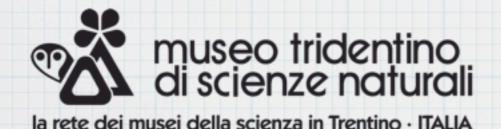


The I-CLEEN Project (Inquiring on Climate & ENergy)

Enhancing an enquiry-based approach to Earth System Science in Italian classrooms

- Matteo Cattadori & the I-CLEEN editorial staff -

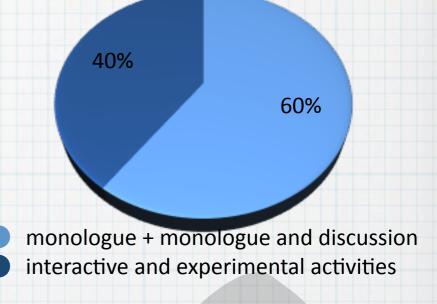


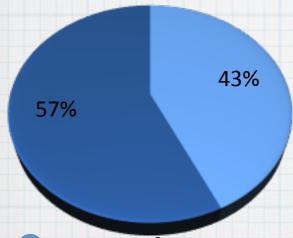
Friday 8th April 2011 EGU General Assembly 2011 - Vienna (AT)

state of the art-in 3 points



"Which of the following teaching methods do you use most in your classroom activity??"





"How would you consider your relations with your colleagues as far as the educational and teaching \ planning is concerned?"

