



ALCUE NET

Latin America, Caribbean and European Union Network on Research and Innovation



Capacity building opportunities in Horizon 2020 and Erasmus +

ALCUE NET / CORDEX workshop, Bogota, 23 September 2015





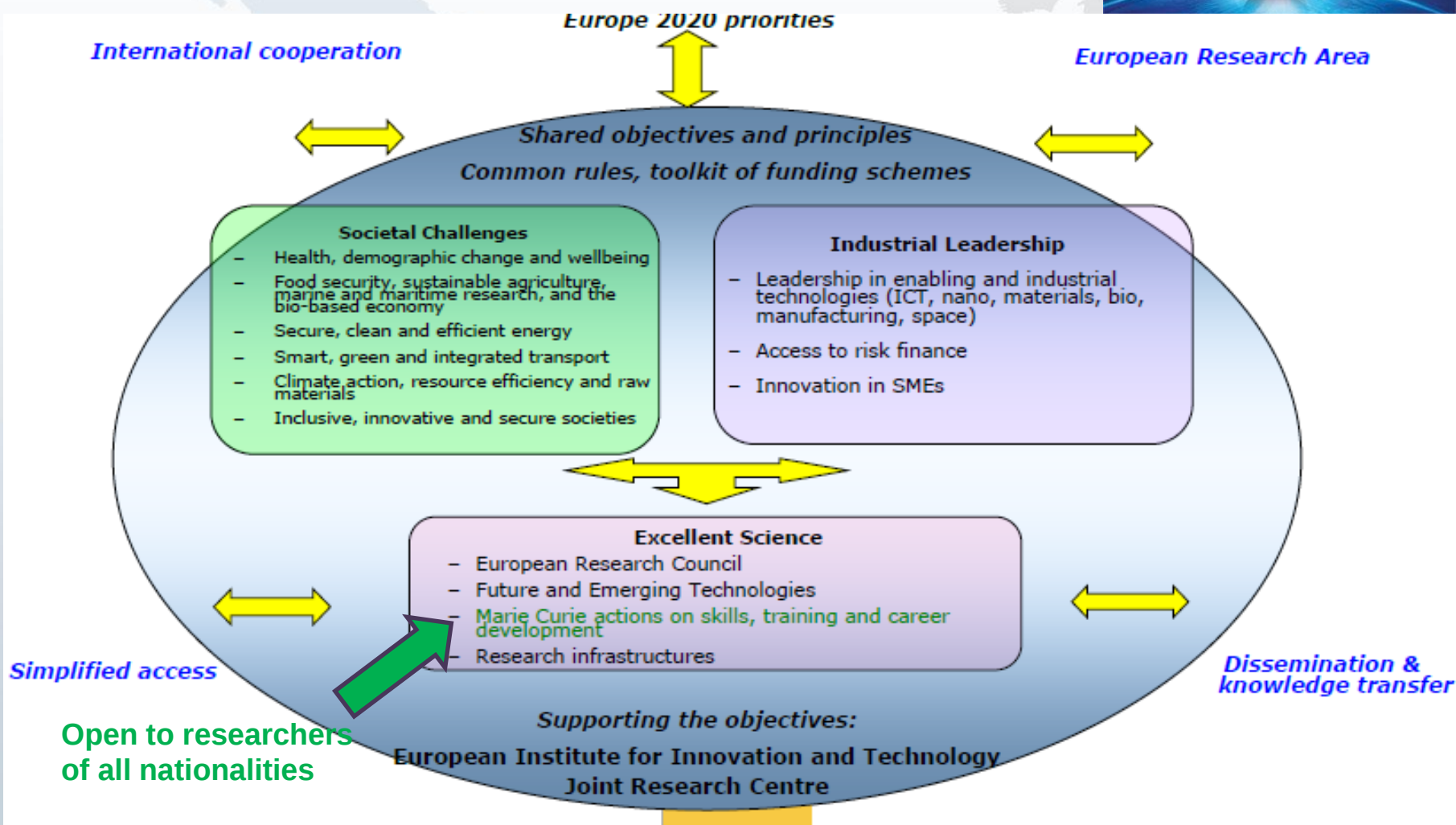
European Union framework
programme for Research and
Innovation

**Marie Skłodowska Curie Actions
(MSCA)**



European Union framework
programme for Education and
Training

**Erasmus Mundus Joint Master
Degrees (EMJMD)**





OBJECTIVES of MSCA:

