

GLOBAL excursion

Extended Curriculum for Science Infrastructure Online



Objectives

- To provide young citizens (14-18 years) and their educators **access** to e-Infrastructures and their selected labs & resources
- To create teaching use cases, pedagogical & technical artefacts
- Thus to improve science curricula



Joyful exploration of e-Science

- nano- and biotechnologies
- volunteer computing
- life sciences

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Extended Curriculum for Science Infrastructure Online



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DISCLAIMER

<http://www.globalexursion-project.eu/>

GLOBAL excursion (Extended Curriculum for Science Infrastructure Online) is a support action funded by the European Commission under the Seventh Framework Programme -FP7 and attributed to [DG Connect – Excellence in Science – Digital Science](#).

GLOBAL excursion is a **new way to science education**. In this project we will introduce e-Infrastructures to educators and their pupils between 14-18 years of age (upper stage school). The driving themes currently are Nano- and bio-technologies, as well as volunteer computing and life sciences with an interdisciplinary focus especially including ethical, legal and social aspects (ELSA).

The aims of GLOBAL excursion are basically twofold: on the one hand we envision to enrich science teaching in European schools and on the other hand we offer researchers and their institutions a promotion channel towards a school audience. Via a central web portal, called the [Virtual Science Hub – “ViSH”](#) we will provide scientists, teachers and their pupils as well as policy makers a package of activities, materials, and tools for enabling the integration of e-Infrastructures into school curricula.

The [ViSH](#) is the main access point. It contains a selection of e-Infrastructures, a social network where scientists and teachers will be able to exchange and establish collaborations, and a virtual excursion room, where pupils will be able to experience real e-science applications in areas of high relevance for the future, such as Nano- and

NEWS

[Registration to the “Meet the scientist” sessions are open](#)

[Working together with Societic](#)

[ViSH Big Christmas Opening!](#)

[New Perspectives in Science Education](#)

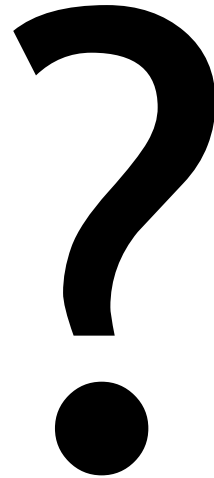
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GLIMPSE INTO THE PROJECT



GLOBAL excursion team

eInfrastructures vs remote labs



eInfrastructures vs remote labs

- in e-infrastructures you have people from different locations connecting to a tool/facility/whatever and most importantly being able to collaborate or work or view the same thing at the same time (e.g. grid computing, Doñana)
- with the remote laboratories, you still connect to a remote device but it is a personalised experience and the relation you have with the device is more limited. You can change some settings for example (e.g. microscope, telescope)

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Currently GLOBAL excursion offers access to resources from areas: nano- and biotechnologies, volunteer computing and are welcome to join in!

If you are a scientist and would like to offer part of your infrastructure material to schools, please contact us or register at the [ViSH](#).

- [Doñana biological station](#)
- [Fluorescence microscope @ BIFI](#)
- [Nanotechnology centre @ UCAM](#)
- [Nanotechnology Library and Museum](#)
- [Grid Computing](#)
- [Renderfarm.fi : A collective rendering platform](#)
- [KOPI plagiarism checker](#)
- [Ibercivis Volunteer computing project](#)

DOÑANA

MICROSCOPE

NANOTECHNOLOGY
CENTRE

NANOTECHNOLOGY
MUSEUM

GRID COMPUTING

RENDERFARM.FI

KOPI

IBERCIVIS

IMÁGENES Y SONIDOS

Lista de cámaras

Imágenes y Sonidos > Cámaras de vídeo > Lista de cámaras

Lista de cámaras



c-paj-mar

Estación Biológica de Doñana

General

Entorno

Tipo de equipo: Axis 233D

Latitud: 36° 59' 48" Longitud: 6° 26' 29"

Estado: Activa

Descripción: Marisma cerca de la Pajareras

PETICIÓN DE DATOS

PROYECTOS ICTS

LA RED DE LA ICTS

Atención NOTA IMPORTANTE para usuarios con versión de Flash Player 10.0.X: debido a un bug del Flash Player es posible que la imagen del streaming no se muestre correctamente (se congele o se muestre en negro). Para solucionarlo, basta con mover ligeramente la barra de desplazamiento inferior del reproductor.

