

Experiments and White Paper

# **SOCIENTIZE**

EU BON WORKSHOP

27 November 2014

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University Zaragoza

Fundación Ibercivis



## **SOCIENTIZE**

[www.socientize.eu](http://www.socientize.eu)

EU FP7 funded CSA-SA

Contract n°: RI-312902

Project type: CSA-SA

e-Infra → Digital Science

Start date: 1/10/2012

Duration: 24 Months

Total budget: 709.999,86€

Consortium:

Univ. Zaragoza, Tecnara (ES), Univ. Coimbra - Museu Ciencia Coimbra (PT), Univ. Fed. Campina Grande (BR), Zentrum für Soziale Innovation (AU)

External Advisory Board:

David Anderson (BOINC – US), Drew Hemment (FutureEverything – UK), Steven Bamford (Zooniverse – UK)

Subcontractors:

UB, CERN (selected from 16 proposals!)

*“impact disproportionately large”*

## Objectives

To foster interaction and coordination between citizen science actors

→ **coordination, outreach and engagement**

Promotion of capabilities of infrastructures

→ **participatory experiments**

Integration of solution and communities

→ **deployment and support**

Compilation of best practices and policy recommendations

→ **policy recommendations**

### Approach

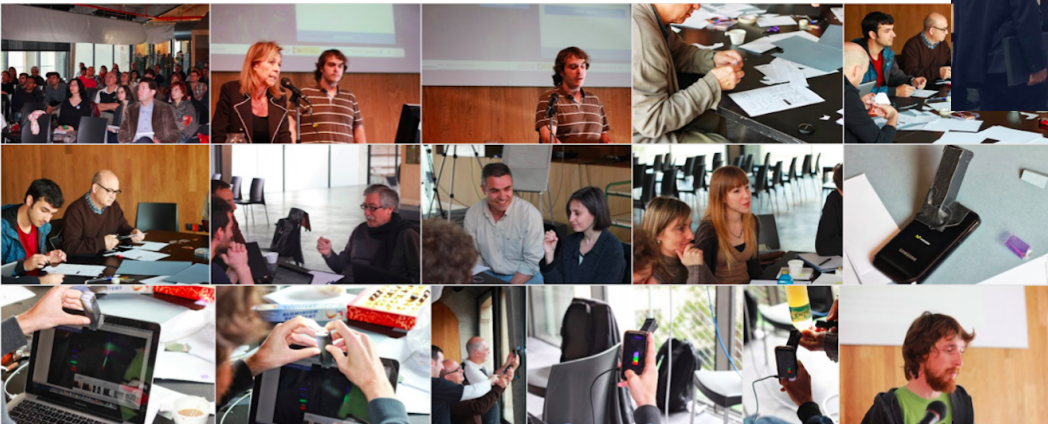
Open, collaborative, efficient, inclusive, exploratory, community-based

# Coordination, outreach and engagement



community, collaboration, communication, coordination, culture, crossover capability, crowds, code, coexistence, coincidence, commitment, confidence, credibility, criticism, cruelty, cubicles, cognition, china, cumulation, culmination, cybernetics

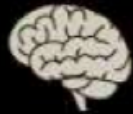
**... what it takes to change**





# Participatory experiments

Collective Music Experiment



Collective Intelligence

Wilson  
Bindsurf



Pooling of Resources

+20000 users BOINC  
+15000 users web  
+13000 user PyBossa  
+800 users ProjectQ  
+200 users CME

UrbanBees



Grassroots Activities

HappyUp  
Energy @ home\*  
Aqua



Data Collection

White Paper



Participatory Experiments

ProjectQ



Serious Games



Analysis Tasks

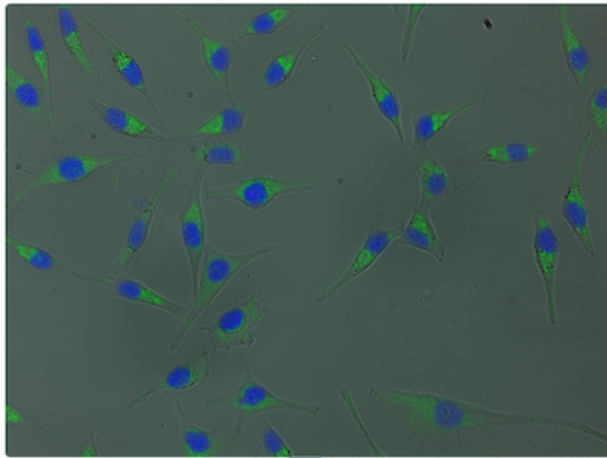
Cell Spotting  
Sun4all  
Table transcriber  
Antimatter\*

Mind Paths

# CellSpotting.socientize.eu

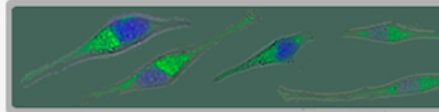
How many **cells** of each **shape** do you see?

Channels  Normal  Blue  Green

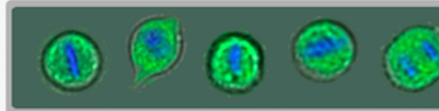


They have to be classified into elongated, rounded, star-shaped many cells are there of each type?

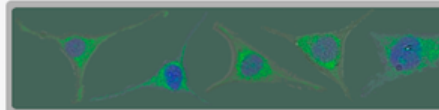
Example *Elongated*



Example *Rounded*



Example *Star-Shaped*



## CELL SHAPE

Through the shape of a cell is possible to determine the cell status. HeLa cells can be elongated, star-shaped or rounded.

Count the number of elongated ( ), star-shaped ( ) and rounded cells ( ).

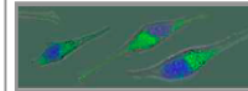


Fig. 14 Elongated HeLa cells.

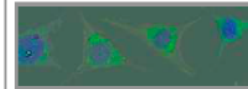


Fig. 15 Star-shaped HeLa cells.

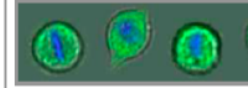


Fig. 16 Rounded HeLa cells.

## KNOW MORE ABOUT HELA CELLS AND CELL DEATH!

### NUCLEUS SHAPE

Cell death can also be verified at the nucleus level. In the case of apoptosis, the nucleus gets condensed and fragmented.

Count the cells with a rounded ( ), elongated ( ), bean-shaped ( ), and condensed and/or fragmented nucleus shape ( ).

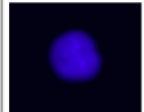


Fig. 17 Rounded nucleus.

