OFICINA DE COOPERACIÓN INTERNACIONAL

Teléfonos: 506-9696 / 97 Fax.: 506-9698/www.municipio.gob.pa

Informe Sustantivo de Misión Oficial en el Exterior

Cargo: Director de Resiliencia Nombre del funcionario(a) Arturo Dominici Arosemena No Plan

Cédula: 8-425-228 N° Posic. 29543

Fecha de la Misión: 20 al 24 de mayo 2018 Desde: 20 de mayo 2018 Hasta: 24 de mayo 2018

País: Bruselas, Bélgica

Sostenible, sobre cómo Restaurar y Rehabilitar mejor los Ecosistemas Urbanos" Caribeño y la Unión Europea (CELAC-UE) y Seminario sobre Retos para la Cooperación CELAC-UE en Urbanización Misión Oficial: Taller de Urbanización Sostenible organizado por la Comunidad de Estados Latinoamericanos y

INFORMACIÓN SUSTANTIVA

 Presentar posibles actividades e iniciativas para impulsar la cooperación bi-regional en los próximos meses antes de la creación de un grupo de trabajo UE-ALC sobre urbanización sostenible. Establecimiento de un grupo de trabajo bi-regional sobre urbanización sostenible. Discutir oportunidades de investigación e innovación enfocadas en infraestructura y soluciones naturales. Explorar experiencias sobre como las soluciones naturales mejoran la calidad de los ecosistemas y los servicios ambientales que aportan a los ciudadanos en términos de regulación hídrica, restauración de las condiciones naturales de infiltración del suelo y reducir la contaminación en las ciudades. Discutir temas como secuestración de carbono y medidas para el incremento de la biodiversidad
Sobre urbanización soste Sesión Discutir oportunidades o enfocadas en infraestruo experiencias so naturales mejoran la cal servicios ambientales qua términos de regulación en las objectir temas como seconedidas para el incremental con medidas para el incremental con la contaminación en las objectivos de la contaminación en las objec
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2. Resultados (Valor								
Sesión del 22 de mayo	región.	como de la Unión Europea, incluyendo los retos para la	que manejan distintos actores tanto de América Latina	 Revisión de los puntos de vista de las políticas públicas 	beneficios a la salud de la población.	naturales, promoviendo la inclusión social y los	 Revisión de los impactos positivos de las soluciones 	

Agregado en el desempeño de su cargo)

- Se identificaron y priorizaron áreas de la agenda estratégica de regional para la urbanización sostenible. Investigación e Innovación, con oportunidades de cooperación bi-
- convocatorias conjuntas UE-ALC para propuestas de investigación Se establecieron los próximos pasos para la realización de seguimiento a revisión de la experiencia de esta actividad y las resiliencia a lanzarse en agosto del 2018, se acuerda dar sentido, luego de presentarlas áreas de trabajo de la estrategia de intercambio de personal de corto a mediano plazo. En este asociaciones, visitas de intercambio y posibles programas de propuestas en temas de resiliencia con apoyo de la SENACYT. posibles oportunidades para participación de elaboración de desarrollo, conferencias internacionales, desarrollo de
- prioridades e iniciativas de Investigación y desarrollo nacionales y Se estableció un intercambio de información sobre las políticas, mejores prácticas y enfoques innovadores. oportunidades de sinergias; mapeo, revisión y promoción de pertinentes a regionales de la Unión Europea y América Latina y el Caribe, urbanización sostenible, para identificar
- de Sendai para la Reducción del Riesgo de Desastres. En este descubrimiento del Análisis Preliminar de Resiliencia de la Ciudad natural; acceso a espacios verdes, mitigación y adaptación al participativa, integrada y cual permitió brindar un estudio de caso para poder definir de Panamá, con enfoque estratégico de su futura estrategia, lo sentido se toma como un ejemplo las distintas cambio climático, resiliencia a los desastres, en línea con el Marco temáticas para las distintas ciudades de la región. discutieron temáticas sostenible; patrimonio cultural y en temas como planificación áreas de
- Se generan insumos de interés para la estrategia de resiliencia de Ciudades Resilientes. coordinación de propuestas conjuntas con ciudades de la red 100 ciudad de Panamá y se acuerda revisar la posibilidad de
- periurbana. interesados y enfoques sistémicos para la planificación urbana y de creación de capacidades, inclusión social, participación de los urbanización sostenible, incluidas las cuestiones intersectoriales Se revisaron estudios de caso en el marco de soluciones para la
- sostenibles para compartir y difundir información, ampliar y interfaces Se discutieron ejemplos y metodologías para el desarrollo de ciencia-política-ciudades-personas, robustas

