<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Position</th>
<th>Department/Science faculty</th>
<th>Email</th>
<th>Title</th>
<th>Start Date</th>
<th>Comments</th>
<th>Partners identified</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Gente</td>
<td>Karine Professor</td>
<td>Faculty of Economics and Business/AMSE</td>
<td><a href="mailto:karine.gente@univ-amu.fr">karine.gente@univ-amu.fr</a></td>
<td>Create a joint Master Degree of Economics and Finance (linked with environment/Green)</td>
<td>Not specified</td>
<td>FEG: Masters of Economics with 2 tracks on Environment; one Summer School (possible topic 2022: environmental issues); some classes at Bachelor level interested in all possible nature of CIVIS collaborations (excluding joint PhD supervision). It is needed support for identifying/contacting partners.</td>
<td>Aix-Marseille University, University Roma La Sapienza, University Autonomus of Madrid, University of Tubingen, Stockholm University</td>
</tr>
<tr>
<td>2</td>
<td>Latifi</td>
<td>Amel Professor</td>
<td>Biology Department/Science Faculty</td>
<td><a href="mailto:amel.latifi-elasof@univ-amu.fr">amel.latifi-elasof@univ-amu.fr</a></td>
<td>1) Blended mobility with courses (36 ECTS) on Microbiology; 2) Two summer workshops (12CTS/each): Microbial and plant applications for bioenergy production; Ecosystems evaluation in response to human disturbances</td>
<td>Not specified</td>
<td>The two-years programme involve 20 students (5 per university + 5 local) AMU and Sapienza partners share a double Master diploma in Microbiology.</td>
<td>Aix-Marseille University, University Roma La Sapienza, University of Tubingen</td>
</tr>
<tr>
<td>3</td>
<td>Michelini</td>
<td>Fabienne Professor</td>
<td>Institut des Matériaux, Microélectronique et des Nanosciences de Provence</td>
<td><a href="mailto:fabienne.michelini@univ-amu.fr">fabienne.michelini@univ-amu.fr</a></td>
<td>International Summer School on Nanosciences and Nanotechnologies, Nanosum</td>
<td>July 2021</td>
<td>Hosted by AMU; 2 weeks; 160 participants; Universidad de Barcelona (not CIVIS); labeled A*MIDEX; already contacted CEREGE; programme including exchange with socio-economical actors</td>
<td>Aix-Marseille University, University Roma La Sapienza, University Autonomus of Madrid, and University of Barcelona</td>
</tr>
<tr>
<td>4</td>
<td>Michelini</td>
<td>Fabienne Professor</td>
<td>Institut des Matériaux, Microélectronique et des Nanosciences de Provence</td>
<td><a href="mailto:fabienne.michelini@univ-amu.fr">fabienne.michelini@univ-amu.fr</a></td>
<td>Create a CIVIS master in Nanosciences and Nanotechnologies (Joint Degree)</td>
<td>September 2021</td>
<td>4 students from each partner; interdisciplinarity dimension</td>
<td>Aix-Marseille University, University Roma La Sapienza, University Autonomus of Madrid, University of Tubingen</td>
</tr>
<tr>
<td>5</td>
<td>Belle</td>
<td>Valerie Professor</td>
<td>BIP laboratory</td>
<td><a href="mailto:Valerie.belle@univ-amu.fr">Valerie.belle@univ-amu.fr</a></td>
<td>Master 2 Biophysics - Internship offer (attract students from CIVIS universities)</td>
<td>January 2021</td>
<td>Proposal: create a Platform with categories to upload internships offers</td>
<td>ALL 7 partners</td>
</tr>
<tr>
<td>6</td>
<td>Kamoun</td>
<td>Agnès Administrative</td>
<td>A*MIDEX Foundation</td>
<td><a href="mailto:agnes.kamoun@univ-amu.fr">agnes.kamoun@univ-amu.fr</a></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>7</td>
<td>Lebars</td>
<td>Michael</td>
<td>DR ENMS Science faculty</td>
<td><a href="mailto:biond@phyte.ups-mrs.fr">biond@phyte.ups-mrs.fr</a></td>
<td>Short course: energy transition and climate change.</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>8</td>
<td>Fasquelle</td>
<td>Thomas Professor</td>
<td>Science Faculty</td>
<td><a href="mailto:thomas.fasquelle@univ-amu.fr">thomas.fasquelle@univ-amu.fr</a></td>
<td>Summer school: One week to understand and use solar energy</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>9</td>
<td>Favrie</td>
<td>Nicolas professor</td>
<td>Science Faculty</td>
<td><a href="mailto:nicolas.favrie@univ-amu.fr">nicolas.favrie@univ-amu.fr</a></td>
<td>Short course: Eco building design</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>10</td>
<td>Basile Doolch AND Baldy</td>
<td>Virginie DR INRAE AND Professor</td>
<td>PYTHÉAS - Pythas Institute - Observatory of the sciences of the universe</td>
<td><a href="mailto:basile@orange.fr">basile@orange.fr</a></td>
<td>Summer school 2021 The initiative aims to show that agriculture, and in particular agricultural soils, can play a crucial role for food security and climate change. The “4 for 1000” transition school thus offers training on the “soil carbon” issue from research laboratories to farms.</td>
<td>2021</td>
<td>Stockholm Univ</td>
<td>University of Bucharest + Universidade Autonoma de Madrid</td>
</tr>
<tr>
<td>11</td>
<td>Grisolia AND Marandet</td>
<td>Christian DR CEA And CR ENMS Science faculty</td>
<td>laboratoire Physique des Interactions ioniques</td>
<td><a href="mailto:Christian.GRISOLIA@cea.fr">Christian.GRISOLIA@cea.fr</a></td>
<td>SHORTER SCHOOL 2022 The proposed school comprised four days of lecture courses, followed by contributed talks that covered all the aspects of tritium current open issues. Experts in the field of fusion and fusion from all around the world held lectures on different topics related to tritium such as tritium detection, management, control, retention and waste.</td>
<td>2022</td>
<td>University of Bucharest + Universidade Autonoma de Madrid</td>
<td>University of Bucharest + Universidade Autonoma de Madrid</td>
</tr>
</tbody>
</table>
CALL FOR HUB 1 ACTIVITIES

