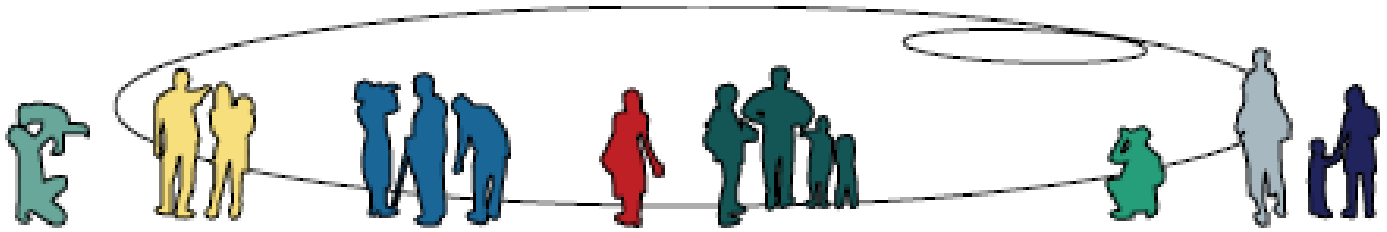


Learning with ATLAS@CERN

Two year long program: ended 30/11/2010

Main Goal: Pedagological design, three target group missions, classification in portal

Education and Culture DG

Lifelong Learning Programme

EACEA

Education, Audiovisual & Culture Executive Agency

Learning with ATLAS @CERN

An educational project in LLP of EC transversal Action (schools, universities, science centers)

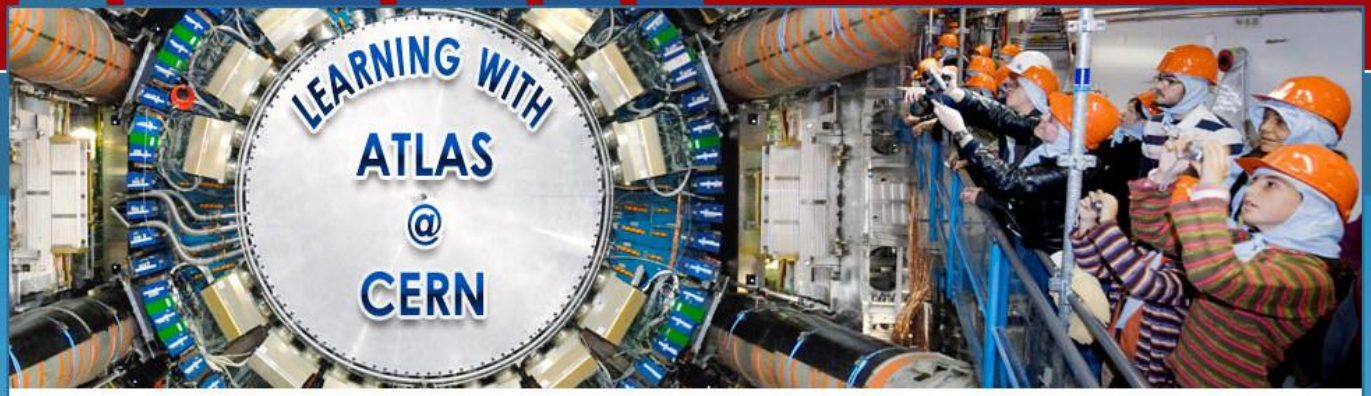
Partners	
National and Kapodistrian University of Athens	**GR *(coordinator)***
University of Stockholm	S
Austrian Ministry of Education	AT
University of Birmingham	UK
Ellinogermaniki Agogi	GR
HEUREKA	FI
House of Science	S
University of Bayreuth	DE
European Physical Society	GR
CERN	Associate
LBL	Associate
Institute of Physics (Belgrade)	Subcontractor

Learning with ATLAS @CERN

- Developed a pedagogical framework to blend informal and formal learning
- Developed advanced pedagogical scenarios
- Developed and evaluated a web based environment (portal)
- Piloted and demonstrated the LA@CERN approach in schools, universities and science centers
- Created virtual learning communities of educators, learners and researchers
- Performed an extended validation study of the LA@CERN approach
- Implemented a systematic dissemination and exploitation strategy for the project's result

ATLAS@CERN Repository

Home | ATLAS@CERN Repository | Learn More | News | Help



Welcome to Learning with ATLAS@CERN portal

The portal for Learning with ATLAS@CERN is an experimental laboratory for students, teachers and science museum visitors. The aim is to improve science instruction by expanding the resources for teaching and learning in schools, universities and science centers & museums, providing more challenging and authentic learning experiences.