New skills, Knowledge and Innovation

- Fostering new skills through excellence in **initial training** of researchers
- Open to all domains of research and innovation **from basic research up to market take-up** and innovation services = **Bottom-up** approach
- Nurturing **excellence** through cross-border and cross-sector **mobility**
- Stimulating partnerships between the **academic and non academic** sectors (in particular industries and SME)
- Types of projects:
 - » **Individual fellowships**
 - » **or**
 - » **Collaborative projects** (at least 3 partners from 3 European countries – Above this, third countries partners can be included)



Horizon 2020 – Marie Skłodowska curie Actions

4 ACTIONS:

Acronym	Name
ITN	Innovative Training Networks
IF	Individual Fellowships
RISE	Research and Innovation Staff Exchanges
COFUND	Co-Funding of Regional, National and International Programmes



ITN: Innovative Training Networks

What?	Who applies?	Who is funded?
High-quality research training delivered through international and interdisciplinary networks, industrial doctorates or joint doctorates Duration: 4 years Recruitment / Fellowships duration: 3 – 36 months	International networks of research organisations from the academic and non-academic sectors	Researchers at doctoral level (less than four years of full-time research experience and no doctoral degree)

Next Calls: 12 January 2016 (370 M €)

ITN: Innovative Training Networks

Type of ITN	Inter-sectorial approach (academic and non academic)
ETN – European Training Networks	At the highest possible level
EID – European Industrial Doctorate	Mandatory (min. one academic and one non-academic partners)
EJD – European Joint Doctorate	At the highest possible level

MAXIMUM 15 thesis per project (540 person/months)

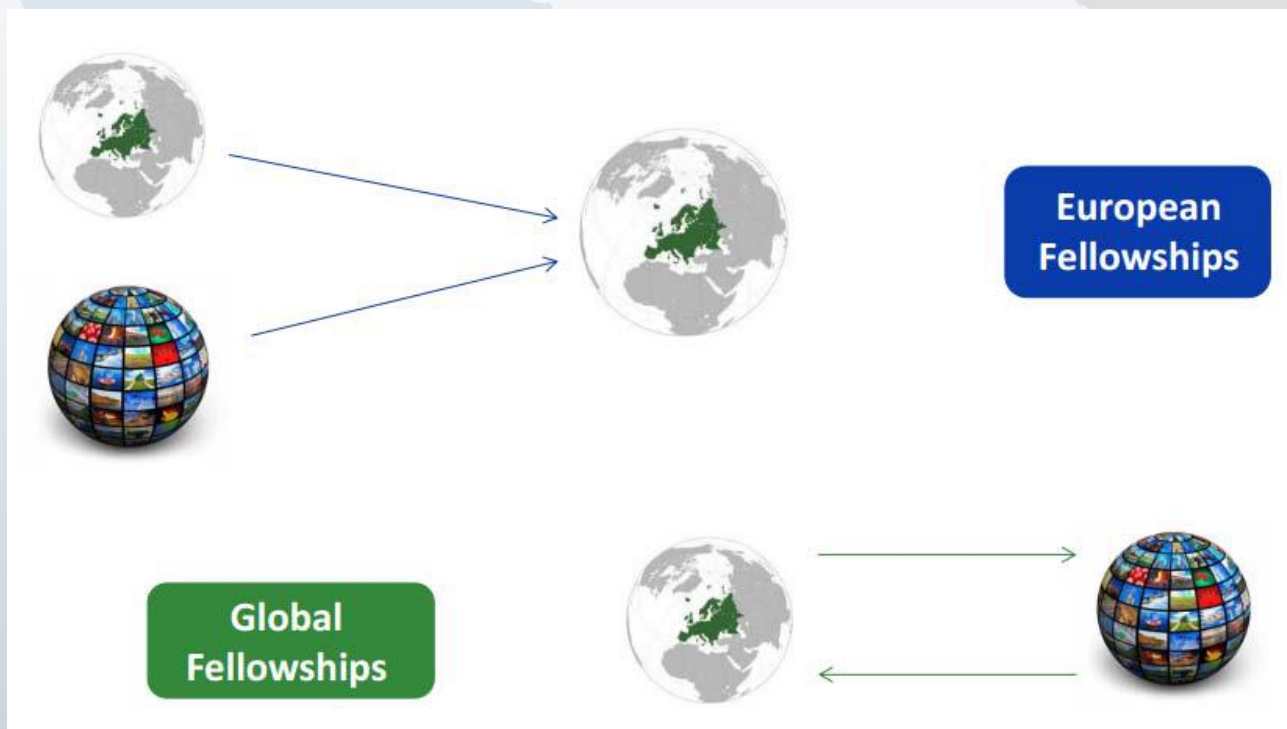


IF: individual Fellowships

What?	Who applies?	Who is funded?
Opportunities to work on personal research projects by moving between countries (to a EU country for non EU applicants) and possibly sectors to acquire new skills Duration: 12 to 36 months	Individual researchers together with the host organisation (supervisor from an organisation located in Europe)	Postdoctoral researchers of any country

