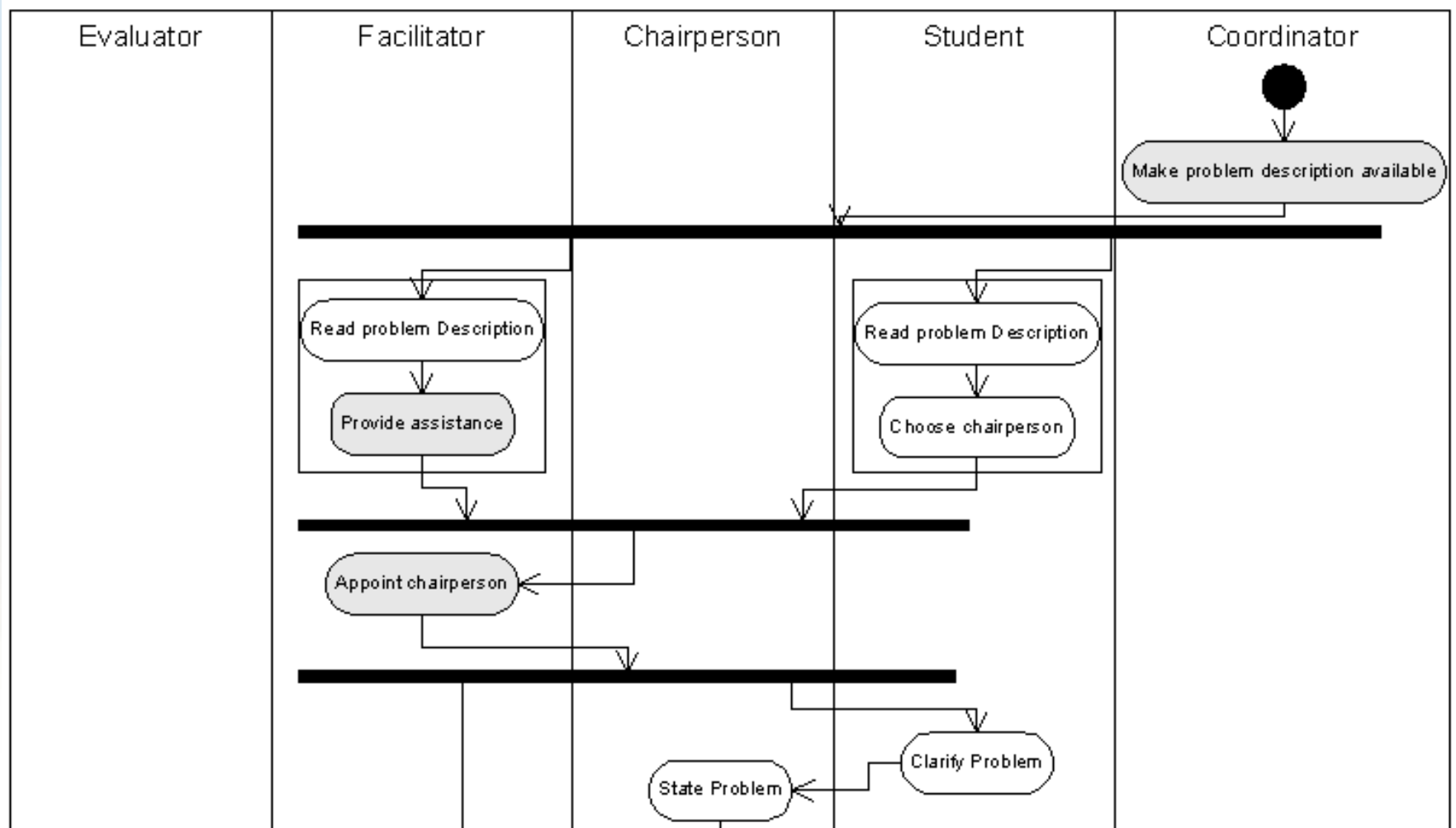
A quick scan of the IMS LD model ...

Summary of the LD model

Learning Design Method (play)



Who does what, when?



Antwoorden op vragen doornemen

Wat doen?

nieuws
*Ga voor onderlinge discussies tussen de cursusdeelnemers naar:
<http://www.groupware.ou.nl> Log in met je acroniem en
studienetwachtwoord.*

Samen met de hele groep gaan we nu de vragen stuk voor stuk doornemen en daarbij kijken naar elkaars antwoord. U kunt uw antwoord bijstellen op grond van de bespreking.

- Wat zijn standaarden?
Antwoord van de groep

Uw antwoord:

Standaarden zijn afspraken om een bepaalde manier te werk te gaan.

ok

It does more ... too little time ...

Find out more:

- learningnetworks.org
- imsglobal.org

This afternoon: more in depth discussion