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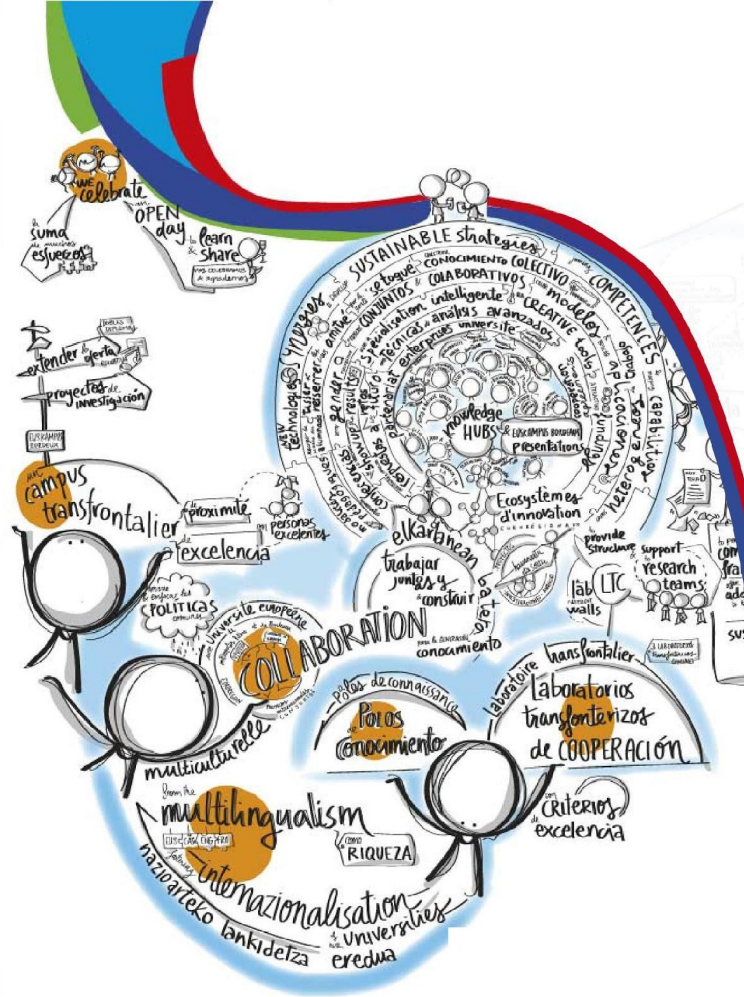
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ORMAZABAL
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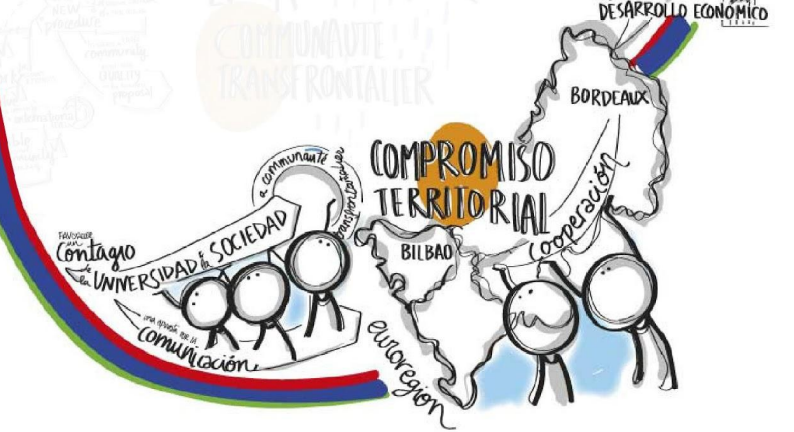
ikerbasque
Basque Foundation for Science



EUSKAMPUS BORDEAUX — EGUNA 2020

30 | 10 Online

TXUPINAZO



Maestras de ceremonia



Itxaso Etxabarria, Euskampus fundazioa



Katixa Peigneguy,
Euskampus fundazioa

10:00 – 10:40 / Mesa - Mahaia - Table ronde Covid 19



Joanne Pagèze, UB
Moderadora



Marie-Line Andreola, UB



Rodoldhe Thiebaud, UB



Sara de la Rica, UPV/EHU



Joseba Laka, Tecnalia

Introducción programa



Olivier Pujolar, UB



Ricardo Diez, DIPC



SARSense
Thomas Schäfer,
UPV/EHU



Covid-AR
Itziar Alkorta,
UPV/EHU



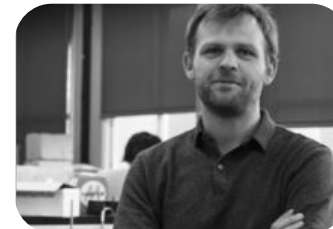
EISCOVID-19
Maité Morteruel,
UPV/EHU



BOTA-ROBOTA
Damien Sallé, Tecnalia



URJES
Pilar Nicolás, UPV/EHU



INFECTON
Marek Grzelczac, DIPC



CORTAR
Marc Landry, UB



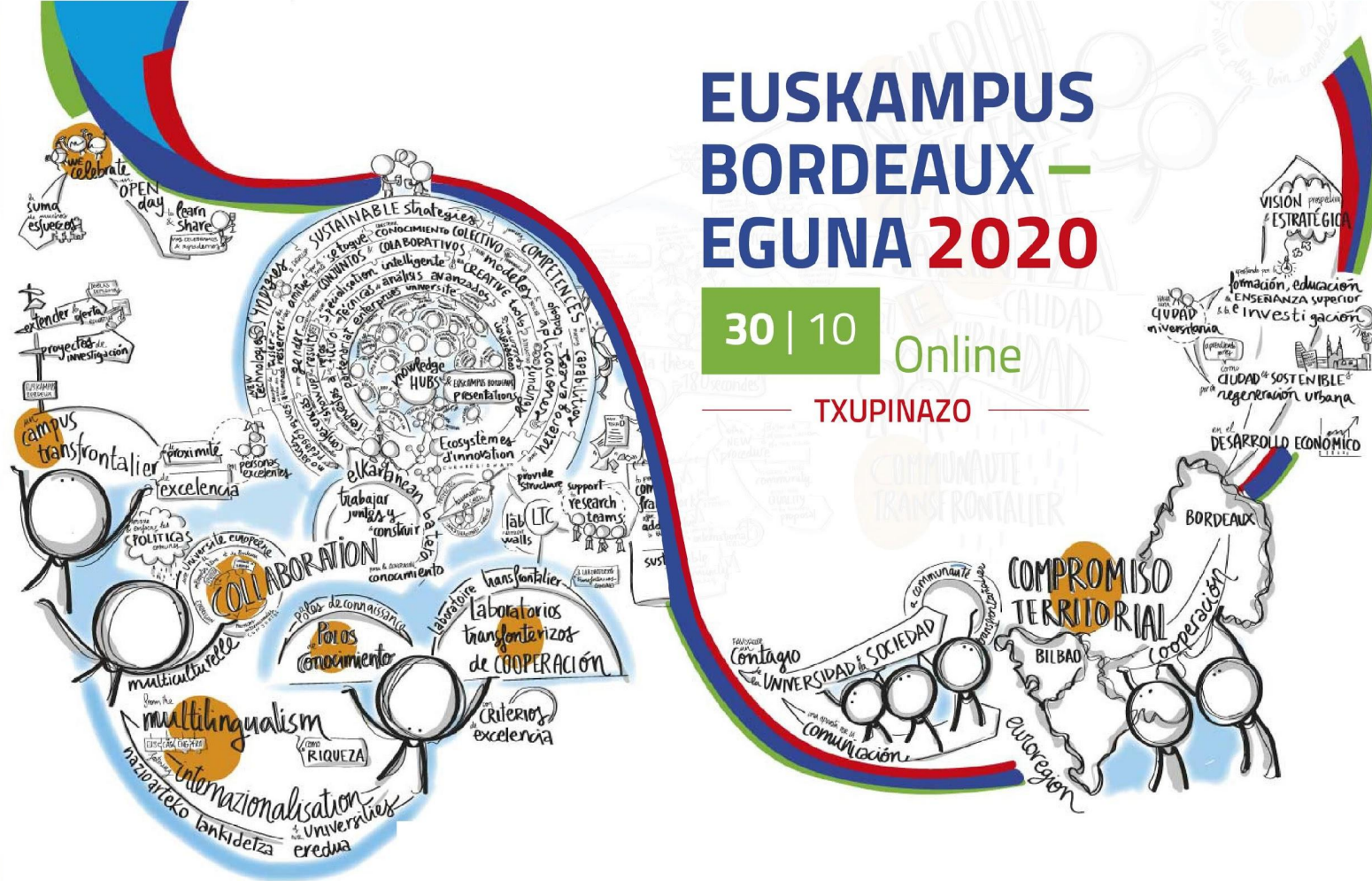
RX-AI-Covid
Arantza Bereciartua,
Tecnalia



ConfVID19
Borja Calvo, UPV/EHU



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Fundamental insights into binding mechanisms for the rational design of sensors for the detection of SARS-CoV-2

SARSense

Thomas Schäfer

The Team - multidisciplinary



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**Carmelo
Di Primo**

Biophysics



POLYMAT eman ta zabal zazu
UPV EHU

**Thomas
Schäfer**
*Chemical
Engineering*



eman ta zabal zazu
UPV EHU

**Fernando
Cossío**
*Organic
Chemistry*



dipc

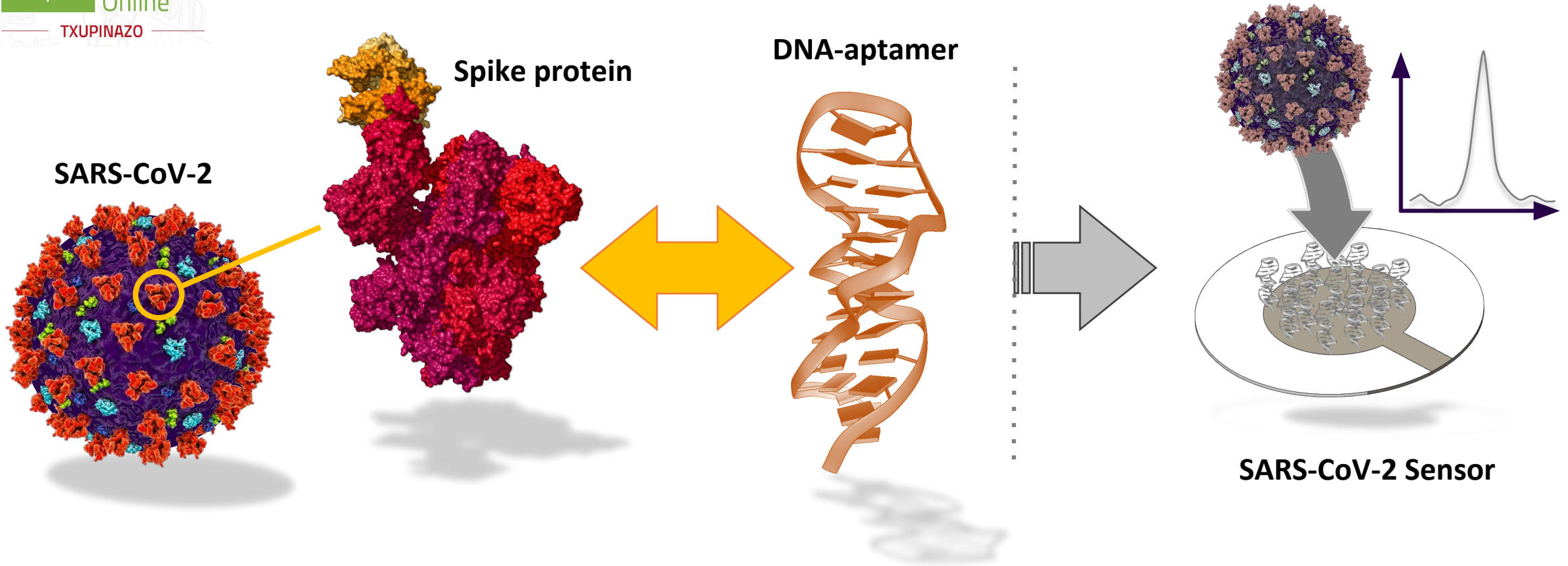
**Juan José
Cadenas**
*Particle
Physics*



dipc

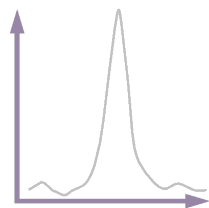
**Iván
Rivilla**
*Organic
Chemistry*

SARSense /Main objective



□ Elucidate binding interactions: spike protein and DNA-aptamer

SARSense/ Impact expected



- **Critical** insight into feasibility of using DNA-aptamers as **specific** receptors for detection of SARS-CoV-2
- Blueprint of a DNA-aptamer based sensor for **reliable** virus detection in general
- Strengthen long-standing interaction in the field between

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and POLYMAT

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Fundamental insights into binding mechanisms for the rational design of Sensors for the detection of SARS-CoV-2

Contact:

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POLYMAT UPV/EHU

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Carmelo Di Primo

University of Bordeaux

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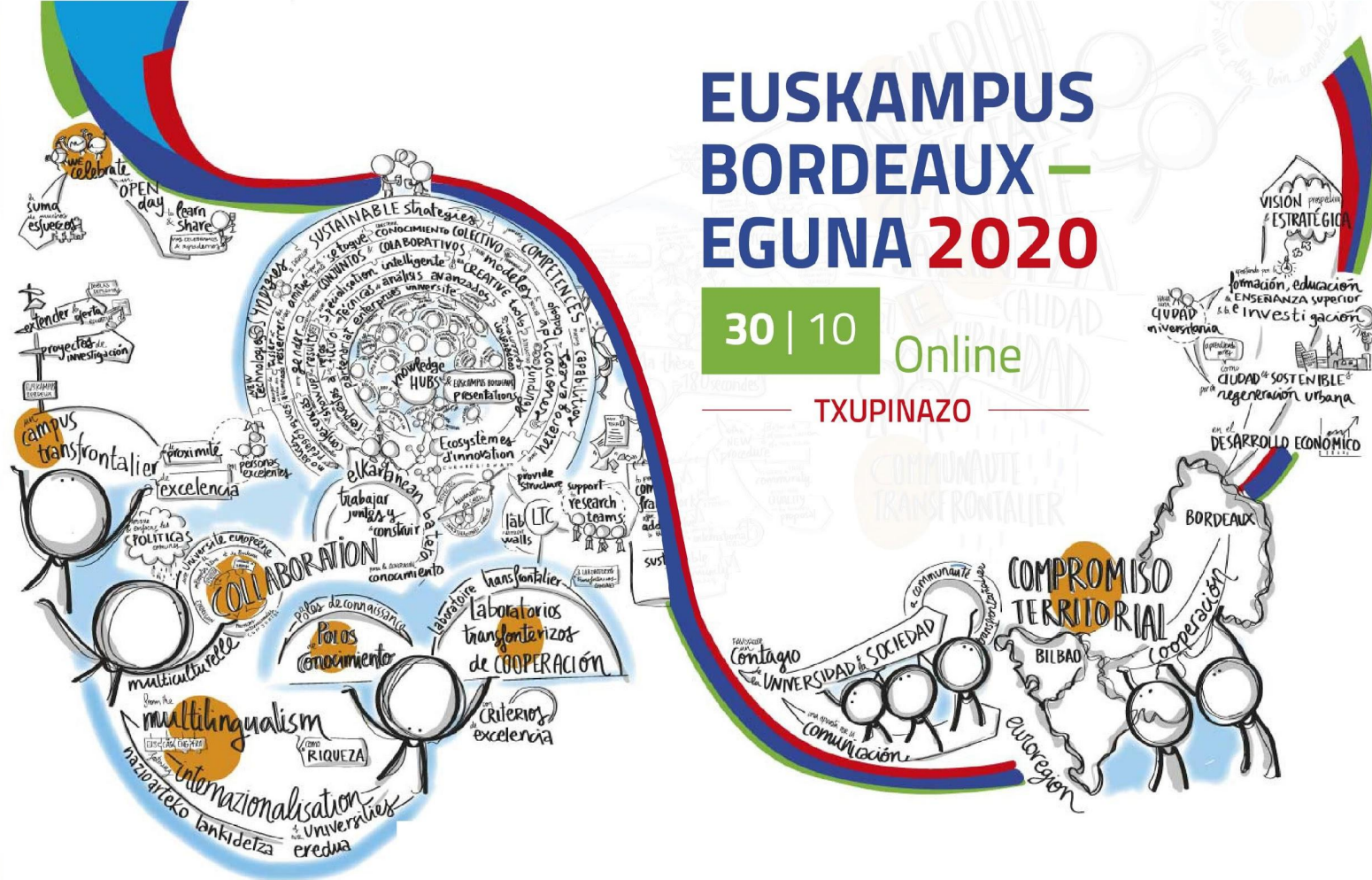
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EXACERBATION OF THE ANTIBIOTIC RESISTANCE HEALTH CRISIS ASSOCIATED WITH THE COVID-19 PANDEMIC

COVID-AR

EXACERBATION OF THE ANTIBIOTIC RESISTANCE HEALTH CRISIS ASSOCIATED WITH THE COVID-19 PANDEMIC

eman ta zabal zazu



Universidad del País Vasco Euskal Herriko Unibertsitatea

**Dr. Itziar Alkorta Calvo, Dr. Néstor Etxebarria,
Dr. Ailette Prieto, Dr. Lucía Gallego**

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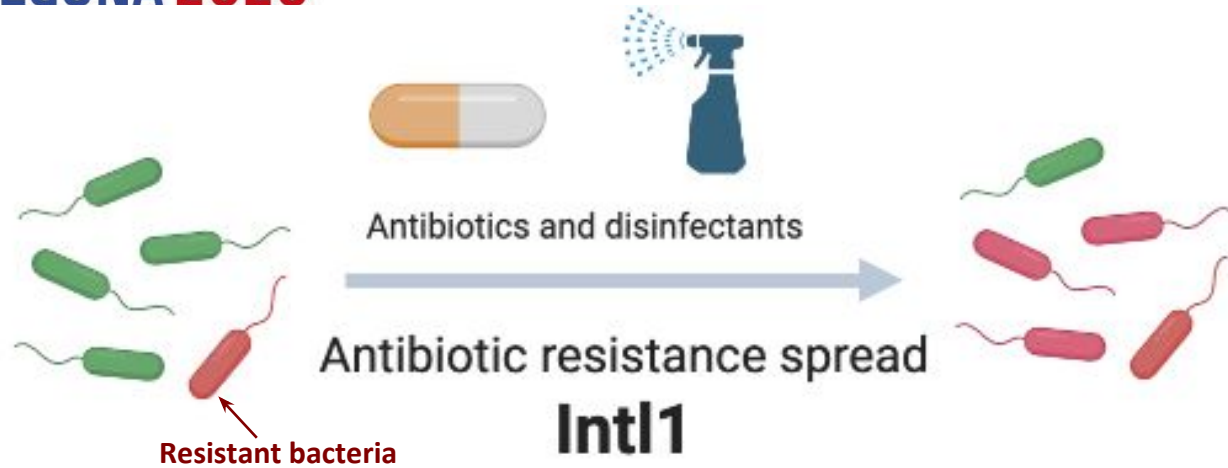
**ENTITIES
INVOLVED**

tecnalia
Corporación Tecnológica

Dr. Marie-Helene Devier, Dr. Hélène Budzinski

Dr. Karmele Herranz-Pascual

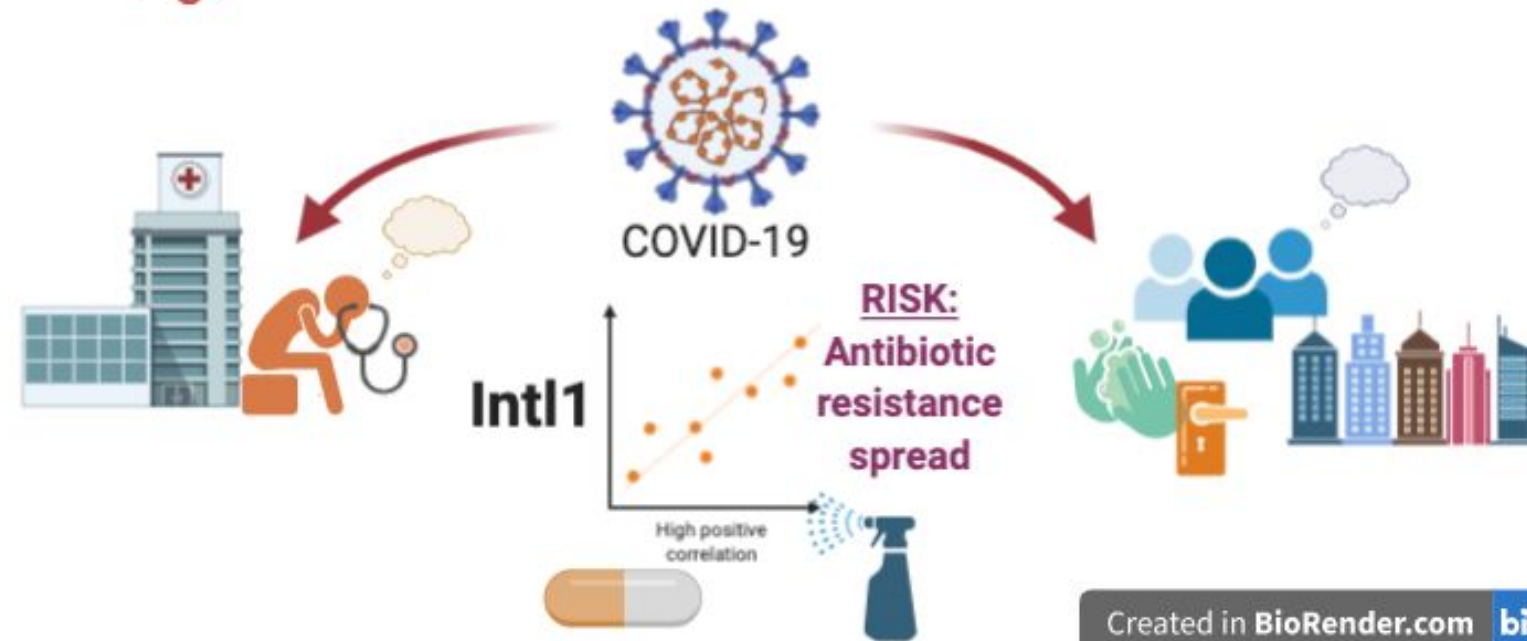
EXACERBATION OF THE ANTIBIOTIC RESISTANCE HEALTH CRISIS ASSOCIATED WITH THE COVID-19 PANDEMIC



Objectives

1. Class 1 integrons (Int1) as indicators of antibiotic and disinfectant contamination and antibiotic resistance spread risk.

