

# EOCS

## Exploring OpenReq on Citizen Science

Hamburg, September 04 - 2019

# About the Ibercivis Foundation



**ibercivis**



**Universidad  
Zaragoza**



Red **IRIS**



**CSIC**  
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

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



GOBIERNO  
DE ESPAÑA

MINISTERIO  
DE CIENCIA, INNOVACIÓN  
Y UNIVERSIDADES

**FECYT**



FUNDACIÓN ESPAÑOLA  
PARA LA CIENCIA  
Y LA TECNOLOGÍA

# About the Ibercivis Foundation

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2006: Desktop Grid  
Computing

2007: Volunteer  
Computing

2008: BOINC  
Umbrella Project

2009: BOINC  
Multiserver

2010: Participatory  
Experiments

2011: Volunteer  
Sensing, virtual  
excursions

2012: National  
institution. Societize

2013: Serious Games,  
Open Policy

2014: Crowdfunding,  
Collective Intelligence

2015: CitSci Labs,  
Socioeconomics,  
S&T&Arts

2016: Cesar Etopia,  
ECSA

2017: National CS  
Plan

2018: Promotion of  
Citizen Science Spain.  
D-NOSES, BRITEC

2019: Eu-citizen.scienc  
e, Local CS  
Observatory

2020: ....







## El proyecto

Jesús y Quilmes

16 de mayo 2018

### Objetivos

1. Elaborar sobre el impacto real de la CC en España
2. Crear el portal MIA CC como espacio colaborativo y como repositorio de prácticas, acciones y recursos de CC
3. Promocionar, impulsar y coordinar la CC en España para introducir a sus ciudadanos en el proceso investigador e innovador



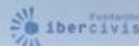




Fundación  
**ibercivis**

Francisco Sanz - Fundación ibercivis

"No estás solo: Ciencia Ciudadana en red"



MEDIALAB  
PRADO

MEDIALAB  
PRADO

MEDIALAB

SALIDA

# About Citizen Science

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## Introduction to Citizen Science

### CITIZEN SCIENCE

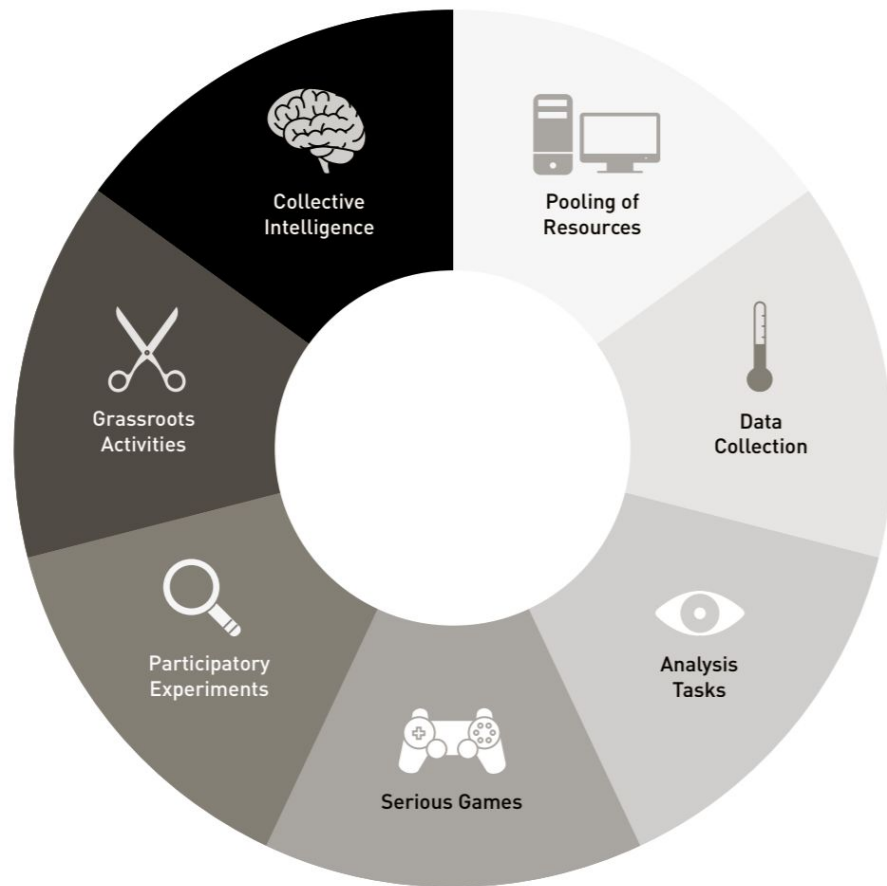
Citizen Science refers to the general public engagement in scientific research activities when citizens actively contribute to science

either with their intellectual effort or surrounding knowledge or with their tools and resources.