Explore Learning with ATLAS@CERN Repository: The Learning with ATLAS@CERN Repository includes educational materials (lesson plans, student projects, videos, animations and high quality images of unique high energy physics phenomena)

Learn More from the Project Page

Read the News from the LHC

Share your content: The Learning with ATLAS@CERN Tool-Box will provide you with all the necessary tools to prepare your content for the ATLAS@CERN Repository.

By being a registered user of the portal you can download and upload educational material from the ATLAS@CERN Repository and access ATLAS@CERN Tool-Box. Otherwise, as a first step, if you just want to just browse at the available educational material, you can go directly to the repository.

Join the Learning with ATLAS@CERN educational community and explore new ways of teaching science!

Join ATLAS@CERN educational community

Username: *

Password: *

Log in

- Create new account
- Request new password

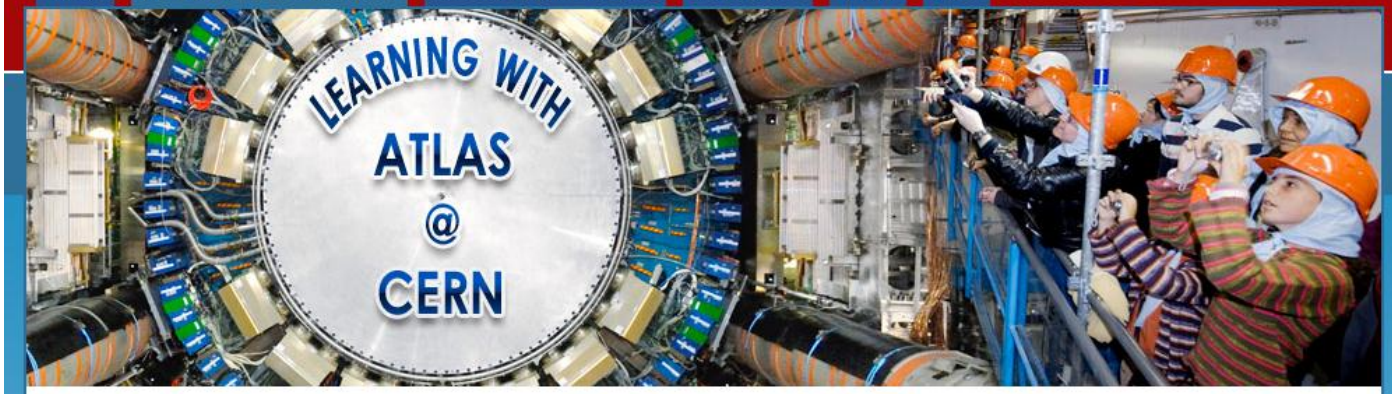
Languages

- English
- Finnish
- French
- Deutsch
- Greek
- Svenska

Terms & Conditions

ATLAS@CERN Repository

Home | ATLAS@CERN Repository | ATLAS@CERN Tool-Box | Learn More | News | Help



ATLAS@CERN Repository

Learning with ATLAS@CERN Repository contains educational material in the form of **educational content** (photos, videos, animations, exercises, graphs, links) and of **learning missions** (structured lesson plans organized according to specific pedagogical models such as inquiry based Learning and Guided Research). Users can search for the educational materials in the "Explore Learning with ATLAS@CERN" section or to upload their own materials to the Learning with ATLAS@CERN Repository, using the "Share your Content" section.

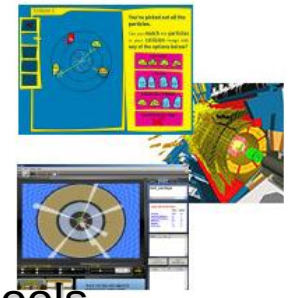
moCERN

ATLAS@CERN Repository goes mobile! Now ATLAS@CERN Educational Content is available for mobile and handheld devices. Visit **Mobile ATLAS@CERN** and explore the repository through your mobile phone.