Title of the proposed activity: 1st proposition: “building rehabilitation” with two themes:
- diagnosis of structural rehabilitation
- thermal rehabilitation diagnosis

2nd proposition: “Eco building design”

Participant universities: AMU

Participant academics (indicating university, department, e-mail)
AMU IUSTI, Polytech Marseille (nicolas.favrie@univ-amu.fr)

Kind of activity:
- □ Virtual or blended mobility courses/modules
- ☒ Short courses/workshops
- □ Seasonal Schools
- □ Interdisciplinary, collaborative courses/modules

Terms/semesters
- □ Erasmus research exchanges/traineeships
- □ Independent projects (e.g. joint supervision of thesis work)
- □ Erasmus-term semesters (30 ECTS)

Various
- □ Other (please elaborate): ………………………

Capacity (total # of participants): 30 participants by each session

Brief description of the activity (Aims and Scopes, content, etc):
the format is not yet clear. Possibly, these courses would concern students at the master level

Scheduled time (if flexible, please write “flexible”): undetermined, maybe autumn 2021

Other remarkable features of the proposal (interdisciplinary/multidisciplinary character; contribution to CIVIS goals; etc.):
The target audience is quite varied: engineering students in energy, civil or materials engineering, architects, town planners, landscaping schools. These courses may also be accessible to professional training (executives in social housing organisations, etc.).

Theses courses exist already for french speaking public but it is possible to duplicate some sessions in English.
CALL FOR HUB 1 ACTIVITIES

Title of the proposed activity: ...Environmental fluid mechanics: theory, experiments, numerical simulations......

Participant universities: ...AMU..............

Participant academics (indicating university, department, e-mail) ............
   Michael LE BARS, CNRS/AMU, IRPHE, lebars@irphe.univ-mrs.fr
   Benjamin FAVIER, CNRS/AMU, IRPHE, favier@irphe.univ-mrs.fr
   Denis MARTINAND, AMU, M2P2, denis.martinand@univ-amu.fr

Kind of activity:
   □ Virtual or blended mobility courses/modules
   X Short courses/workshops
   □ Seasonal Schools
   X Interdisciplinary, collaborative courses/modules

Terms/semesters
   X Erasmus research exchanges/traineeships
   □ Independent projects (e.g. joint supervision of thesis work)
   □ Erasmus-term semesters (30 ECTS)
   Various
   □ Other (please elaborate): ............................

Capacity (total # of participants): ......12............

Brief description of the activity (Aims and Scopes, content, etc): .................
The course “Environmental fluid mechanics: theory, experiments, numerical simulations” (30 hours) is intended for master students with a background in Earth sciences, engineering, physics, or applied mathematics. Various fluid-dynamical aspects of the atmosphere and oceans will be addressed: fundamental aspects like rotating flows, stratified fluids, waves, turbulence, will be introduced, as well as selected topical issues like e.g. energy transition and climate change.
The course will consist of classroom lectures (16 hours) complemented by experimental (7 hours) and numerical (7 hours) projects in small groups. The course will be organized in the laboratory of Institute with top-level experimental facilities.