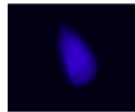


Fig. 18 Elongated nucleus.

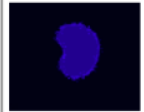


Fig. 19 Bean-shaped nucleus.

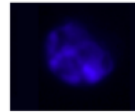
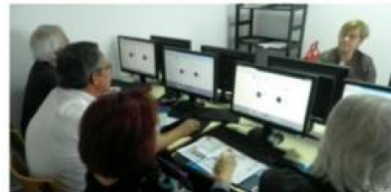
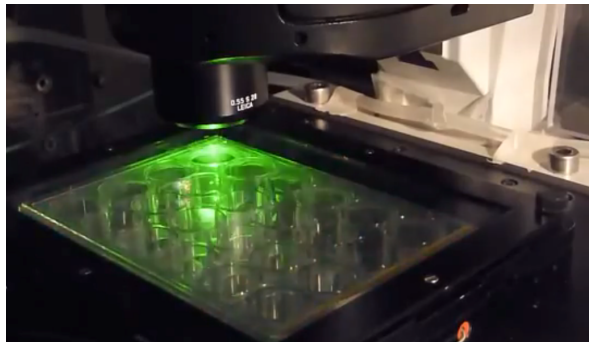


Fig. 20 Condensed and fragmented nucleus.

Why is a condensed nucleus brighter than a rounded nucleus?

A: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



University  
Of  
Experience

# CellSpotting.socientize.eu



Community

Applications

About

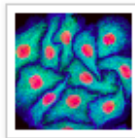
 Sign in

> Info

> Contribute

> Tasks

> Statistics




## Cell Spotting: Tasks




Overall progress: 83% completed

4067 Tasks

 Browse

Check the status of the tasks

Browse >

 Export Tasks

Export tasks to JSON, CSV or a CKAN server

Export >

# Sun4all.scientize.eu

The screenshot shows the Sun4All web application interface. At the top, there is a red header with the text "Sun4All" and social media icons for information, Twitter, Facebook, and Google+. Below the header, the main content area is divided into several sections:

- Satellite image:** A large circular image of the sun with directional markers for North (N), West (W), East (E), and South (S).
- Selection Preview:** A smaller circular image showing a zoomed-in view of the sun's surface, with a "Add Sun Spot" button and an "Add Cluster" button.
- Your Data:** A section with the text "Spots count: 0" and "Clusters count: 0".
- Your Observations:** A text input field for recording observations.

## CiênciaHoje<sup>®</sup>

Jornal de Ciência, Tecnologia e Empreendedorismo  
Diretor: Jorge Massada  
Subdiretores: Raquel Soares e Tiago Fleming Outeiro

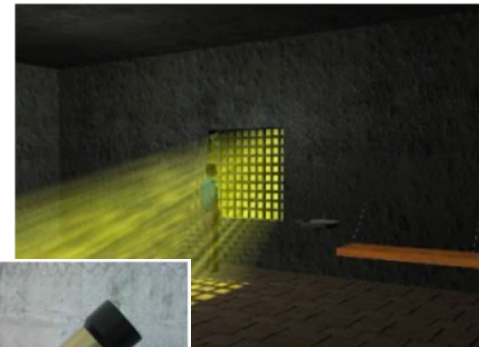
Sexta-feira, 07 de Novembro de 2014

Home Ciências Revista Dossiers Colunistas Encartes Utilidades

### Reclusos de Castelo Branco vão ver o sol (não aos quadradinhos)

SOCIENTIZE promove acção no estabelecimento prisional

2014-07-21



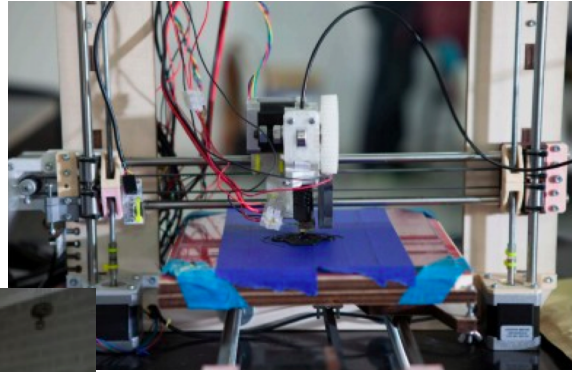
Quinta-feira, 24 de Julho, vai ser um dia muito especial para os reclusos albacastrenses. Pelas 14h00, o SOCIENTIZE promove, no Estabelecimento Prisional de Castelo Branco, um evento de apresentação do Sun4All. Trata-se de um projecto de Ciência Cidadã que pretende envolver os cidadãos no estudo do Sol e da actividade solar através da análise de imagens do Sol provenientes do Observatório Astronómico da Universidade de Coimbra (UC), um dos maiores acervos mundiais de espectrohologramas (imagens



