

IMS Learning Design Tooling in practise

Drs. Daniel Burgos
Educational Technology Expertise Centre (OTEC)
daniel.burgos@ou.nl

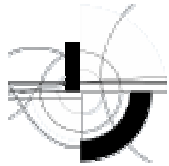


Table of contents

1. **Objectives** of this workshop
2. **Introduction** to IMS Learning Design
3. Carousel of **examples**
4. **Creation cycle of a Unit of Learning**
5. Practical example **step by step**

6. **Building a Unit of Learning. From layout to run**

7. **UNFOLD Project and state of the art**
8. Final **discussion**



Objectives of this workshop

To provide an approach of IMS Learning Design

To use some tools to edit and run examples

To analyze specific examples and identify LD elements

To modify existing examples to improve the understanding

To present some running examples showing actual LD features

To discuss scope, practical use and pedagogical scenarios



Objectives of this workshop

To **provide an approach** of IMS Learning Design

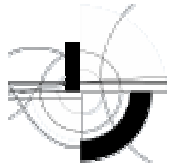
To **use some tools** to edit and run examples

To **analyze** specific examples and **identify** LD elements

To **modify** existing examples to **improve the understanding**

To **present** some running examples showing actual LD features

To **discuss** scope, practical use and pedagogical scenarios



Levels in IMS Learning Design

C

Notifications

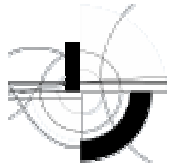
B

Properties, conditions, calculations, global elements and monitoring services

A

Users, learning activities, support activities, environments, resources, method, plays, acts, roles

External resources, links and services (forums, chats...)

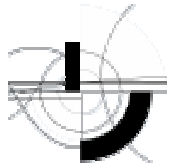


Level A in IMS Learning Design

A

Users, learning activities, support activities, environments,
resources, method, plays, acts, roles

External resources, links and services (forums, chats...)



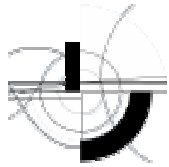
Level B in IMS Learning Design

B

Properties, conditions, calculations, global elements and monitoring services

- Properties: a name, an input value
- Conditions: if-then-else
- Calculations: sum, subtraction...

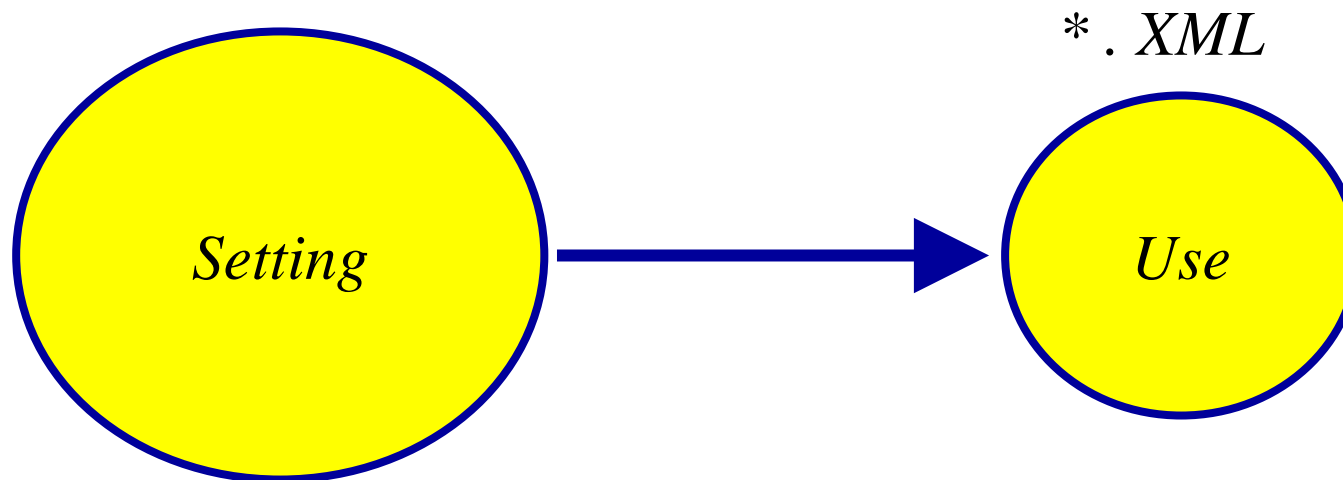
- Global elements: connection with external XML files
- Monitoring services: tracking of roles, actions, properties