Scheduled time (if flexible, please write “flexible”): ........ flexible ........

Other remarkable features of the proposal (interdisciplinary/multidisciplinary character; contribution to CIVIS goals; etc): ............................
   Obvious interdisciplinary/multidisciplinary character
   Relevant to the CIVIS theme: Le climat, l’énergie et l’environnement
CALL FOR HUB 1 ACTIVITIES

Title of the proposed activity: ...Climat Environnement Energie........................................

Participant universities: ........................................

Participant academics (indicating university, department, e-mail) ...karine.gente@univ-amu.fr........

Kind of activity:

x Virtual or blended mobility courses/modules
x Short courses/workshops
X Seasonal Schools
X Interdisciplinary, collaborative courses/modules

Terms/semesters
X Erasmus research exchanges/traineeships
□ Independent projects (e.g. joint supervision of thesis work)
X Erasmus-term semesters (30 ECTS)
Various
□ Other (please elaborate): ....................

Capacity (total # of participants): ....................

At the Faculty of Economics and Business, we have several Master program around the topic of environment.
Our master of Economics has 3 tracks directly or indirectly related to environment:
- The Economic Policy Analysis track, where we have classes on project management, and public policy evaluation which focus on environment issues.
- The Economic and Theoretical Analysis track where we have more research oriented classes dedicated to environmental economics
- The Econometric, Big Data and Statistics track where students learn data science techniques that could be easily applied to environmental issues:

We already run every year a summer school where we welcome foreign professors (from foreign universities) to teach during one week. The first edition was on the Search and Matching issue 2 years ago, the second one has been postponed to next summer due to Covid19 and will deal with network analysis. We would like to plan the 2022 summer school issue around environmental economics.

We also have classes at the Bachelor level focusing on environment:
Sustainable business management (L2), Economics of climate change (L2), Developpement durable (L2)
In French, at the FEG, here is the course offer about environmental issue. A L2 class in French on Développement Durable. A Master 2 in Gestion des Ressources Humanies (mention RSE) where we have one class in dealing with Environmental Legislation and another one focusing on Green finance. Finally we have the Master “Gestion durable des territoires de montagne » on the GAP campus which deals especially on management of mountain territory.

Brief description of the activity (Aims and Scopes, content, etc): ..................

Scheduled time (if flexible, please write “flexible”): .................................

Other remarkable features of the proposal (interdisciplinary/multidisciplinary character; contribution to CIVIS goals; etc): .................................
CALL FOR HUB 1 ACTIVITIES

Title of the proposed activity: **One week to understand and use solar energy**

Participant universities: **AMU**

Participant academics (indicating university, department, e-mail)
**AMU, IUSTI & PolytechMarseille-ME, thomas.fasquelle@univ-amu.fr**

Kind of activity:
- □ Virtual or blended mobility courses/modules
- ☒ Short courses/workshops
- □ Seasonal Schools
- □ Interdisciplinary, collaborative courses/modules

Terms/semesters
- □ Erasmus research exchanges/traineeships
- □ Independent projects (e.g. joint supervision of thesis work)
- □ Erasmus-term semesters (30 ECTS)
- □ Various
- □ Other (please elaborate): ............................

Capacity (total # of participants): **12**

Brief description of the activity (Aims and Scopes, content, etc):
**During one week, the students will learn the general knowledge of solar energy, including photovoltaics, thermal, concentrated and energy storage. Meanwhile, they will have to collaborate in order to build a solar powered system, such as a solar cooker.**

Scheduled time (if flexible, please write “flexible”): **Duration: one week, occurrence: not before summer 2021.**

Other remarkable features of the proposal (interdisciplinary/multidisciplinary character; contribution to CIVIS goals; etc): .................................
**I would be happy to know if other academics are working teaching solar energy, renewable energies, and energy storage. We could build something all together (summer school...), and interdisciplinary.**
You would like to start an initiative within CIVIS, the European university Alliance? Fill in this brief form, it will enable the coordination team to efficiently support and redirect you if needed and also to put you in touch with partners within the other CIVIS universities.