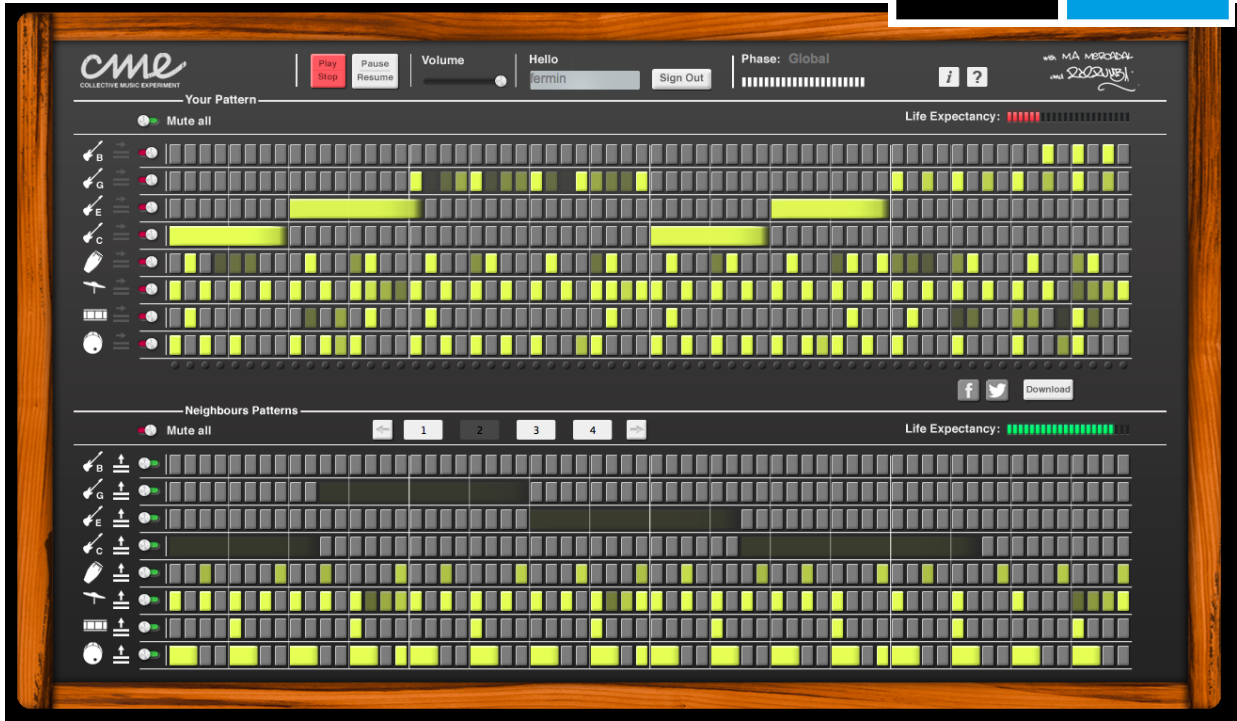
Local servers  
In process



# Urban Bees



# CollectiveMusicExperiment.eu



**DIGITAL AGENDA FOR EUROPE**  
A Europe 2020 Initiative

European Commission

Science & Technology

### SOIENTIZE project participates to Collective Music Experiment in Sónar Festival, 12-14 June 2014

Last edited by [Newsroom Editor](#) on 05/06/2014

Is the collective able to solve a given complex problem which is unsolvable for individuals? Is the collective more creative than the most talented of their members? A Collective Music Experiment (CME) will be conducted during the 21st International Festival of Advanced Music and New Media Art Sónar to provide new knowledge on the ways large groups of individuals produce creative results collectively.

[SHARE THIS](#)

The challenge is to exploit the power and the passion of the music-based community in action. During the three days of the festival, a custom-made platform will allow for the generation of music patterns and exchange, fostering fast self-evolution and alignment of perspectives among the networked participants.

CME will merge on-location research within the Festival and the virtual scenario that allows global practices for real data gathering on the large-scale network. It will also bridge the gap between experts and amateurs mixing theory and practice.

The knowledge creation, the information selection and the self-evolution of the societal intelligence, will be analysed to understand the social practices of





# Other projects

## Mind Paths



**POLEA** GUION-PRACTICA AYUDA

**INTRODUCCIÓN**  
En la ventana inferior puedes ver una imagen en tiempo real del experimento con el que puedes interactuar, desde arrastrar la pequeña regla de referencia hasta configurar y ejecutar cualquier experimento de forma remota con los botones de control.

**PASO1**  
Configura los parámetros físicos del sistema virtual (gravedad, masa...), parámetros y método de simulación que desees. Al finalizar, presiona el botón "Preparar" para enviar los datos al sistema.

**PASO2**  
Una vez que el sistema se encuentre en la posición deseada, se habilitará el botón para iniciar la simulación. Cuando lo pulsemos comenzará el experimento

**PASO3**  
En la parte inferior de la pantalla se encuentra el apartado de gráficas. En éstas podemos observar valores como: la evolución del ángulo, velocidad angular, energía cinética, energía potencial y energía mecánica de ambos modelos a lo largo del tiempo.

Gráficas: DIFICULTAD, PARÁMETROS, Girar polea (grados): 0

Preparar

Gráfica

Handwritten notes: 1. INGRESA PARÁMETROS, 2. LANZA LA SIMULACIÓN, 3. ¿ESTÁS LISTO?

happyUp

Tu nivel de felicidad es del 74%

¿Estás satisfecho con tu vida?  
¿Consideras esto importante para tu felicidad?

4/20

RESPONDE SENCILLAS PREGUNTAS PARA CONOCER TU FELICIDAD

## savingenergy.socientize.eu

SAVING ENERGY @HOME

Home The project Recommendations Your Energy Profile Results

**Results**

- My Energy Results
- Comparative Analysis
- My Consumption Reduction

**Your results**

In this section you can take a look at the analysis of your energy consumption level, as well as compare it with the rest of users and receive the most efficient recommendations for energy saving at the analyzed home.

Below, your electric and thermal consumption graphs are displayed.

**Energy Consumption from 2013**

**Electric Consumption**

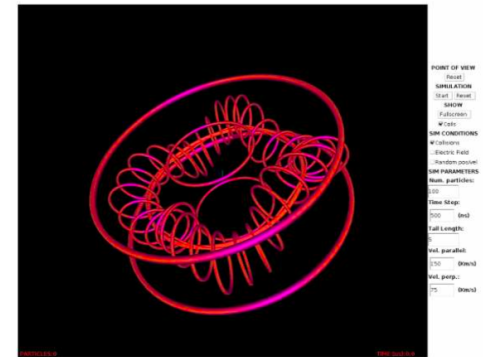
Consumption (kWh) vs Months (April 2013)

**Thermal Consumption**

Consumption (kWh) vs Months

My account: Log out

Latest news: UK coal use still growing but steady progress on renewables



## GripeNet.es



### Participating countries and volunteers:

Spain	12198
France	3870
Italy	1808
Germany	3309
UK	4546
Sweden	0
Poland	5103
Spain	834
Italy	405

# Unexpected...

MENU



## OPENCURIOSITY-FOLLOW-YOU-CURIOSITY-OPEN-YOUR-MIND



*OpenCuriosity is an open source exomars rover, based on the NASA Curiosity rover, based on Arduino. We have used the 3d printing technology to prototype some parts. All the people will be allowed to use these Arduinos and sensors for their own creative purposes while they are in space. They will be allowed to integrate their project in the robot, and the data gathered will be available on the internet in order to share with the general public for educational, science or other purposes.*

This project is solving the [ExoMars Rover is My Robot](#) challenge.