Level B in IMS Learning Design

- Global elements: connection with external XML files
- Monitoring services: tracking of roles, actions, properties

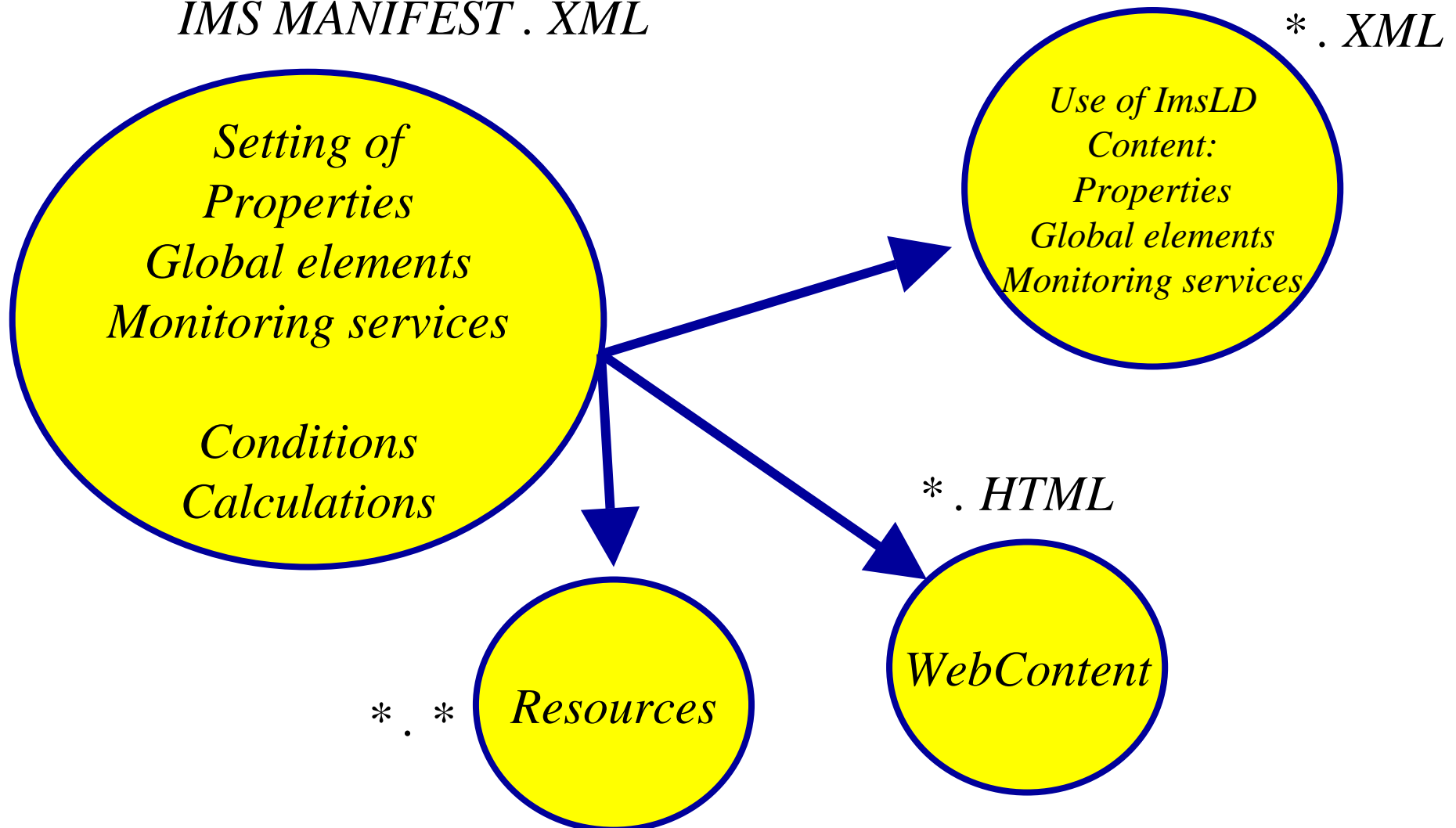
IMS MANIFEST . XML

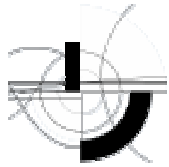




Level B in IMS Learning Design

IMS MANIFEST . XML

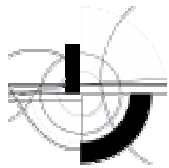




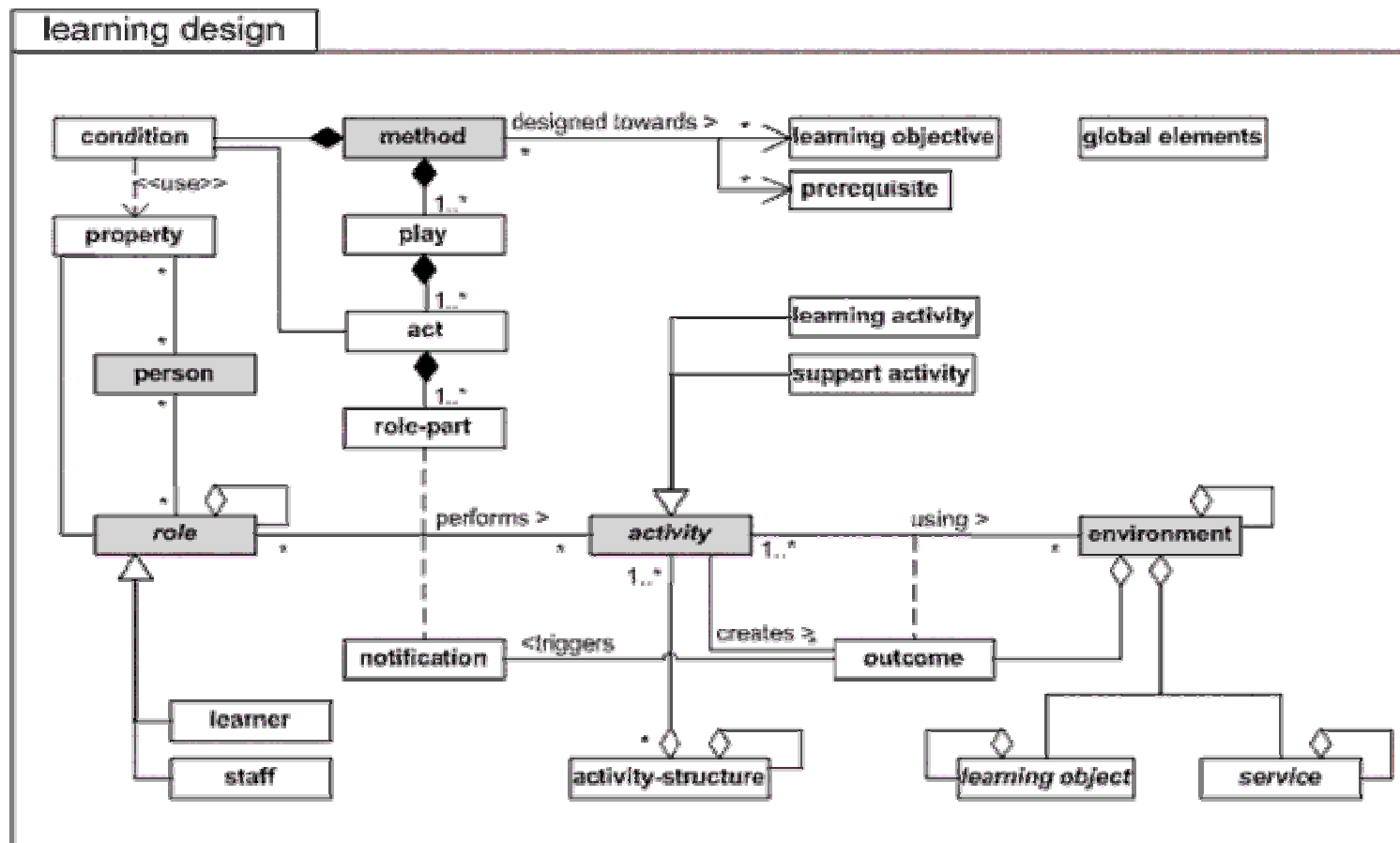
Level C in IMS Learning Design