desarrollo de un enfoque municipal y regional orientado a la la América Latina y el Caribe. mejorar los resultados de los proyectos financiados, apoyar el formulación de políticas sobre urbanización sostenible en

Sesión del 23 de mayo

- . esto incluyen todas las temáticas e ideas discutidas en la reunión de interés de la región y el resultado de las consultas regionales, sostenible de la CELAC presentan el panorama general, los tópicos del día previo. En esta sesión los representantes del programa de urbanización
- 0 Esto aportó contactos de interés para futuras acciones de la de los sistemas de humedales como parte del desarrollo urbano. brindan presentaciones sobre el usos de la infraestructura verde Especialistas de entidades académicas estrategia de resiliencia. de la Unión Europea
- 0 agua, así como nuevos modelos para el monitoreo cuántico de los de las inundaciones, y los retos para el monitoreo de la calidad de retención de agua mediante el uso de materia orgánica, manejo Se brindaron presentaciones sobre otros temas de interés para la patrones hídricos. visualización del tráfico vehicular, eficiencia en los sistemas de resiliencia, como es el caso de nuevas metodologías para
- . insumos para la fase de implementación de la estrategia de Esta sesión aportó tanto con insumos técnicos como nuevos resiliencia v nuevas alianzas contactos con investigadores para la ejec y especialistas, esto brindará

3. Impacto en las funciones bajo su responsabilidad, será a: Corto PlazoX_	3. Impacto en las funciones bajo su responsabilidad, plazo_X Será a:
Impacto en las funciones Corto Plazo bajo su responsabilidad, PlazoX será a:	Impacto en las funciones corto Plazo Mediano Plazo X Será a:
Corto Plazo	Corto PlazoX Mediano PlazoX
	Mediano Plazo_X

PARA USO DE LA OFICINA DE FISCALIZAÇIÓN Vo. Bo (Máxima Autoridad Instituciona

Fecha: 19 de julio 2018

Presentado Por: Arturo Dominici Arosemena

Firma:

Cumple el término? Sí Z

Comentarios Sobre el Informe:

Fecha de Recibido

Firma del Fiscalizador

Observación: Cuando la modalidad esté relacionada con una capacitación, debe adjuntar copia del certificado que otorga el organismo respectivo Fundamento Legal: Artículo 264 de la Ley No 36 del 2 de Diciembre del 2014" Por la cual se dicta el Presupuesto General del Estado para la Vigencia Fiscal 2015"



CONSOLIDATING AN EU-LAC R&I DIALOGUE ON SUSTAINABLE URBANISATION AGENDA

BRUSSELS, 22 MAY 2018

VENUE: THON HOTEL EU, RUE DE LA LOI 75, 1040 BRUXELLES

ROOM: BELGIUM III

Chair: **Christos Fragakis**, deputy Head of Unit Sustainable Management of Natural Resources, DG Research and Innovation, European Commission