La nueva versión 10.1 del Flash Player soluciona el problema.

Más información y descarga en: [Adobe Flash Player 10.1](#)

Main access point - Virtual Science Hub (ViSH)



Virtual Science Hub

4,500 tours organized - 488,795 infrastructure stored



Tour

- Tour recording and streaming
- Documents, pictures and repositories
- Your contacts and relations



Infrastructure

- Discover best online infrastructure
- Meet interesting people and groups
- Video chat with your colleagues



Activities

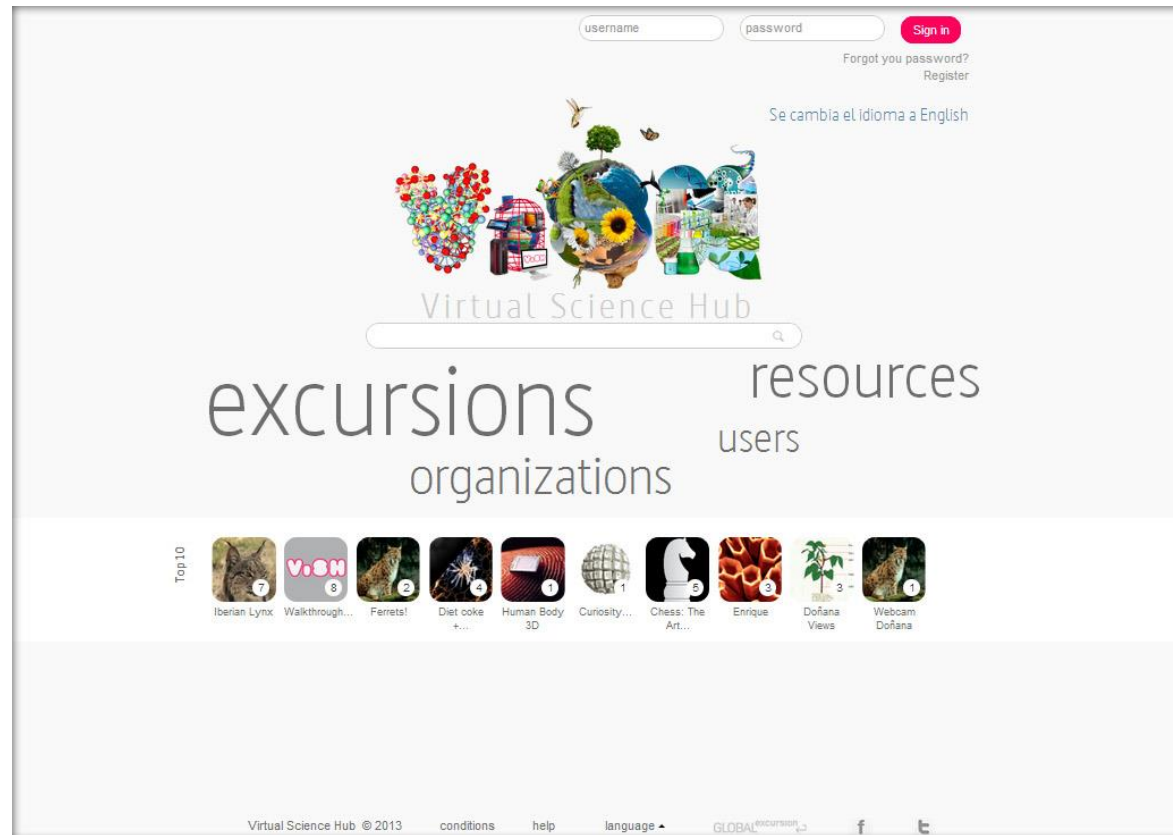
- Organize your projects and activities
- Participate in activities and events
- Create your own tour and infrastructure

