

Aspect

Adopting Standards and Specifications for Educational Content

How teachers responded to using content specifications such as SCORM and Common Cartridge

Results of the ASPECT work with 40+ teachers from Belgium, Lithuania, Portugal and Romania.

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And the collaboration of José Moura-Carvalho (DGIDC, Portugal), Delia Oprea (SIVECO, Romania) and Eugenijus Kurilovas (ITC, Lithuania)

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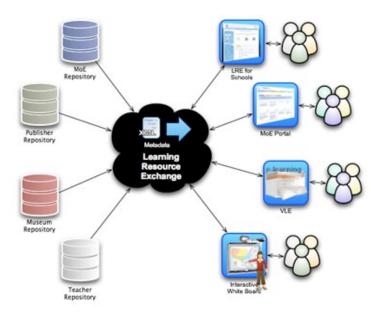
Adopting Standards and Specifications for Educational Content



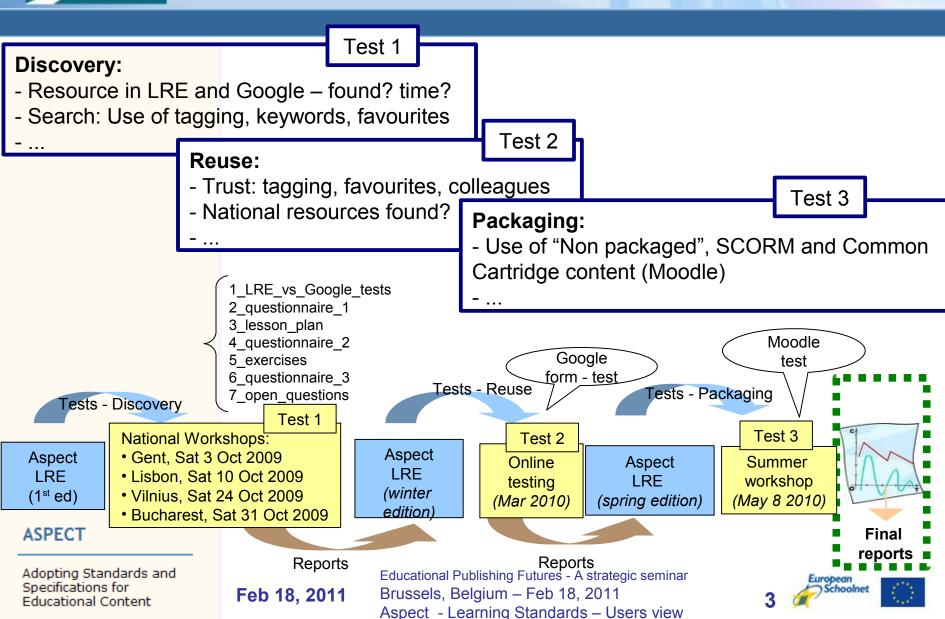




Tests with teachers (in real contexts) to check implementation of standards and specifications on LRE content leads to greater interoperability and cross-border re-use of the content.









The Learning Resource Exchange Repository (LRE):

- http://lreforchools.eun.org
- open educational resources and assets from many different countries and providers, including 16 Ministries of Education
- Many ~ 140 000 resources + assets open to all.

Aspect version of the LRE

- 1. closed portal
- 2. contains content from 30 providers and contains > 200 k resources and assets
- 3. it has been adapted to support the LREv4.0 application profile
- 4. automatically translated metadata available in 6 languages
- 5. integrated SCORM player and Common Cartridge platform

LEARNING RESOURCE EXCHANGE FOR SCHOOLS



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Thermodynamics [en]

view
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-Common Cartridge / zip -SCORM /zip

--Common Cartridge --SCORM

Tags: aspectDRM aspectUL-ws3

Keywords: physics, thermodynamics, temperature, ideal gas, pressur (...)

Age: 14-18 Resource type: course

Description: Course on Thermodynamics for Secondary School. It includ (...)