### PROJECT INFORMATION

License: [Common Public Attribution License 1.0 \(CPAL-1.0\)](#)

Source Code/Project URL: <https://github.com/luismartinnuez/OpenCuriosity>

### RESOURCES

Carlos Sicilia Project - <http://www.youtube.com/channel/UCIgnjQmL78DIHMunk2THLg>  
Luis Antonio Martín Nuez - <https://www.youtube.com/user/luisantoniomartinez>

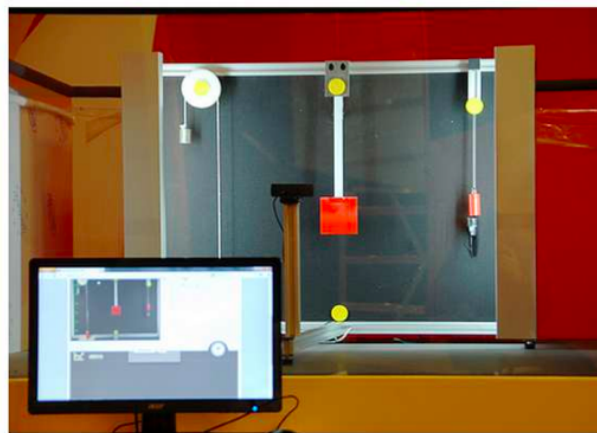


SpaceApps is a NASA incubator innovation program.



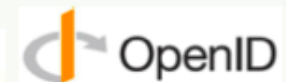


**Ciencia Remix: Citizen Science lab/exhibition/space** [www.cienciaremix.es](http://www.cienciaremix.es)

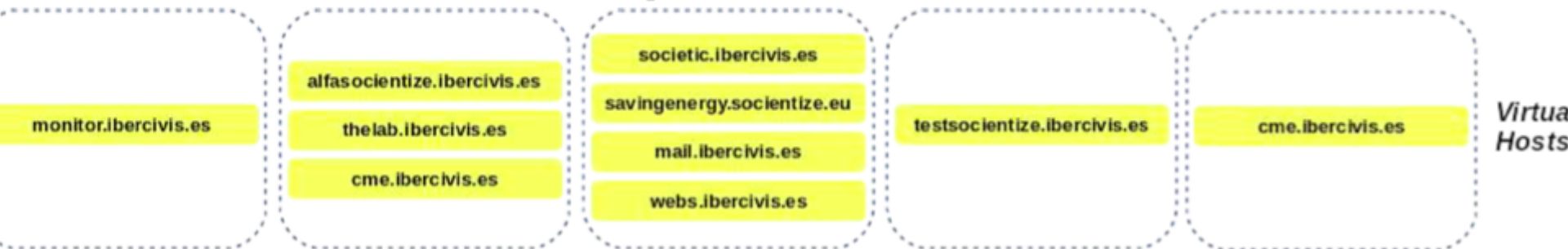


Do you want to be on it?

## Deployment and support



# Infrastructure Description



srv1.ibercivis.es

srv2.ibercivis.es

srv3.ibercivis.es

srv4.ibercivis.es

ibercivis04.fccn.pt

Daily incremental backups

Weekly full backups

App development  
Project servers

Project servers  
Mail server  
Web server

Middleware test and development

Project server

## Policy recommendations

Desktop  
research  
and  
mapping

Consortium  
Expertise

Experts  
interviews

Target groups  
Working sessions

Questionnaires

VISION

Cross-  
cutting  
concerns

Areas in  
need of  
change

Draft  
recommendations

Feedback

Revision

GREEN  
PAPER

Dissemination

Online  
consultation

Debate

Refinement

Endorsement

WHITE  
PAPER



# Green Paper on Citizen Science.



## Green Paper on Citizen Science

**Citizen Science for Europe**  
Towards a better society of empowered  
citizens and enhanced research

**||** In the debate that is ongoing all across Europe, the bottom-line question is: Do we want to improve Europe or give it up? My answer is clear: let's engage! If you don't like Europe as it is: improve it!"

- José Manuel Barroso, President of the European Commission to the European Parliament, 11 September 2013