EU-LAC priorities for collaboration

	EU-LAC priorities for collaboration
09:00 - 09:30	Registration
09:30 - 09:50	Welcome introduction by the chair, tour de table and expectations of the participants
09:50 - 10:00	EU-LAC policy context – common challenges for R&I cooperation in Sustainable Urbanisation
	Adam Tyson , Head of International Cooperation with North America, Latin America and the Caribbean, DG Research and Innovation, European Commission
10:00 -10:10	Towards an EU-LAC R&I cooperation on Sustainable Urbanisation Christos Fragakis, Deputy Head of Unit Sustainable Management of Natural Resources, DG Research and Innovation, European Commission
10:10 - 10:30	The EU approach to innovating cities. Funding opportunities under the European Framework Programme for Research and Innovation – Horizon 2020
	Marie Yeroyanni and Emanuela De Menna, Sustainable Management of Natural Resources, DG Research and Innovation, European Commission
10:30 - 11:20	LAC R&I priorities on Sustainable Urbanisation presentation by Agustina Velo, MINCYT, followed by collective discussion, namely on critical issues and concrete actions under each priority; inclusion of socio-economic considerations;
11:20 - 11:35	Coffee Break
11:35 - 13:00	Presentation of LAC case studies (10 minutes each)
	 Development of the Resilience Strategy in Panama City (Estrategia de Resiliencia en la Ciudad de Panama) Lima, Peru; The water - food and energy nexus Mexico

13:00 - 14:00

Lunch break

ArgentinaChile

Mexico

Uruguay



Operationalizing EU-LAC collaboration

14:00 - 14:45 14:45 - 14:55 in cities; and the EU-Brazil Sector Dialogue on Nature-based Solutions: Presentation by EU projects with LAC participants Horizon 2020 projects on Nature-based Solutions for climate and water resilience DG Research and Innovation, European Commission Mina Stareva, International cooperation with Latin America Urbanisation Existing tools for EU-LAC international cooperation on Sustainable The EU-Brazil Sector Dialogue on NBS (Guilherme Wiedman) Horizon2020 Urban Green Up project (Raúl Sanchez) Horizon2020 UNALAB project (Isabel Pinto-Seppa)

14:55 -15:15 Presentation and discussion of the preliminary results and work done under the LAC SU Capacities inventory Agustina Velo, MINCYT

15:30 -15:30 16:30 and the works of the Task Force and possibilities for EU-support: collaboration, partnerships and networking on Sustainable Urbanisation with associated timeframe, responsible actor and deliverables - to facilitate led by Agustina Velo, (MINCYT), to collectively identify needs and a list of actions Coffee Break Discussion

15:15

Calendar of events Setting up of an EU-LAC SU information platform

Roadmap to guide the work of the Task Force

16:30 - 16:45

opportunities for next meetings and other events that LAC representatives might want to announce. Consider the creation of a shared calendar

16:45 17:00 - 18:00 1 17:00 Wrap-up and conclusions of the meeting Cocktail reception

CZ LO











Czech Liaison Office for Research, Development and Innovation in Brussels has the pleasure to invite you to a half-day event

Challenges for EU-CELAC cooperation in sustainable urbanization: how to better restore and rehabilitate urban ecosystems

23 May 2018

KoWi meeting room, Rue du Trone 98, Brussels

cooperation in the field of sustainable urbanization, in particular on Nature-based solutions. was made by the organization of an ALCUE-NET workshop in June 2017, hosted by Portugal, where experts and policy The topic of sustainable urbanization has been included in the EU-CELAC Common Research Area and SOM Joint Communiqué in the March 2017 as a common priority. The first step towards bi-regional cooperation on the issue from both CELAC and EU convened and discussed opportunities for Research and Innovation (R&I)

amenity value, enhanced social inclusion and improved health and life quality. provisioning and cultural services, resulting in positive impacts including improved urban landscapes, increased carbon sequestration and increase of biodiversity (NYC DEP, 2014). Nature-based solutions also add a large range of ecological and environmental services through reduced pollution, supporting the uptake of nutrients by vegetation, runoff, thus enhancing cities' climate proofing and mitigating water scarcity and flood problems, but also addressing flow regulation, this means, for example, restoring the original infiltration conditions of the soil and reducing urban Nature-based solutions allow improving the quality of ecosystems services delivered to citizens. In terms of water-