2. Incidence of behaviour changes caused by COVID-19 in this problem.



Created in BioRender.com

EXACERBATION OF THE ANTIBIOTIC RESISTANCE HEALTH CRISIS ASSOCIATED WITH THE COVID-19 PANDEMIC

Impact

1. Direct impact on **human and environmental health** by decision making on antibiotic use.



2. Possibility to assess **antibiotic contamination and antibiotic resistance spread RISK** with a simple, rapid and inexpensive measure **Class 1 integrons (Int1)**.



3. Contribution to a **more rational use of antibiotics and disinfectants** taking into account their potential risks and the (psycho)social determinants of their use.



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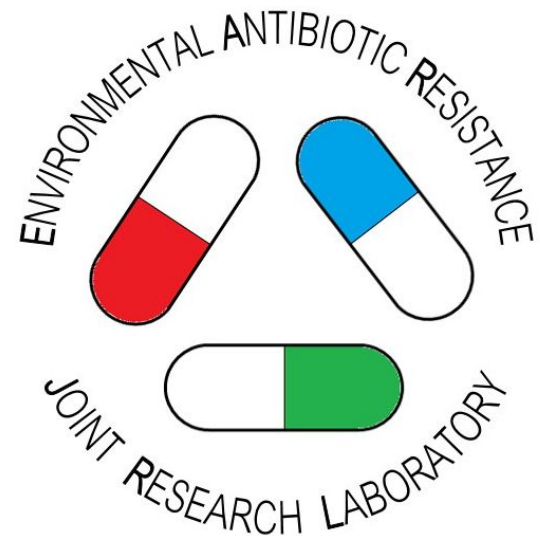
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Project

**EXACERBATION OF THE
ANTIBIOTIC RESISTANCE
HEALTH CRISIS
ASSOCIATED WITH THE
COVID-19 PANDEMIC**



<http://www.jrl-environmental-antibiotic-resistance.eus/>

Thank you!
Merci!
Eskerrik asko!
¡Gracias!

Contact:

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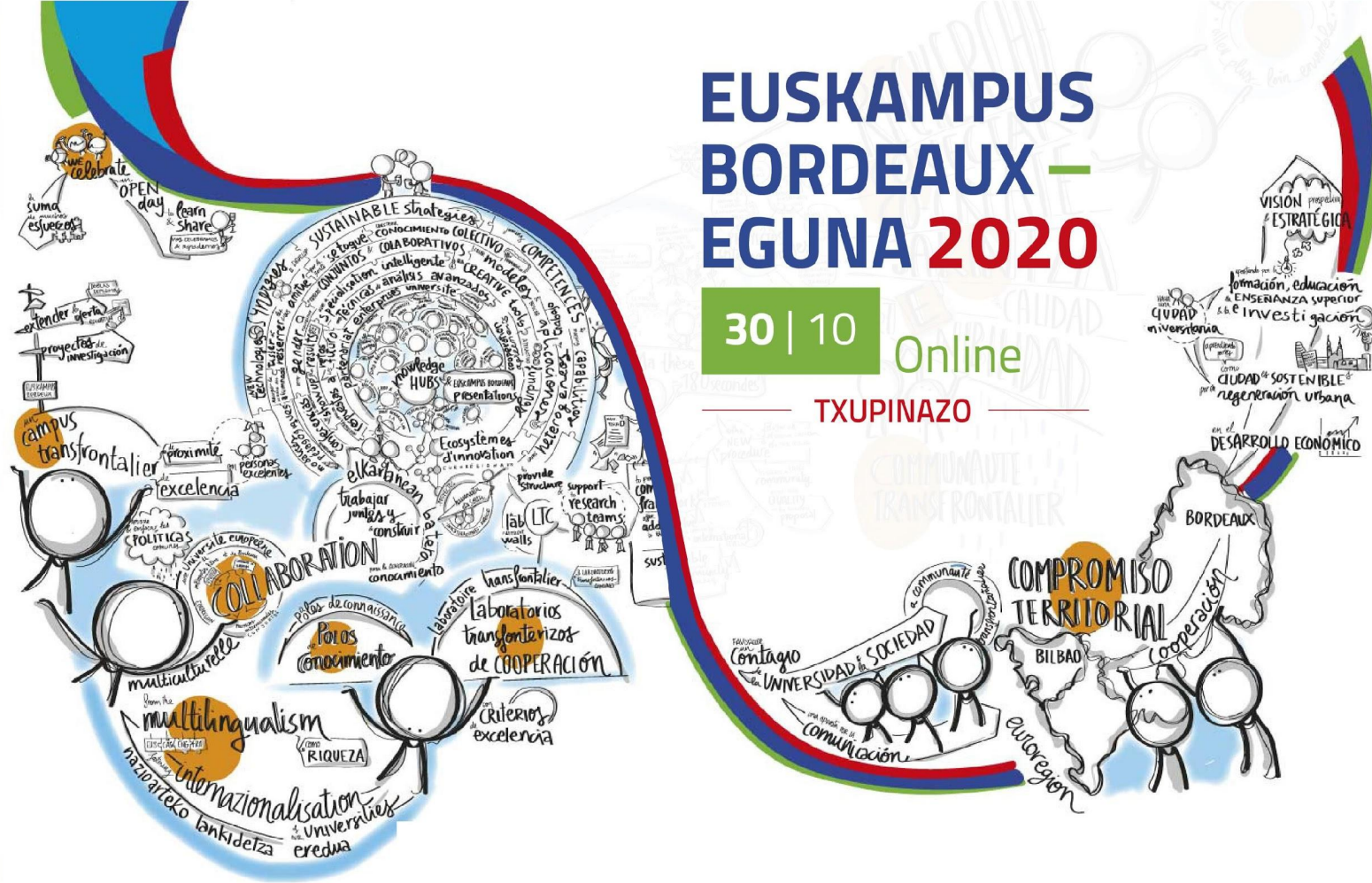
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EISCOVD-19.
**Health impact assessment of COVID-19
management and control measures in the
Basque Country and New Aquitaine**

EISCOVID-19 / Entities involved

University of the Basque Country (UPV/EHU)



University of Bourdeaux



EISCOVID-19 / Main objectives

General objective

To carry out a **health impact assessment** with an **equity focus** of the **lockdown, de-escalation and “new normality”** measures delivered to contain the expansion of the COVID-19 in the **Basque Country** and the **New Aquitaine** regions

Specific objectives

1. To identify and characterize the **impacts (+ or -)** of these measures on the health of the population and on the social determinants of health in the two regions
2. To identify and characterize the **distribution of these impacts** within the population
3. To develop **recommendations** aimed at **maximizing the positive impacts and minimizing the negative ones** of future decision making related to the Covid-19 crisis in both regions

EISCOVID-19 / Results and impact expected

- ❑ The measures adopted to respond to the Covid crisis have had a **major impact on the health and the quality of life of populations**
- ❑ The negative impacts have mainly concentrated on **women** and on **socio-economically disadvantaged groups** (precarious employment & housing, low income, social discrimination and exclusion...), **increasing prevailing health inequalities**
- ❑ A **better knowledge of the health effects of these measures and their unequal distribution** within the population could guide future decisions as the pandemic evolves and in foreseeable scenarios of new emerging epidemics
- ❑ Resulting recommendations will be aimed at **incorporating the social determinants of health model** in the design and implementation of these new measures and this, **with a particular emphasis on disadvantaged groups**



Zaindu

Take care (of one another)

Prendre soin (les uns des autres)

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**EISCOVID-19. Health
impact assessment of
COVID-19 management
and control measures in
the Basque Country and
New Aquitaine**

Contact:

maite.morteruel@ehu.eus



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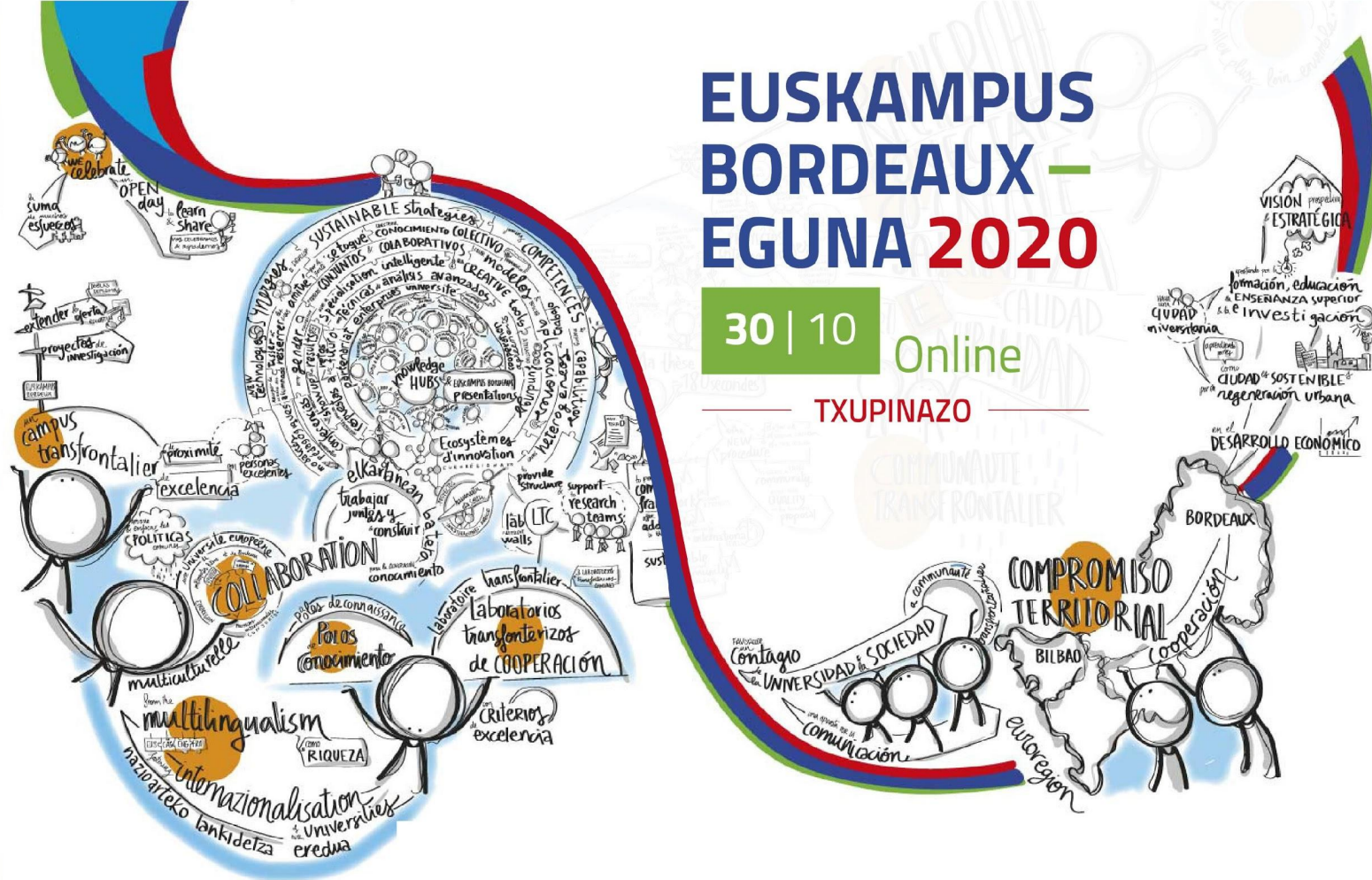
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EUROREGIONAL INSTITUTIONAL PARTNERSHIP



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Disinfection robot with door-opening capabilities

BOTA-ROBOTA

TECNALIA: Damien SALLÉ

UPV/EHU: Basilio SIERRA

BOTA-ROBOTA / Entities involved

TECNALIA



The University of the Basque Country (UPV/EHU)



I. ROBOT AUTONOMY AS A KEY TO FLEXIBILITY

- Mobile manipulators, Indoor and outdoor Autonomous Navigation
- Collaborative robotics and Workspace monitoring
- 3D Vision parts detection and localization for robot guiding
- Impedance, Adaptance and force control of robots
- Skills based programming: re-use, easy programming and Plug&Produce
- Automatic path planning
- Dual-arm manipulation
- Learning and IA for robotics

II. ROBOTS FOR INDUSTRIAL PROCESSES

- Complex end-effectors and robotic cells for advanced automation
- Aeronautics processes: drilling, fastening, composite layup, composite 3D preforms
- Metallic 3D printing with robots
- Cable-based robots and High Speed Pick'n'Place PKM

III. ROBOTS AS A PRODUCT FOR THE INDUSTRY

- In TECNALIA, we imagine, design, prototype and patent new architectures of robots that we can later on transfer under license to robot manufacturers.

I. Robotics And Autonomous Systems

- Intelligent Robotics
- Social Robotics
- Machine Learning
- Computer Vision
- Data Analysis
- Deep Learning
- Autonomous Systems
- Natural Language Processing

BOTA-ROBOTA /Main objectives

Allow Covid-fighter robots to open doors and thus facilitate their deployment in non-prepared buildings

- Covid is also transmitted by contact on contaminated surfaces.
- To disinfect buildings like offices, factories, hospitals etc, robot manufacturers have proposed various products to deploy UV light or chemical sprays.
- However these robots are based on industrial AGVs that require the buildings to also be automated: motorized doors, communication devices for the elevators etc...
- So the Covid-fighters robots cannot yet be deployed in “any” building without humans open the doors...
- BOTA-ROBOTA aims at demonstrating that adding a robot arm on those robots could help them detect and open doors, freeing them from the human operators



BOTA-ROBOTA / Impact expected

Allow covid-fighter robots to achieve their best efficiency

Covid-fighters robots are tools to achieve a massive deployment of surfaces disinfection. They are complements to human personnel: they allow to remove humans from dangerous operations (UV-C, chemicals...).

They also propose a cost-efficient massive deployment of the disinfection: they increase the frequency and efficiency of the treatment.

But today, **they need humans to open and close doors for them**, or take them in the elevator to change level...

Bota-Robota thus aims at unleashing their potential.

The technology demonstrated in the Project should later be transferred to the robot manufacturers in order to reach this impact.

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BOTA-ROBOTA

Dr. Damien SALLÉ

TECNALIA

Coordinator of Robotics, Automation and
Mechatronics control

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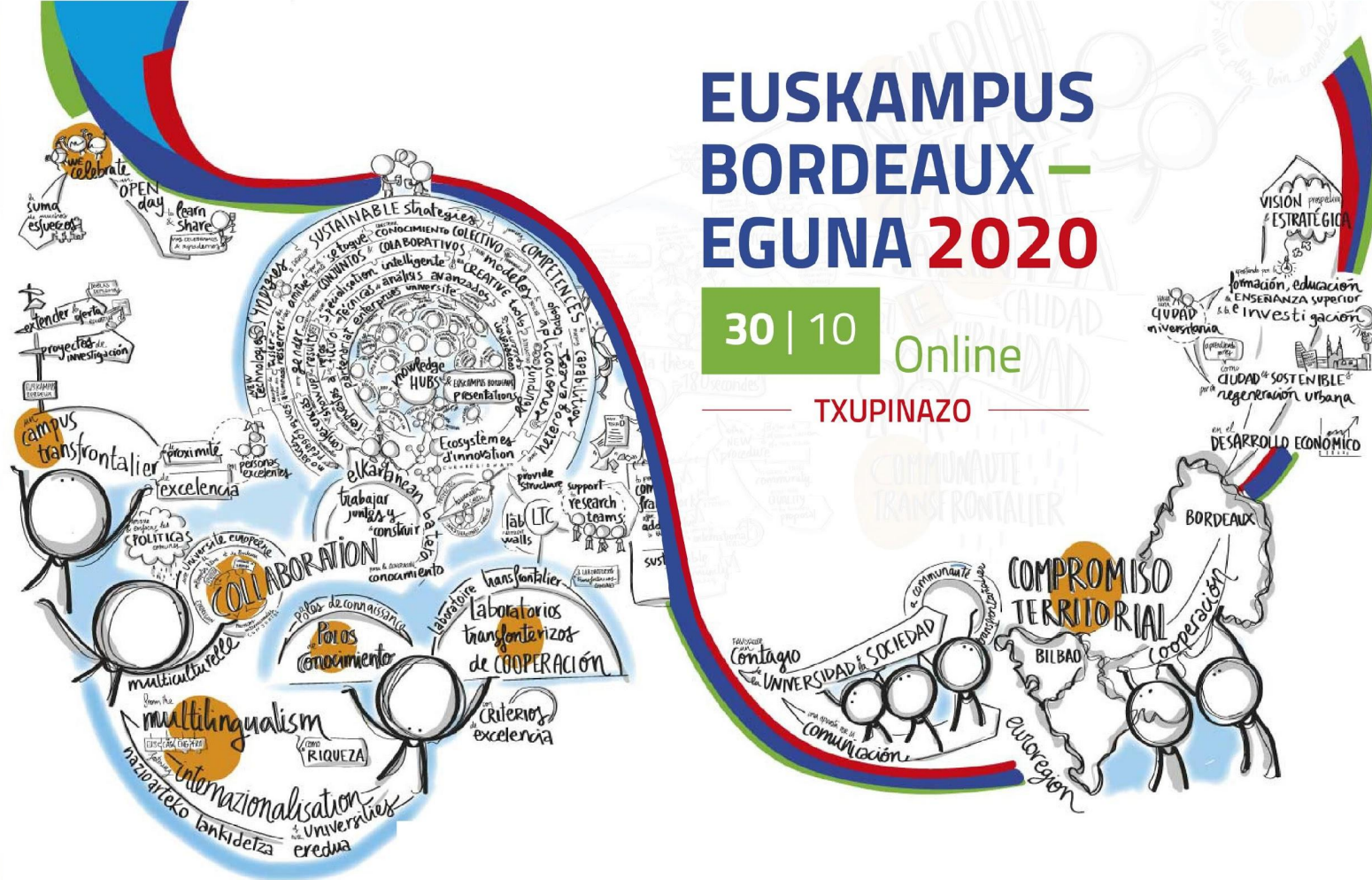
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Nafarroako Gobernua
Gobierno de Navarra



URJES

UNA RESPUESTA JURÍDICA Y ÉTICA PARA CRISIS DE SALUD PÚBLICA (A LEGAL AND ETHICAL RESPONSE TO PUBLIC HEALTH CRISIS)

URJES/Institutions involved



Faculty of Law



Itziar Alkorta (private law,
biomedical law)



Iñigo de Miguel (public law,
biomedical law)



Pilar Nicolás (public law,
biomedical law)

Faculty of Law



Marie Lamarche (private law,
biomedical law)

URJES/Main objectives

Contribute to improve the response to health emergency

- Constitution of an international and interdisciplinary network of experts
- Identification and discussion concerning:
 - Use of personal data
 - Geolocation and Artificial Intelligence.
 - Triage, vaccination and immune passports
 - The role of the EU as a response platform to this kind of crisis.