Creative Commons Licence: (๑)

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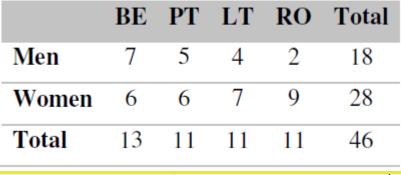
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aspectUL-ws3

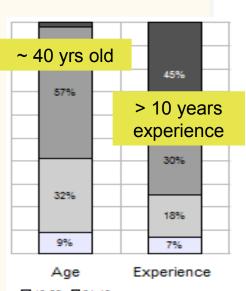
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- * Science/Maths/IT teachers...
- * ...of students: 7 21 yrs old
- * Native lang + en (+1)



■ 10-20
■ 20+

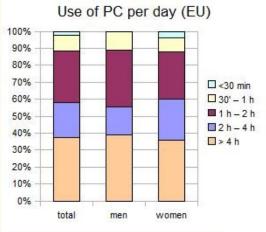


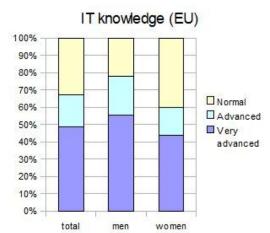
■ 40-55
■ 55+

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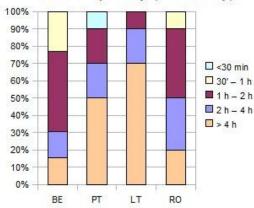


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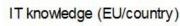


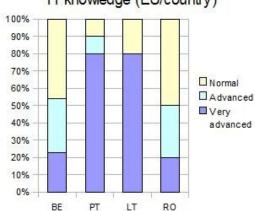
Use of PC per day (EU/country)





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Use of PC:

- * 90% > 1h, 60% > 2h
- * men ~ women
- * LT > PT > RO > BE

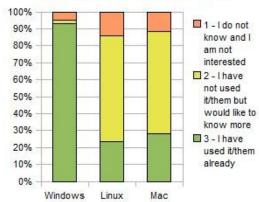
IT knowledge:

- * 65% advanced, ~ 50% v. advanced
- * men ≥ women
- *LT~PT>RO~BE

OS:

* ~ 90% Know / Want to know

Knowledge/Interest in OS (EU)

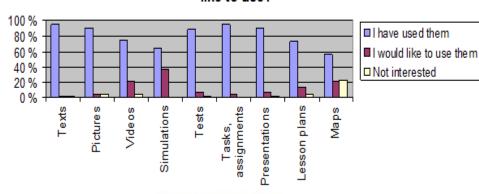




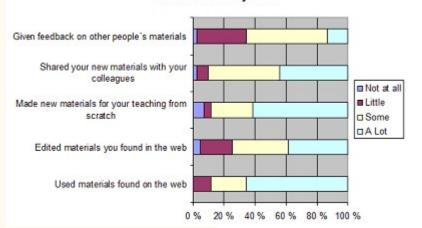




What sort of materials have you used when teaching / would like to use?



How much have you ...?



Materials used:

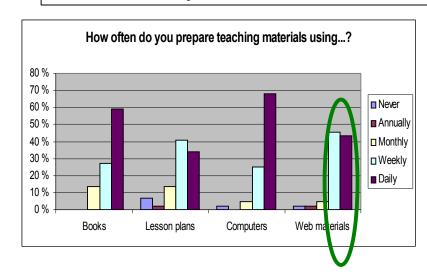
- * > 80% texts, pictures, tests, presentations
- * simulations: 65% + 35% ~ 100%
- * lesson plans: 75% + 15% ~ 90%

Interaction:

- * > 60% feedback yes, 95% sometimes
- * 95% shared materials
- * 90% made materials form scratch,
- * 100% used materials from web
- * 95% edited materials from web

Materials from web:

* ~ 90% weekly at least!



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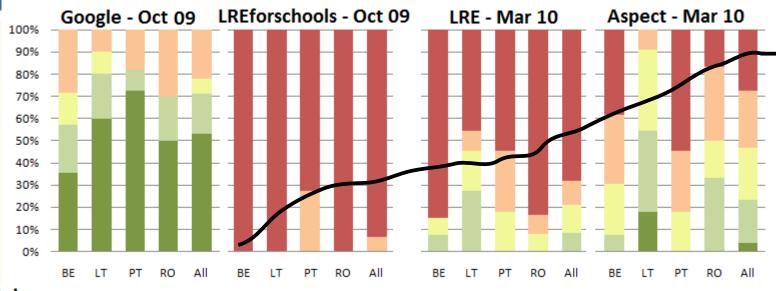
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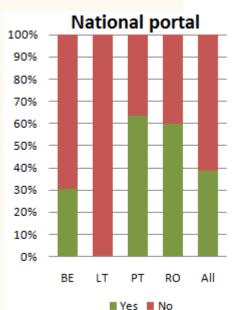
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* Google > 70% once/month, 55% once/week

Once

* LRE in Oct 09: Only ~30% PT once.