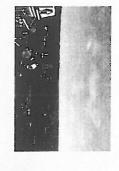
challenge for the Latin America and Caribe. The other speakers include representatives of RTD institutions based in Latin America, in Sweden and the Czech Republic. The seminar will present the policy view on the subject as well as stakeholders' views, including the discussion of the

















Time table

9:30 - 10:00Registration and welcome coffee

10:00 - 10:10 Introduction and scene setting

METCENAS, CZ Zuzana Boukalová

10:10 - 10:30Opening presentation - Sustainable Urbanization in CELAC: general overview of the regional consultation & topics of interest

MINCYT, Argentina Carlos Ereňo and Agustina Velo

11:00 Open debate

11:00 - 11:15The use of wetland systems in urban environment

Jan Vymazal

Czech University of Life Sciences, CZ

11:15 - 11:30Advanced visualisation and traffic volume new methods, how to improve transport in cities

Karel Charvát Czech Center ģ Science

and

Society, CZ

Efficient water retention in urban environment using stabile Lukáš Trakal

11:30 - 11:45

11:45 - 12:00Stakeholder presentation organic matter Czech University of Life Sciences, CZ

Fredrik Hallgren

Institute, SE IVL Swedish Environmental Research

12:00 -12:15 Flood risk management for sustainable urbanisation

Jonathan Simm

HR Wallingford, UK

Challenges for water quality Michal Kuráž

12:15 - 12:30 Sustainable urbanization: and quantity modelling

Czech University of Life Sciences, CZ

12:30 - 12:45Panel discussion

12:45 - 13:00Conclusions

The programme is followed by a networking lunch offered by CZELO.

http://geform.tc.cz/urbanization before 16 May 2018 participants are kindly requested to register 5 advance by completing the registration form at

from the Ministry of Education, Youth and Sports of the Czech Republic Czech Liaison Office for Research, Development and Innovation (CZELO) is financially supported by a grant (LT117010)









March, Brussels countries — Preparation for the workshop on sustainable urbanisation on 22nd Background paper on thematic priorities and national capacities of the LAC

Introduction and background

challenges of common interest to both regions, the EU and the Latin America and the Caribbean area (CRA). The CRA will identify and promote bi-regional collaboration in R&I to address global the Joint Initiative for Research and Innovation by envisioning an EU-CELAC Common research Commissioner for Research, Science and Innovation, Carlos Moedas appreciated the advances in context and during the EU-CELAC¹ academic summit in June 2015 in Brussels, the EU Promoting international cooperation in R&I is one of the overarching objectives for the EU. In this

Therefore, urban issues will be increasingly important in the global agenda in the coming decades. estimated that, by 2050, up to 70% of the world's population will be living in urban areas. One of the most urgent global challenges of the 21st century is mass urbanisation, since it is

becoming more urgent and often (Oropeza Perez 2017). government and civil population. Thereby, different strategies have risen since the challenges are with the threat of the global warming, these necessities turn into a challenge to be faced by the improved living conditions is increasing as well, especially in the metropolitan areas. Therefore, being and health, social equality, the needs for food, water, energy, affordable housing and priority for the LAC countries. Moreover, other challenges such as disaster risk reduction, well-Hence, the efforts for climate change adaptation and mitigation over urban areas become a climate change on urban and peri-urban areas might be higher than other areas such as the rural. Janeiro, Lima, Bogota and Santiago) live, in total, more than 100 million people. The impacts of population over 1 million. In only 7 of these areas (Mexico City, Sao Paolo, Buenos Aires, Rio de LAC countries also face the raise of big urban agglomerations, with 64 metropolitan areas with a making Latin America the world's most urbanized region (in comparison, the EU is 74% urbanized). More specifically, more than 80% of population in Latin America and the Caribbean (LAC) is urban,

with the Sustainable Development Goals (SDGs), particular SDG 11. EU-LAC Common Research Area in 2016 for cooperation in R&I between the two regions, aligned Innovation (SOM) endorsed Sustainable Urbanisation (SU) as a common priority theme within the Considering this background situation, the EU-CELAC Senior Officials Meeting in Research and

close cooperation with the CELAC Pro Tempore Presidency invited interested countries from LAC cooperation in the field of SU, in particular on Nature-Based Solutions (NBS). As a result, the EC in objective of the workshop was to identify opportunities for Research and Innovation (R&I) in June 2017 in Portugal, organized in the frame of the EU-funded project ALCUE NET². The A first step towards bi-regional cooperation on SU was made with the organization of a workshop