URJES/Impact expected

- Permanent expert debate forums as a reference for the legal and ethical issues of health emergency
- Development of consensus proposals
- Dissemination of results (reports, monograph, web)

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— TXUPINAZO —

URJES Project

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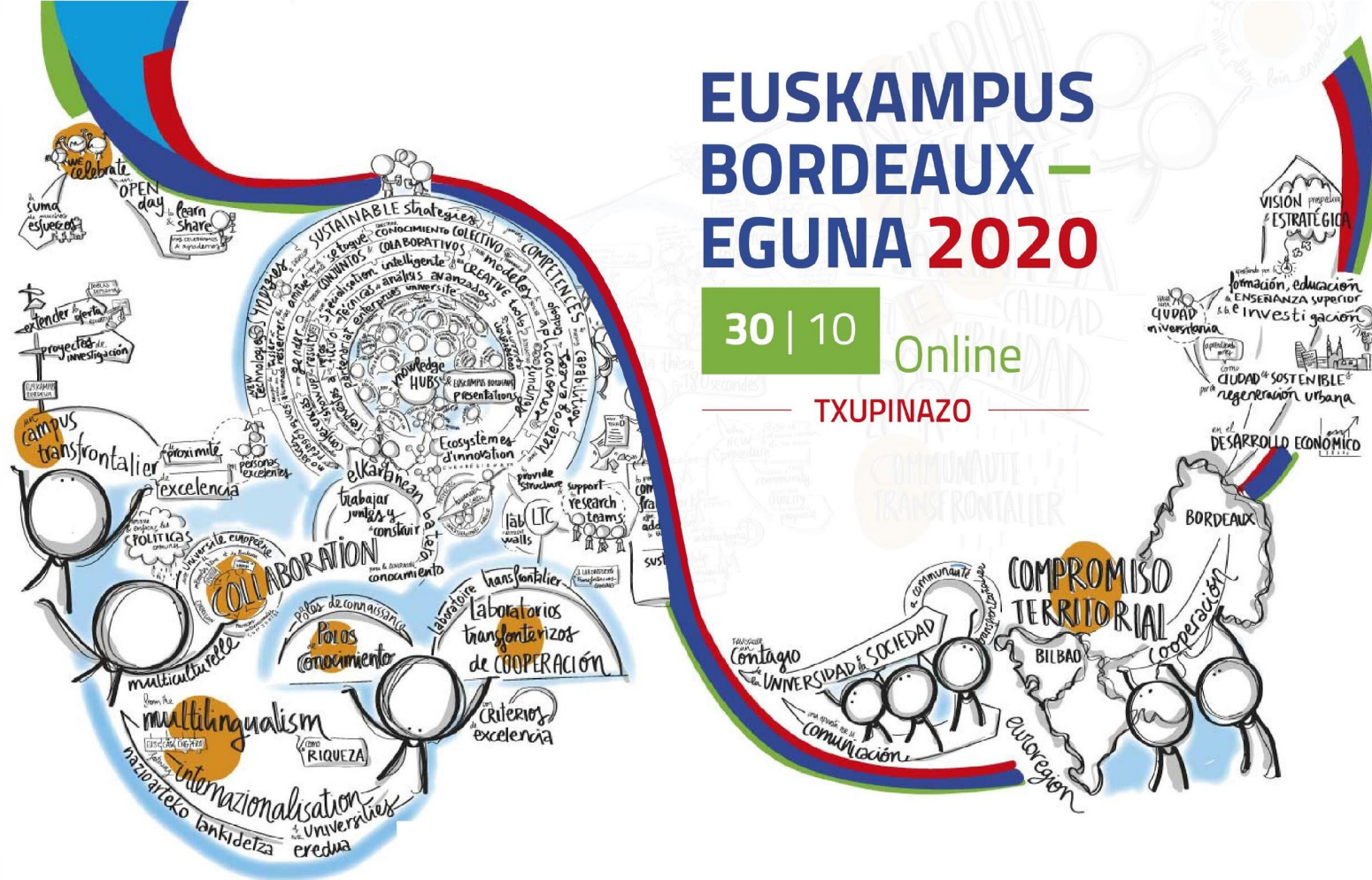
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INFECTON

Towards universal biomarkers for INFECTious diseases by plasmON-mediated colloidal sensors aided by computer vision and machine learning

INFECTON / Entities involved

Nanochemistry



Marek
Grzelczak (PI)
DIPC

Plasmonics



Javier
Aizpurua
DIPC

Computational Chemistry



David
De Sancho
UPV/EHU

Machine learning



Ignacio
Arganda
UPV/EHU

Robotics



Elena
Lazkano
UPV/EHU

Robotics



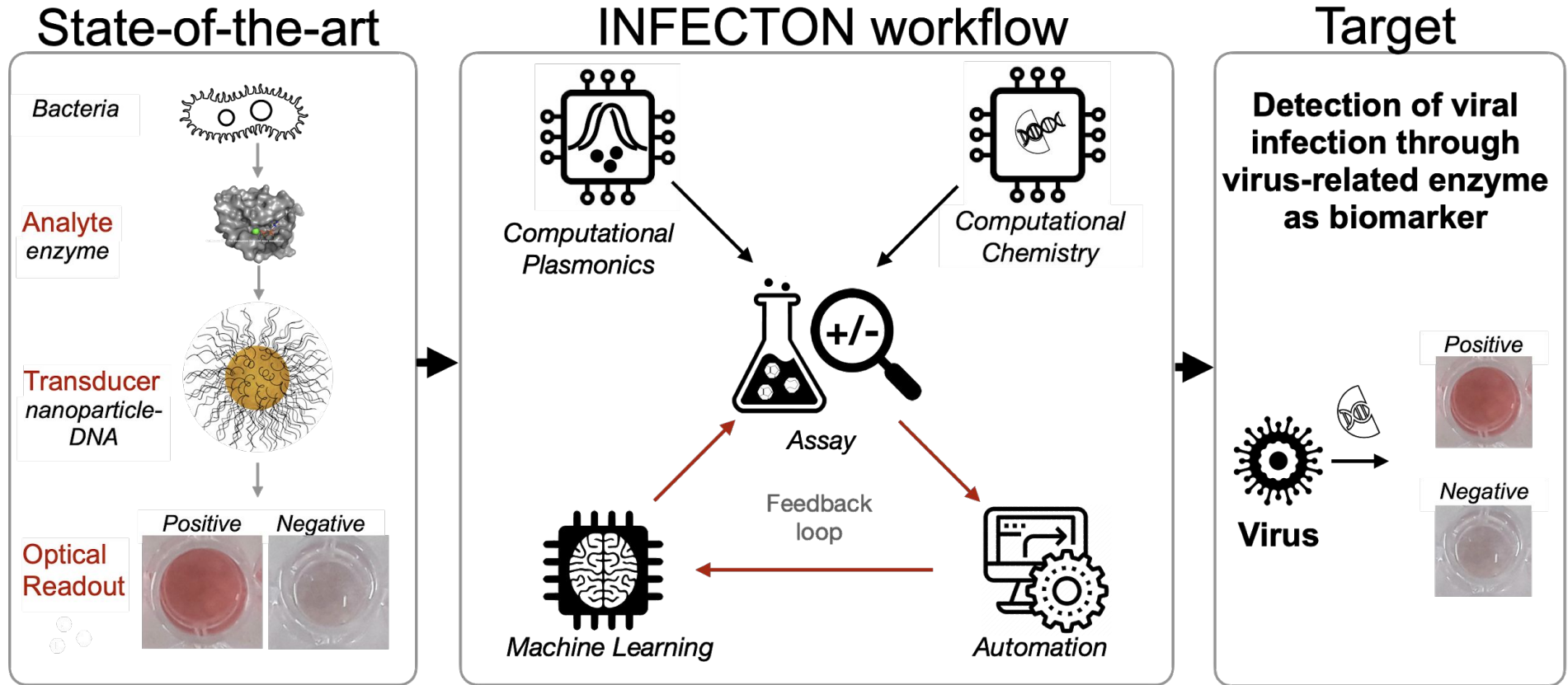
Basilio
Sierra
UPV/EHU

INFECTON / Hypothesis and Objectives

Hypothesis:
bacterial
infections-related
biomarkers -enzymes -
can be exploited for the
detection of viral
infection in COVID-19.

Objectives:

- Set an interdisciplinary workflow (computational chemistry and plasmonics, nanochemistry, robotics and machine learning);
- Demonstrate colourimetric detection of coronavirus-related enzyme using optimised assay.



INFECTON / Impact expected

- Automation and machine learning **accelerate the sensor optimisation** (from 6 months to 2 weeks);
- **New detection means for (corona)virus** that is orthogonal to the existing tests available in the market.
- An optimised **detection kit** ready for exploitation **in real-world conditions** (human samples).
- A colourimetric assay for bacterial and viral infections for **sectors related to health system, food safety, agrotechnology.**

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Towards universal biomarkers for
INFECTious diseases by
plasmON-mediated colloidal sensors
aided by computer vision and machine
learning

Marek Grzelczak

marek.grzelczak@dipc.org

[#MarekGrzelczak](https://twitter.com/MarekGrzelczak)

<https://colsyschem.github.io>



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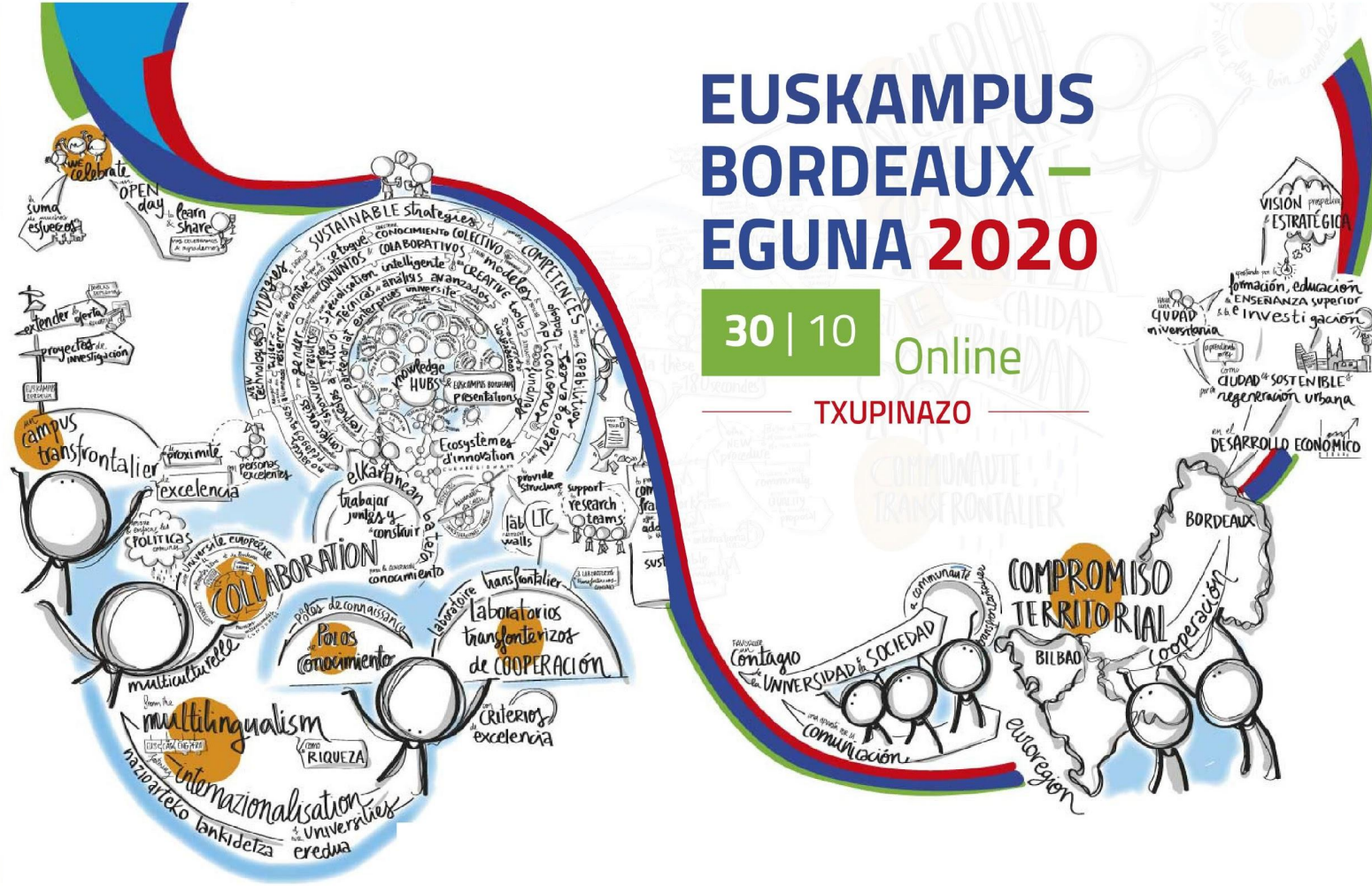
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EUROREGIONAL INSTITUTE FOR RESEARCH & INNOVATION
UNIVERSITY OF NAVARRA



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CORTAR
(CORONAVIRUS RECEPTOR TARGETING)

**SARS-CoV2 RECEPTOR TARGETING FOR THE
TREATMENT OF COVID 19 PATIENTS”**

CORTAR: Entities involved



- **Marc Landry**



- **Rafael Rodriguez-Puertas**
- **Ivan Manuel Vicente**
- **Marta Moreno Rodriguez**



Universidad del País Vasco Euskal Herriko Unibertsitatea
Departamento de Farmacología



- **Marie-Line Andreola**
- **Harald Wodrich**



- **Thomas Trian**



Centre de recherche cardio-thoracique de Bordeaux
INSERM U 1045
Université de Bordeaux




CORTAR: Main objectives

COMMENTARY

JOURNAL OF
MEDICAL VIROLOGY WILEY

ACE2 activators for the treatment of COVID 19 patients

Rafael Rodríguez-Puertas PhD 

Department of Pharmacology, Faculty of Medicine and Nursing, University of the Basque Country UPV/EHU, Leioa, Spain

Hypothesis

ACE2 activators, e.g. the antiparasitic diminazene aceturate (DIZE), compete with S-protein for ACE2 occupancy

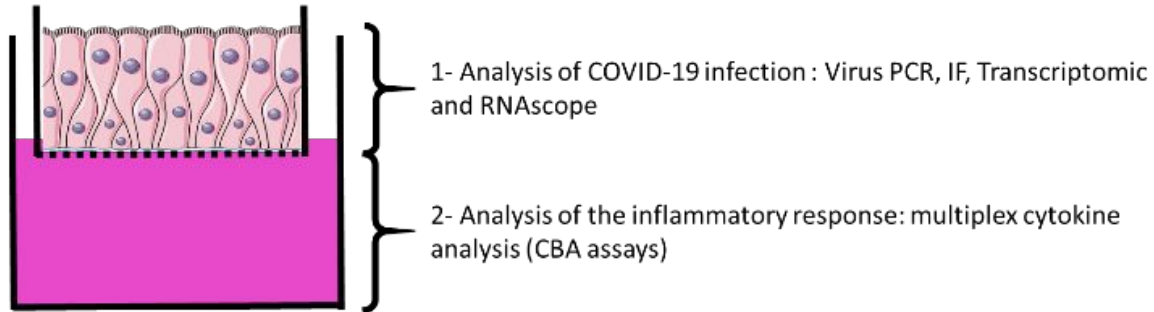
Main goal

Prevent SARS-CoV2 infection and maintain ACE2 crucial functions

“small is powerful” research area of the Euskampus Covid-19 resilience programme

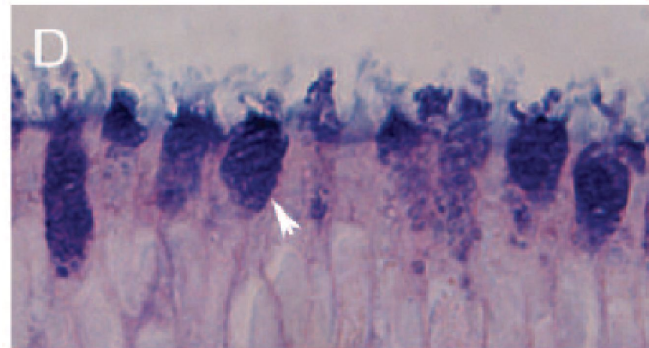
CORTAR: Methods

WP1: Identifying ACE2 binding sites for SARS-CoV2 and DIZE

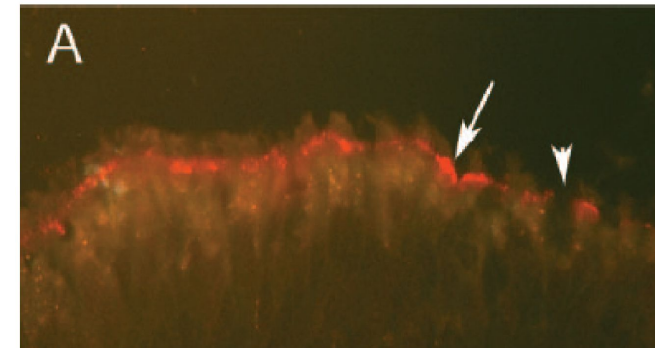


Human respiratory epithelium in culture
Infected with SARS-CoV2 and treated with ACE2 radioligand and/or DIZE

Binding experiments
ACE2 radioligand binding inhibition with DIZE



ACE2 receptor



WP2: Determining the ACE2 ultrastructural localization and intracellular trafficking