Explore ATLAS@CERN

Search for Educational Content (130)

Search for Learning Missions (43)

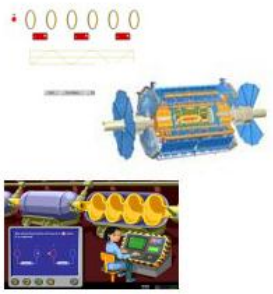


70% for schools

Share your Content

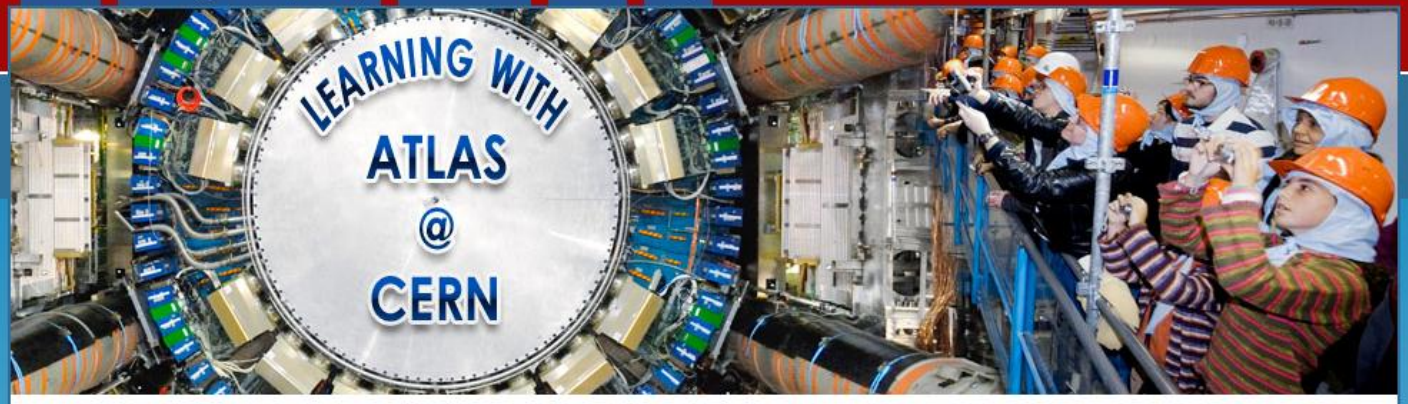
Upload Educational Content

Upload Learning Mission



ATLAS@CERN Repository

Home | ATLAS@CERN Repository | Learn More | News | Help



Search the Repository

Search

Search for Educational Content

Classification

<none> Add

Selections

Nothing has been selected yet.

- de
- el
- en
- fi
- fr
- sv
- 6-9
- 9-12
- 12-15
- 15-18
- 18-25
- 25+

Submit

Most Recent Educational Content

- An Introduction to Bubble Chambers
- Science4all
- NANOREISEN: Adventure beyond the decimal
- Kernfusion