¹ CELAC: Community of Latin American and Caribbean States

² www.alcuenet.eu.

on SU, building on existing research agendas in both regions. October 2017 in San Salvador with the objective to discuss and possibly fine-tune Horizon 2020 to appoint national representative with expertise in this field and organized a second workshop in R&I action for CELAC and to define common research priorities and implementation mechanism

examples in order to trigger similar bi-regional initiative in the future and present potential regional coordination between the LAC countries, present and discuss case studies as good The upcoming workshop in Brussels on 22nd May 2018 has the objective to create a space for a the setting-up in place of an EU-LAC Task Force on sustainable urbanisation. activities and initiatives to push forward the bi-regional cooperation in the next months ahead of

Establishment of a bi-regional Task Force on Sustainable Urbanisation

their implementation such as H2020 calls, city to city cooperation, Sector Dialogues, etc. urbanisation to set out long term objectives aligned to SDGs and in particular to SDG 11 on cities, The last SOM in October 2017 agreed to establish a structured dialogue on sustainable establish EU-LAC common R&I priorities and explore existing funding instruments and schemes for

the CRA. The specific objectives of the WG SU are to: As a follow-up of the two meetings mentioned above, it was decided to establish a bi-regional EU LAC Task Force on Sustainable Urbanization (TF SU) in order to facilitate the implementation of

- particular its relevant targets 11.3, 11.4, 11.7 and 11.9³, the Habitat III New Urban Agenda; Develop a common Strategic R&I Agenda for sustainable urbanization, in line with SDG 11 on 'Make cities and human settlements inclusive, safe, resilient and sustainable' and in
- experts workshops, conferences etc.) to promote inclusive and sustainable urbanization combining diverse sources of funding and types of activities (e.g. research projects, contributing to economic, social and environmental resilience of cities. Explore modalities and mobilize resources for the joint EU-LAC implementation of the SRIA

alternately in LAC and in the EU. A tentative planning of the meetings in 2018 will be established. Meetings of the TF will be held on a regular basis, normally once per year or upon necessity,

The main activities of the group will be to:

- Identify and prioritize areas from the established Strategic Research and Innovation development of partnerships, exchange visits and possible short to medium term staff through, for instance, joint EU-LAC calls for R&I proposals, international conferences, exchange programmes, etc; Agenda with opportunities for bi-regional cooperation in R&I for Sustainable Urbanization
- initiatives of relevance to Sustainable Urbanization to identify opportunities for synergies; Map, review, document and promote best practices and innovative approaches and Exchange information on EU and LAC national and regional R&I policies, priorities and

safe, inclusive and accessible, green and public spaces (11.7); mitigation and adaptation to climate change ³ On: participatory, integrated and sustainable planning (11.3); cultural and natural heritage (11.4); access to resilience to disasters, in line with the Sendai Framework for Disaster Risk Reduction (11.9)

building, social inclusion, stakeholder participation, and systemic approaches to urban and solutions on sustainable urbanization, including the cross-cutting issues of capacity peri-urban planning;

strategy-led city and regional approach to policy making on sustainable urbanization in results and outcomes of the funded projects; Support the development of a coherent and interfaces for information sharing and dissemination, upscaling and up-taking of the Contribute to the development of robust and sustainable science-policy-cities-people