■ Nearly every day ■ Once/week ■ Once/month

- * LRE in Mar 10: ~ 50% Once/month
- * LT ~ 90% 1/month, >50% 1/week
- * LT >> RO > BE > PT





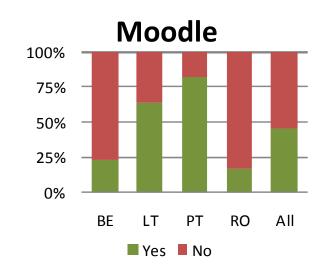


Test 3: Content packaging

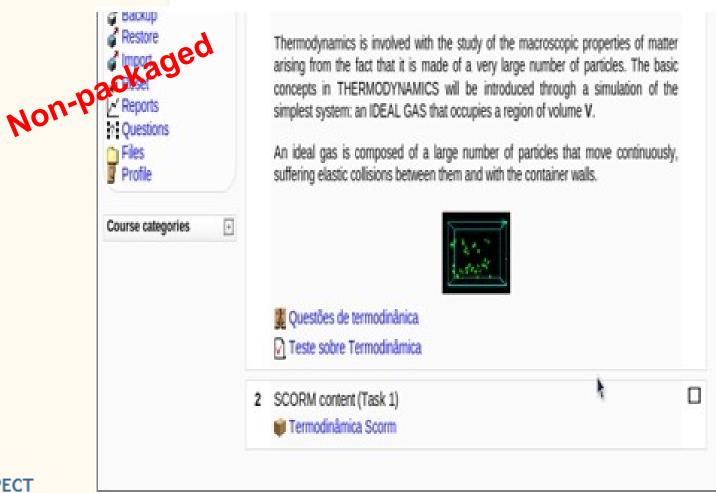
- Task 1: lesson plan in Moodle x 4:
 - 1) Using non-packaged content
 - 2) Using the entire SCORM
 - 3) Using an entire IMS CC package
 - 4) Picking up parts from the IMS CC package
- Task 2: digital rights management non-free resources.
- Task 3: Benefits of SCORM and IMS CC packages

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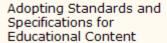








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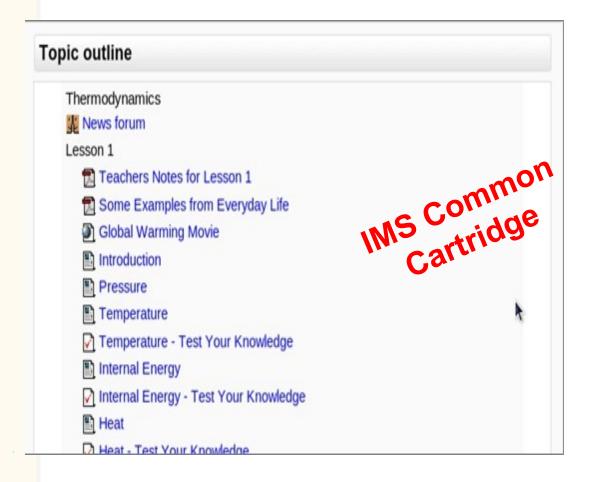