not satisfactory enough

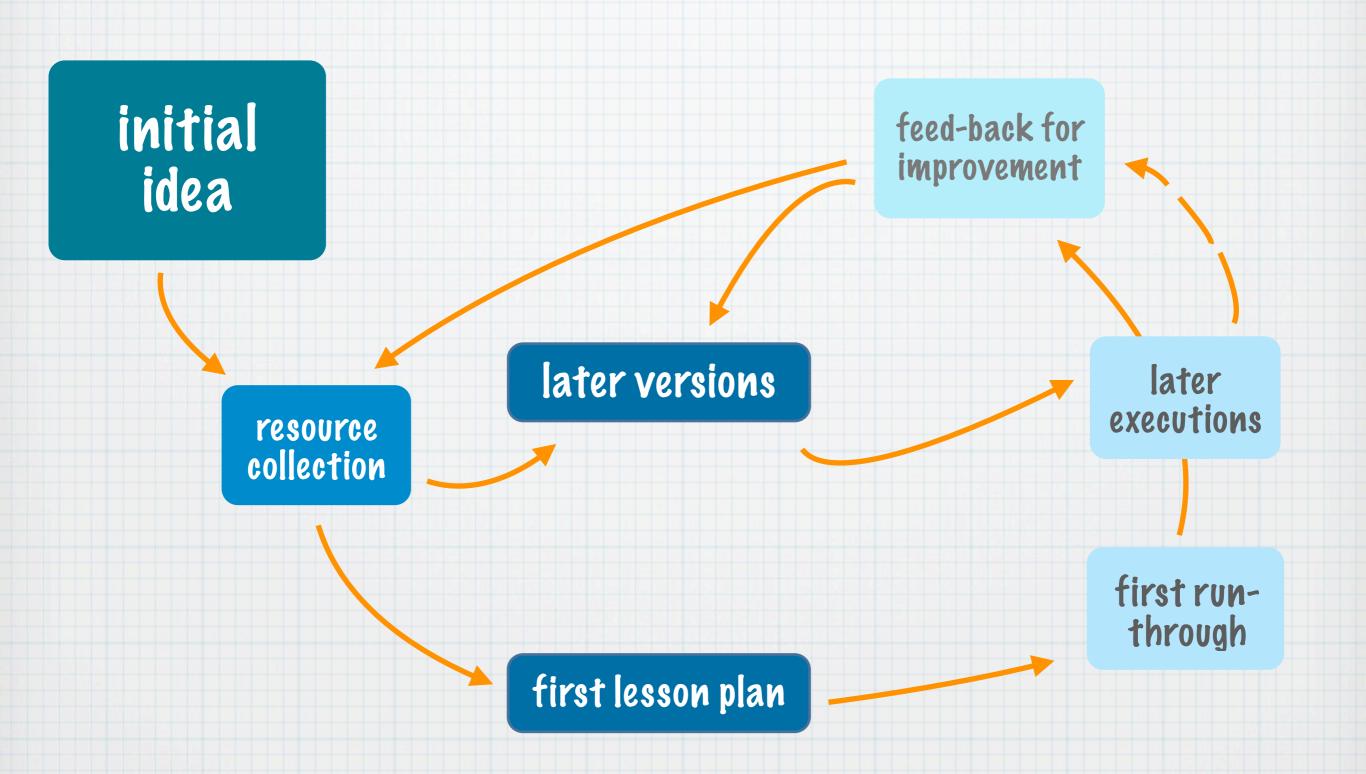
satisfactory or very satisfactory

"Which of the teacher training methods you have experienced would you consider most effective?"

training on specific topics I teach

the model





objectives



initial idea

res coll



A database of resources that SIMPLIFY THE PROCESS of setting up an interactive lesson, created using collaborative means.

first lesson plan

later xecutions

irst runthrough

general description











- * FUNDED from the Natural Science Museum of Trento (MTSN) and the local School Department
- project kick-off in September 2008. ONLINE since Pecember 2009
- *** EDITORIAL STAFF:** 5 science teachers (all practicing in different places across the country) working on line and in person
- group of the SCIENTIFIC REVIEWERS (MTSN, INGV, UNITN)
- * software house: YMIR srl Trento





Try

Take part

- A repository MADE BY teachers and scientists...
- ...on a SPECIFIC RANGE of science topics (Climate and Energy/Earth System Sciences)...
- ..following BPRACTICES (PLESE, LRE, OER), guidelines & handbook (PESIRE, SPREAD), and STANDARDS, (LOM, PCMI) under supervision of a local agency (INDIRE).
- Prawing from MULTIPLE SOURCES (teachers experiences, MTSN, NSTA, 100P) and of different nature (not only ICT oriented)
- Resources provided with one/some "SUPPORTS SHEETS" structured using original templates (quality vs quantity) and published under Creative Commons license

methods



Take part

- * Prize contest
- * Workshops
- Several kind of collaborators
- Several services (attuned to the users' need)

ICT tools with a <u>tough</u> but <u>flexible</u> **BODY** (software) and a <u>user-friendly</u> **INTERFACE** (GUI)



results





- In the first 12 months: 20 VISITS per day.

 Over 13k support-sheets DOWNLOADED (1.8 dwnlds/visitor)
- Two current STUDIES of the University of Trento: usability/accessibility and effectiveness of the project
- * WINNER of the e-Learning Award 2010 (EU Schoolnet)
- * I-CLEEN has been INCLUDED in the following repositories: OPAL (Open Educational Quality Initiative) and SCIENTIX
- * We noticed that teachers involved in the project have considerably increased their trust in the reliability of the ICT as effective tools to share and improve their work."

references



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- Hofman e Worsford "Selection criteria for Quality controlled information gateways" October, 1999 http://www.ukoln.ac.uk/metadata/desire/quality/
- DESIRE Information Gateways Handbook http://www.desire.org/
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- SPreaD Strategic Project Management Tool-Kit for Creating Digital Literacy Initiatives http://wiki.spread-digital-literacy.eu/
- Dublin Core Metadata Initiative http://dublincore.org/
- Draft Standard for Learning Object Metadata IEEE 1484.12.1-2002 Institute of Electrical and Electronics Engineers Standards Association, New York
- DLESE Digital Library for Earth System Education http://www.dlese.org/
 library/index.jsp
- LRE Learning Resource Exchange for Schools http://lreforschools.eun.org/
 LRE-Portal/Index.iface
- OER Commons Open Educational Resources http://www.oercommons.org/
- ODP Ocean Drilling Project http://www-odp.tamu.edu/
- NSTA National Science Teaching Association / http://www.nsta.org/
- Scientix The community for Science Education in Europe http://www.scientix.eu
- OPAL. Open Education Quality Initiative http://opal.innovationpros.net





www.icleen.museum

mcattadori@gmail.com