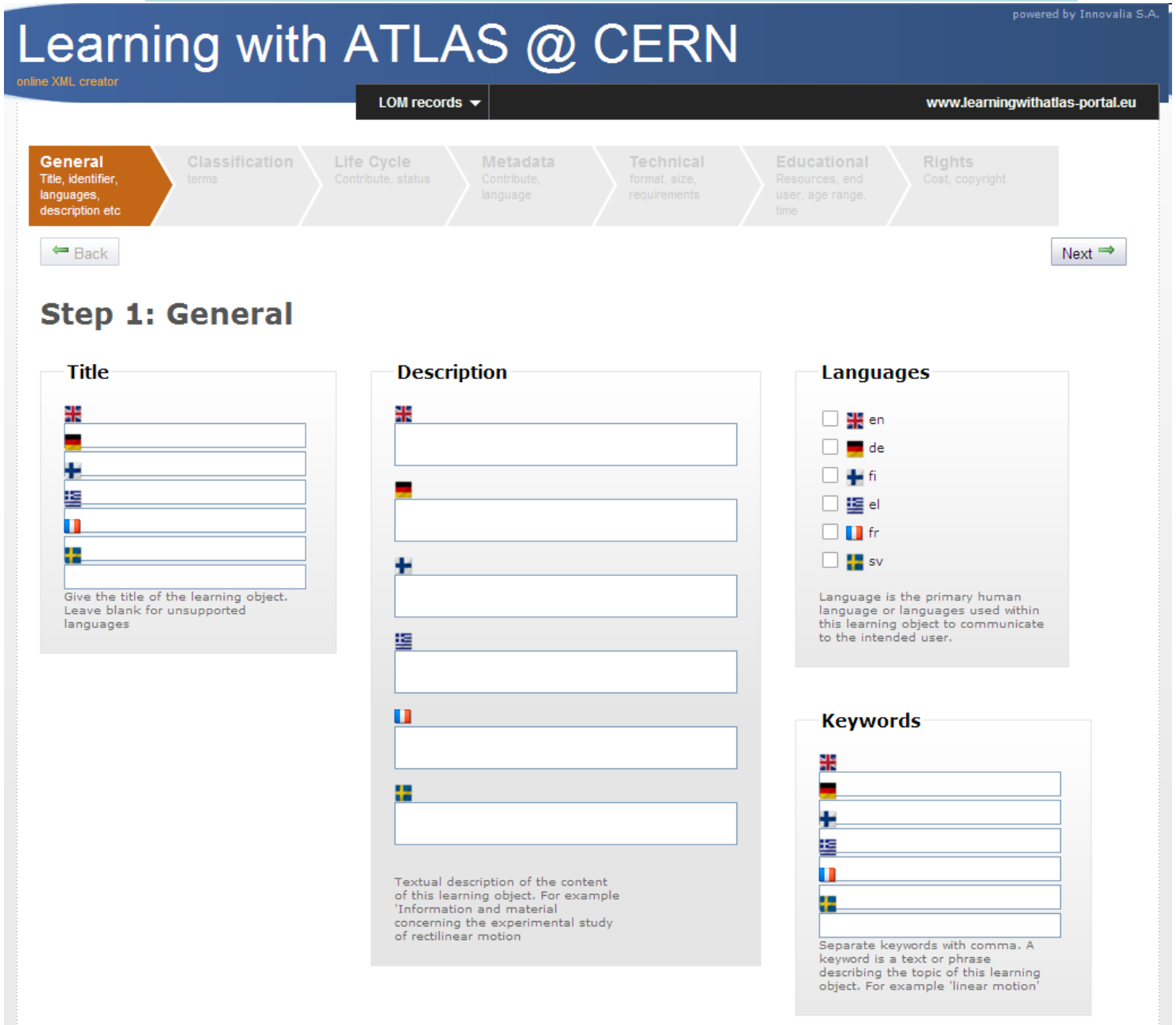
Most popular Educational Content

- moCern (Mobile CERN) - deutsche Online-Version
- LHC Game
- Fun Facts about the LHC and Elephants
- Powers of 10