Contact details

<table>
<thead>
<tr>
<th>Name of your university</th>
<th>Aix Marseille University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of your department/faculty/research entity…</td>
<td>OSU PYTHEAS, CEREGE, IMBE and Mediterranean House of Human Sciences, TELEMME</td>
</tr>
<tr>
<td>Name/Surname</td>
<td>Isabelle Basile-Doelsch, Virigine Baldy</td>
</tr>
<tr>
<td>Function</td>
<td>Senior scientists</td>
</tr>
<tr>
<td>E-mail address</td>
<td><a href="mailto:basile@cerege.fr">basile@cerege.fr</a></td>
</tr>
<tr>
<td>Phone number</td>
<td></td>
</tr>
<tr>
<td>Webpage</td>
<td></td>
</tr>
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Link to CIVIS

<table>
<thead>
<tr>
<th>Which of the global themes of CIVIS does your initiative relate to?</th>
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</tr>
<tr>
<td>☐ Society, Culture, Heritage</td>
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<td>☐ Digital &amp; Technological Transformations</td>
</tr>
<tr>
<td>☐ Cities, Territories, Mobility</td>
</tr>
</tbody>
</table>

If relevant, what CIVIS scheme do you foresee to use for the implementation of your initiative?

| ☑️ Short term mobility |
| ☑️ Virtual and blended mobility |
| ☐ Open Labs |
| ☐ Hubs Workshop |
| ☑️ Summer School |

General information

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<th>What will be the nature of your initiative</th>
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<tbody>
<tr>
<td>☐ Training</td>
</tr>
<tr>
<td>☐ Seminar</td>
</tr>
<tr>
<td>☐ Conference</td>
</tr>
<tr>
<td>☐ Study visit</td>
</tr>
<tr>
<td>☐ Other. Please specify</td>
</tr>
<tr>
<td>☑️ Summer School</td>
</tr>
</tbody>
</table>

Briefly present your initiative, its objectives and foreseen impact.
4 for 1000" transition school

The international "4 for 1000" initiative, launched by France on 1 December 2015 at COP 21, consists of bringing together all voluntary public and private players (States, local authorities, companies, professional organisations, NGOs, research establishments, etc.) within the framework of the Lima-Paris Action Plan.

The initiative aims to show that agriculture, and in particular agricultural soils, can play a crucial role for food security and climate change.

The "4 for 1000" transition school thus offers training on the "soil carbon" issue from research laboratories to farms.

This school will give participants the necessary assets to take up the challenge of developing the circular C economy in the soil/agriculture field with a very wide range of stakeholders. Indeed, to meet the challenge of the transition to the 4 per 1000, it is necessary that tomorrow's researchers are able to:

- Understand the mechanisms of soil organic matter dynamics in order to innovate in terms of agricultural practices that store soil carbon;
- Understand the role of stakeholders at the research/agricultural system interfaces;
- Understand/identify the political and legal levers existing or to be created;
- Understand the dynamics and constraints of farmers;
- Imagine innovative and ambitious solutions to create new levers for action.

The ambition of this school of the "transition to the 4 for 1000" therefore aims to give keys to understanding and acting with the different societal actors.

The main objective is to enlighten students and future stakeholders on all the elements to be considered in the circularity of C (and associated nutrients).

Organization

The theme school will have 3 teaching formats (in english)

- Speakers’ conferences (1h30 + 30 minutes of discussion)
- The visits / pedological excursions
- Setting up a transition action project

French side: the site of Séolane (Barcelonnette, France) being perfectly adapted to this type of school (reception structure and low cost), this teaching centre was chosen for the first week of the school (with a day of pedological excursion). The second week, the rental of a minibus for 3 days will allow the pedagogical visits to be carried out. The last two days will be held at CEREGE.

Swedish side: Students located in Sweden will follow the lessons by videoconference. Mirror excursions will be organized in Sweden in Stockholm area.

Students from other CIVIS universities could also follow the lessons given by videoconference.

Scientific content

Soil and organic matter: what’s new in research over the past 10 years?
- Soil OM, processes and dynamics: recent advances and major questions
- The entry of C into the soil by plants: aerial or underground?
- Soil fauna: first actors in the transformation of soil MOs
- Micro-organisms: a subtle balance between production and consumption of MO
High tech for the characterization of soil MOs

**Modeling: strengths and limitations**
- Modelling C dynamics in soils
- Modelling soil C in climate models

**Cycles and Stocks of C at different scales**
- Calculations and estimates: from field to territory
- State of play in agrosystems; what is the storage potential in France for the 4 per 1000?
- C cycle and biodiversity in Mediterranean forests (O3HP visit)
- Cryosols MO: what threat to the climate?