Mapping of initiatives and thematic priorities in LAC countries

Mexico, Panama, Uruguay and Peru). (For the template of the questionnaire please see Annex 1). questionnaire was answered by ten countries (Argentina, Brazil, Chile, Costa Rica, Cuba, Guayana, video conference were asked to present their national priorities. Furthermore, a survey was realized to gather information on the national priorities and initiatives in the LAC countries. The "Preparatory Meeting of the LAC Group on Sustainable Urbanisation" held on $3^{\prime d}$ May 2018 via workshop to be held on 22^{nd} May in Brussels, the country representatives participating in the Following the workshop on SU organized in El Salvador in October 2017 and in preparation of the

organizations and also national governments are involved; also, several of them are open to international cooperation, which shows the wide public interest in SU in the LAC countries. management are of increasing interest in the metropolitan areas. In most of the initiatives that are The outcomes of these two actions show that thematic areas such as food, water, energy or waste being planned or implemented in the LAC countries, municipalities,

order to enter into the EU-LAC bi-regional dialogue in SU. approach; on the other hand, there is the importance of developing a regional common ground in metropolitan areas may not be analyzed as isolated study objects, but require a multidisciplinary covering a wide range of thematic areas. This leads to the conclusion that, on the one hand, the The priority topics and needs that were expressed in the individual countries are manifold,

The concrete results from the survey and the feedback of the experts can be summarized as

3.1 National priorities and initiatives in the CELAC countries

Argentina:

- Priority topics: Energy, Water & Transport
- Specific Initiatives:
- adapting the City to climate change challenges. Objective: Develop a set of comprehensive state policies for the next 20 years aiming at Green City Project of the City of Buenos Aires (Gov. of the City of Buenos Aires)
- Aires and new forms of food consumption and production with less impact on the Objective: Promote, disseminate and sustain urban agricultural practices in the City of Buenos Urban agriculture program in the City of Buenos Aires (Gov. of the City of BA)

theoretical and practical training in urban agriculture. organic methods of food production/ Contribute to the management of urban solid waste by environment/ Contribute to the sustainable management of natural resources applying local composting organic waste at the source/ Engage citizens through volunteer programs and

Paseo del bajo project, Riverside highway (Gov. of the City of BA)

South sections of the City of Buenos Aires, while creating green and recreational spaces for the Objective: Construction of a 7.1 km road corridor to connect in a dynamic way the North and

Sustainable Mobility Plan - RER Transport Project (Ministry of Transportation of the Argentine Republic and Gov. of the City of Buenos Aires)

railway network and 8 new stations, upgrading the railway mode, its interconnection, with a Objective: Interconnect more than 800 kilometers of railway lines by means of new 20 km of neuralgic center of the metropolitan transport system. resulting boosting, and geographically transform the center of the City of Buenos Aires in a

Comprehensive Environmental Sanitation Plan (PISA) for the Matanza-Riachuelo basin (Gov. of the City of BA, of the Province of BA and the National State)

specific programmes and projects to address social environmental problems of the basin. and prevent damages with a reasonable and sufficient level of prediction/ Plan and develop Objective: Review, continue, discontinue or create new actions to guarantee a better quality of life for its inhabitants, recompose the environment in all its components (water, soil, air)

Environmental Sanitation Programme (PSAR) of the Province of Buenos Aires (Gov. of the City of BA under IADB Agreement 3256/OC-AR)

actions and works for increased coverage of water services, drains and waste water treatment, Objective: Recover the environmental quality of the Río Reconquista basin area/Prioritize improve solid waste management, industry control and reconversion, access to neighborhoods, protection of the biodiversity corridor

PNUD Argentina Programme - Strenthening Low Emission Capacity Building (LECB) Argentina (Coordinated by UNDP Argentina Budget Sources, Gov. of GER, European Economic Community, Gov. ARG, GIZ GER)

gases/ Build the capacities of the public and private players involved/ Identify and develop Objective: Support the development of a joint strategy towards the reduction of greenhouse mitigation actions and monitoring instruments

0 solid urban waste (Coordinated by UNDP Argentina Budget Source Global Environment PNUD Argentina Programme - Sustainable business models for biogas production from Fund Trust Fund)

to generate energy from municipal solid organic waste in medium size urban centers in Objective: Show the potential for biogas, with focus on gas derived from sanitary fills in order