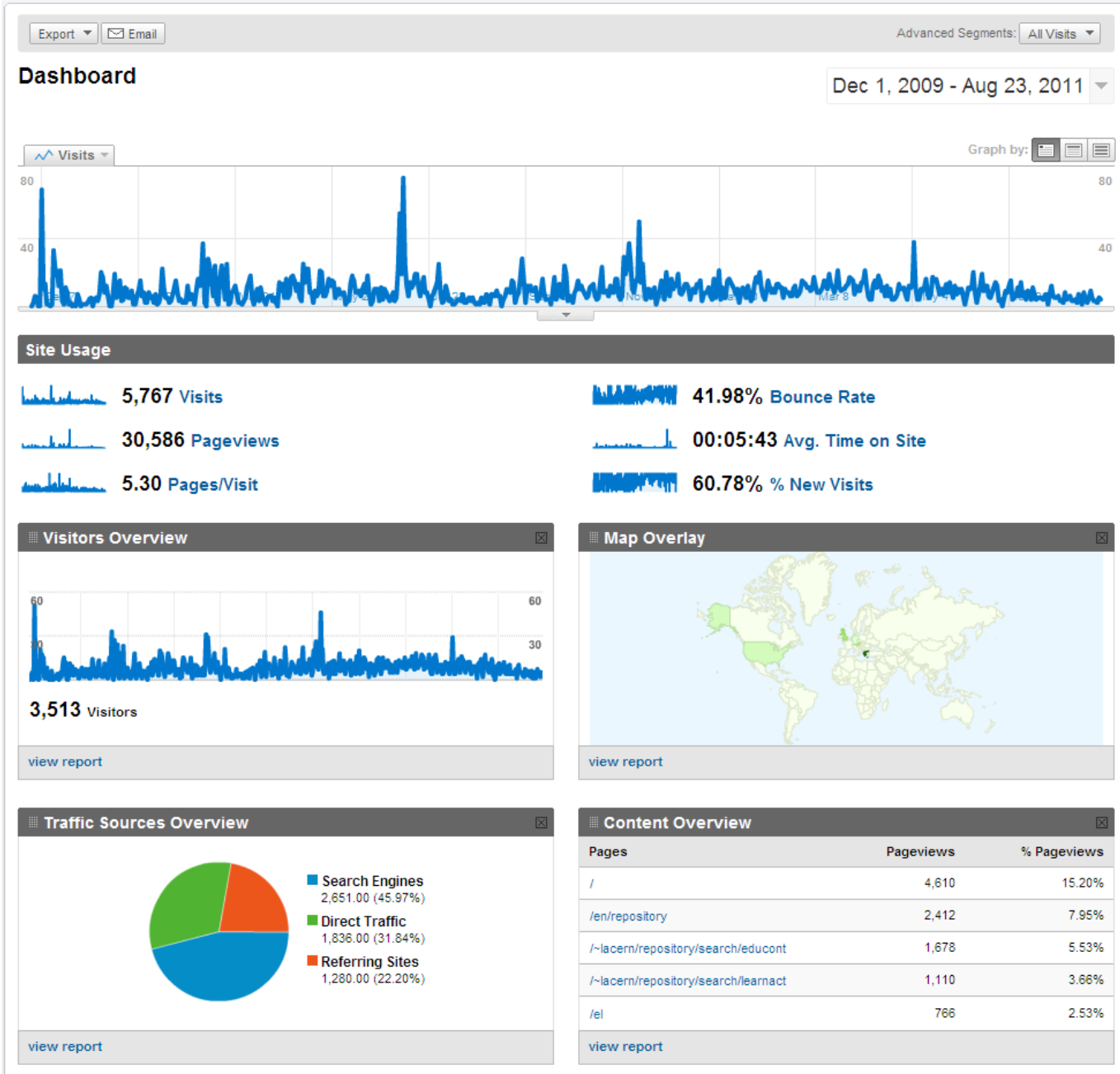
Top Rated Educational Content

- Fun Facts about the LHC and Elephants
- LHC Game
- Powers of 10
- Analysing Events in the ATLAS detector with Minerva