**Between fundamental and operational research**
- Life Cycle Assessment: a tool for circularity
- Coupling the circularity of C, N and P: an utopia?
- The contributions of experimental systems for the valorization of organic waste products
- OM inputs and collateral effects: trace metals, pathogens and antibiotic resistance
- Experimental sites on a European scale
- ADEME’s levers for action
- Regulations and soil C: what constraints for soil users
- Transition to "low carbon" agriculture: what changes in socio-territorial dynamics?

**The actors of circularity**
- The international 4 for 1000 initiative: in place since COP21
- Incentive actions in the framework of the low C label
- Transition industries: Recycling and recovery of green waste
- Fertilization and tillage in organic farming
- Soil and organic matter in PACA, life size
- The Terre&Cité Association and its carbon offsetting project in agricultural soils
- Pilot farm of the Durette (Avignon): at the heart of agro-ecology

**Autonomous project in groups of 4 (1 hr/day for the duration of the school) + presentation at the end of the session.**
- Imagine an action project to promote the 4 for 1000 by involving several types of actors in society (payment for ecosystem services, participatory science, low carbon approach, transfer research-actors or actors-research, regulation ...)

<table>
<thead>
<tr>
<th>Give the timeline of your initiative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create a summer school (doctoral school) in 2021, 2023, 2024.</td>
</tr>
</tbody>
</table>

Any other comments, info?

Initiate collaborations between two CIVIS universities on major social issues (climate change mitigation and food security); translate this collaborative initiative into concrete action. Minimize "CO2 costs" by combining face-to-face and videoconferencing.

**Partnership**

<table>
<thead>
<tr>
<th>Have you already identified partners from other members of the Alliance?</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ YES</td>
</tr>
<tr>
<td>☐ NO</td>
</tr>
</tbody>
</table>

If NO, would you like to have support to make contacts?

<p>| ☐ X YES |</p>
<table>
<thead>
<tr>
<th>☐ No</th>
</tr>
</thead>
<tbody>
<tr>
<td>What other CIVIS university do you intend to include to your initiative?</td>
</tr>
<tr>
<td>☐ Aix Marseille University</td>
</tr>
<tr>
<td>- University of Bucharest</td>
</tr>
<tr>
<td>- National and Kapodistrian University of Athens</td>
</tr>
<tr>
<td>- SAPIENZA Università di Roma</td>
</tr>
<tr>
<td>- Eberhard Karls Universität Tübingen</td>
</tr>
<tr>
<td>- Stockholm University</td>
</tr>
<tr>
<td>- Université Libre de Bruxelles</td>
</tr>
<tr>
<td>- Universidad Autónoma de Madrid</td>
</tr>
</tbody>
</table>

Identify the partners if you have them or give a brief description of who you are looking for.

- We already had some contacts with Stockholm University (contacted persons):
  - Stefano Manzoni, Department of Physical Geography, stefano.manzoni@natgeo.su.se (but too much work for him...)
  - Gustaf Hugelius, Department of Physical Geography, gustaf.hugelius@natgeo.su.se

We need support to identify partners.
You would like to start an initiative within CIVIS, the European university Alliance? Fill in this brief form, it will enable the coordination team to efficiently support and redirect you if needed and also to put you in touch with partners within the other CIVIS universities.

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<tr>
<td>Name of your department/faculty/research entity...</td>
<td>Faculty of Economics and Business Department Aix Marseille School of Economics (AMSE)</td>
</tr>
<tr>
<td>Name/Surname</td>
<td>Karine Gente</td>
</tr>
<tr>
<td>Function</td>
<td>Professor of Economics, Head of international relations FEG</td>
</tr>
<tr>
<td>E-mail address</td>
<td><a href="mailto:karine.gente@univ-amu.fr">karine.gente@univ-amu.fr</a></td>
</tr>
<tr>
<td>Phone number</td>
<td>+33 6 25 44 52 01</td>
</tr>
<tr>
<td>Webpage</td>
<td><a href="https://sites.google.com/site/gentekarine/home">https://sites.google.com/site/gentekarine/home</a></td>
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**If relevant, what CIVIS scheme do you foresee to use for the implementation of your initiative?**

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<td>☐ Other. Please specify</td>
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</table>

Briefly present your initiative, its objectives and foreseen impact.

We would like to create a european degree between the Master of Economics (entirely in English) and Master of Economics of CIVIS partners, ideally 3. Our master of Economics has 2 tracks related
to environment, and a third one where students learn data science techniques that could be applied to environmental issues:

- The Economic Policy Analysis track, where we have classes on project management, and public policy evaluation which focus on environment issues.
- The Economic and Theoretical Analysis track where we have more research oriented classes dedicated to environmental economics.
- The Econometric, Big Data and Statistics track, where some applied classes can easily focus on environmental questions.