Join now

Virtual Science Hub - VISH

Social &
collaborative public
repository of

- e-Excursions
- Resources
- User profiles
(content producers)



<http://www.globalexursion-project.eu/>

GLOBAL Excursion RI-283686

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Main features of the ViSH

- social network
- e-Infrastructure resources
- Android app to upload photos
- virtual excursions
- personalized recommendations of other users and resources
- videoconference
- pedagogical evaluation of excursions

e-Excursion

➤ Web based presentation

▪ where a slide is a:

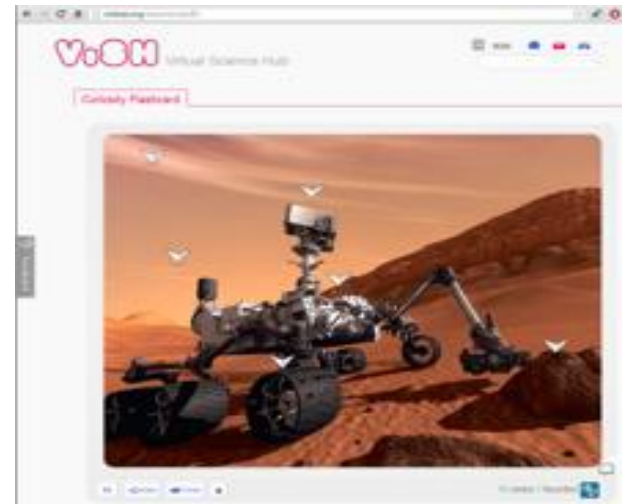
- Rich media mash-up (standard content: text, images, videos; remote access elements: cameras, sensors, controllers)
- Smart-card
- Quiz