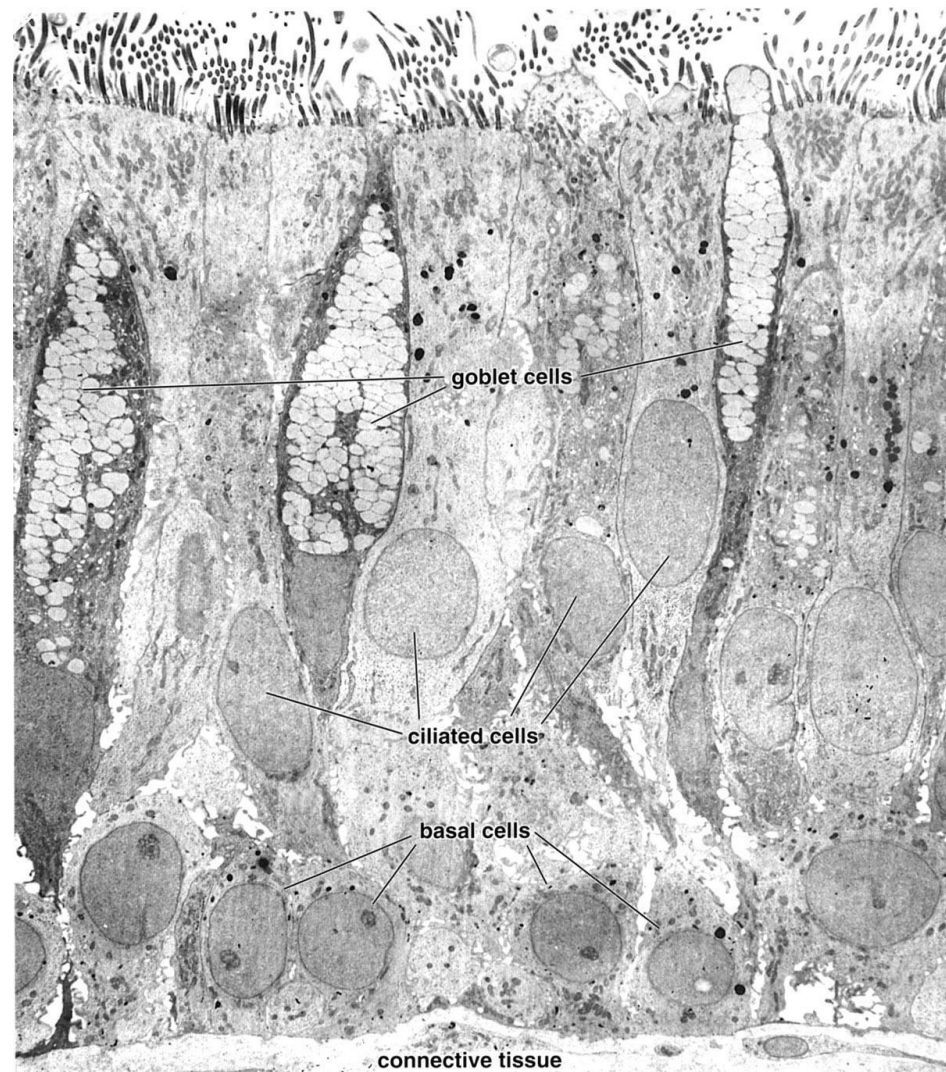
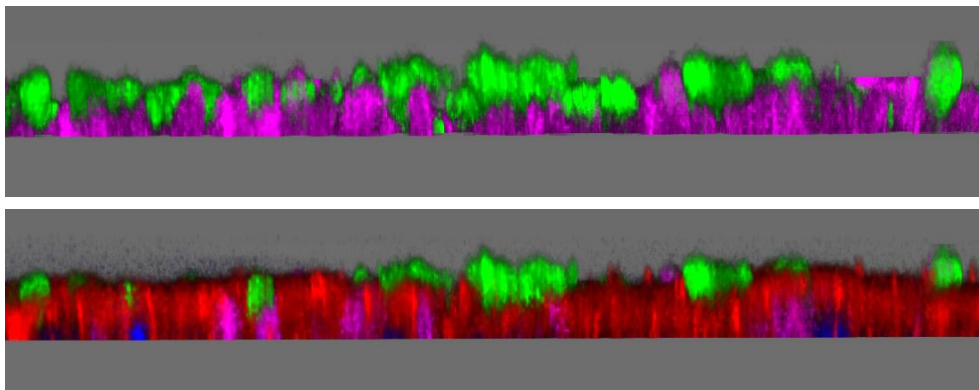
Light microscopy studies

Cell types expressing ACE2 and SARS-CoV2

Electron microscopy studies

ACE2 trafficking and SARS-CoV2 spread upon DIZE application

SARS-CoV2 Basal cells Epithelial cells

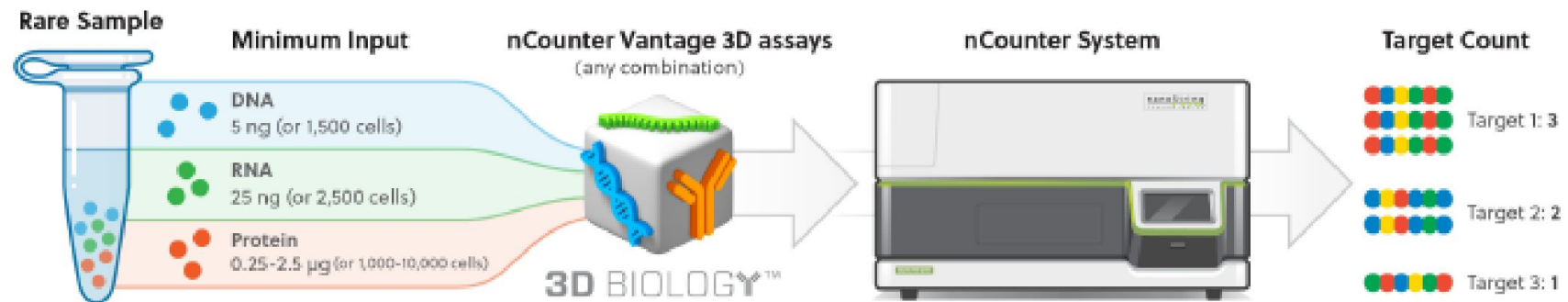


CORTAR: Methods

WP3: Characterizing the immune response against SARS-CoV-2 upon infection of bronchial epithelial cells

Transcriptomics analysis

Detection of cytokines and pro-inflammatory molecules
Changes in the immune response upon DIZE application



CORTAR: Impact expected

Transregional center of expertise

Virology platform (ANR-funded ANACONDA)

Proof of concept

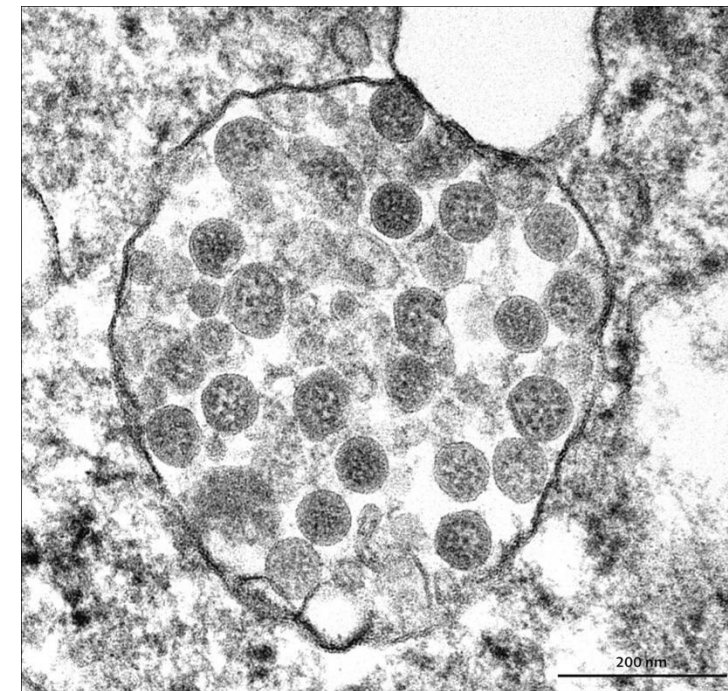
Reducing SARS-CoV2 infection without impairing ACE2 activity

Therapeutic strategy

Drug repositioning (DIZE)

Drug discovery

Drug screening (Tecnalia - Euskampus)



Electron microscopy of SARS-CoV-2: a challenging task

Cynthia S Goldsmith, Sara E Miller, Roosecelis B Martines, Hannah A Bullock, Sherif R Zaki
www.thelancet.com Vol 395 May 30, 2020

CORTAR: Impact expected

Transregional center of expertise

Virology platform (ANR-funded ANACONDA)

Proof of concept

Reducing SARS-CoV2 infection without impairing ACE2 activity

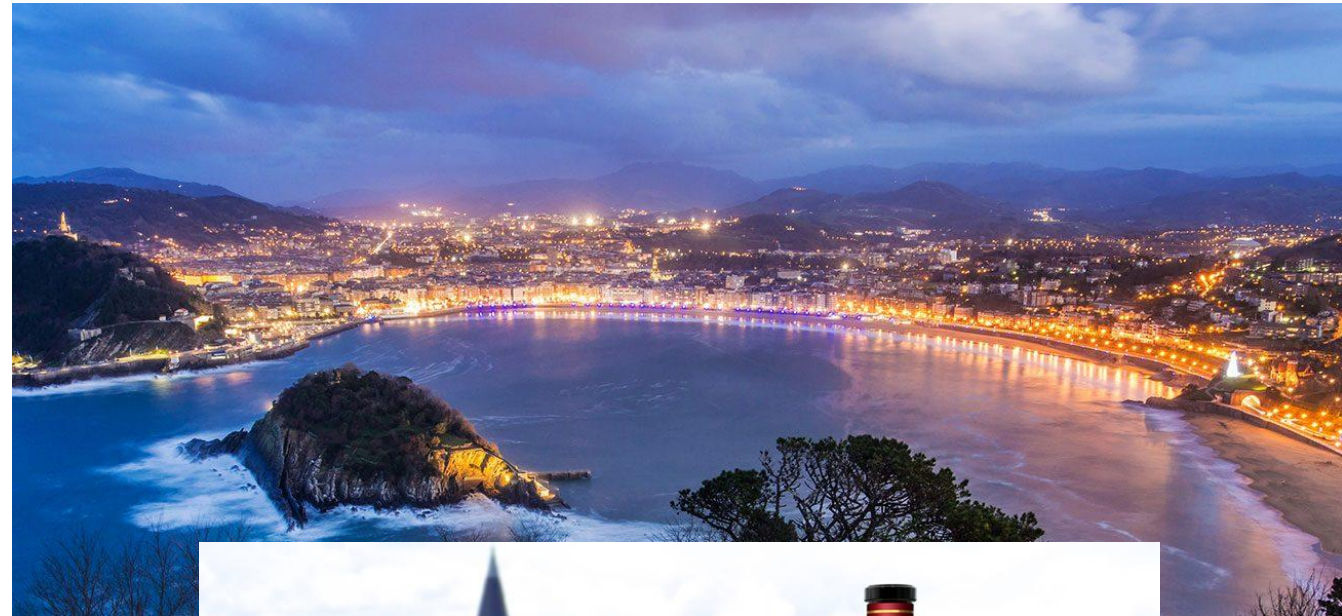
Therapeutic concept

Drug repositioning (DIZE)

Drug discovery

Drug screening (Tecnalia)

Reopening of transregional exchanges



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**Project title: SARS-CoV2 RECEPTOR
TARGETING FOR THE TREATMENT OF
COVID 19 PATIENTS”**

**Contact: marc.landry@u-bordeaux.fr
rafael.rodriguez@ehu.eus**



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Diagnosis Support System for screening of covid-19 and acute respiratory syndromes by means of Rx analysis.

RX-AI-COVID-19
Arantza Bereciartua (Tecnalia)

RX-AI-COVID/ Tecnalía - UPV



eman ta zabal zazu



UPV EHU

Arantza Bereciartua
Artzai Picón
Estíbaliz Garrote
Computer Vision Group

Teodoro Palomares
Radiología y Medicina Física

Enrique Añorbe
Pilar Aisa
Andrea Valero

RX-AI-COVID/Main objectives

Diagnosis Support System for screening of covid-19 and acute respiratory syndromes by means of Rx analysis

1. Prediction in seconds about the presence of covid-19 or others syndromes with Deep Learning:
 - triage in the emergency room
 - primary care
2. Fast learning with few images (~100) in case of virus mutation and change in diagnostic behaviour

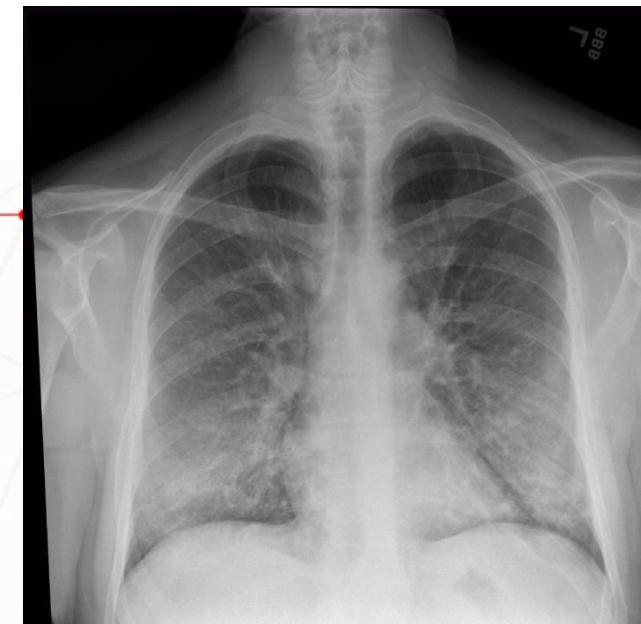


What do I do with this guy? Will he be ok at home or should I order to stay at hospital?

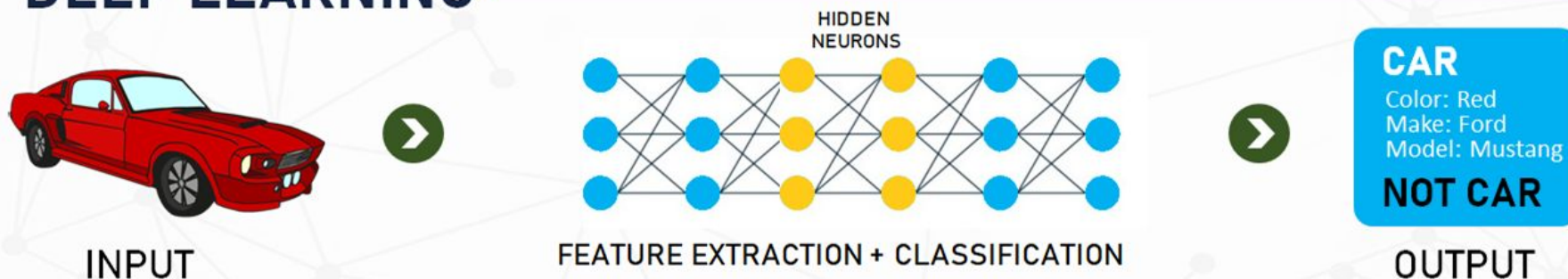
RX-AI-COVID/Main objectives

What is Deep Learning?

MACHINE LEARNING



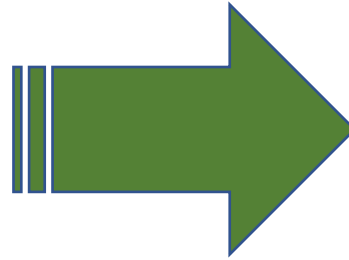
DEEP LEARNING



RX-AI-COVID/ Impact expected

Results

1. Diagnosis Support System capable of indicating the presence or not of covid-19
2. Module for fast learning of other respiratory diseases or mutations of covid-19 (around 100 images will be necessary)



Impact

SW tool for fast
screening in
emergency room
triage and big
support in primary
care

Validation in Osakidetza (by means of radiologists taking part in this project). Real cases

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30 | 10

Online

— TXUPINAZO —

RX-AI-COVID

Arantza Bereciartua

aranzazu.bereciartua@tecnalia.com



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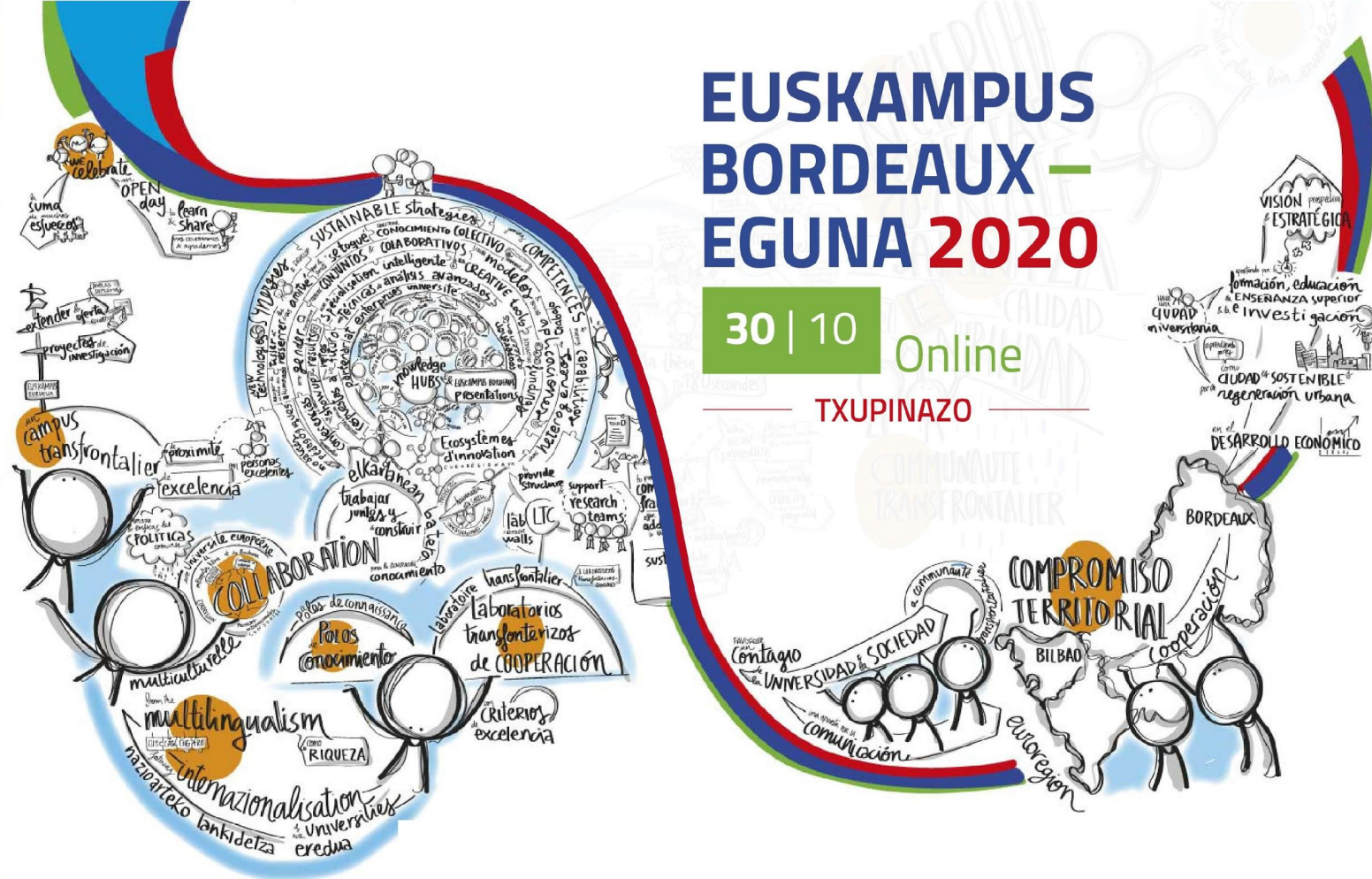
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EUROREGION
EUROESKUALDEA
EURORREGIÓN



UPV EHU



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CONfVID19
Development of trustable prognosis
models for healthcare management