• Ad Emmen, International Desktop Grid Federation • Adam McNamara, Anisdme Computing Ltd. • Adam McNamara, University of Surrey • Ana Pascual, Biodiversity Assessment Unit, Intern • Andrei Alexandru, Jaime Cortesado Secondary School • Aneta Jozsa, European Schoolnet • Alexander Y. Quniford • Alexandra Szwed, Hannover University of Music, Drama and Media • Alexandre Guimarães, ICBAS & Member of the EC President's Science & Technology Advisory Council • Alfonso Tarancon, Universidad de Zaragoza – BIFI Alison Smith, Plymouth University • Álvaro Rodríguez Rosiño • Amílcar Falcão, University of Coimbra • Amy Robinson, MIT EyeWire • Ana Maria Azeis, Senior University of Coimbra • Ana Raquel Riedel von Teuchenhäuser, University of Leipzig • Anabela Ramos • Andrea Sforzi, Museo di Storia Naturale della Maremma • Andreas Lieberath, Aarhus University, Centre for Community Driven Research • Andy Donnelly, Cambridge Science Centre • Angelika Wurbs, Leibniz Centre for Agricultural Landscape Research • Anne M. Dijkstra, University of Twente • Antonio González, TECNARA Cluster TIC Aragón • António Monteiro, Museu da Ciência da Universidade de Coimbra • António Sousa, Student of the Senior University of Agueda • Aranzha Vieira, Senior University of Ismaiz • Anxo Sanchez, Universidad Carlos III de Madrid • Armanda Vita, Senior University of Coimbra • Augusto Semedo, Senior University of Agueda • Barbara Braynsky, Mapping for Change, University College London • Barbara Kalumenos, STM • Barbara Koesinger, Zentrum für Soziale Innovation • Barbara Saracina, University of Florence • Beatriz Antali, Universidad de Zaragoza – RIFT • Beñen Barroeta, University of Alcala-LAH • Ben Segal, CERN • Cai Qing • Cláudia Silva, Universidade de Coimbra • Caren Cooper • Carlos Val, Fundación Iberovis • Caroline Manah, Zentrum für Soziale Innovation • Chandri Clarke, Citizen Science Center • Chantale Bélanger, Université du Québec à Montréal • Chris Lennard, Cambridge Science Centre • Christian Nold, University College London • Christian Vogt, Zentrum für Soziale Innovation • Christoforos Pavlakis, ICT&S Center • Christopher LM Kyba, Leibniz Institute of Freshwater Ecology and Inland Fisheries • Cindy Regalado, University College London • Claudio Miraso, IISCC, Universitat de les Illes Balears • Coral Victoria de la Iglesia Mabeo, FAMUNCYT • Daniel Lombardi, CCC, Sluuthleworth Foundation • Daniel López Bruña, UNF-Ciemat • David Anderson, Space Science Laboratory, University of California • David Carren, www.openscientist.org • David George Foster, CERN • David Swanson, Imperial College London / Open Air Laboratories (OPAL) • Dirk Hoiberg, Swiss Federal Institute of Technology Zurich • Doreen Wörner, Leibniz Centre for Agricultural Landscape Research • Drew Hemmen, FutureEverything • Eduardo Arco, CSIC • Eduardo Lantini, Fundación Iberovis • Elisabetta Mangano, Centre for Functional Ecology • Elich Parnas, autonomous • Estrella Orea, The University of Murcia • Ferrnín Serrano Garza, Universidad de Zaragoza – BIFI – Iberovis • Fernando Tomás • Filipo Astari, The Young Foundation • Francisco Rodríguez, York University • Francisco Brás, Centro Universitario Federal Campina Grande • Francisco Castañer, CIEMAT • Francisco Sanz García, Universidad de Zaragoza – Iberovis • Francisco Vigilando, Universidad de Zaragoza • François Gray, Citizen CyberScience Centre (CCC) • Giuliana Rabbia, Istituto Nazionale di Geofisica e Vulcanologia – INGV Roma • Greg Newman, Natural Resource Ecology Laboratory, Colorado State University • Helena Figueiredo, José Cabido Secondary School • Helena Mendes, University of Coimbra • Hélio Marchante, Centre for Functional Ecology (CFC) • Ian Morgan, Optima • Ilse Marschalek, Zentrum für Soziale Innovation • Irene Lapunite, La Mandarina de Newton S.L. • Inna Castro, Centre for Social Studies (CIS) • Isabelle Renhoute, Université de Bordeaux • James Horral • Jan Theunis, Environmental Risk and Health • Javier Garcia Tobo, Centro de Supercomputación de Galicia (CESGA) • Jayne Fenton Keane, Inspiring Australia • Jennifer Lynn Sruik, Cornell Lab of Ornithology • Jesus Marco, CSIC • João Arriscado Nunes, Centre for Social Studies (CIS) • Joaquim Pires, Student of the Senior University of Agueda • Joaquín Huerta, Universitat Jaume I • John Bratton • John Irgic • Jonathan Silvertown, The Open University • Juan Hinds, IBM – World Community Grid • Julia Schaefer, MPI for marine microbiology, Bremen • Karl Oberst, EUROGRID • Ker Austin, University College London • Kate Martin, Imperial College London / Open Air Laboratories (OPAL) • Kasia Smith-Laiter, Cambridge Science Centre • Karen Limor Weisberg, University of Cambridge • Karan Hyder, CeRAS • Kirsti Aia Mulka, European Commission • Kishiz Khanal • Kutama J. 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Gay, Southern Illinois University Edwardsville • Patsy Gurland, Universita Ca Foscari Venezia • Paula Felva, José Falcão Secondary School • Paulo A. M. Marques, ISPA-IL and MULINAC • Paulo Gama Mota, Museu da Ciência da Universidade de Coimbra • Pawel Szczesny, Institute of Biochemistry and Biophysics PAS • Pedro Russo, Leiden University • Philip Poronnik, The University of Sydney • Pieter van Boheemen, Waag Society's Open Wetlab • Pilar Peris, Herald de Aragón • Pilar Tixeront, CSIC • Poppy Lakeman Fraser, Imperial College London / Open Air Laboratories (OPAL) • Ramon Sanguesa, La Mandarina de Newton S.L. • Raymond Lewis, Marine Care, Ricketts Point, Inc. • Rémy, Euro-Mediterranean Seismological Centre • Rhonda Smith, Minerva • Ricardo Casares, Ayuntamiento de Zaragoza • Rita Gabriela Monteiro da Rocha, Mundo Científico, Lda. • Rita Serra, Centre for Social Studies (CIS) • Robert Bray • Robert Lovas, MIA/SZ/ARI / International Desktop Grid Federation • Roger Fradera, Imperial College London / Open Air Laboratories (OPAL) • Ronald Smalenburg, Science in Action • Ross Arias • Rossia Vargas, IcoSte – Ciência Viva • Rosina Malagrida, InsCaiex • Rui Brito, University of Coimbra • Sara Oliveira, Senior University of Coimbra • Sarah West, Stockholm Environment Institute • Science Communicator, BMC • Steve Underby, Stockholm Environment Institute • Steven Bamford, University of Nottingham • Steven Bishop, University College London • Stuart Pearson, University of New South Wales, Canberra • Sung, Rai • Susana C Gonçalves, Centre for Functional Ecology, University of Coimbra • Susanne Hecker, Leibniz Centre for Agricultural Landscape Research • Teresa Hooscher, FHT, Zentrum für Soziale Innovation • Teresa Xavier, Agrupamento de Escolas Vila de Tamed, Terry Fox, Chair of People's Parks • Ulf Gärdenfors, Swedish Species Information Centre • Valencio Gomes, Senior University of Coimbra • Vickie Curtis, The Open University • Victor Castela, CSIC • Victor Luosa • Virginia Brusca • Xavier Guerdal Pascual • Yael Kissel, University of Göttingen • Yuri Gorenko, G.V. Kuroyovov National Academy of Sciences •

+200 contributors  
 Complementary approach  
 Issues consolidated with stakeholders

Under revision

Available in [www.socientize.eu](http://www.socientize.eu)

**WHITE PAPER**  
 ON CITIZEN SCIENCE FOR EUROPE



## Macro level (EU-national policy makers)

To overcome domestic barriers with coordinated plans, programmes and investments

→ **targeted programming**

→ **mainstreaming citizen science**

Support measures

Updating educational and researcher programmes, evaluation criteria and curricula

Including citizens in decision-making process

Broadening access to technology

Promoting EU-wide data policy (ownership, ethics, legal requirement, quality)

Recommendation

**Citizen Science Think Tank**

**for promotion, coordination, monitoring, evaluation, collaboration**

## Meso level (professional scaffolding infrastructures, initiatives and institutions)

To identify, coordinate and support.