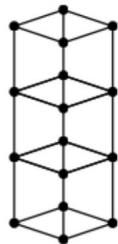
# About Citizen Science

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## MODELS OF CITIZEN ENGAGEMENT IN SCIENCE



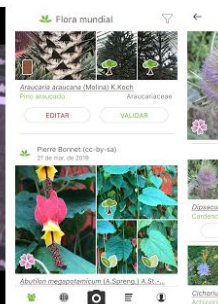
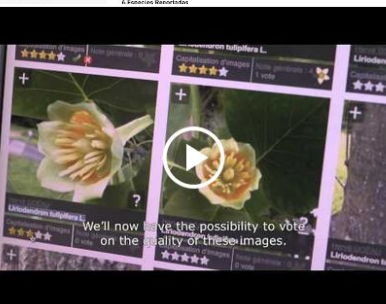
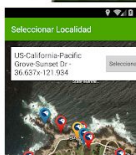
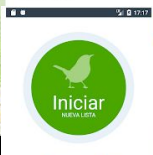
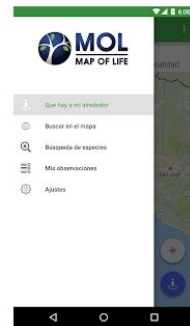
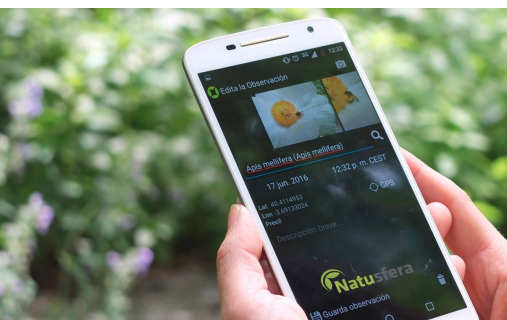




doing **it**  
together  
science



# About Citizen Science



# EOCS

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Create a platform to help to develop citizen science apps

- Collect requirements
- Classify requirements
- Vote requirements
- Prioritize requirements
- Share requirements

# Objectives (I)

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- Collect general requirements on citizen science projects
- Collect requirements related to an specific application on citizen science
- Share requirements between apps and see how general requirements has been solved
- Filter requirements relevant to a product release
- Help reach consensus among stakeholders regarding requirements



# Objectives (II)

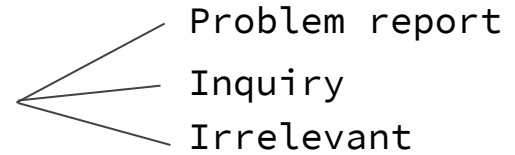
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- Use the platform in at least three citizen science projects
- Promote the platform in order to be used by other citizen science projects while developing and maintaining their applications

# Integrated OpenReq Component(s)

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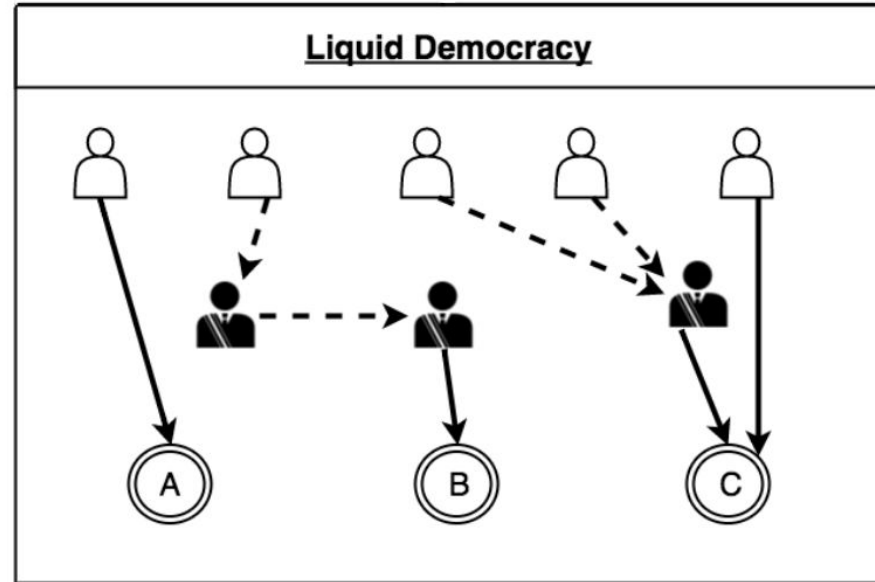
- Feedback twitter -> Collect tweets
- Classificate twitter requirements
- Store twitter requirements
- Orchestration twitter