➤ For virtual & physical classroom

- Can be projected with a beamer
 - Like a powerpoint presentation

➤ Accessible from a smartphone

- Edited only from desktop or tablet

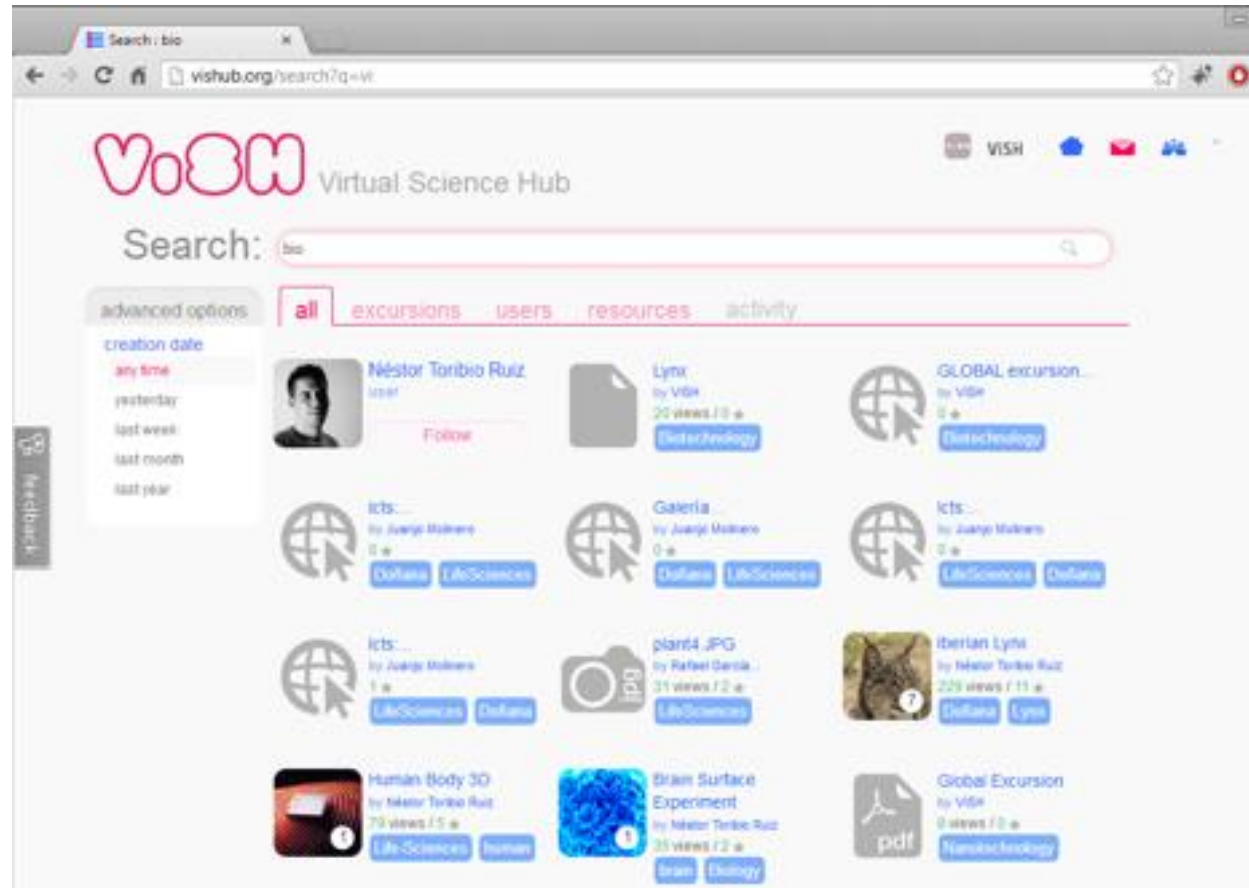


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VISH Content

Everything in ViSH is public (non registered users):
e-Excursions,
resources &
user profiles
(example:
search “bio”)



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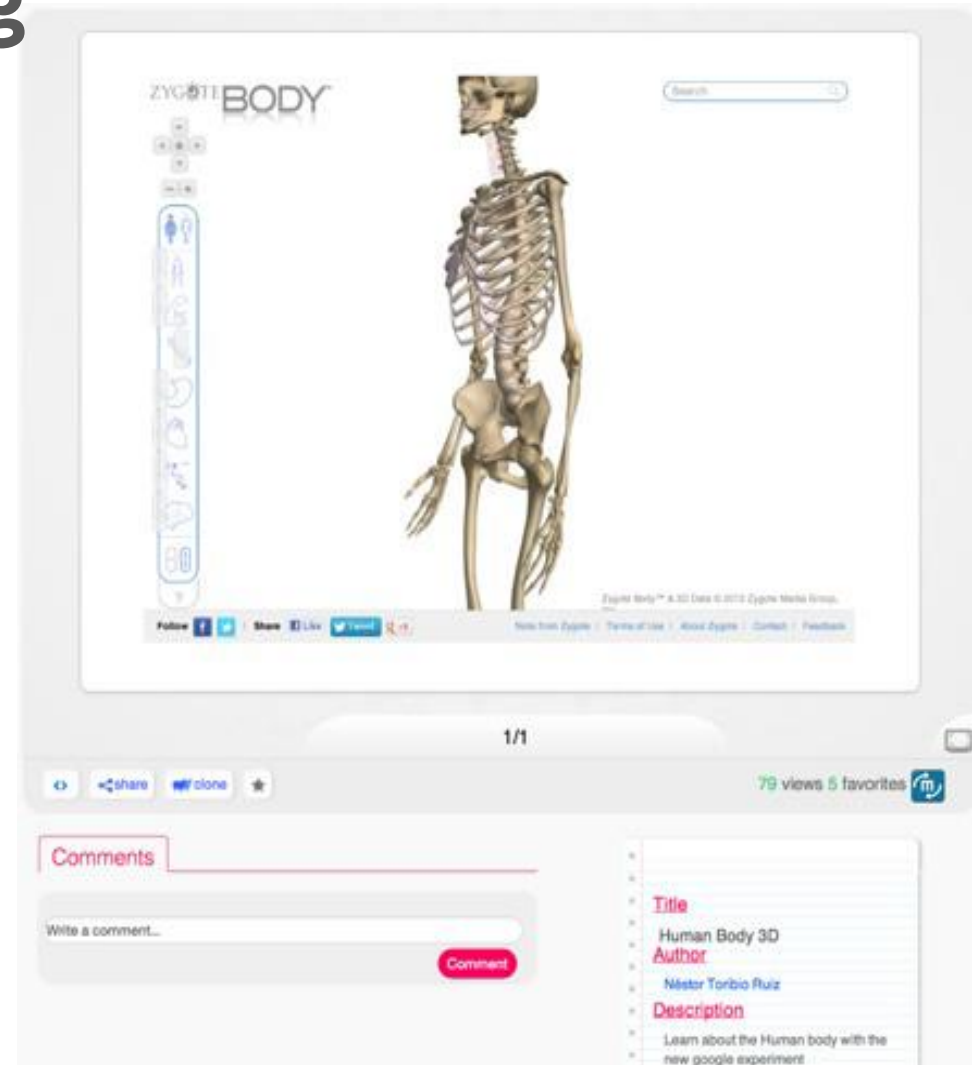
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Content sharing