Crowdmapping.Guidelines. Customized assistance

To build inclusive communities and new interaction channels

Engage general public in decision-making processes

To recognise ongoing outsider research initiative

Alternative funding mechanisms and spaces for bottom-up efforts

Recommendation

**Citizen Science Do Tank**  
**with specific/adaptable/dynamic guidelines**

Shared technologies, hardware, middleware, software, repositories

Engagement strategies and actions, communication, outreach, inreach,

Education and learning materials

Metrics, monitoring, collective and dynamic evaluation

Shared data repositories, quality guidelines, standardization

Funding opportunities



## FOUNDATION

- Universidad de Zaragoza
- CSIC
- CIEMAT
- Red.es
- Fundación Ikerbasque
- Fundación Zaragoza Ciudad del Conocimiento
- Gobierno de Aragón
- Ministerio de Economía y Competitividad



**Universidad  
Zaragoza**



**CSIC**  
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

**Ciemat**  
Centro de Investigaciones  
Energéticas, Medioambientales  
y Tecnológicas



Red  
**IRIS**

**ikerbasque**  
Basque Foundation for Science



**GOBIERNO  
DE ARAGON**



## COLABORATORS



**Aficca**  
La Ciencia en Casa

universidad  
**SANJORGE**  
GRUPO SANVALERO

## PORTUGAL

- Agência para a Sociedade do Conhecimento (UMIC)
- Centro para a Neurociência e Biologia Celular (CNC)
- Laboratório de Instrumentação e Física Experimental de Partículas (LIP)
- Fundação para a Computação Científica Nacional (FCCN)
- Agência Nacional para a Cultura Científica e Tecnológica (Live Science)



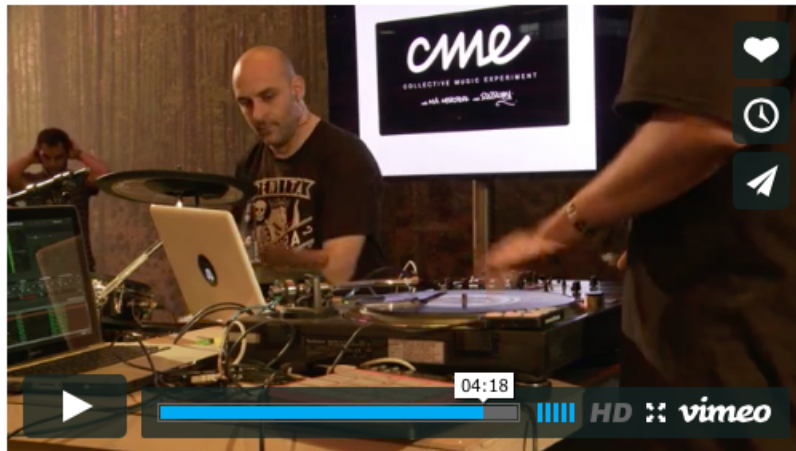
**FCCN**  
Fundação para a Computação Científica Nacional  
Foundation for National Scientific Computing



AGÊNCIA NACIONAL  
PARA A CULTURA  
CIENTÍFICA E TECNOLÓGICA



PARTICIPA,  
SÉ PROTAGONISTA



### EXPERIMENTOS DESTACADOS



SCIENCE IN YOUR  
MOBILE



FOLD IT! CROWDFUNDING



AQUA



COLECTIVA-MENTE



SUN4ALL



HAPPY UP

### IDIOMA

EN ES PT

### CROWDFUNDING



### BUSCAR

### ACTUALIDAD

Proyecto Societize en el periódico "La voz de Galicia"

Resumen Jornadas D+, divulgación innovadora

Experimento Colectivamente en Tercer Milenio

### EVENTOS

Próxima mesa redonda "Ciencia Ciudadana EU BON" en Berlín. 27 de noviembre 2014

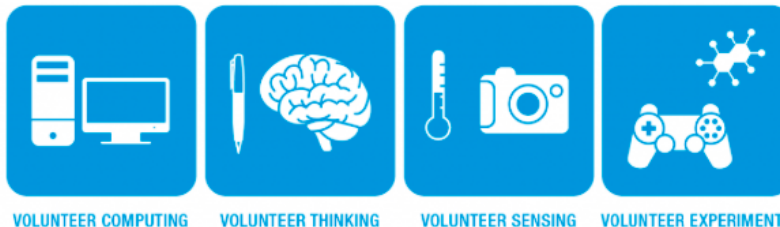
CSIC 75 Aniversario -

COLLABORATE,  
TAKE THE LEADING  
ROLE

We promote, carry out and trust citizen science. We offer different types of CITIZEN SCIENCE, so that the scientific community can entrust their applications with us. Ibercivis supports researchers in different areas whose computational needs and data collection are high.

## HOW TO CONTRIBUTE?

Put your computer to work for science   Doing simple tasks   Gather and provide scientific data   Participating in experiments



## HOW DO THE GROUPS CARRY OUT RESEARCH?

Numerical simulations   Analyzing Data   By outsourcing tasks   Experimental data

## DO YOU WANT TO USE BOINC?

We provide a computer network through which the calculation capacity is assured. We are open to a wide range of migration, each adaptation process may be different.

The porting of the application is carried out in partnership between the research group and Ibercivis staff. A professional team will follow the computations throughout the whole process, with the guarantee to solve any problem that may arise. We have a distributed infrastructure ensuring high availability.

And thanks to the volunteers who participate by connecting their home computer, Ibercivis platform is configured. If you belong to a research group with an application that you think may be carried out in Ibercivis, do not hesitate to contact us at [info@ibercivis.es](mailto:info@ibercivis.es).

 [Questionnaire request new applications](#)

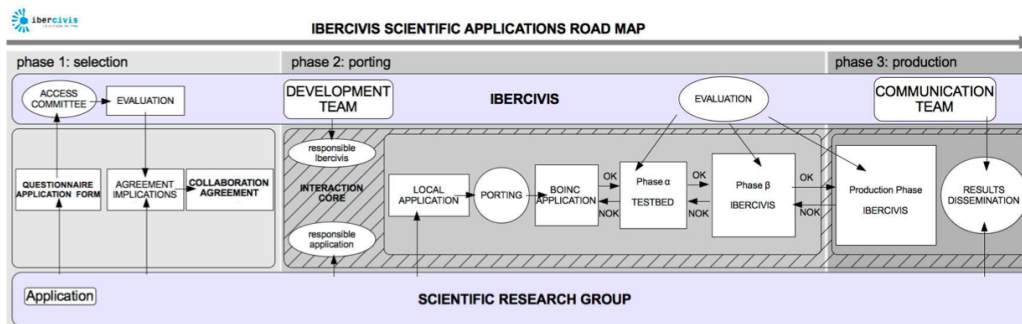
 [Application roadmap](#)