CO~~n~~fVID19: Entities Involved

XXXXXX

*Dpt. Computer Science and Artificial
Intelligence*

Dpt. Mathematics

*Dpt. Preventive Medicine and Public
Healthcare*



CAMPUS OF
INTERNATIONAL
EXCELLENCE

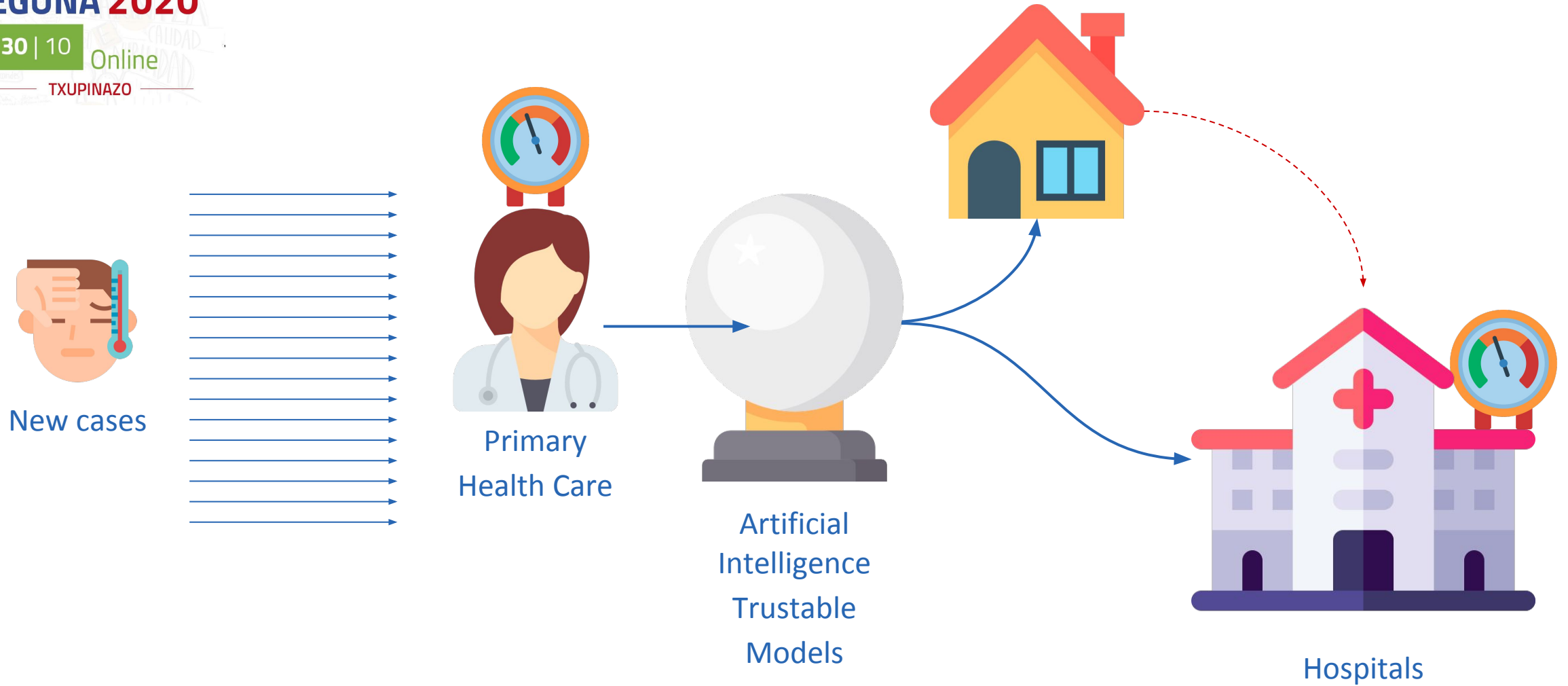


*Artificial Intelligence
Area*



Machine Learning Area

CO_nfVID19: Main objectives



COⁿfVID19: Impact expected

Reduce the **pressure** in the Public
Health Care System

Help in the decision making

Optimize the use of the resources

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— TXUPINAZO —

*CO*nf*VID*19

borja.calvo@ehu.eus

javier.delser@tecnalia.com

smazuelas@bcamath.org

11:30ean itzuliko gara...

Volvemos a las 11:30...

GERO ARTE!

Nous reprenons à 11h30...

We'll be back at 11:30 a.m....

Ocean i3

11:30 – 11:40
(video)

UN PROYECTO TRANSFRONTERIZO DE
INNOVACIÓN EDUCATIVA
PARA LA SOSTENIBILIDAD DEL OCEANO



2 UNIVERSITÉS,
4 DÉFIS,
17+1 OBJECTIFS ODD

et de nombreux **DÉFIS**
territoriaux
à venir"

PROJETS
TRANSVERSAUX

Interreg
POCTEFA



UNIÓN EUROPEA
UNION EUROPÉENNE
Projet co-financé par le FEDER

FRANÇAIS pour
OBJECTIFS SPÉCIFIQUES

- Ainhoa Fernández: Protéger l'Océan
- Ane Berasain: Economie Circulaire
- Mikel Aguerre: Micropolluants
- Naija Vázquez: Droit
- Oreaga del Rio: Biologie et Vétérinaire Marine
- Silvia Fernández: Criminologie

ESTUDIO sobre
MULTILINGÜISMO
e **INTERCULTURALIDAD**
de la comunidad Ocean i3

Giorgia Gabricci
(DREAM UP/EHU y EUSKAMPUS FUNDAZIOA)
Multilingual in the educational context

KOMUNIKAZIO
PLANA

Irine Arana & Lorea Diez
Sino Wix, RRS, ...

Estudio sobre
COMPETENCIAS
en **SOSTENIBILIDAD**
que se desarrollan
en Ocean i3

E.Tom Renz
IKASGURA UP/EHU
ODS & Ocean i3

1 MAKE WATER CLEAN AGAIN
2 Del CONOCIMIENTO a la ACCIÓN
Para REDUCIR los PLÁSTICOS

3 RECYCLING vs UPCYCLING
4 TODOS SOMOS SURFRIDER
PROTEJAMOS al OCEANO

5 STOP AUX MICROPLASTIQUES
SENSIBILISATION et CONNAISSANCE / IMPACT
6 SENSIBILISATION des SCOLAIRES
aux BLUE/GREEN SKILLS

¿Cuáles son los riesgos sanitarios
de la contaminación por plásticos
de las aguas recreativas?

1 Djamar Saindou
Toxicité des plastiques
dans la mer

2 Uxue Velez
Mikroplastikak
eta algak

3 Ander Jiménez
Plan de Comunicación
Mater Museoa

4 Amaia Garmendia
Plastikoen tratamendu
juridiko-administratiboa

5 Clément Leray
Gestion de projets
associatifs-BSAK

6 Irati Lozpiur
Ekoloziaren teknika
berriak

7 Ainhize Ibarretxe
Produktuen ekodiseinua

8 Onintza Zarzuelo
Procedencia de los plásticos

9 Andrea Erice
Ingurumen, Krimen,
azterketa

10 Miren Pereda
Normativa municipal
de prevención de producción
de residuos plásticos

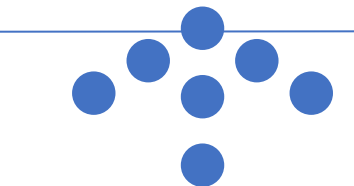
11 Maitte Tolosa
Helkintza proiektua

12 Maitte Saizar
Legelariak, RRS, ...

13 Patxi Belinchon
Sentsibilizazio proiektua

14 Florane Le Bihanic ~ Charlotte Lefevre
Connaître les microplastiques et leur impact
sur le milieu aquatique

15 Laly Teixeira
Atelios sur les plages
sensibilisation aux
green/blue skills



Joanne Pagèze, UB



Marta Barandiaran,
UPV/EHU

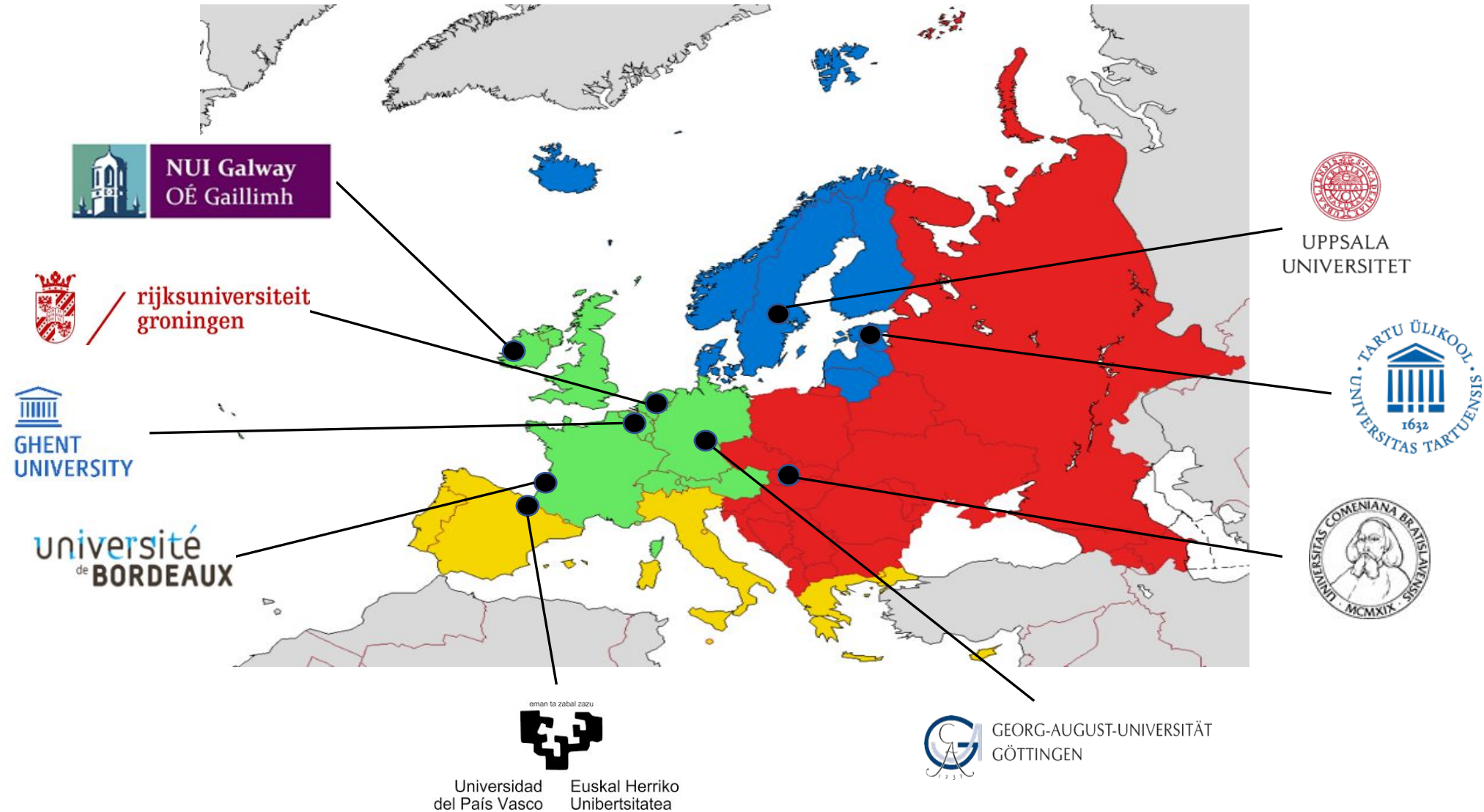


<https://enlight-eu.org>



**EUROPEAN UNIVERSITY NETWORK TO PROMOTE EQUITABLE
QUALITY OF LIFE, SUSTAINABILITY & GLOBAL ENGAGEMENT
THROUGH HIGHER EDUCATION TRANSFORMATION. SHAPING OUR
FUTURE CITIES AND COMMUNITIES**

The ENLIGHT partners



The ENLIGHT partners: Faces



ENLIGHT Learning Experience

The ENLIGHT Learning Experience

Imagine you were a student in any one of the 9 ENLIGHT universities and could automatically gain access to the best courses and teachers across all 9 institutions, across disciplines and lifelong. In a digitally interconnected campus with top-academics and local actors, you're involved in solving the most complex societal issues. And could work closely with international peers and were engaged into impactful, innovative research and develop leadership and entrepreneurial skills. So you are empowered to become an engaged global citizen. Wouldn't this enlighten your study? Or even better, enlighten your life and our future society?



ENLIGHT Learning Experience: Vision

The **ENLIGHT** Learning Experience

Imagine you were a student in any one of the 9 ENLIGHT universities and could automatically gain access to the best courses and teachers across all 9 institutions, across disciplines and lifelong. In a digitally interconnected campus with top-academics and local actors, you're involved in solving the most complex societal issues. And could work closely with international peers and were engaged into impactful, innovative research and develop leadership and entrepreneurial skills. So you are empowered to become an engaged global citizen. Wouldn't this enlighten your study? Or even better, enlighten your life and our future society?



ENLIGHT Learning Experience: Mission

ENLIGHT aims to undertake a **fundamental transformation of European Higher Education** by **empowering learners as globally engaged citizens** with state-of-the-art **knowledge, skills, and innovation potential** to tackle the major societal transition and to promote **equitable quality of life and sustainability**.



“Like a lighthouse guiding sailors to shore, the ENLIGHT alliance will guide students to become lifelong learners and agents-of-change ready to tackle the challenges of tomorrow.”

ENLIGHT Learning Experience: Education

- International learning via flexible learning paths
- Research-oriented, challenge-based learning
- Transdisciplinarity
- Versatility
- Inclusiveness

Competence Framework

- International learning via flexible learning paths
- Challenge-based learning experiences
- Transdisciplinary approaches
- Versatile knowledge and transversal skills
- Inclusiveness & equal opportunity

Global engagement module
Transversal skills

Joint programmes

Living Labs
Interaction with local public and private stakeholders

Embedded courses

Catalogue of flexible (green) mobility scheme

Doctoral network

Inter-connected digital campus

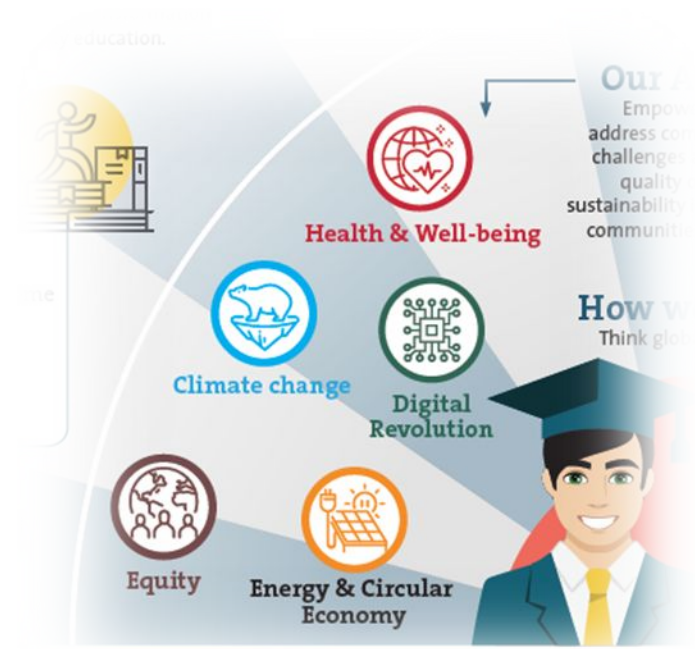
ENLIGHT Learning Experience: Focus

→ 5 Flagship Areas

- › Health and well-being
- › Digital revolution and Impact of digitalization
- › Climate change
- › Energy and Circular economy
- › Equity

→ *Cities, territories as a common denominator*

- › Focal points of major societal challenges
- › Test-bed for new learning formats



ENLIGHT Learning Experience: Main Actions (1)

→ Project

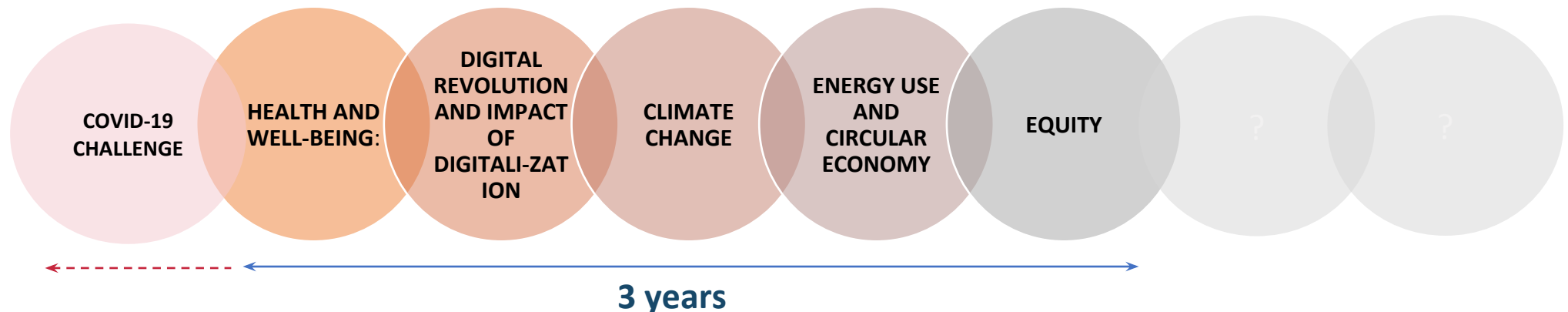
1. Develop a **common Quality Approach** enabling automatic recognition of study periods across ENLIGHT as the basis of a **European University System**;
2. Test new international **research-driven and challenge-based learning and teaching formats** in close cooperation with local and regional stakeholders, focusing on knowledge creation and critical-thinking skills;
3. Foster **generic competences and global engagement** among students and create know-how for embedding language bridging skills, diversity awareness, leadership, and entrepreneurial skills into our curricula;
4. Develop the **competence framework for inclusive, seamless and green mobility**, and provide the tools for flexible learning;
5. Develop models for a **structural dialogue with local, European and global stakeholders**;
6. Develop a comprehensive methodology to **measure the impact** of the ENLIGHT competence framework on learners and their socio-economic environment.