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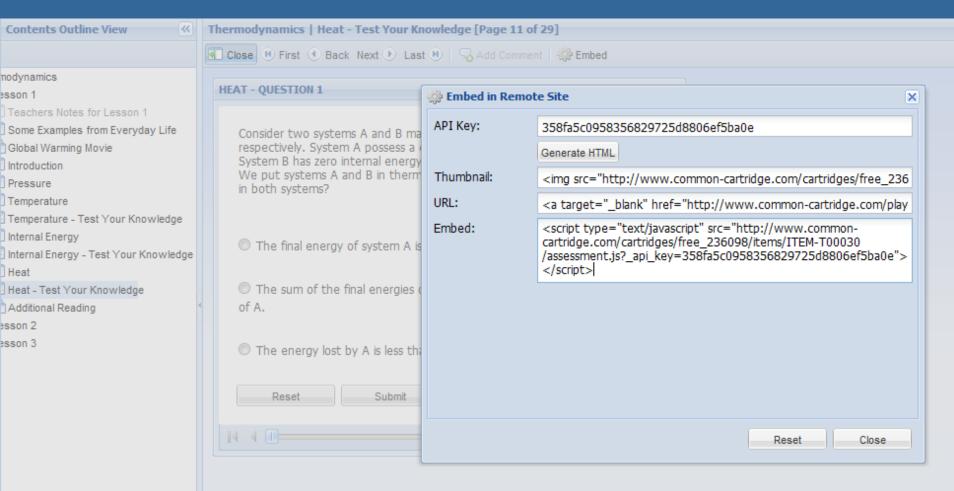
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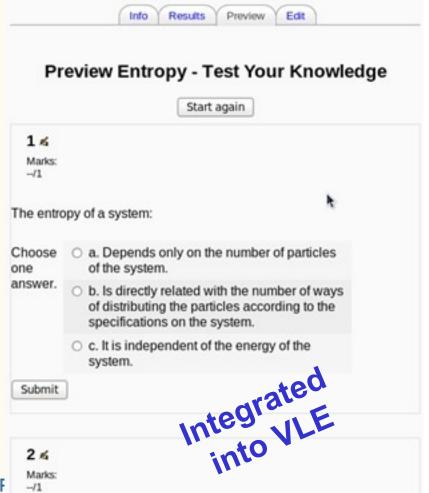
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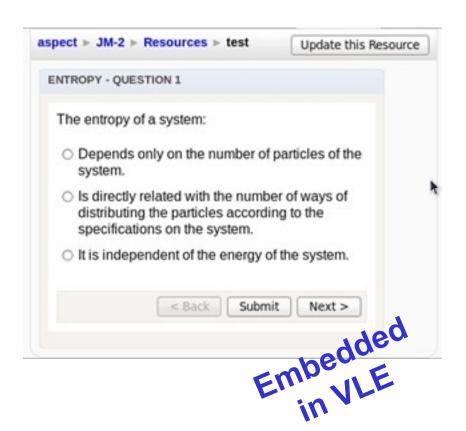
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ASF

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Evaluation methodology

- Data gathered with mix-method approach, so results would complement each other.
 - Online Surveys after each task
 - Interviews with teachers
 - Observation

Caveats:

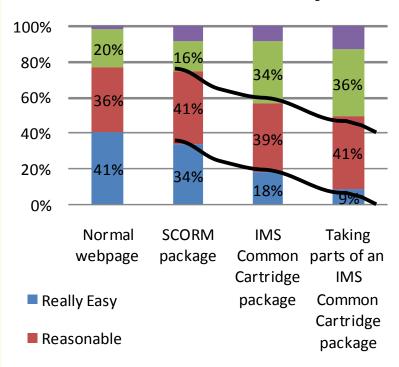
sample of teachers small (n=46), above average ICT users, highly motivated and influence of chosen VLE on results.





Packaged content

Level of difficulty



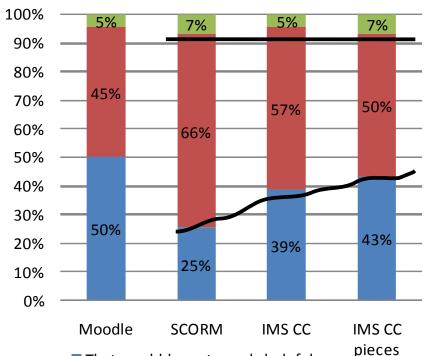
- Some problems
- Quite Complicated

* LT > PT ~ RO > BE

* > 75% even BE IMS CC pieces

* > 90% IMS CC & SCORM

Benefits



- That would be extremely helpful
- This could be a helpful in limited cases
- I cannot see any benefit for me