Next Calls: 18 September 2016 (218 M €)

IF: individual Fellowships





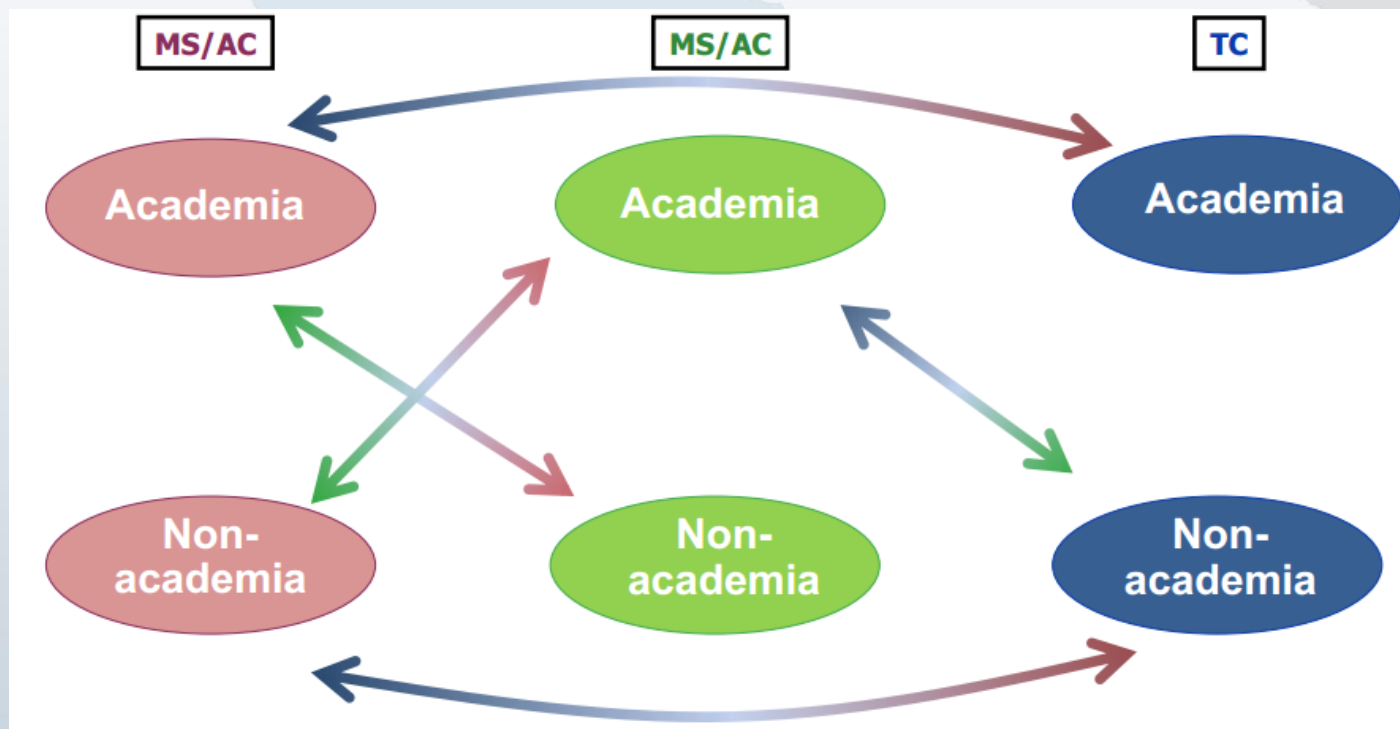
RISE: Research and Innovation Staff Exchange

What?	Who applies?	Who is funded?
Short exchanges of staff members involved in research and innovation to develop sustainable collaborative projects and the transfer of knowledge Duration: 4 years Secondments: 1 – 12 months	International networks from the academic and non-academic sectors (universities, research centers of companies)	Researchers, technical, administrative and managerial staff of any nationality and at all career levels

Next Call: 28 April 2016 (80 M €)



RISE: Research and Innovation Staff Exchange



TC = Third Country

MS = EU Member State

AC = EU Associated Country



Secondments from a TC to a MS/AC are not always eligible for EU funding but all of them must be described in the proposal.