MAIN OBJECTIVES WP2

→ Test new international research-driven and challenge-based learning and teaching formats in close cooperation with local and regional stakeholders, focusing on knowledge creation and critical-thinking skills

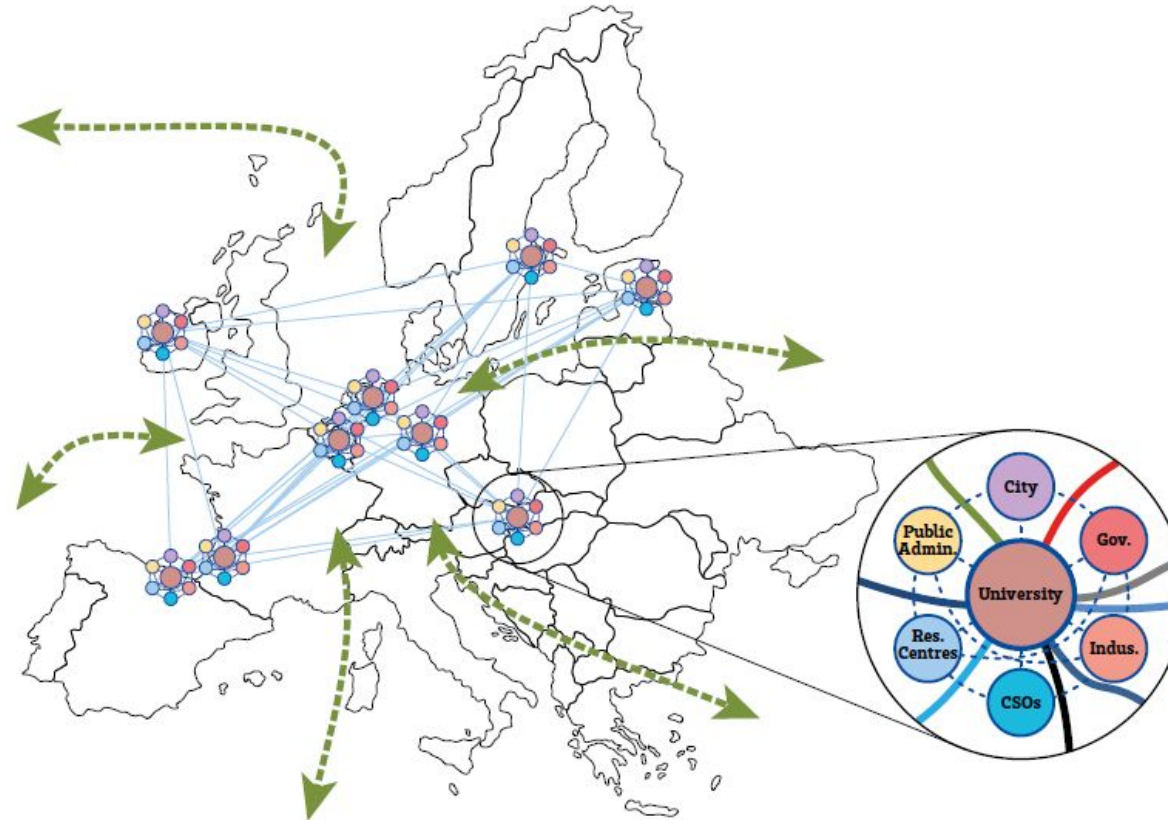
- Create knowledge capacity around the **5 flagship challenges** that are key determinants of well-being and sustainability for future cities and communities
- Scale up our innovative methodology to transform the way we address sustainability challenges



ENLIGHT Learning Experience: Main Actions (2)

→ Long-term

- › To create an open integrated space (**European University System**) with free movement of students and staff and sharing of resources that gradually integrates quality assurance, international outreach and global engagement, talent recruitment and investment in large research infrastructure



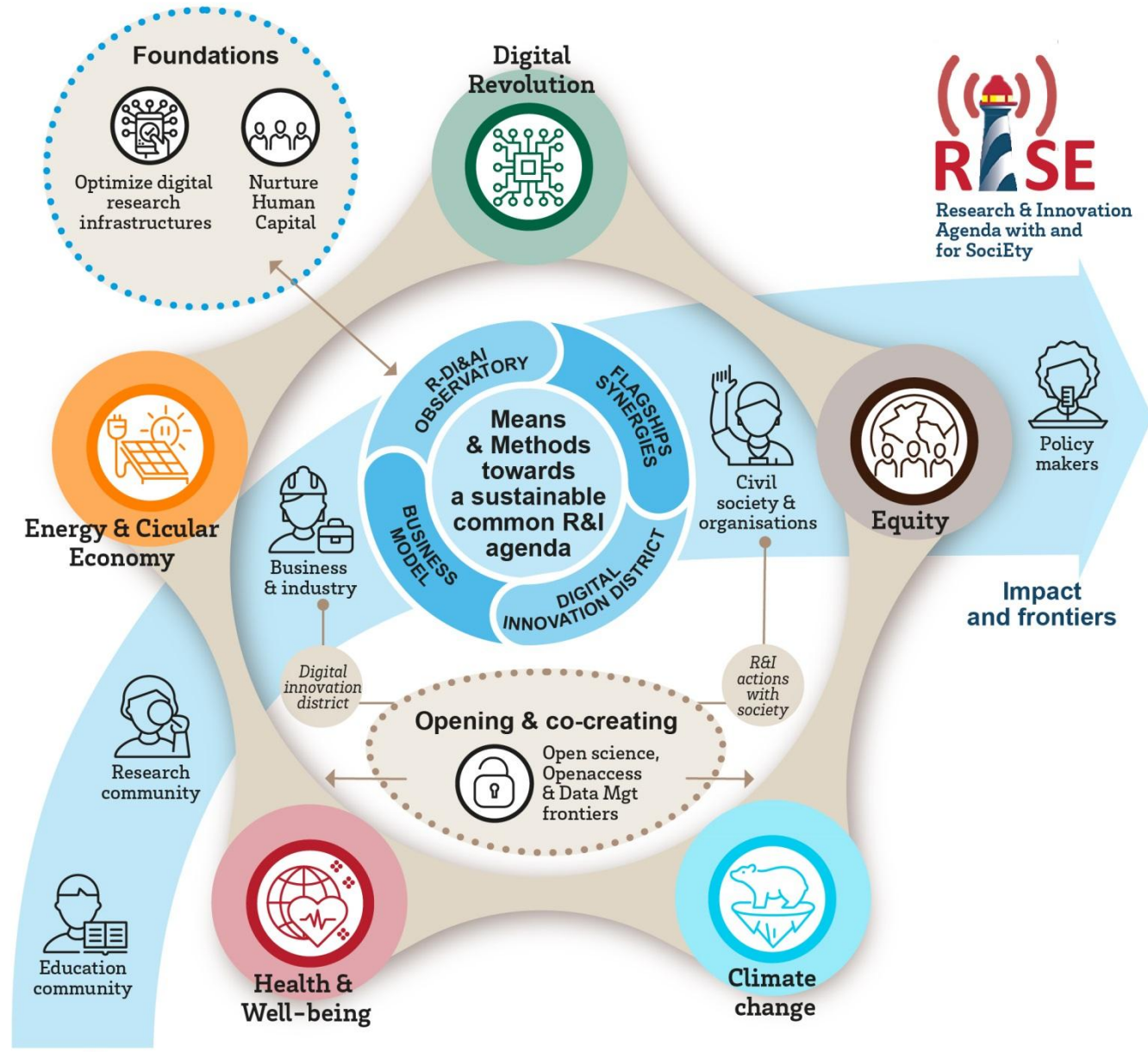


SwafS OA 33 Part II Call – “Science with and for Society”

Other Action 33 - Support for the
Research and Innovation Dimension of
European Universities (Part II)

RESEARCH AND INNOVATION AGENDA WITH AND FOR SOCIETY:

Leveraging digital innovation for a greener and healthier Europe



First Activities: ENLIGHT Lecture Series

ENLIGHT lecture with
Daniel Carey, National University of Ireland Galway
Marysa Demoor, Ghent University
Riili Marling, University of Tartu
Stephen Donovan, Uppsala University

ENLIGHT Lecture

Literature, Narrative, and Covid-19
1st July 2020, 3:00 to 4:00 pm CET

ENLIGHT lecture with
Tomáš Szemes, Comenius University of Bratislava
Amanda Sierra, University of the Basque Country (UPV/EHU)

ENLIGHT Lecture

SARS-CoV-2: New virus, new detection protocols
1st July 2020, 6:00 to 7:00 pm CET

First Activities: ENLIGHT Online Education Survey



ENLIGHT Online Education

As you know our university has engaged with 8 other universities in the European University Alliance project "ENLIGHT" (<https://enlight-eu.org>), together we have applied to the Erasmus+ EUN call. On May 27th international relations directors and vice-presidents exchanged in an online seminar about the impact of the COVID19-pandemic on international education, with a desire to anticipate, help and perhaps lessen the burden on teachers. Following this joint brainstorming, in consultation with our ENLIGHT partners, we seek to investigate the possibilities for shared online education, exchange of education materials and/or integrating virtual exchange in order to formulate and offer accessible solutions and enhance the educational offer for our students.

If you wish to participate, completing the below survey takes approximately 5 min.

We thank you for your valuable input!

Each question leads to a different section of the form to complete. You can mark only one answer at a time. If you wish to mark two (or more) answers, please fill out the form a second time.

Reason for responding to this call *

- I have an online course/online course material and wish to share and/or cooperate with ENLIGHT colleagues
- I wish to cooperate with ENLIGHT colleagues to develop online education resources and/or integrate available online course material
- I have an existing cooperation with two or more ENLIGHT partner institutions and wish to further extend this towards other partner universities

Next

FORM ANALYTICS

ENLIGHT Online Education

This week

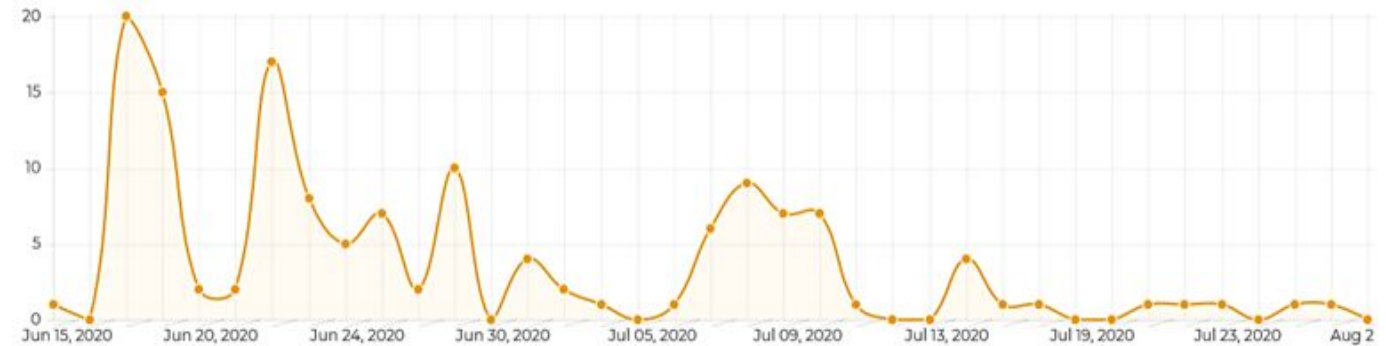
This month

All-time

Custom

Showing analytics for 2020-06-15

- 2020-09-01



392

Views

138

Responses

30%

Conversion Rate

06:06

Avg. Time

ENLIGHT

Co-funded by the
Erasmus+ Programme
of the European Union

“There can be no solution to the challenge of climate change that is not global. But if we can come together in partnership, we can transform today's challenge into tomorrow's opportunity - an opportunity for green growth and sustainable prosperity... we also need a strong bottom-up push from academics and opinion-shapers such as you. Universities such as yours are founts of ideas and innovation. They are furnaces of innovation and entrepreneurship.

So, send forth this word.”

-- Ban Ki-moon

Thank-you for your attention

**Eskerrik asko zure
arretagatik**

Bedankt voor uw aandacht

Tänan teid tähelepanu eest

Merci pour votre attention

Vielen Dank für Ihre Aufmerksamkeit

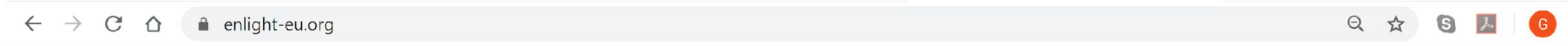
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Ďakujem za tvoju pozornost'

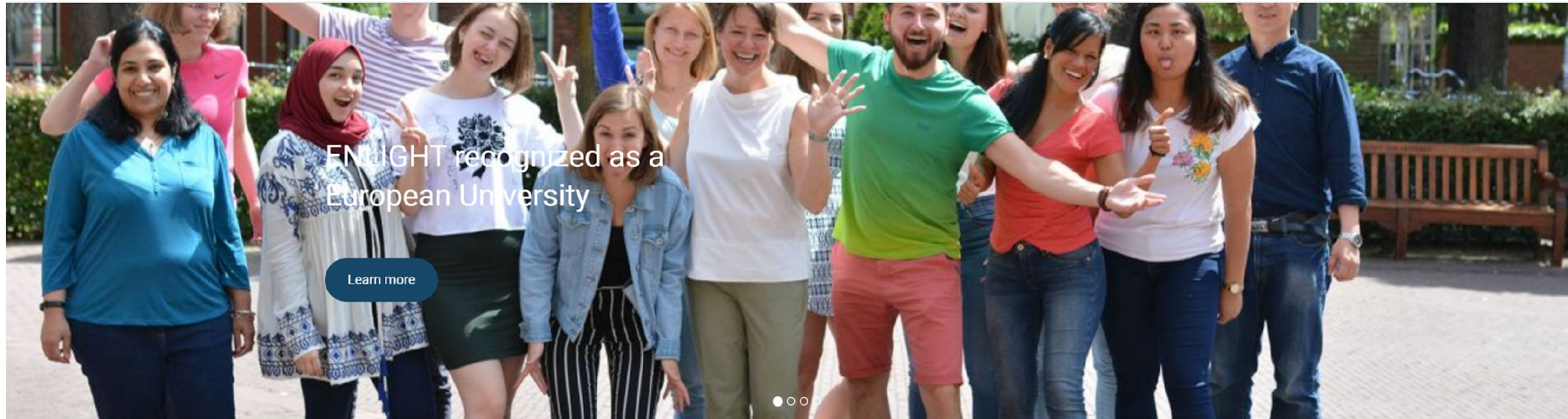
Gracias por su atención

Tack för din uppmärksamhet

Visit us at enlight-eu.org



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NEWS



ENLIGHT recognized as a European University (9 July 2020)



ENLIGHT Lecture 'Literature, Narrative, and Covid-19' (1 July 2020)



ENLIGHT Lecture 'SARS-CoV-2: New virus,

LEARNING OPPORTUNITIES



NUI Galway's International Summer School 2020



Free Internet Courses on Pharmaceutical Bioinformatics open for Applications



Summer Courses 2020 at UPV/EHU - Catalog

UPCOMING EVENTS

Summer School in Gender Studies 'Disturbances and Interventions' in Groningen

🕒 24.08.2020 - 28.08.2020

Annual conference of the European Health Psychology in Bratislava

🕒 25.08.2020 - 29.08.2020



EUSKAMPUS BORDEAUX — EGUNA 2020

11:50 – 12:20 / Laboratoires Transfrontaliers de Coopération (LTC)

30 | 10 Online
TXUPINAZO

Introducción programa



Philippe Moretto, UB



Fernando Tapia, UPV/EHU



LTC QuantumChemPhys

Pascal Larregaray, UB (ponente) - Ricardo Diez, DIPC



LTC Aenigme

Franck Girot, UPV/EHU (ponente) - Olivier Cahuc, UB



LTC TransMath

Luis Vega, BCAM (ponente) - David Lannes, UB



LTC Green Concrete

Cyril Aymonier, UB (Ponente) –Jorge Sanchez Dolado, UPV/EHU



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QuantumChemPhys

Theoretical Chemistry and Physics at the Quantum
Scale

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BORDEAUX —
EGUNA 2020

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LTC QuantumChemPhys

theoretical chemistry and physics at the quantum scale

université
de BORDEAUX



*Donostia International
Physics Center
DIPC*



*Centro de Física de Materiales
(UPV/EHU-CSIC)*

Research

**QuantumChemPhys
Transborder Lab**

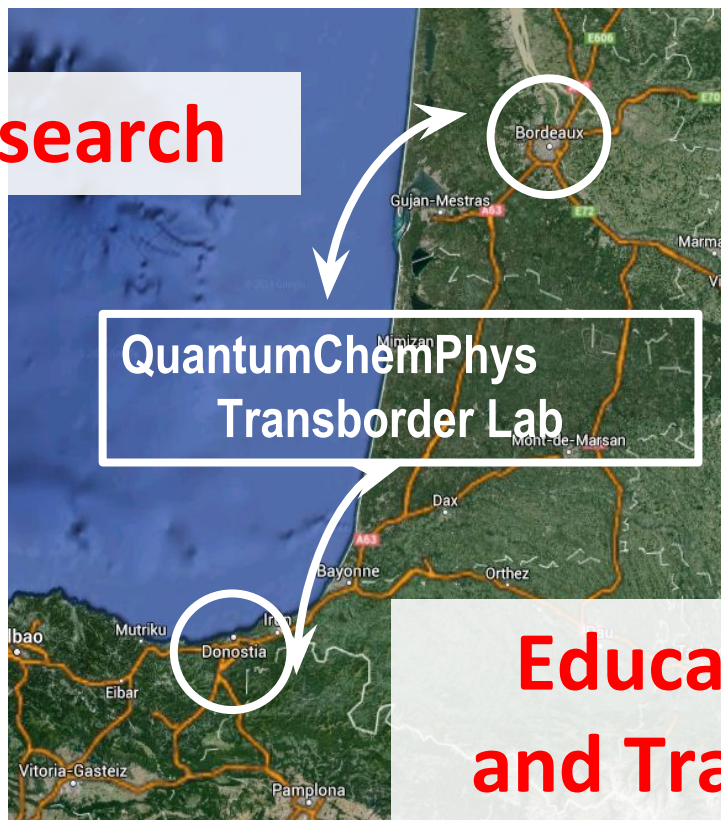
**Education
and Training**



*Institut des Sciences
Moléculaires
(U. Bordeaux/CNRS)*

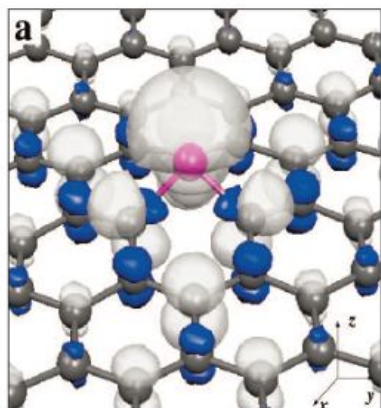
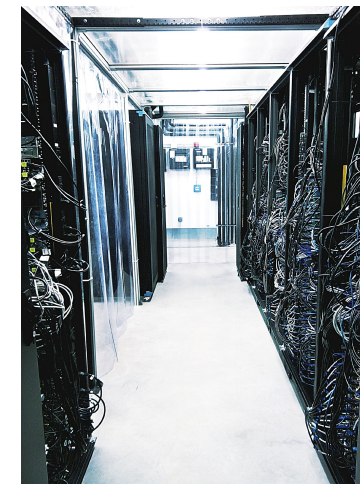
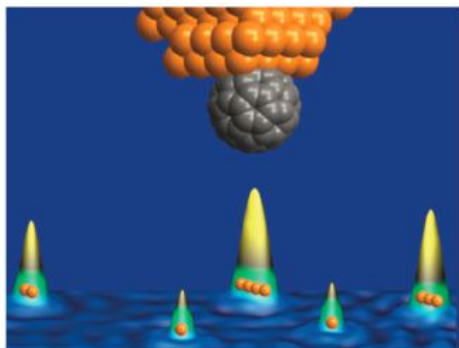


*Laboratoire Ondes et
Matière d'Aquitaine
(U. Bordeaux/CNRS)*



LTC QuantumChemPhys

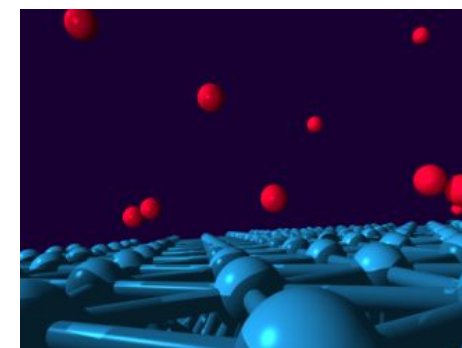
theoretical chemistry and physics at the quantum scale