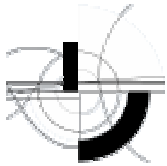
C

Notifications

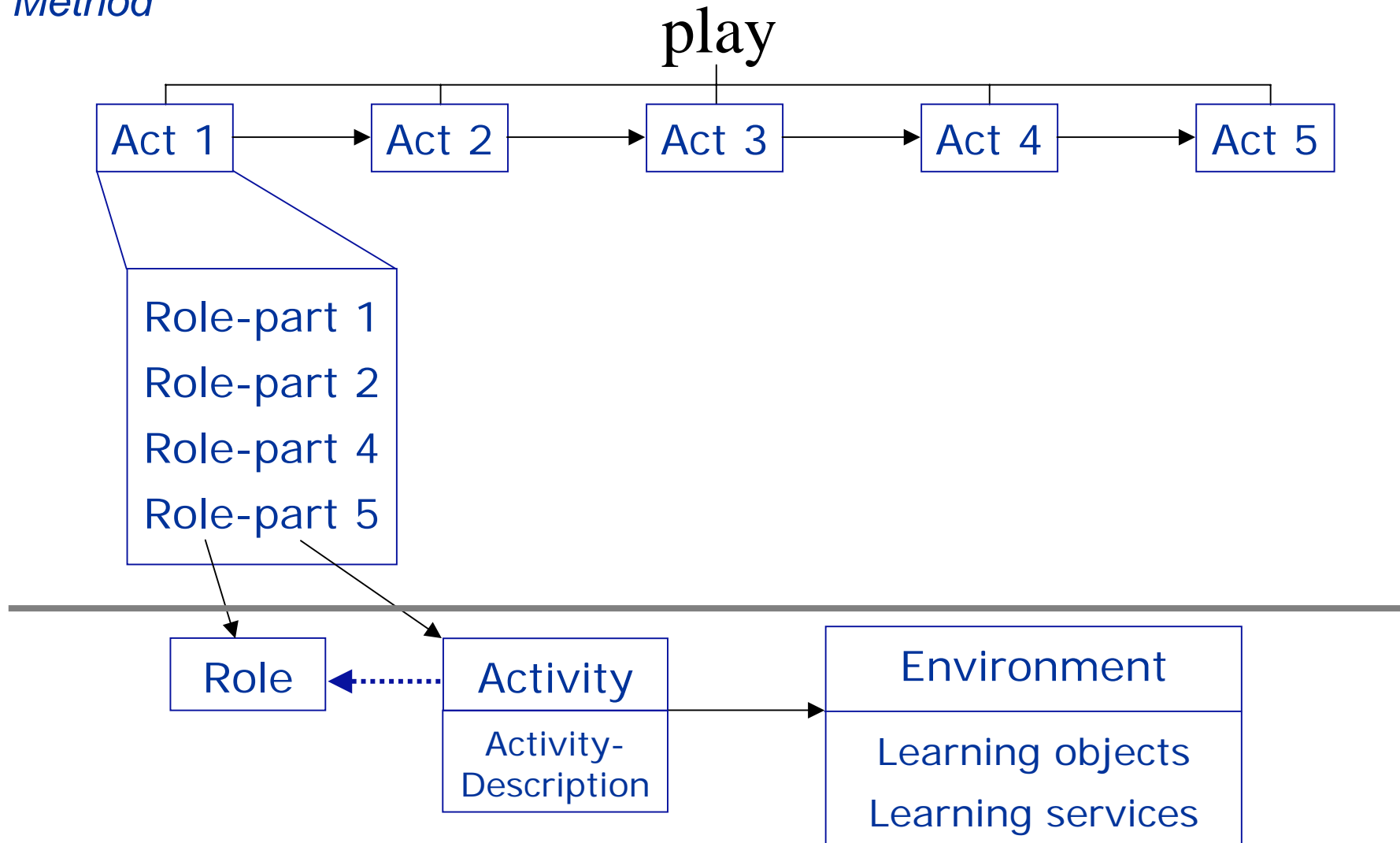


IMS Learning Design meta-model





Method



Components



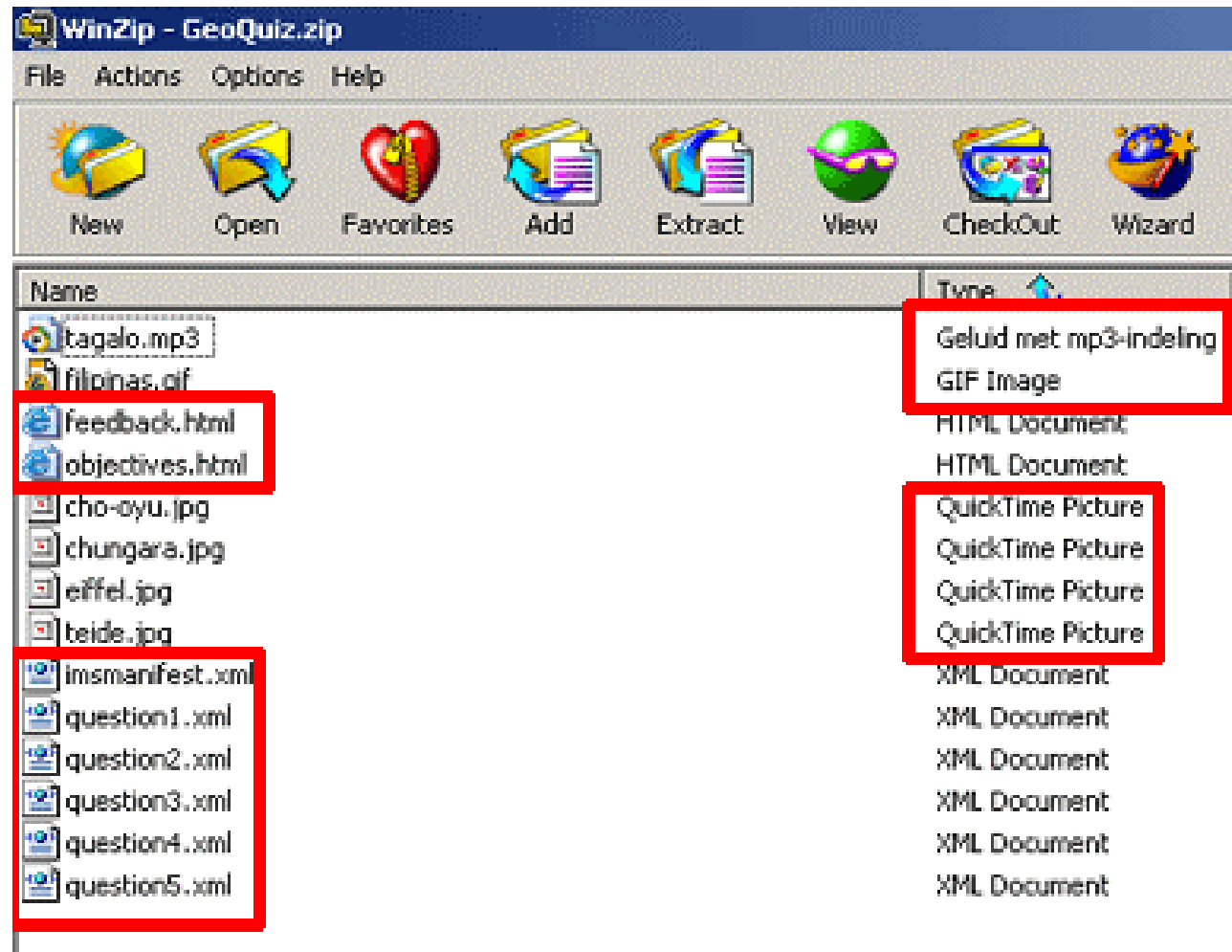
XML in a Manifest

```
<organizations>
= <learning-design xmlns="http://www.imsglobal.org/xsd/imsld_v1p0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.imsglobal.org/xsd/imsld_v1p0
http://www.imsglobal.org/learningdesign/ldv1p0/IMS_LD_Level_A.xsd" identifier="Course-
candidas" level="A" uri="http://ou.nl/examplecandidas">
- <!-- title and roles -->
    <imsld:title>Candidas. The great unknown (I)</imsld:title>
    = <imsld:components>
    = <imsld:roles>
    = <imsld:learner identifier="Learner">
        <imsld:title>Learner</imsld:title>
    </imsld:learner>
    </imsld:roles>
- <!-- learning activities -->
    = <imsld:activities>
    = <imsld:learning-activity identifier="Preparation">
        <imsld:title>Introduction:What is Candidas?</imsld:title>
        <imsld:environment-ref ref="resources-Preparation" />
    = <imsld:activity-description>
        <imsld:item identifierref="R-Preparation" identifier="I-preparation" />
    </imsld:activity-description>
    = <imsld:complete-activity>
        <imsld:user-choice />
    </imsld:complete-activity>
    </imsld:learning-activity>
...