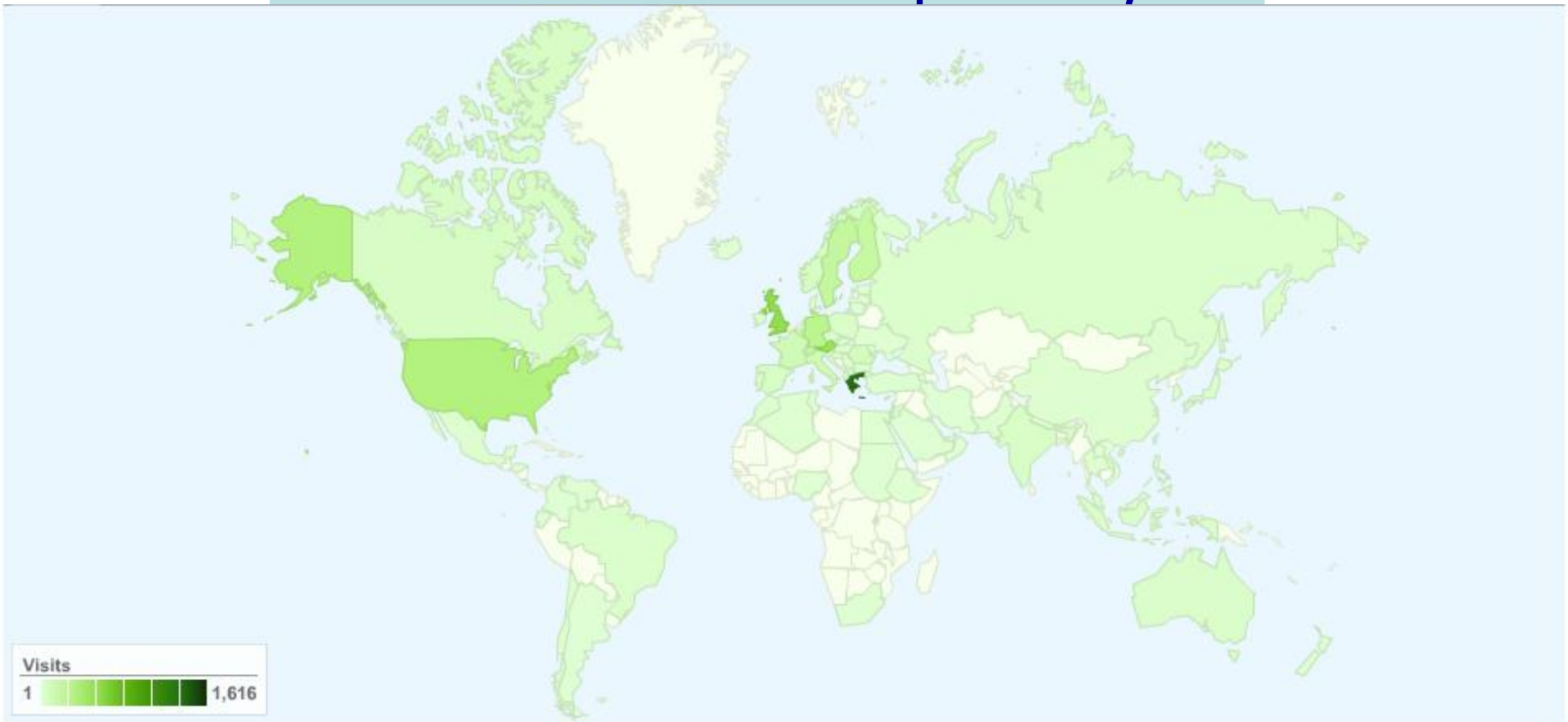
ATLAS@CERN Repository



ATLAS@CERN Repository

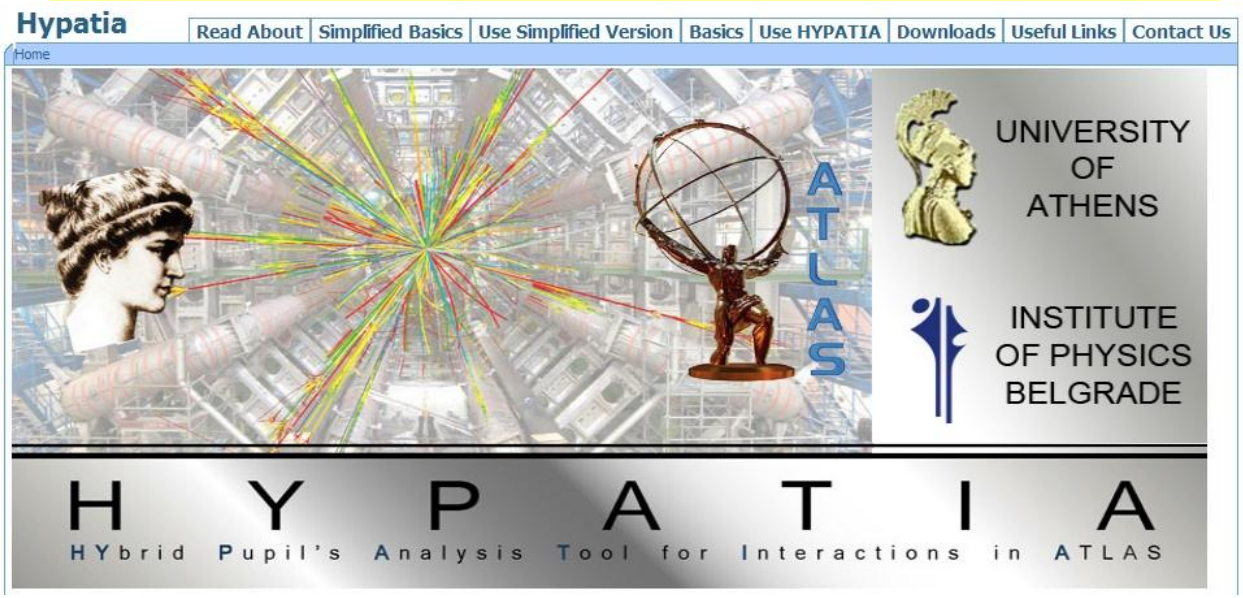


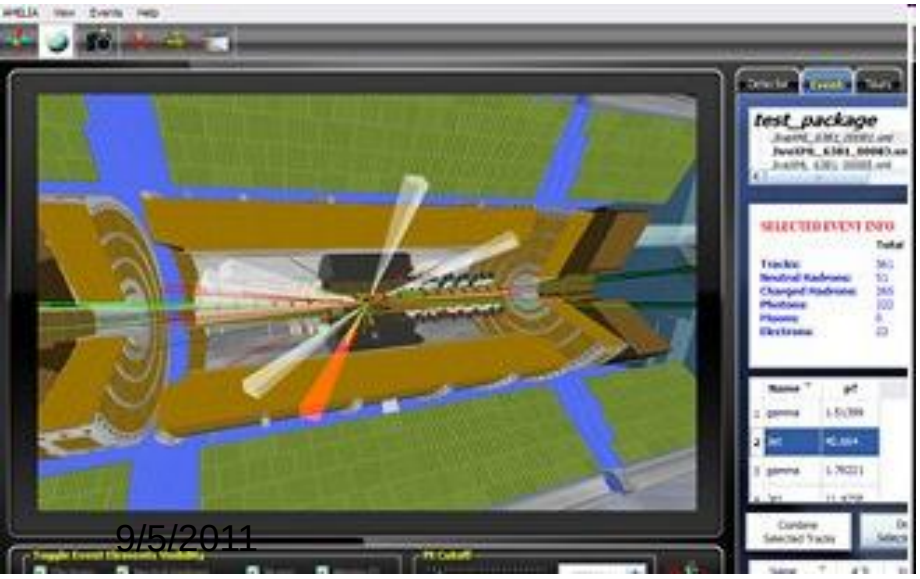
ATLAS@CERN Repository



	Detail Level: Country/Territory	Visits ↓	Pages/Visit	Avg. Time on Site	% New Visits	Bounce Rate
1.	Greece	1,616	8.32	00:09:02	43.25%	29.52%
2.	United Kingdom	653	4.59	00:05:05	65.70%	35.99%
3.	Austria	614	4.89	00:04:53	50.33%	32.08%
4.	United States	410	1.85	00:01:58	87.07%	74.39%
5.	Germany	320	4.25	00:03:00	70.94%	48.12%
6.	Sweden	248	6.10	00:05:16	47.58%	37.50%
7.	Finland	226	4.85	00:04:22	61.06%	40.27%
8.	Switzerland	219	5.41	00:05:15	64.38%	38.81%