## DO YOU WANT TO CARRY OUT A LARGE-SCALE EXPERIMENT?

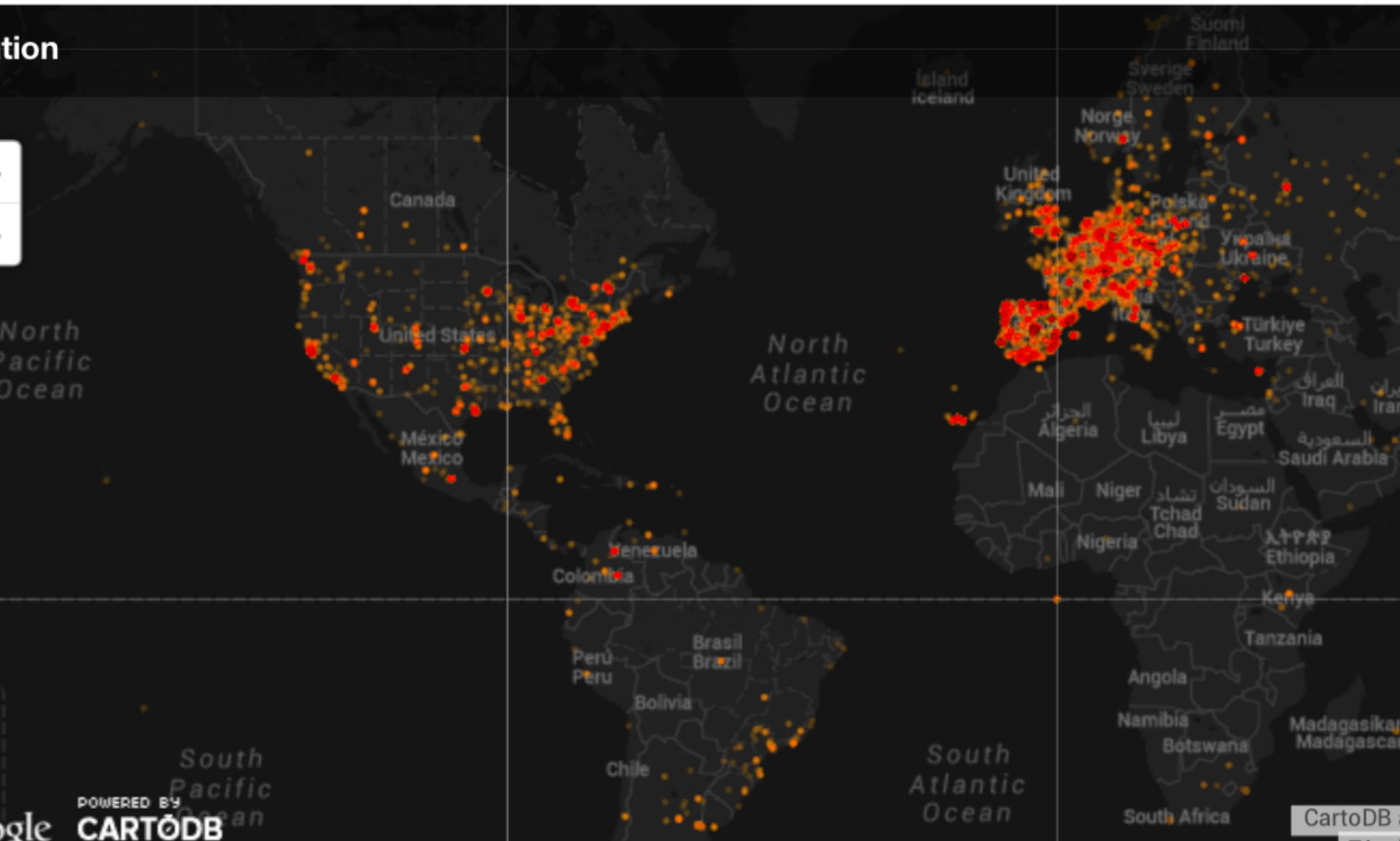
It is now possible thanks to crowdsourcing and [collaboration used as a generator of great ideas](#) and projects. Internet has opened the door to a wide range of applications, services, training resources and platforms that can connect to other users and professionals

## EXPERIMENTS

- ACTIVE
- COMPLETED
- LAUNCH YOUR EXPERIMENT
- PUBLICATIONS
- VOLUNTEERS
- TEACHING
- DISSEMINATION
- ABOUT US
- DONATION