*Molecular Dynamics, Elementary Reactivity,
and Theoretical Chemistry*

Electronic Structure and Quantum Transport

High Performance Computing



LTC QuantumChemPhys

theoretical chemistry and physics at the quantum scale

8 joint publications (so far) in 2020

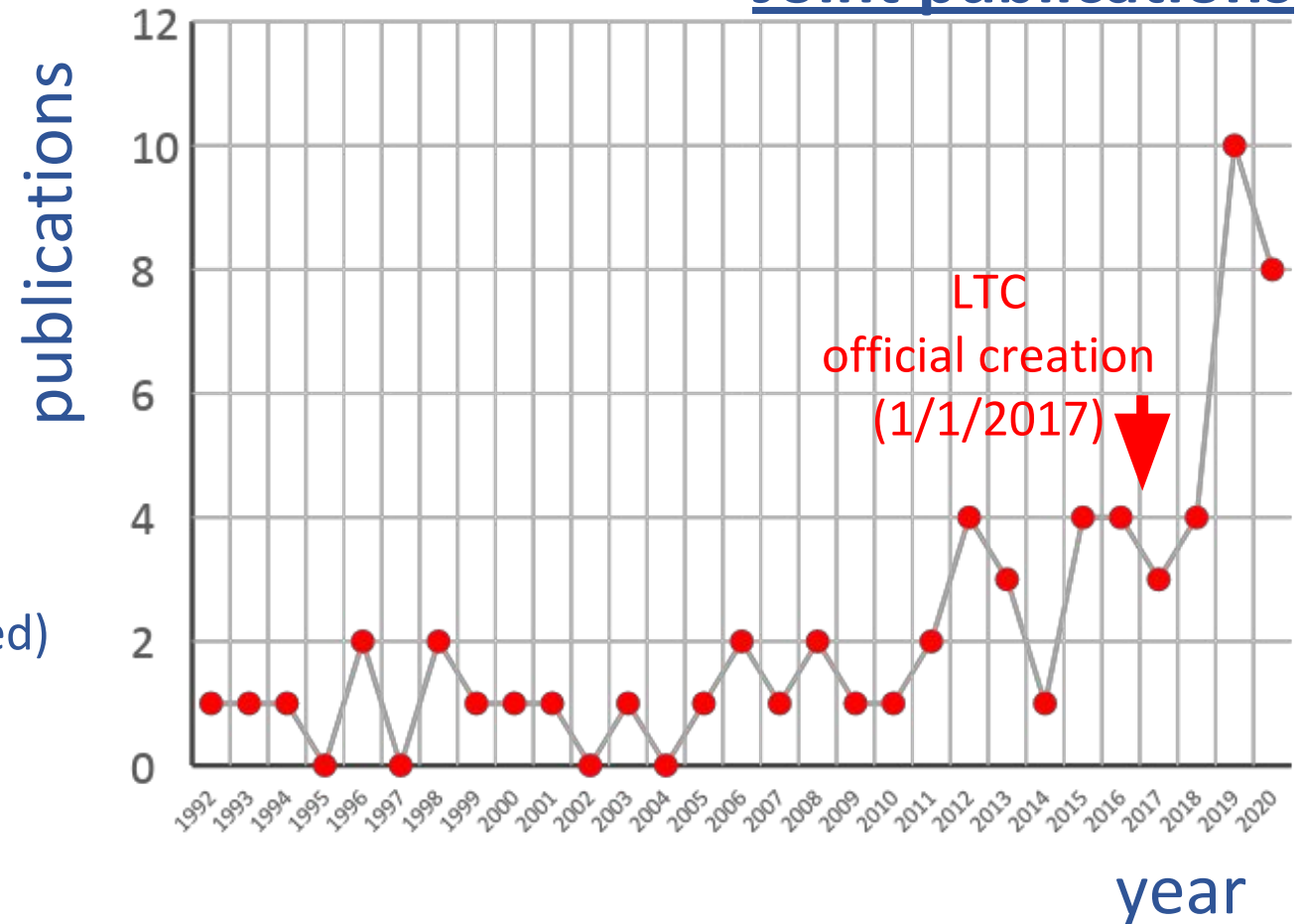
5 of them led by PhD students (1st author)

+

2 of them with a PhD student (coauthor)

63 joint publications since the collaboration started)

Joint publications



LTC QuantumChemPhys

theoretical chemistry and physics at the quantum scale

Olatz Uranga

Computational studies on photophysical properties of molecular aggregates



Sophie Espert

Protonic conductivity mechanism in new electrolytes based on strong acid hydrate



Alberto Rodríguez-Fernández

Semiclassical corrections in the dynamics of gas/surface interfaces



Carmelo Naim

Van der Waals interactions in the description of molecular nonlinear optical switches



Oihana Galparsoro (2016)

Phonon and electron excitations in diatom abstraction from metallic surfaces



Alejandro Peña Torres (2018)

Contribution to the theoretical description of the dynamics in heterogeneous elementary processes



Bogusz Bujnowski (2019)

Transport properties of excitonic-insulator hybrid junctions



Julie Baumard (2019)

Charge, spin and heat transport in superconducting nanostructures with generic spin fields



Quentin Schaeffer (2020)

Dynamical aspects of quantum transport in nano-electronics

4 joint
PhDs
currently
running

5 joint
PhDs
already
defended

Main goal: collaborative research and joint training

Research: Molecular Dynamics, Elementary Reactivity, and Theoretical Chemistry
Electronic Structure and Quantum Transport

Research: Mobility of senior researchers (**)

Research: Reinforce transborder collaboration with joint post-doctoral researchers

Training: Joint PhD students (existing and new)

Training: Mobility of Master's students (**)

Activities: Sharing good practices and knowledge -- HPC

Activities: LTC QuantumChemPhys 2021 workshop (either on-site or on-line)

Activities: International Conference on Elementary Reactivity at Surfaces (**-depending on the pandemic situation)

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QuantumChemPhys

Contact:

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Ricardo Díez Muiño – CFM (CSIC-UPV/EHU), DIPC
rdm@ehu.eus

eman ta zabal zazu



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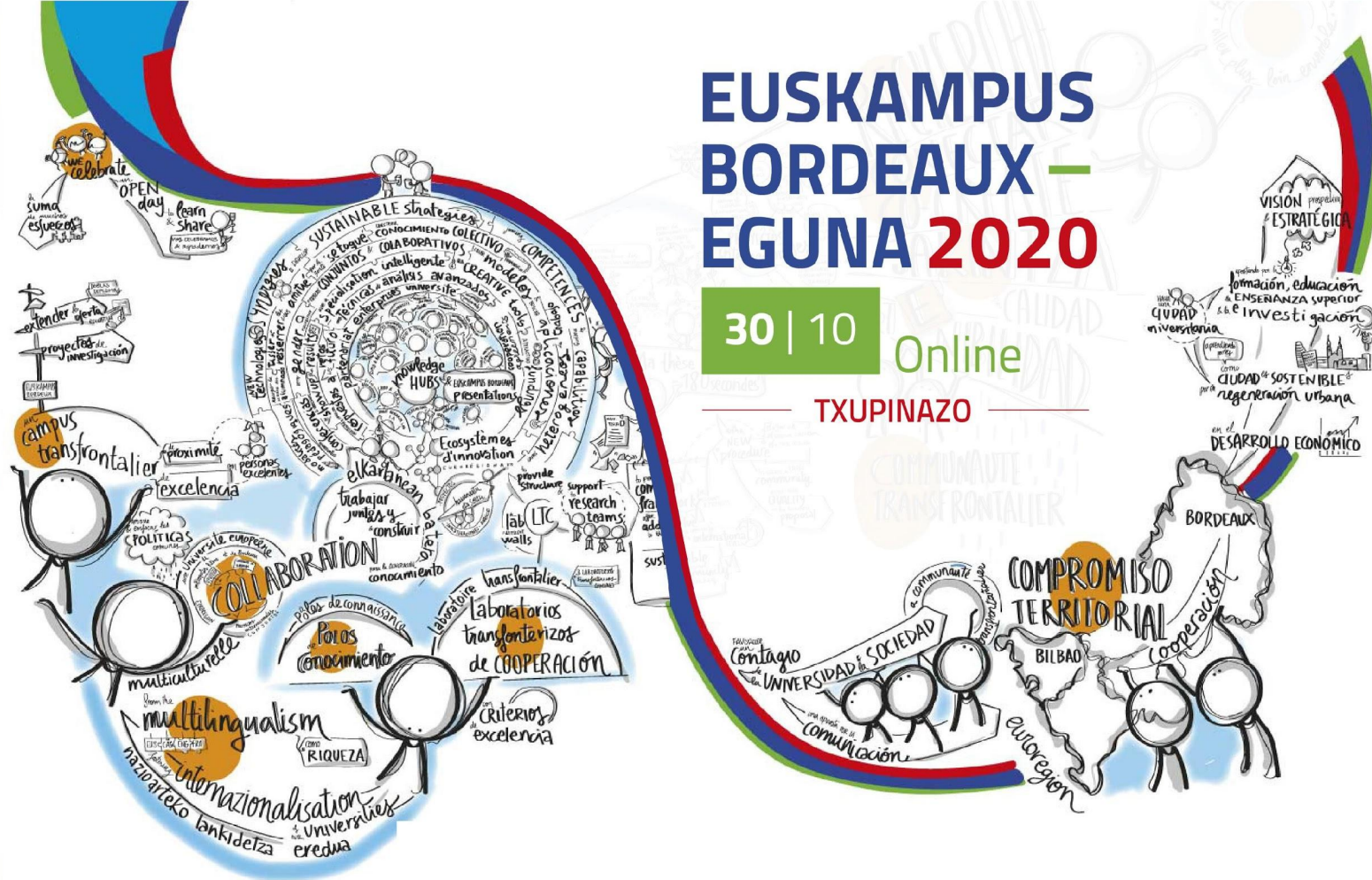
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LTC ANIGME

Aquitaine Euskadi Network In Green
Manufacturing and Ecodesign

LTC ÆNIGME – CROSS BORDER JOINT LABORATORY AQUITAINE EUSKADI NETWORK IN GREEN MANUFACTURING AND ECODESIGN

The LTC associates the Department of Mechanical Engineering of the Faculty of Engineering of Bilbao, UPV/EHU on one hand, and the Institute of Mechanics and Engineering of Bordeaux, UBx, ENSAM, Bordeaux INP and CNRS, on the other hand.

The LTC is organized around three main axes:

- (1) Sustainable and ecological design of components, structures, equipments and systems through and for sustainable manufacturing,**
- (2) Models and Processes for Sustainable Manufacturing,**
- (3) In service behavior of components or structures with strong gradients of properties.**

LTC ÆNIGME /Main objectives

Actions identified for the 2019-2020 period

Sustainable processes and Ecodesign

Additive Manufacturing by laser cladding or SLM: PhD in co-tutelle of Mario Renderos; International PhD of Pinku Yadav (ENABLE project).

Machining of metal and CFRP, and design of Smart tooling for aeronautic assembly - International PhD of Haythem Zouabi (ENABLE project).

High energy welding of dissimilar materials: application to steel and aluminum –Thesis in cosupervision of Nélida Rodríguez.

LTC Management

New International Master of Science on Industry 4.0 from existing courses at UPV/EHU, UBx, ENSAM and UC (USA) .

Organization of the LTC workshop and PhD training

Process simulation

Strain gradient modelling and simulation for severe loading conditions - Thesis in co-tutelle of Raffaele Russo (ENABLE project).

DEM simulation of the grinding process – Possible thesis in co-tutelle of Tyrone Pazmiño.

Process validation and data recording

Experimental characterization of dynamic behavior of materials - Thesis in cosupervision of Trunal Bhujangrao (ENABLE project).

Identification of temperature and kinetic fields during FSW - Thesis in cosupervision of Danilo Ambrosio (ENABLE project).

DURING 2020, THE FOLLOWING MAIN OUTCOMES HAVE BEEN REALIZED

- 7 PUBLICATIONS IN Q1 JOURNALS AND 4 PUBLICATIONS IN EVALUATION IN Q1 JOURNALS**
- 3 CONTRIBUTIONS IN INTERNATIONAL CONFERENCES AND 8 POSTPONED TO 2021**
- 1 ITN MARIE SKLODOWSKA-CURIE IN PROGRESS**
- 1 BOOK CHAPTER PUBLISHED BY SPRINGER**
- 1 CO-TUTELLE PhD FINALISED, 1 CO-TUTELLE PhD RUNNING AND 1 IN PROGRESS**
- 3 COSUPERVISED PhDs RUNNING**
- 2 INTERNATIONAL PhD RUNNING**
- 10 MONTHS OF INCOMING / OUTGOING MOBILITY REALIZED**
- ONLINE TRAINING**
- 1 WORKSHOP ORGANISED FOR PhD STUDENTS (ONLINE EVENT)**
- 26 HOURS OF SPECIFIC COURSES ORGANIZED (15 + 25 STUDENTS HAVE ATTENDED THESE COURSES DURING THE ONLINE TRAINING AND THE WORKSHOP)**

Next steps

**OPEN THE LTC TO COMPLEMENTARY
COMPETENCES (THERMAL ASPECTS...)**

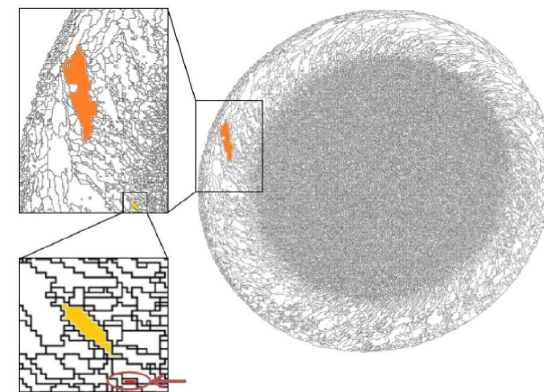
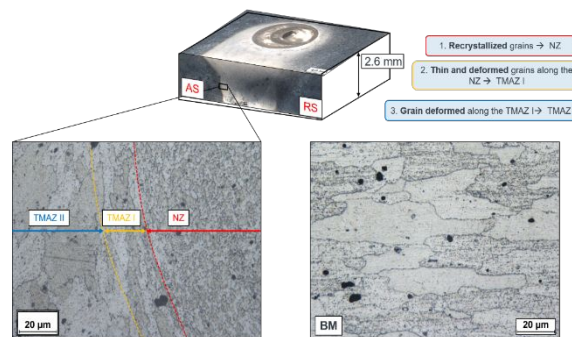
**PARTICIPATION IN PROJECTS OF THE KIC “MADE
IN EUROPE”**

**THINK ABOUT ITN POSSIBILITIES OR OTHER
PROGRAMS AFTER THE ENABLE PROJECT**

INCREASE OUTGOING / INCOMING MOBILITY

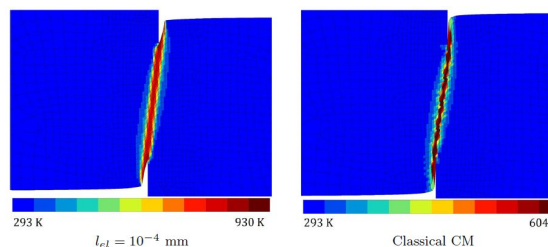
**INCORPORATION OF NEW PhD STUDENTS AND
POSTDOCS...**

Example of statistical self-similarity of grain morphology for an EBSD image of the CC deposition strategy on a coated specimen. The scale of the self-similarity will be limited in this case by the resolution of the image used in the fractal geometry analysis (the resolution of the EBSD image is 10 microns, the diameter of the section shown is approximately 7.7 mm).



Prototype of the nodes/bars structure with integration of the hexapod (the actuators of the hexapod are not set)

Bench prototype for machining and friction experiments currently set up.



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LTC ÆNIGME

Contacts

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Escuela de Ingeniería de Bilbao – Departamento de Ingeniería Mecánica

NEW AQUITAINE PARTNER

Pr. OLIVIER CAHUC

Olivier.cahuc@u-Bordeaux.fr

Institut de Mécanique et Ingénierie de Bordeaux – Département MPI



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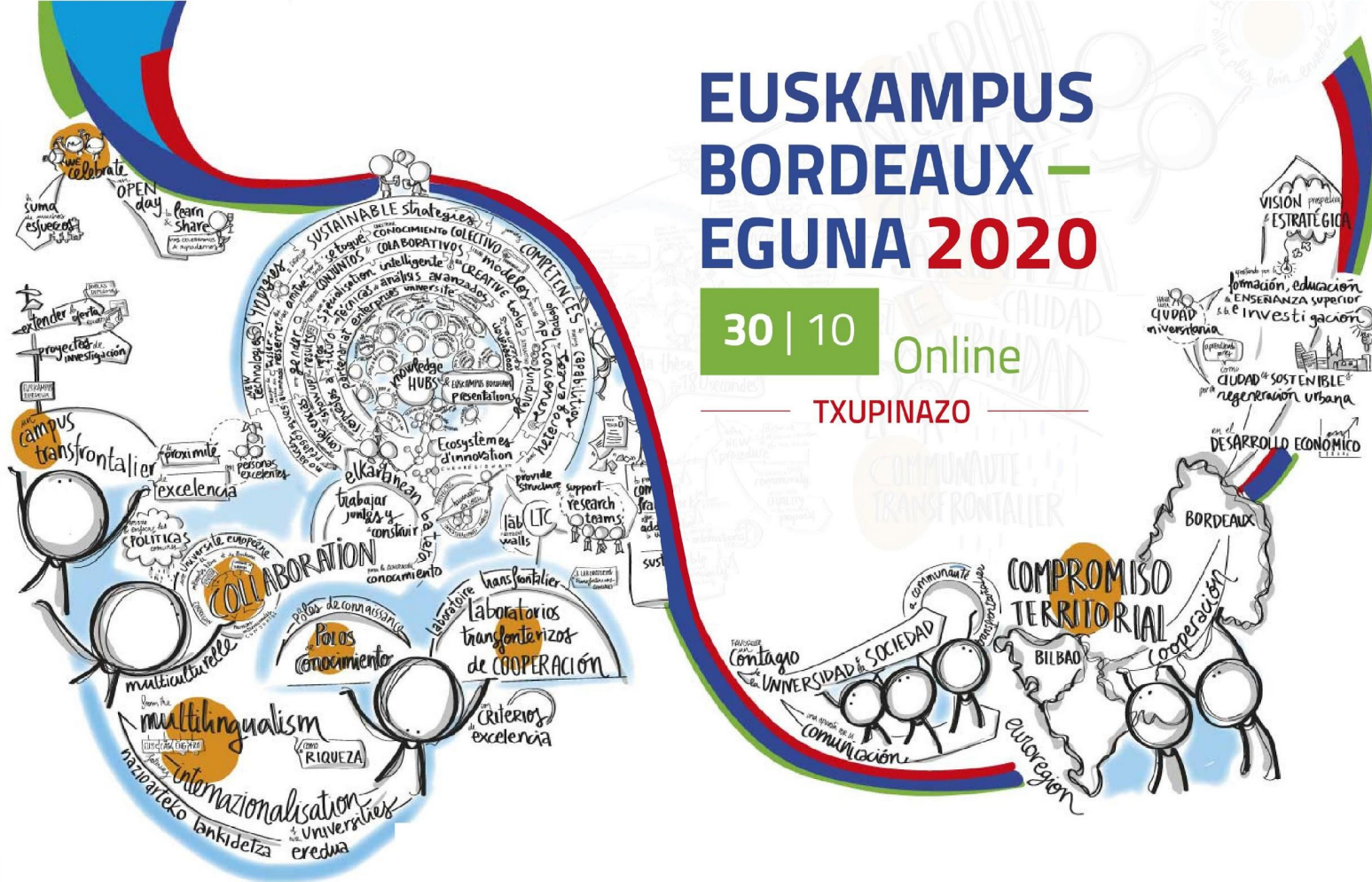
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HEZKUNTZA SAILA
DEPARTAMENTO DE EDUCACIÓN