9.	France	139	3.29	00:02:38	87.05%	46.76%
10.	Italy	133	3.28	00:03:48	61.65%	55.64%

ATLAS@CERN tool-box/ event displays





Austrian Ministry of Education Scenario


Cern

LHC

ATLAS

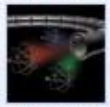

Particle Physics


High Energy Physics


Quantum Physics


Higgs


Standard Modell


Accelerators


Particle Collision


Matter


Elemantary Particles


Mass


Forms of Energy


Wave-Particle Duality


Cosmic Rays


Big Bang


Black Holes


Albert Einstein

Hawking

moCERN
mobile CERN

FH JOANNEUM
INFORMATIONSMANAGEMENT

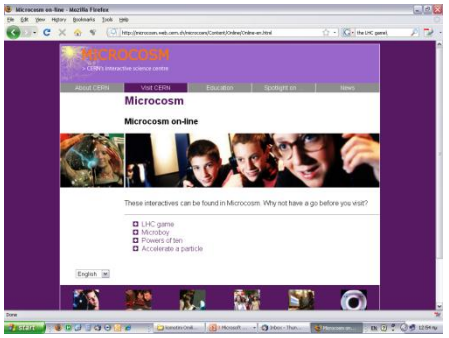
COOPERATION PARTNERS:

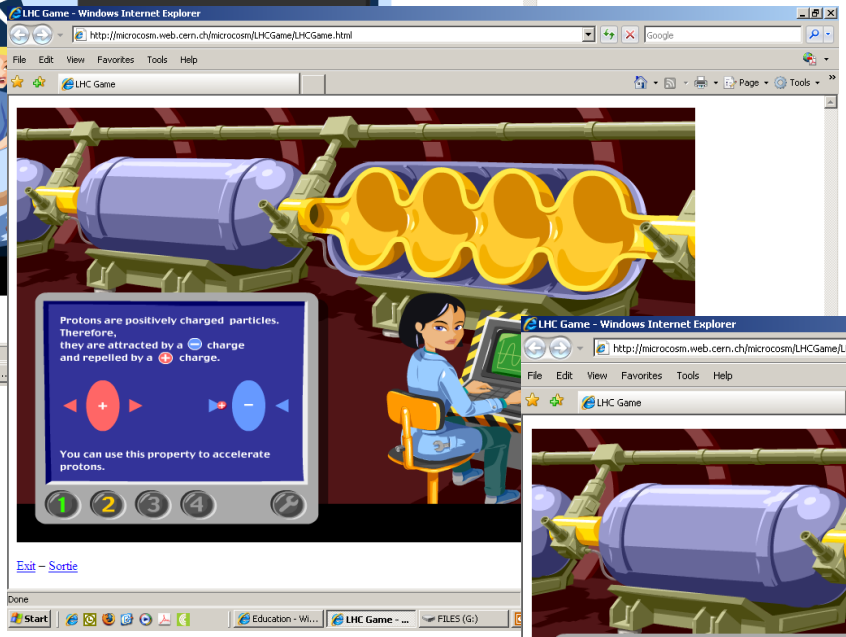
bm:uk

CERN

Credits

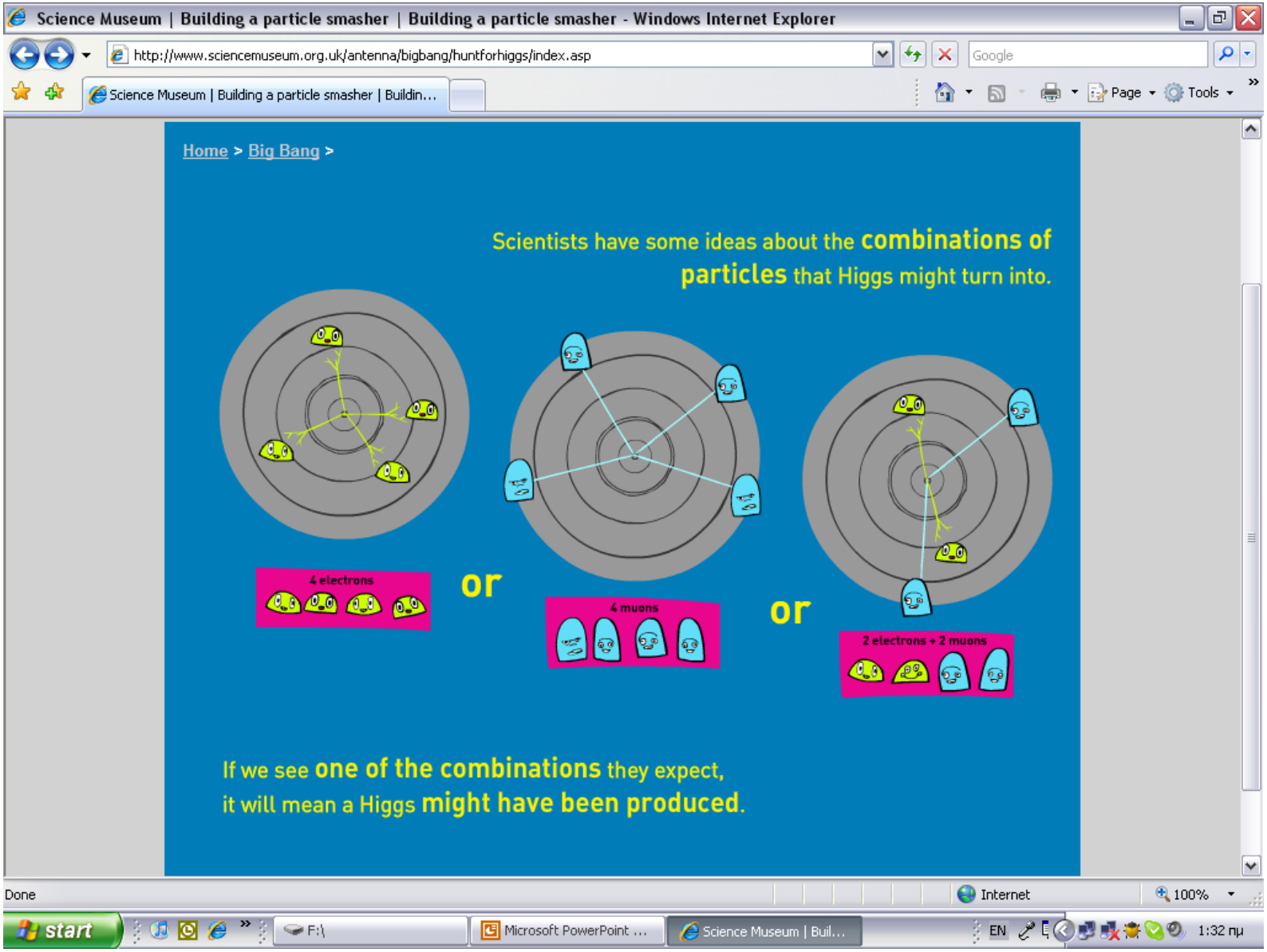
The LHC game





Linear acceleration

The hunt for Higgs



EU Rating

Summary scoring sheet	
Objectives results and products	9
Coherence between work plan and activities during the life of the project	9
Pertnership	9
Project management	10
Financial management	9
Evaluation	10
Dissemination	9
Global score	90%

Overall evaluation

Overall comment:
The LA@CERN project partnership has demonstrated good planning, strong management, and clear partner commitment and energy. These have allowed the successful realisation of an innovative idea with public support. The project has demonstrated considerable effort to reach users at schools, universities, science centres, and in the pedagogical and scientific communities. The broad user-centred focus that was central to design, validation, testing, and dissemination, has involved a very large number of relevant potential end users and decision makers. The very detailed and rigorous results clearly demonstrate demand, as well as deployment routes for wider uptake. The project can be judged a highly successful investment.
Strong points:
The main strengths are evident in the original innovative idea, the strong partnership, the user-centred approach, and the good management that has steered the consortium towards a good outcome.
Weak points:
There are no significant weaknesses apparent in LA@CERN, and it is hoped they will continue the same level of energy in promotion and sharing of the evident products of the initiative. This is the main risk - but it seems unlikely that this energetic partnership will not continue efforts.