# Integrated OpenReq Component(s)

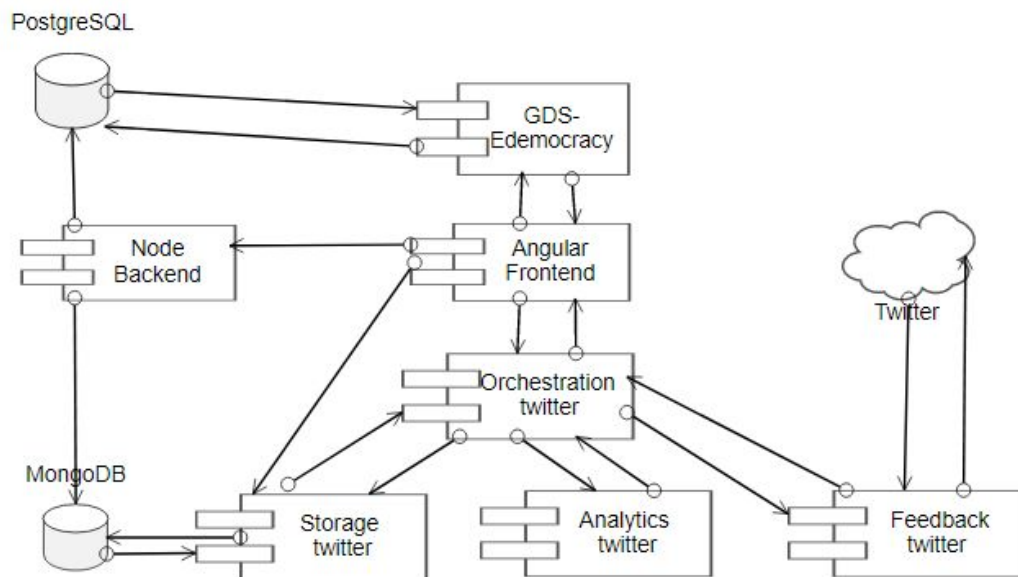
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- GDS-Edemocracy



# Architecture

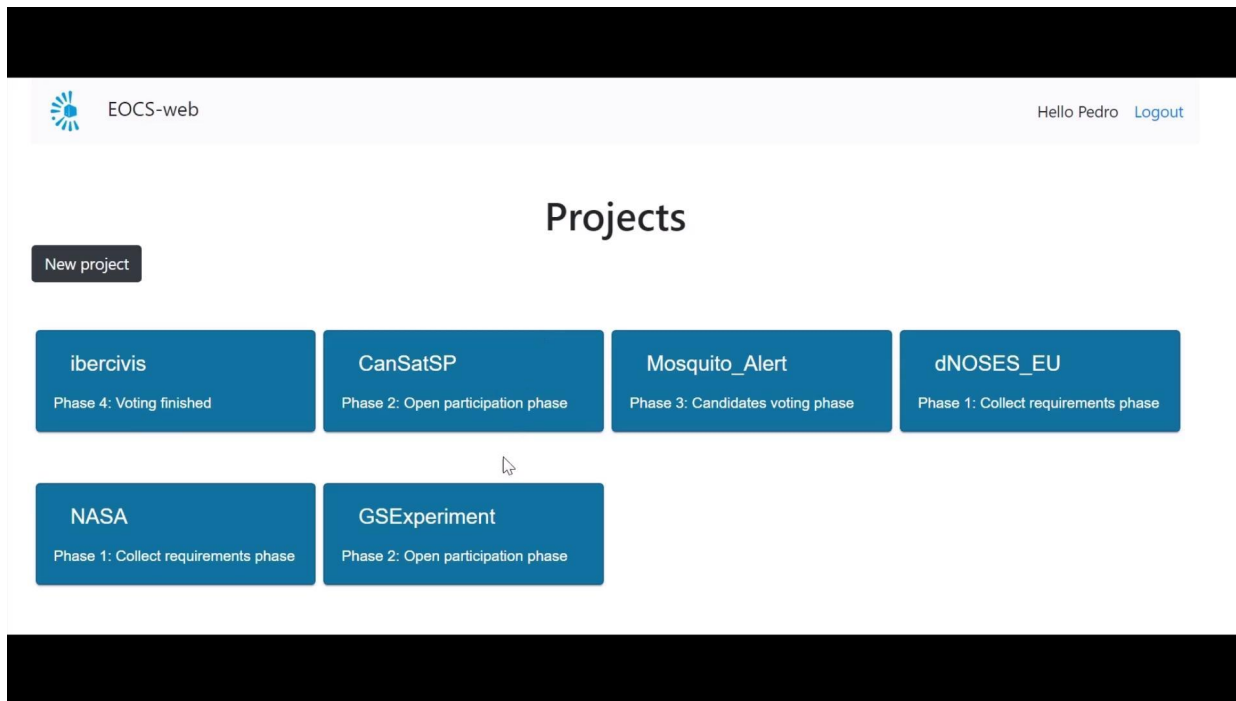
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# Demo

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Open source: [https://github.com/lbercivis/EOCS\\_Multicontainer](https://github.com/lbercivis/EOCS_Multicontainer)

# Results and evaluation

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- The platform has been deployed and is available for use at <http://eocs.ibercivis.es>
- The platform can be easily deployed in other servers
- The EOCS concept can be exportable to other areas beyond citizen science
- Although we did not use all the microservices described in the proposal, the functionality has not been diminished

# Evaluation

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- The first big evaluation of the platform will be performed next 12th September in Vilnius, during the EU-CITIZEN.SCIENCE session.

# Future

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- Maintenance and improvement of the platform
- To be used during the development of the EU-CITIZEN.SCIENCE platform 2019-2022
- To be used inside the D-NOSES project (2018-2021), in the development of the OdourCollect App
- To be presented as an interactive session in the next ECSA conference 2020, Trieste

<https://www.ecsa-conference.eu/>