Through these combined multiple degrees we could imagine a European Diploma in Economics where the students have to cumulate a total of 120 credits taken among the 4 CIVIS partner universities. These classes can be followed in attendance or even virtual. Due to Covid, we are now able to run virtual classes.

If the initiative is not required to focus on environment for the European diploma, we also have a Master in Finance. The idea would be that the AMU credits could be taken within these 2 Masters (Economics and Finance) if suitable.

We already run every year a summer school where we welcome foreign professors (from foreign universities) to teach during one week. The first edition was on the Search and Matching issue 2 years ago, the second one has been postponed to next summer due to Covid19 and will deal with network analysis. We would like to plan the 2022 summer school issue around environmental economics.

| Give the timeline of your initiative |
| Create a double degree asap and a summer school on environmental economics in 2022. |
| Any other comments, info? |
| We have now material to register our classes and share it in a virtual program for example. |

**Partnership**

| Have you already identified partners from other members of the Alliance? |
| YES |
| X NO |

If NO, would you like to have support to make contacts?

| X YES |
| NO |

What other CIVIS university do you intend to include to your initiative?

- X Aix Marseille University
- University of Bucharest
- National and Kapodistrian University of Athens
- X SAPIENZA Università di Roma
- X Eberhard Karls Universität Tübingen
- X Stockholm University
- Université Libre de Bruxelles
Identify the partners if you have them or give a brief description of who you are looking for

<table>
<thead>
<tr>
<th>X Universidad Autónoma de Madrid</th>
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</table>
We already had some contacts with Madrid, La Sapienza and Stockholm for other initiatives of cooperation in economics. Our potential contacts are: in Stockholm, Jonas Häckner, Professor from the Department of Economics at Stockholm University; in La Sapienza, Ida Claudia-Panetta ida.panetta@uniroma1.it. We already started discussions with Tubingen with Amrei Nensel (amrei.nensel@uni-tuebingen.de).
You would like to start an initiative within CIVIS, the European university Alliance? Fill in this brief form, it will enable the coordination team to efficiently support and redirect you if needed and also to put you in touch with partners within the other CIVIS universities.

**Contact details**

<table>
<thead>
<tr>
<th>Name of your university</th>
<th>Aix Marseille University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of your department/faculty/research entity...</td>
<td>1) IRFM, CEA</td>
</tr>
<tr>
<td></td>
<td>2) Faculty of sciences, Laboratory: Physique des Interactions Ioniques et Moléculaires</td>
</tr>
<tr>
<td>Name/Surname</td>
<td>Christian Grisolia (CEA), Yannick Marandet</td>
</tr>
<tr>
<td>Function</td>
<td>Senior scientists</td>
</tr>
<tr>
<td>E-mail address</td>
<td><a href="mailto:Christian.GRISOLIA@cea.fr">Christian.GRISOLIA@cea.fr</a></td>
</tr>
<tr>
<td>Phone number</td>
<td></td>
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</tbody>
</table>

**Link to CIVIS**

- Which of the global themes of CIVIS does your initiative relate to?
  - X Climate, Energy, Environment
  - X Health
  - X Society, Culture, Heritage
  - X Digital & Technological Transformations
  - X Cities, Territories, Mobility

- If relevant, what CIVIS scheme do you foresee to use for the implementation of your initiative?
  - ☒ Short term mobility
  - ☒ Virtual and blended mobility
  - ☐ Open Labs
  - ☐ Hubs Workshop
  - ☒ Summer School

**General information**

- What will be the nature of your initiative?
  - ☐ Training
  - ☐ Seminar
  - ☐ Conference
  - ☐ Study visit
  - ☐ Other. Please specify

- ☒ Summer School

Briefly present your initiative, its objectives and foreseen impact.
The Tritium School has been organised in the frame of the H2020/TRANSAT project (TRANSAT-TRANSversal Actions for Tritium, http://transat-h2020.eu/). Within the framework of Euratom research and innovation programme, TRANSAT is contributing to Research and Innovation on cross-cutting activities required to improve knowledge on tritium management in fission and fusion facilities. TRANSAT is an interdisciplinary project aiming to answer the main following challenges: tritium diagnostics development, tritium permeation/trapping in material, tritium release mitigation strategies, waste management improvement and refinement of the knowledge in the field of radiotoxicity, radiobiology and dosimetry.