tion





# THANKS

fermin@bifi.es

@ferminserrano

Better society

Empowered citizens

Enhanced research

Citizen Science

Open digital science

Citizen observatories

Responsible research and innovation

Global systems science

Collective awareness platforms

Science 2.0

Digital social platforms

Virtual Research environments

Smart citizens

Reflective societies

Knowledge sharing platform

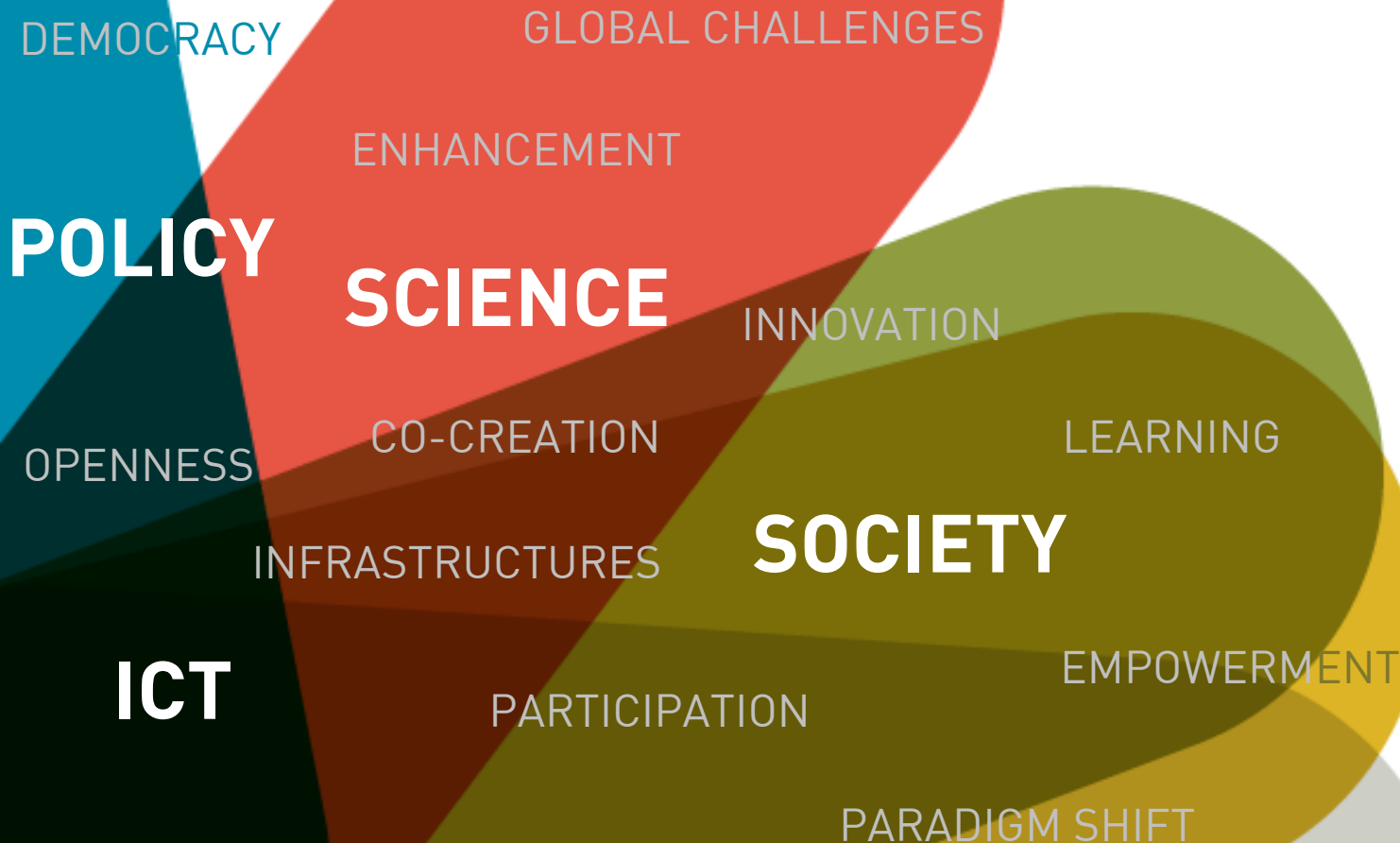
Creative Europe

Crowdfunding

...

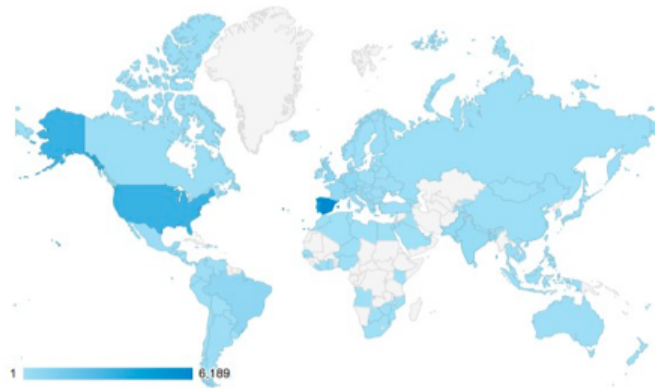
## Citizen Science

general public engagement in scientific research where citizens actively contribute to science either with their intellectual effort or surrounding knowledge, or with their tools or resources.

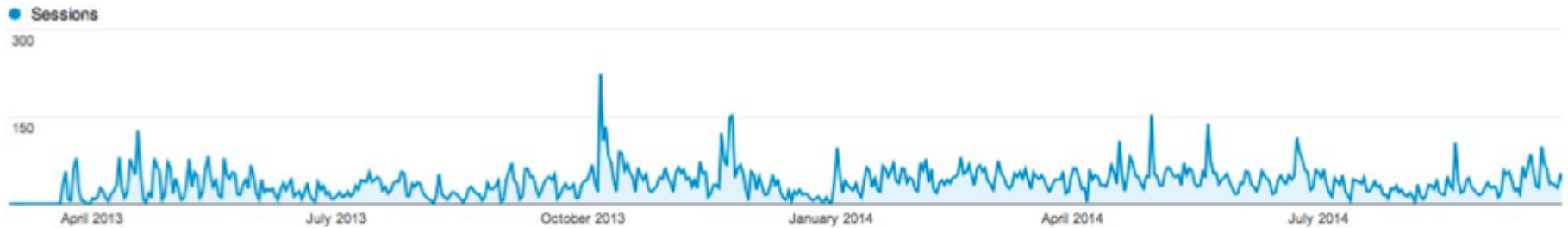


# www.socientize.eu

## Website sessions

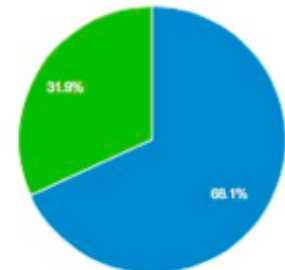


Country / Territory ?	Sessions ?	Pages / Session ?	Avg. Session Duration ?	% New Sessions ?	Bounce Rate ?
	<b>21,250</b> % of Total: 100.00% (21,250)	<b>3.45</b> Site Avg: 3.45 (0.00%)	<b>00:03:52</b> Site Avg: 00:03:52 (0.00%)	<b>68.15%</b> Site Avg: 68.06% (0.13%)	<b>40.97%</b> Site Avg: 40.97% (0.00%)
1.  Spain	<b>6,189</b> (29.12%)	4.56	00:05:27	52.32%	31.49%
2.  Portugal	<b>4,596</b> (21.63%)	3.80	00:04:34	63.62%	37.77%
3.  United States	<b>3,307</b> (15.56%)	2.32	00:01:54	94.89%	35.62%
4.  United Kingdom	<b>624</b> (2.94%)	3.03	00:02:58	70.19%	45.99%
5.  Brazil	<b>584</b> (2.75%)	2.14	00:02:18	73.63%	62.84%
6.  Germany	<b>504</b> (2.37%)	3.02	00:02:59	66.67%	54.17%
7.  Austria	<b>474</b> (2.23%)	3.67	00:05:34	35.02%	34.81%
8.  Belgium	<b>365</b> (1.72%)	3.18	00:03:21	62.47%	38.36%
9.  France	<b>363</b> (1.71%)	2.39	00:01:48	76.31%	64.19%
10.  Italy	<b>307</b> (1.44%)	3.16	00:03:39	81.11%	46.25%



% New Sessions  
68.06%

■ New Visitor ■ Returning Visitor



Language	Sessions	% Sessions
1. en-us	7,892	37.14%
2. es	3,524	16.58%
3. pt-pt	3,223	15.17%
4. es-es	2,142	10.08%
5. pt-br	755	3.55%
6. de-de	503	2.37%
7. en-gb	405	1.91%
8. fr	353	1.66%
9. de	319	1.50%
10. pt	314	1.48%

**Figure 10.** Number of visitors to website <http://www.socientize.eu> between March 1, 2013 and September 30, 2014.