PNUD Argentina Programme - Support to the National Comprehensive Risk Management System (SINAGIR) (Civil Protection Secretariat of the Ministry of Security - Funds of the Argentine National Gov.)

municipal levels for strategic planning on the basis of participation and pluralism. working in sustainable development/ Strengthen articulation between national, provincial and the implications generated by disasters and present the necessary alternatives so as to go on Objective: Generate tools and articulation policies with different government levels, interpret

- Casa EcoSolar Project (EcoAndina foundation, CoFeCyT of MINCyT)
- Thermal solar saving kit pilot project (EcoAndina foundation)
- Solar Kiosk Project (EcoAndina foundation)

for the environment resulting from the reduction in greenhouse gas emissions and energy Objective: All three projects show benefits for health and home economics, and the benefits

- UNALAB: Urban Nature Labs (For further information please see Annex 1)
- Many initiatives are open to international cooperation.

Brazil:

- Priority topics: NBS, water, greening, extreme weather, energy, food, growing cities. Specific accessible open and green areas along rivers and creeks. objectives are the enhancement of water supply and biodiversity as well as the creation of
- Specific objectives: Enhance urban sustainability regarding water supply
- Specific Initiatives:
- Campinas Green Plan (municipalities)
- Linear Parks (Local organizations)
- o local biological sewage tretament in rural areas (local organizations),
- Reconecta (Metropolitan region scale)
- Stakeholders involved: Municipalities cities actively involved in SU measures; funding

Chile:

- Priority topics: Energy & Water
- Specific Initiatives and stakeholders involved:
- Comprehensive Mobility Plan (Municipalities, national government, S&T stakeholders)
- MAPOCHO 42K: Geographical promenade for social equity (Municipalities, national government, S&T stakeholders)
- (Municipalities, national government, SME) Programmes for environmental and social recovery "Building environment equity"
- 0 government, S&T stakeholders) Plan for the Promotion of the Use of the Bicycle (Rancagua), (Municipalities, national
- 0 Maule River Mitigation Park, (Municipalities, national government, SMEs)
- 0 Neighbourhood Recovery Program (Municipalities, national government, local organizations)
- 0 organizations, NGOs) National Action Plan on Climate Change, (Municipalities, national government, local
- o Cycle Recreation Routes, (Municipalities, national government, SME)
- 0 Coastal Metropolitan Park, (Municipalities, national government, local organizations,

Costa Rica:

Priority topics: Growing cities and water

- Specific Initiatives and Stakeholders involved:
- Safe, clean and efficient energy

Objective: Implementation of efficient energy systems

- Intelligent, ecological and integrated transport / Railway transport
 Objective: Make existing train systems more efficient
- in the bus service motorized mobility systems / Rapid Passenger Train (TRP) / the execution of the sectorization Objective: Implement a first line of BRT ("bus rapid transit") / start working on associated non-Intelligent, ecological and integrated transport / Urban mobility
- Action for climate, environment, efficiency of resources and raw materials / Drinking

Objective: Establish a medium and long-term planning policy regarding the use of water resources and the necessary investments to guarantee their sustainability

- Objective: Establish a public-private company, for the planning of the GAM / Efficient location Health, demographic change and well-being / Urban recovery projects
- 0 Regeneration and repopulation policies, not exclusively for the capital city / Intervention of informal settlements / Recovery and protection of the landscape / Recovery and protection of the historic center of the cities;
- 0 Urban revitalization through the rehabilitation of buildings / waste treatment (solid and liquid), efficient public transport, social inclusion / inequalities and resilience

Panama:

- Priority topic: Disaster risk management for sustainable development (DRM) and water
- Specific initiative: Panama is developing a resilience strategy for Panama City involving the national government and different communities.
- Stakeholders involved: Municipalities, National government, S&T institutes, funding agencies. International cooperation possible.