The proposed school comprised four days of tutorial lectures, followed by contributed talks that cover all the aspects of tritium current open issues. Experts in the field of fusion and fission from all around the world held lectures on different topics related to tritium such as tritium detection, management, control, retention and waste. One day is especially dedicated to radiotoxicity, ecotoxicity and dosimetry of tritium in organisms, which is one of the major aspects to be addressed and studied. This school is dedicated to PhD students and researchers starting in the field of tritium studies. It has to be pointed out that tritium is an important topic related to fusion reactor as ITER since on the ITER site 3 Kg of tritium will be stored for the tokamak operation.

The first tritium school was held in Slovenia in 2019 (see annex).

It is a will of the TRANSAT project that this event will be organised in the future close to the ITER project Under the responsibility of AM

<table>
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<tr>
<th>Give the timeline of your initiative</th>
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<tbody>
<tr>
<td>Create a summer school in 2022, 2023, 2024.</td>
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</tbody>
</table>

<table>
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<tr>
<th>Any other comments, info?</th>
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</table>

The tritium school is an interdisciplinary event. In 2021, it will be supported by AMU EDs (352 and 251). Both ED will include the tritium school as an opportunity of formation for their PhD students.

**Partnership**

Have you already identified partners from other members of the Alliance?

☑ YES
☐ NO

If NO, would you like to have support to make contacts?

☐ X YES
☐ NO

What other CIVIS university do you intend to include to your initiative?

☐ Aix Marseille University
☑ University of Bucharest
☐ National and Kapodistrian University of Athens
☑ SAPIENZA Università di Roma
☐ Eberhard Karls Universität Tübingen
☐ Stockholm University
☐ Université Libre de Bruxelles
☑ Universidad Autónoma de Madrid

Identify the partners if you have them or give a brief description of who you are looking for
We already had some contacts with Madrid and Bucharest for organisms that are associated to both universities (even if not directly included.) We need support to identify partners.
CALL FOR HUB 1 ACTIVITIES

Title of the proposed activity:

**CIVIS master in Nanosciences and Nanotechnologies**

Participant universities: Aix-Marseille University, University Roma La Sapienza, University Autonomous of Madrid, University of Tubingen

Participant academics (indicating university, department, e-mail) ……………

Dr. Fabienne MICHELINI, University of Aix-Marseille, Physics Department, email: fabienne.michelini@univ-amu.fr

Prof. Sabrina SARTO, University La Sapienza of Rome, Astronautics, Electrical, Energy Engineering Department, Research Center for Nanotechnology applied to Engineering, email: mariasabrina.sarto@uniroma1.it

Prof. Hermann SUDEROW, University Autonomous of Madrid, Physics Department, email: hermann.suderow@uam.es

Dr. Üner Kolukisaoglu, University of Tübingen, ZMBP-Plant Physiology, email: uener.kolukisaoglu@zmbp.uni-tuebingen.de

Kind of activity:

- **Individual courses**
  - Virtual mobility courses/modules
  - Short courses/workshops (1-2 ECTS)
  - Summer School
  - Workshops/Days

- **Terms/semesters**
  - Erasmus research exchanges/traineeships
  - Independent projects (e.g. joint supervision of thesis work)
  - Erasmus-term semesters (30 ECTS)

- **Various**
  - Other (please elaborate): A CIVIS master degree implementing semester exchanges and double/joint degrees in between the participant universities in order to set-up a master inside CIVIS in the field of Nanosciences and Nanotechnologies

Capacity (total # of participants):

*we are expecting around 4 students for this international program in each partner university*

Brief description of the activity (Aims and Scopes, content, etc):

*Following the overarching goal of European universities to develop opportunities for their students to travel, study, work and live at the scale of Europe, the universities of Aix-Marseille, Roma la Sapienza, Autonoma di Madrid, and Tübingen are working on the project of creating a joint degree from the master degrees existing in CIVIS in the field of nanoscience*
and nanotechnologies. The aimed training will be implemented through the master’s programs proposed in each university:

Aix-Marseille University

University la Sapienza of Rome
https://corsidilaurea.uniroma1.it/en/corso/2019/30429/programmazione/?guid=2e52b661-cef5-46f0-bb1b-f70f327a202d

The Autonomous University of Madrid
http://www.masternanobio.es/nanophysics/, and other potential master formations
http://matavanz-uam.000webhostapp.com/
http://www.icmol.es/master/nano/

The University of Tübingen
https://uni-tuebingen.de/en/study/finding-a-course/degree-programs-available/nano-science-master/#profile1

In practice, this European formation could consist in developing:

- Exchange of student for at least one semester,
- Mobility of professor to teach lectures in partner universities (hybrid courses),
- Master thesis with joint tutorship, towards co-supervised PhD.