EUROREGIONAL INSTITUTIONAL PARTNERSHIP
EUROPEAN UNIVERSITY ASSOCIATION



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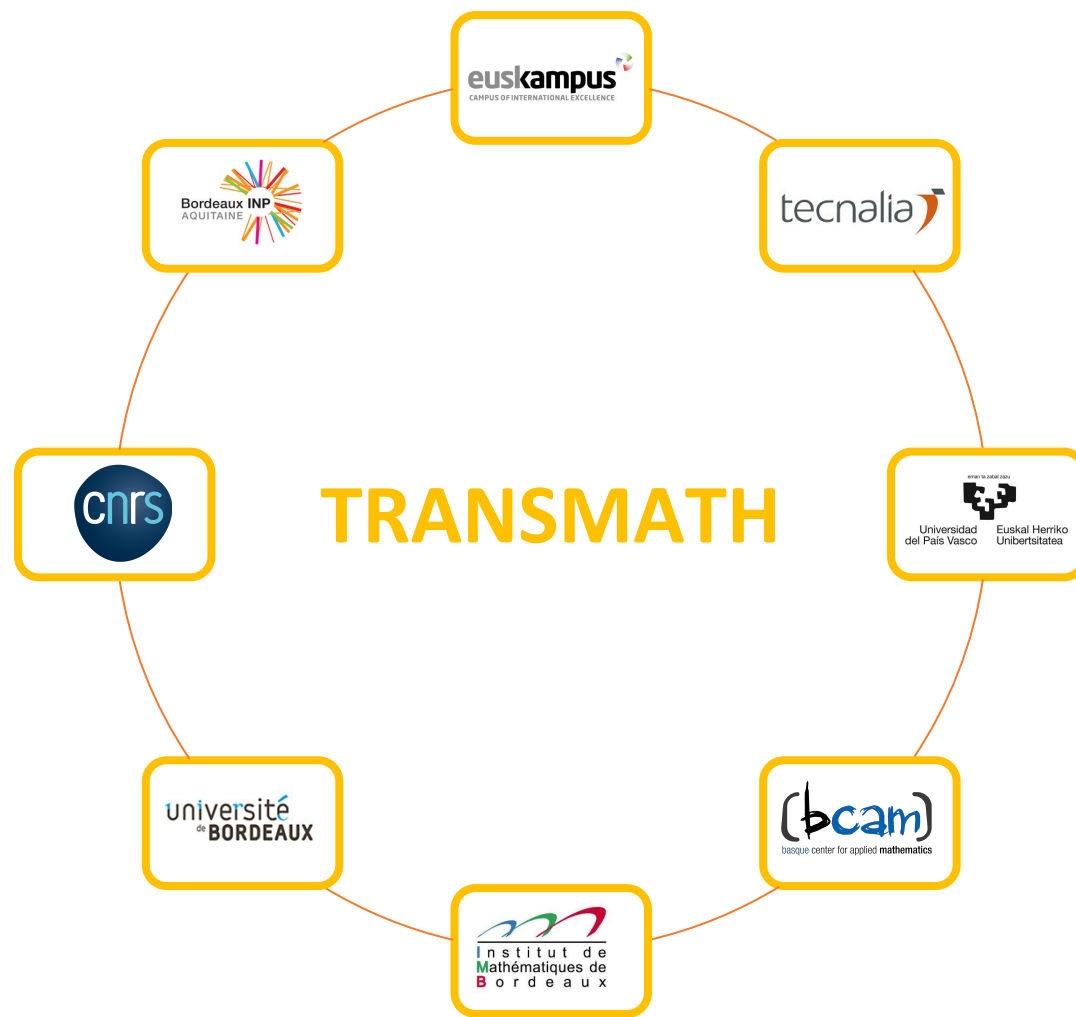
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LTC name:
TRANSMATH

TRANSMATH/ Partners and Entities involved

Transborder Laboratory
for Mathematics and its
Applications-Transmath



TRANSMATH /Main objectives

Principal Investigators & Hosts:

In Bordeaux: DAVID LANNES

- *Institut de Mathématique de Bordeaux (IMB), UMR CNRS 5251*
- *Université de Bordeaux*

In the Basque Country : LUIS VEGA

- *Department of Mathematics, University of the Basque Country*
- *BCAM – Basque Center for Applied Mathematics*

Keywords:

- ✓ *Mathematics,*
- ✓ *Applied Mathematics,*
- ✓ *Analysis of PDEs,*
- ✓ *Computational mathematics,*
- ✓ *Algebra and Geometry,*
- ✓ *Mathematical Physics,*
- ✓ *CFD,*
- ✓ *Mathematical Modeling,*
- ✓ *Mathematics and Artificial Intelligence*

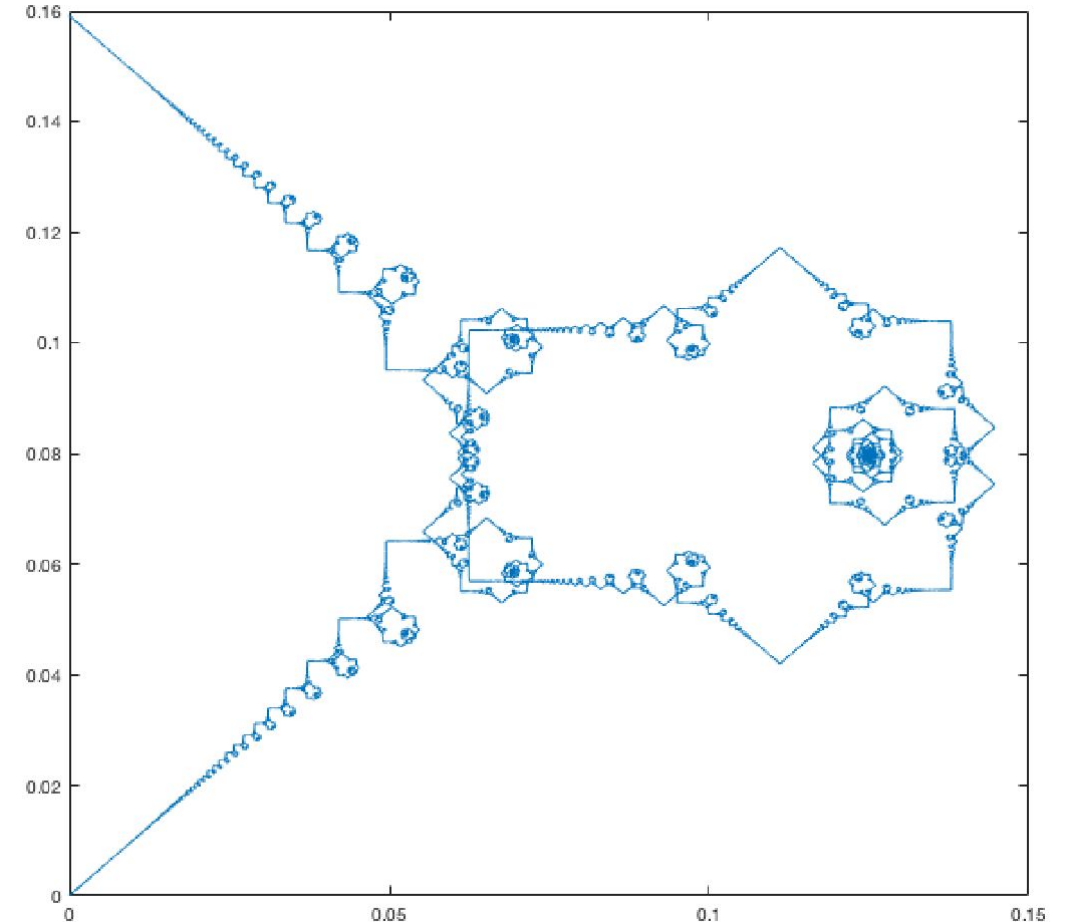
TRANSMATH/Main results- Outcomes - Work plan

Main results:

- Two co-tutelle agreements
 - Baddredine Benhellal (2019) co-funded by ERC HADE
 - Mahdi Zreik (2020) UB grant (*Doctorat International 2020* call)
- Collaboration with LTC AENIGME and the participation in the ITN Project ENABLE: PhD student Tamara Dancheva (BCAM) has been hired. The advisor is Michael Barton (Ikerbasque Fellow, BCAM).
- Collaboration in the project Renewable for the Euroregional call "Economy of knowledge" (EHU, BCAM, Alerion technologies, UPV, CENER, Naitec, Science Po Bordeaux, IMB and Inria)
- Part of the H2020-MSCA-COFUND-2020 application led by UPV/EHU + UB on advanced manufacturing

Next steps

- Strengthen the regional net on marine renewable energies: organization of a conference, workgroups.
- Student seminar : once in Bilbao and once in Bordeaux.
- On going collaboration in Algebra: need of funding at the postdoc level.



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TRANSMATH

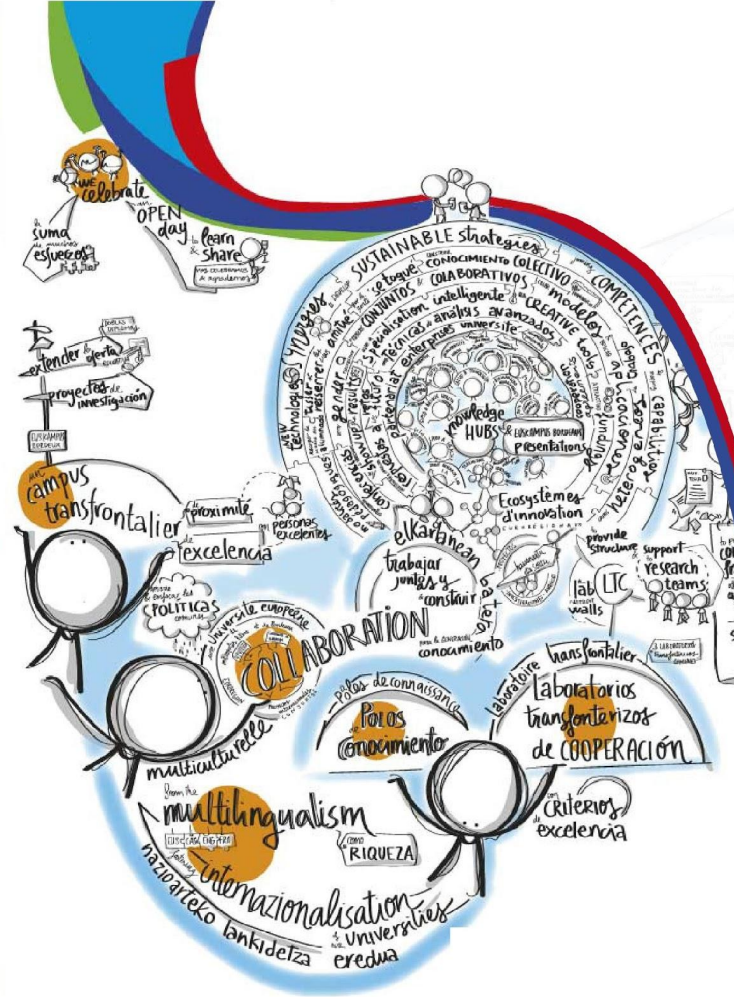
David Lannes: david.lannes@math.u-bordeaux.fr

Luis Vega: luis.vega@ehu.eus



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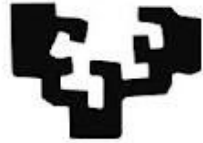
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LTC
GREEN CONCRETE

LTC Green Concrete / Partners and Entities involved

eman ta zabal zazu



UPV EHU

université
de BORDEAUX

tecnalia

dipc



Green Concrete

Cross-Border Collaborative Laboratory

icmcb
Institut de chimie de la matière condensée de bordeaux

Baskrete

Basque Country Initiative for Cement and Concrete Research

I2M BORDEAUX

ism
Institut des Sciences Moléculaires
BORDEAUX

CFM

POLYMAT

CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

MPC
Materials Physics Center

cnrs
dépasser les frontières

Bordeaux INP
AQUITAINE

LTC Green Concrete /Main objectives



~ 10% human CO₂ emissions related to cement manufacture
~ 40% of the energy demand is consumed in buildings.

- The **LTC GREEN CONCRETE** aims to be
- our “local” response to a global need, and
 - become a worldwide reference in the development of more sustainable production processes and materials for concrete and cement based materials.



LTC Green Concrete/ Results - Work plan

4 RESEARCH AREAS

CLINKER ENGINEERING

(New chemistry, new MW and hydrothermal Cement manufacture processes)

HYDRATION ENGINEERING

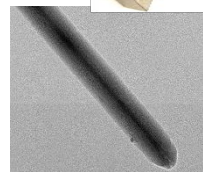
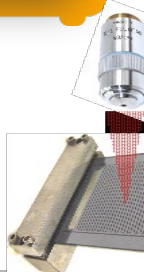
(Cement composite designs, Multi-scale characterization and simulations)

NANOADDITIONS

(nanotubes, seeds, superplasticizers...)

PERFORMANCE

(Mechanical and thermal Properties, Energy Storage, durability, LCA...)

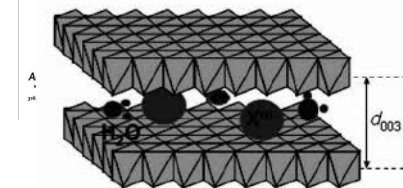


Some results...

PUBLICATIONS



PATENTS



DISSEMINATION



TRAINING (3 PhD in cotutelle soon)

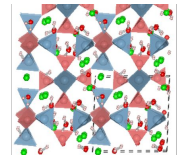
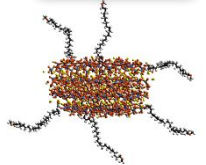
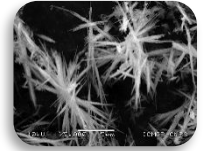
FUNDING



Next steps



MNG	KoM. Strengthening our joint participation in EU projects. Identification of new collaboration areas. Define the “Talent capture plan”. <i>Nov 2020</i>
R&D	PhD thesis of Valentina Musumecci (ICMCB & CFM). <i>March 2021</i>
R&D	PhD thesis Francisco Aguirre (TECNALIA & ICMCB). <i>October 2021</i>
R&D	Co-tutelled PhD: Zeolite-based concrete for energy storage. <i>April 2021.</i>
R&D	Postdoctoral researcher : Eco-concrete for CO ₂ capture. <i>Feb 2021</i>
DISS&EXP	Patentability study. (<i>Dec 2020</i>).
DISS&EXP	International Green Concrete Workshop (Biarritz, <i>Jun 2021</i>)



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LTC Green Concrete

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Nadia Saiyouri



Andrés Ayuela



Hegoi Manzano



José Ramón Leizaola



Guido Sonneman



Silvina Cerveny



Juan J. Gaitero



Edurne Erkizia





Julieta Barrenechea, Université de
Bordeaux et Euskampus fundazioa

10° Anniversary

- Campus of International Excellence Euskampus
- University of Bordeaux Initiative of Excellence
- Euskampus Fundazioa
- Euroregional Campus Euskampus Burdeos,

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10 years in wich we have been...

Awarded

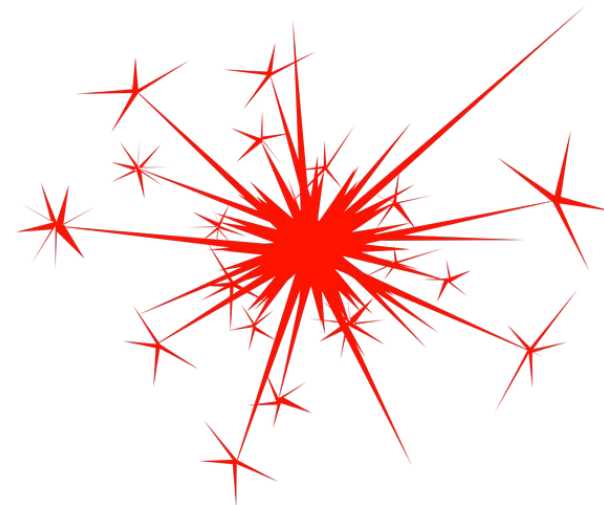
- DIÁLOGO 2018 Prize

Accompanied...

- Euroregion AECT NAEN Strategic Partnership

Recognized ...

- Strategic Alliance European University ENLIGHT



10 years collaborating

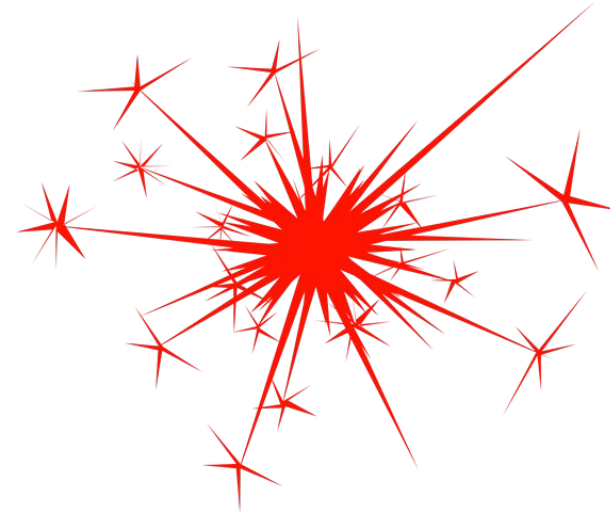
EDUCATION, EMPLOYABILITY AND ENTREPRENEURSHIP E3

- 4 Post-graduate joint degrees
- 2 Erasmus Mundus Master
- 1 INTERREG - POCTEFA Project

RESEARCH & INNOVATION

- 4 Cross-border Joint Laboratories (LTC)
- 25 PHD cotutelle defended since 2015,
- 30 PHD cotutelle ongoing
- 9 European projects
- 309 co-authorship

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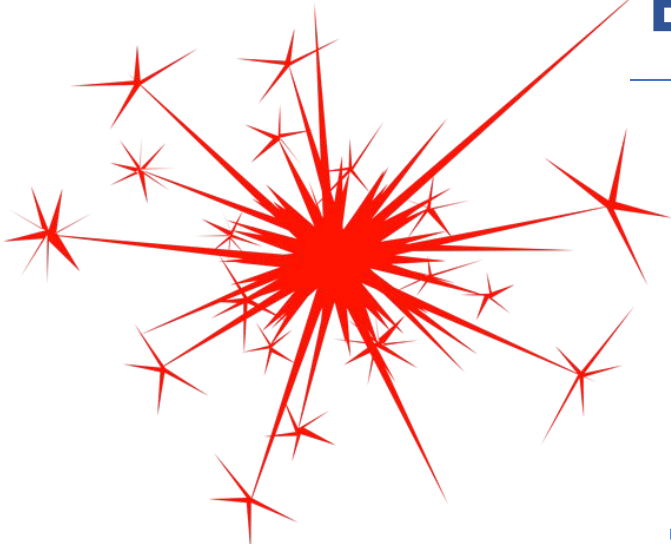
REGIONAL ENGAGEMENT

- 6 Euroregional Projects
- Participation in Euro-regional Strategy.

COMMUNICATION AND INTERNATIONAL PROJECTION

- 2 Social communication forums
- Alliance ENLIGHT

EUSKAMPUS BORDEAUX URTE NAGUSIA



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WORKSHOPS AND ENCOUNTERS

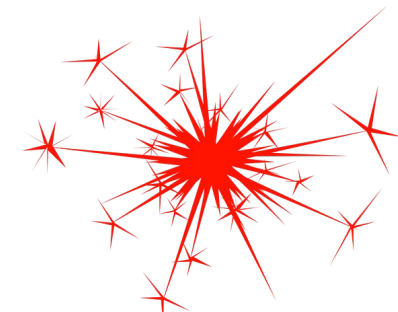
**EUSKAMPUS
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EGUNA**

SUMMER 2021



10 th Anniversary

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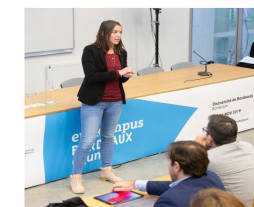
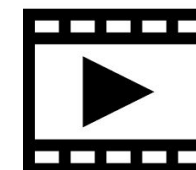
“Programme to support the organisation of Euskampus Bordeaux 2020-2021 encounters/meetings”.

Bases on the we site **15th November**

Purpose: genuine, inter, trans and multidisciplinary collaboration around priority challenges for our Euroregional territory with high potential for scientific, technological, economic and social impact.

Meetings/encounters : Workshops, webminars, etc
....

- Leading role to young researchers and students
- creativity in the formats
- Web and media contents
- look to Europe through for the collective construction of this Alliance



ENLIGHT

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In June 2021 we will, hopefully, celebrate 10 years of EUSKAMPUS BORDEAUX and an ambitious horizon of collaborations for the next decade.

12:30 – 13:00 / Cierre / Itxiera / Clôture