```

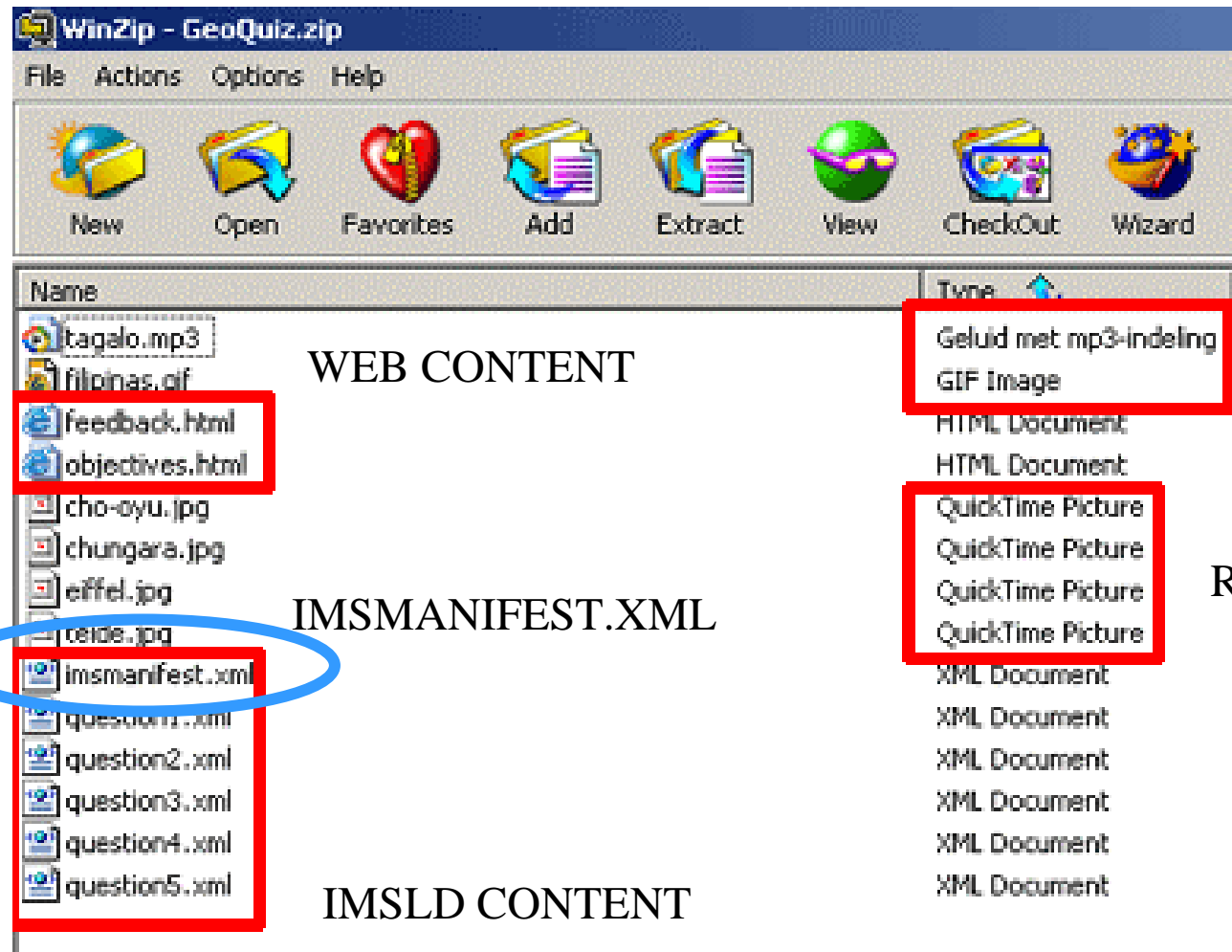


An information package





An information package



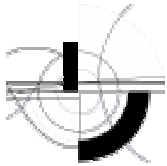
WEB CONTENT

RESOURCES

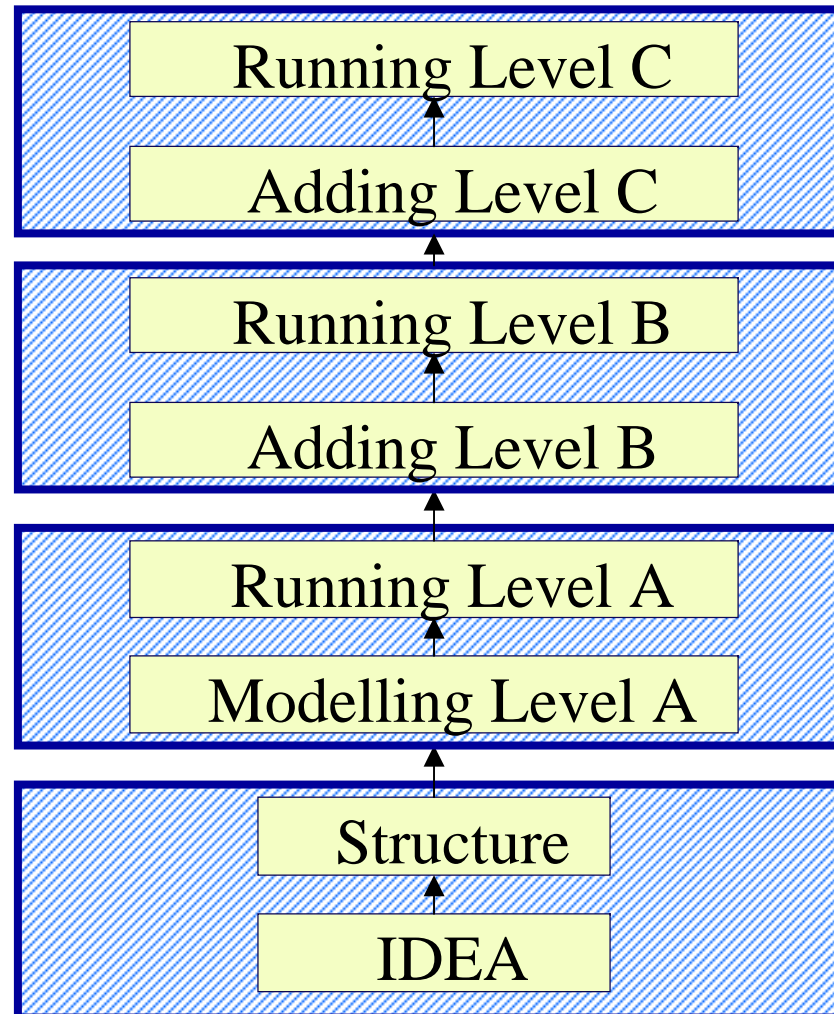
IMSMANIFEST.XML

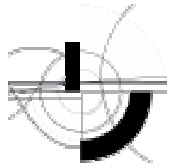
RESOURCES

IMSLD CONTENT



Process to build a Unit of Learning





IMS Learning Design Tooling in practise

Drs. Daniel Burgos
Educational Technology Expertise Centre (OTEC)
daniel.burgos@ou.nl