Registered users can:

✓ Create new e-Excursions

✓ Clone and enrich e-Excursions



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GLOBAL Excursion RI-283686

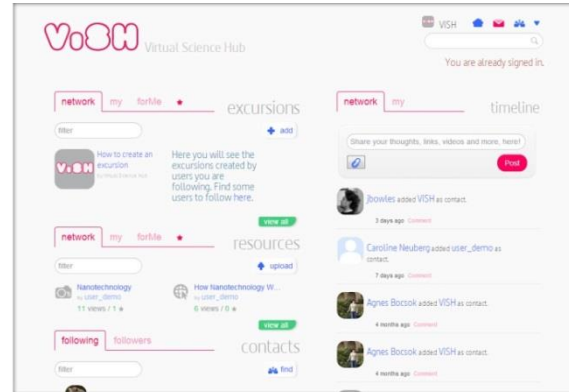
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Main features of the ViSH

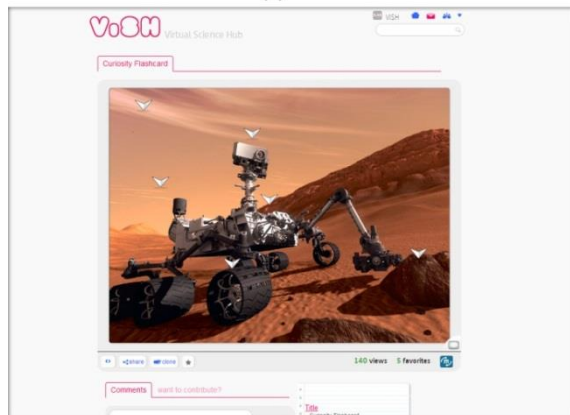
http://www.globalexursion-project.eu/?page_id=21



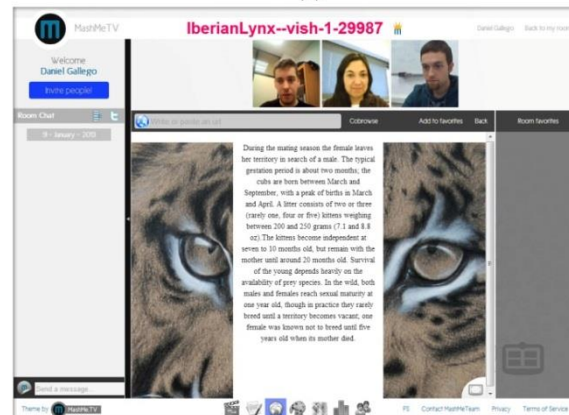
(a)



(b)



(c)



(d)

VIRTUAL EXCURSIONS: A NEW WAY TO EXPLORE SCIENCE IN CLASS