Example of Research and Innovation Staff Exchange (RISE)

ODYSSEA - Observatory of the Dynamics Of Interactions Between Societies And Environment in the Amazon

- **ODYSSEA** is an international and inter-sectoral network of organizations that aims to contribute in the production of operational knowledge and innovative tools helping to the design of **more effective public policy instruments for sustainability in the Amazon basin**.
- **Partners:** **10 European** (IRD, CIRAD, Lancaster Univ, Tropical research institute of Portugal... + SMEs) and **9 Brazilian partners** (UnB, EMBRAPA, INPA, UFAM, Fiocruz...)
- **Duration:** 4 years **Budget:** 1.7 M€
- **Objective: Sustainability in the Amazon Basin**
 - To produce operational knowledge and **innovative tools** on digital information, monitoring and consultation engineering
 - To design of more **effective public policy instruments**
 - to promote new **skills and perspective careers** for Europeans and Brazilians



COFUND: Co-funding of Regional, National and International Programmes

What?	Who applies?	Who is funded?
Regional, national or international programmes to foster excellence in researchers' training, mobility and career development Duration: 36 to 60 months	Organisations funding or managing doctoral programmes or fellowship programmes	Researchers at doctoral and postdoctoral level

Next Calls: 29 September 2016 (80 M €)



Horizon 2020 and Erasmus +



European Union framework
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**Marie Skłodowska Curie Actions
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European Union framework
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Training

Joint Master Degrees



Erasmus Mundus Joint Master Degrees

Joint Master Programmes of **excellent quality** offered by a consortium of Universities to **attract the very best students worldwide**



➔ Erasmus Mundus Joint Master Degrees are:

Highly integrated international master programmes

- That lead to the award of fully recognised **joint or multiple degrees**
- Open to **other types of organisations** (enterprises, public bodies, NGOs...)
- Indicative budget per project: **3M euros**
- **Duration:** 1 preparatory year + **3 intakes** (4 – 5 years max)



➡ Erasmus Mundus Joint Master Degrees Consortium and Financial Support

- **Minimum consortium composition:** at least **3 High Education Institutions** from at least **3 European Countries**. Above this, partners from **third countries** are allowed to participate
- Open **to Public and Private** organisations

The financial support will be awarded for:

- **management of the consortium** for 3 consecutive intakes
- **invited scholars/guest lecturers** contributing to the EMJMD
- High level **students scholarships**



Additional Award Criteria for Additional Scholarships

The applicants may apply for **additional scholarships** for one or more **regions / sub regions / countries** of the world:

Asia, Central Asia, Middle East, South Africa, Latin America, Eastern - Southern neighbours, Gulf countries

→ **Additional award criteria: Relevance of the project in the targeted region**



Examples of Joint Master Degrees

- **WACOMA: Master Erasmus Mundus in Water and Coastal Management**
 - **Consortium:** Universidade do Algarve, **Portugal**; Alma Mater Studiorum Universita di Bologna, **Italy**; Unisanta, **Brasil**; Ningbo University, **China**; Russian state hydrometeorological University, **Russia**
- **TROPIMUNDO: Erasmus Mundus Masters Course in Tropical Biodiversity and Ecosystems**
 - **Consortium:** Université Libre de Bruxelles, **Belgium**; Vrije Universiteit Brussel, **Belgium**; Sorbonne Université, **France**; Museum National d'Histoire Naturelle, **France**; Università degli Studi, Firenze, **Italy**; Université de Dschang, **Cameroon**; Institut Oseanografi dan Sekitaran, **Malaysia**; Universidad Científica del **Peru**; University of Queensland, **Australia**
- **IMAE: International Master in Applied Ecology**
 - **Consortium:** Université de Poitiers, **France**; Universidade de Coimbra, **Portugal**; University of East Anglia, **UK**; Christian-Albrechts Universität, **Germany**; Universidade Federal do Rio Grande do Sul, **Brasil**; Universidad San Francisco de Quito, **Ecuador**; University of Otago, **New Zealand**; University of Adelaide, **Australia**; University of Georgia, **Greece**
- **GroundwatCH: Groundwater and Global Change – Impacts and Adaptation**
 - **Consortium:** University of Lisbon, **Portugal**; UNESCO-IHE Institute for Water Education; Technische Universität Dresden, **Germany**; Universidade de Antioquia, Medellín, **Colombia**; China University of Geosciences, Beijing; Nelson Mandela African Institute of Science and Technology, **South Africa**; Makerere University, Kampala, **Uganda**; Université Cadi Ayyad, Marrakesh, **Morocco**.