A strong related objective is indeed to develop the link between training and research at a European scale.

Scheduled time (if flexible, please write “flexible”): the project will start in September 2021

Other remarkable features of the proposal (interdisciplinary/multidisciplinary character; contribution to CIVIS goals; etc):

Nanoscience and nanotechnology is intrinsically an interdisciplinary science, which develops at the crossroads of several disciplines ranging from theoretical physics to solar creams (that include metallic nanoparticles for their optical properties).

Indeed, the motivation of this European formation inside CIVIS is to combine several programmes (see paragraph 2) to enhance the area of nanoscience and nanotechnology covered in each university partner, and thus strengthen the skills of our students in this field.
CALL FOR HUB 1 ACTIVITIES

Title of the proposed activity:

**International Summer School on Nanosciences and Nanotechnologies, NanoSum**

Participant universities:

*Aix-Marseille University, University La Sapienza of Rome, University Autonomous of Madrid, and University of Barcelona*

Participant academics (indicating university, department, e-mail) ...For CIVIS

Dr. Fabienne MICHELINI, University of Aix-Marseille, Physics Department, email: fabienne.michelini@univ-amu.fr

Prof. Sabrina SARTO, University La Sapienza of Rome, Astronautics, Electrical, Energy Engineering Department, Research Center for Nanotechnology applied to Engineering, email: mariasabrina.sarto@uniroma1.it

Prof. Hermann SUDEROW, University Autonomous of Madrid, Physics Department, email: hermann.suderow@uam.es

Dr. Sergi Hernandez, Universitat de Barcelona, Facultat de Fisica, Dept. Eng. Electronica i Biomedica, email: shernandez@ub.edu

Kind of activity:

- Individual courses
- Short courses/workshops (1-2 ECTS)
- Summer School – Two weeks
- Workshops/Days

Terms/semesters

- Erasmus research exchanges/traineeships
- Independent projects (e.g. joint supervision of thesis work)
- Erasmus-term semesters (30 ECTS)

Various

- Other (please elaborate): ................................

Capacity (total # of participants): ......160........

Brief description of the activity (Aims and Scopes, content, etc): .................

*The activity we propose is the NanoSum AMIDEX project of international summer school on Nanoscience and Nanotechnologies, labelled NanoSum.*

*This project started in 2018 with the overarching objective of proposing the first summer school of Nanoscience and Nanotechnologies on the north-Mediterranean basin, merging the strengths and expertise of the four universities of Barcelona, Autonoma di Madrid, Roma la Sapienza, and Aix-Marseille.*
In a nutshell, the NanoSum school will take place in the area of Aix-Marseille, in residential, in July 2021. The NanoSum school will offer courses and seminars in English at the state-of-the-art, promoting exchanges between participants during poster and round table sessions, visit of labs, speed-dating with professionals from the academic and industrial sectors, and social events.

The school is indeed divided in two weeks of increasing level. The programme format is given in Annex 1.

• Week 1 of beginner level, education-oriented, including key interactions between students and actors of academic and industrial sectors. This week corresponds to the CIVIS school.
• Week 2 of expert level, research-oriented, with a strong emphasis on the excellence of the invited keynote speakers.

Part of courses and research seminars will highlight the expertise of the 4 universities. The other part will be given by high track-record recognized international experts in Nanoscience & Nanotechnology.

Scheduled time (if flexible, please write “flexible”): 5th -16th of July 2021

Other remarkable features of the proposal (interdisciplinary/multidisciplinary character; contribution to CIVIS goals; etc): ...........................................

The school foresees to dedicate a half-day to Nanoscience, Environment and Society, including issues related to the role of nanotechnologies in the environmental transition. The master Nanoscience and Nanotechnologies of AMU has already established contact and teaching with researchers of CEREGE (https://www.cerege.fr).

Finally, the CIVIS school will include an entire day dedicated to the relation between students and socio-economical actors. The objective is to promote the autonomy of students toward their professionalization, by exchanging with actors of academic and industrial sectors. This day will be split into a half-day of seminars given by industrialists, and an afternoon that will take the form of a speed-dating between academic and industrial actors and students who could ask questions, present their ideas, projects...

The school will promote exchanges between participants using the context of

• poster sessions,
• round tables,
• visit of research units of Aix-Marseille University,
• speed-dating with professionals from the academic and industrial sectors.