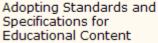
res - A strategic seminar

ndards - Users view

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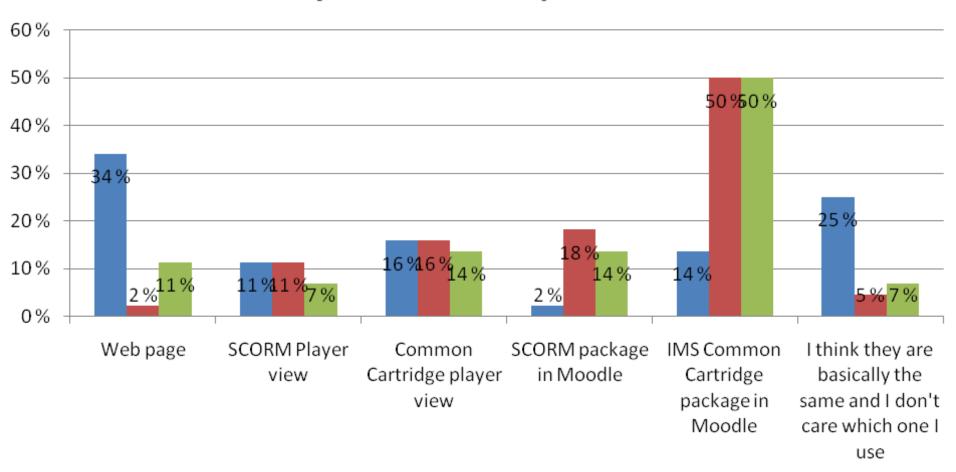








What is your interface preference if...



- ...you are just showing the materials to the students in your class?
- ...you are going to teach an entire online course?
- ...you are giving them online homework/extra credit work?



Results

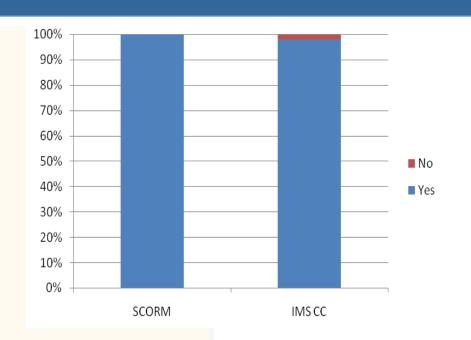
- Teachers were generally very excited about the possibilities of IMS Common Cartridge
- This was due to 2 issues:
 - Re-Use of materials in their on LMSs have become easier (In moodle, you can edit as you like, add, remove or alter)
 - Icodeon CC platform's functionality of being able to embed parts of the package into blogs, social media, web pages...

Brussels, Belgium - Feb 18, 2011

Δ SPFCT

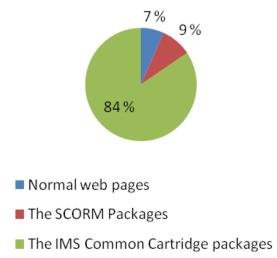


Would you use it?



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would you prefer?



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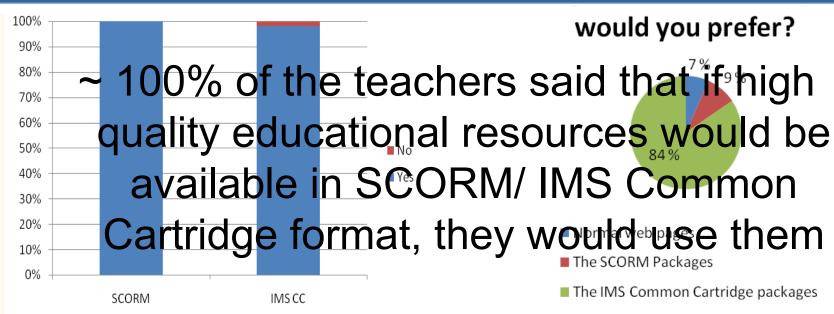
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Would you use it?



BUT

- these are above average teachers and they still need training.
- Moodle bias ("better" dealing with CC?) → if SCORM packages could be separated into its components easily, they would like SCORM.



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Comments from teachers and content providers Packaging

http://www.aspect-project.org/node/88

















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More information...

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Dank u! - Merci!