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Example of Erasmus Mundus Joint Master Degree

TROPIMUNDO

Erasmus Mundus Masters Course in Tropical Biodiversity and Ecosystems

Consortium: Université Libre de Bruxelles, **Belgium**; Vrije Universiteit Brussel, **Belgium**; Sorbonne Université, **France**; Museum National d'Histoire Naturelle, **France**; Università degli Studi, Firenze, **Italy**; Université de Dschang, **Cameroon**; Institut Oseanografi dan Sekitaran, **Malaysia**; Universidad Científica del **Peru**; University of Queensland, **Australia**





TROPIMUNDO

Erasmus Mundus Masters Course in Tropical Biodiversity and Ecosystems

- > Teaching will be provided in different European universities and one semester in Peru, Cameroon, Malaysia or Australia (theoretical + field courses) = **MULTIPLE DEGREES**
- > **Multiple specialisations:** evolution of tropical flora, informatics tools to treat and manage biodiversity data (biogeographical, genetical, GIS), dynamics of tropical ecosystems, restoration ecology, sustainable management of biodiversity, conservation of traditional ecological knowledge...
- > **Link to the professional world with multiple associated partners:** NGOs, scientific institutes, public authorities... To advertise the program, to provide or to communicate jobs, internships or thesis perspectives and scholarships and to assist in evaluating the programme.





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General information on Marie Skłodowska Curie Actions:
<http://www.horizon2020.gouv.fr/pid29758/actions-marie-sklodowska-curie.html>



Erasmus+

General information on Joint Master Degree:
https://eacea.ec.europa.eu/erasmus-plus/actions/key-action-1-learning-mobility-individuals/erasmus-mundus-joint-master-degrees_en

Scholarships' catalogue
https://eacea.ec.europa.eu/erasmus-plus/actions/key-action-1-learning-mobility-individuals/joint-master-degrees/scholarships_en

Horizon 2020 opportunities on biodiversity and climate change



Presentation by Christos Fragakis – DG Research and Innovation
(European Commission)

« Opportunities for cooperation on biodiversity and climate change in
Horizon 2020 Calls for proposals »



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Opportunities for cooperation on biodiversity and climate change in Horizon 2020 Calls for proposals

Priority thematics in **Horizon 2020 Societal Challenge 5** in the area of **Climate action, environment, resource efficiency and raw materials**:

- Nature Based Solutions (NBS) for territorial resilience
- Climate services
- Toward a low-carbon Europe
- Water
- Raw materials Earth Observation
- Cultural heritage for sustainable growth



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Horizon 2020 opportunities on biodiversity and climate change

Opportunities for cooperation on biodiversity and climate change in Horizon 2020 Calls for proposals

Nature Based Solutions (NBS) for territorial resilience:

NBS concept refers to the use of nature in **tackling challenges** such as climate change, food security, water resources or disaster risk management.

These NBS could address major challenges such as:

- Re-naturing and greening cities
- Restoring degraded ecosystems
- Adapting to climate change
- Improving human health and well being
- Reducing disaster risk
- Guiding land use management
- Etc.



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Opportunities for cooperation on biodiversity and climate change in Horizon 2020 Calls for proposals

Climate Services

The transformation of climate-related data – together with other relevant information – into customised products such as projections, forecasts, information, trends, economic analyses, assessments (including technology assessments), counselling on best practices, development and evaluation of solutions and any other service in relation to climate that may be of use for the society at large.

Objective: To improve resilience to climate change by strengthening the **global market for demand-driven climate services** for both climate change mitigation and adaptation needs.

Supported by the implementation of a **Roadmap for Climate Services to 2050, based on IPCC 5th report**



Horizon 2020 opportunities on biodiversity and climate change for 2016 – 2017 work programme

Nature-Based Solutions (NBS) for territorial resilience:

SC5-08-2017: *Large scale demonstrators on NBS for hydro-meteorological risk reduction*

SC5-09-2016: *Operationalising insurance value of ecosystems*

SC5-10-2016: *Multi-stakeholder dialogue platform to promote innovation with nature to address societal challenges*

Climate Services:

SC5-01-2016-2017: *Exploiting the added value of climate services*

SC5-02-2017: *Integrated European regional modelling and climate prediction system*

SC5-03-2016: *Climate services market research*

SC5-04-2017: *Towards a robust and comprehensive greenhouse gas verification system*

SC5-05-2016: *A 1.5 million year look into the past form improving climate predictions*

Smart and Sustainable cities:

SCC-1-2014-2017: *Smart Cities and Communities lighthouse projects*

SCC-02-2016-2017: *Demonstrating innovative nature-based solutions in cities*

SCC-03-2016: *New governance, business, financing models and economic impact assessment tools for sustainable cities with nature-based solutions (urban re-naturing)*

SCC-014-2016: *Sustainable urbanisation - with JPI Urban*

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Thank you for your attention!

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www.alcuenet.eu

ALCUE NET is funded by the European Commission under the 7th Framework Programme.