Cuba:

- Priority topics: Cuba's efforts on urban development are mainly focused on climate change implication on territorial planning and sustainable organization.
- National objectives: Development of tools for territorial planning with an approach to well as the management of historic centers. adaptation to climate change and of appropriate technologies for sustainable urbanization as
- Specific Initiatives and stakeholders involved:
- National Program of Production and Local Sales of Construction Materials (Ministry of Construction) www.micons.cu
- 0 National Scheme of Territorial and Urban Planning (Institute of Physical Planning)
- Habitat Project (Central University of Las Villas and Swiss Agency for Cooperation) www.uclv.edu.cu
- 0 Municipal Development Strategy (Center for Local and Community Development of CITMA) www.cedel.cu
- Master Plan of the Office of the Historian of the City of Havana

Other relevant actors that have research projects and actions are: Universidad de Oriente (<u>www.uo.edu.cu</u>) and José Antonio Echevarría Higher Polytechnic Institute (<u>www.cujae.cu)</u>

Guayana:

- Priority topics: Water security, solid waste management and food security
- Specific Initiatives/Projects:
- Presidency, Ministry of Education) Planning and Housing Authority, Ministry of Public Infrastructure, The Ministry of the Development of the Green State Development Strategy (National government: Central
- Specific Objective: Resilient Infrastructure and Spatial Planning; Inclusive Green Urban
- Open to international Cooperation

Mexico:

Specific Initiatives:

- Investment in green infrastructure and ecological corridors
- 0 Accessibility to green areas, security and rescue of public space in urban areas.
- Installation and impacts of green walls and rooftops to reduce levels of temperature and
- o Measurement of the impacts of passive systems in energy saving
- 0 waterproofing, etc.) and street/parking lot shading policies. Development of reflective horizontal surfaces (such as inherent rooftops, reflective
- 0 Food performance with the installation of waterbeds and urban gardens in rooftops, and its impacts in social programmes.
- 0 urban infrastructure and the urban land market. Conduct research on peri-urban spaces, the relation between mass transportation and
- 0 definition of crossroads, among other policies related to life improvement at urban Address the need of intelligent designs for confined and semi-confined lanes, for the
- All initiatives are open to international cooperation.

Peru:

.

as climate change adaptation on territorial planning, sustainable management of water and Priority topics: Ecosystems, food security, water/water security, energy. The country developed different projects/initiatives that reflect its priorities on Urban Development, such

Specific Initiatives:

- National Platform of Sustainable Cities and Climate Change of Peru: Pilot project in the city
- Urban water. Challenges in the Americas
- Water, Climate and Development
- 0 Sierra Azul National program for seeding and harvesting water and program of hydro-infrastructures
- 0 Recovery of eco-systemic services in the watershed (sub-cuenca) Santa Eulalia
- NEXUS Dialogue Programme
- Program "Our Cities"
- Programme sustainable cities and urban development for climate protection and

- "Ciudades con Futuro": Transport and connectivity in Lima (Perú)
- "Cludades con Futuro": 1ra
 Program sustainable cities
- Glacier Programme
- 0 National plan for integrated management of solid residues 2016-2024
- Integrated management of solid residues for sustainable and inclusive development
- Incentive programme to improve the municipal management
- All initiatives are open to international cooperation.

Uruguay:

- Priority topics: Smart cities, transport, energy and social issues.
- Specific initiatives:
- Transport and Public Works) Electric Transport (Stakeholders: Ministry for the Energy and Mining Industry/ Ministry of

150 taxis and 150 utility vehicles (unconditional goal) or 110 buses, 550 taxis and 900 utility Objective: Develop an efficient and low carbon transport in particular incorporating 15 buses, vehicles (conditional goal) by 2025.

- Open to international cooperation
- Sustainable Urbanization: H2020 projects involving partners from LAC

environment, resource efficiency and raw materials" restoration and rehabilitation of urban ecosystems". For 2019, the topic focuses on "Strengthening Strengthening international cooperation on sustainable urbanisation: nature-based solutions for EC included in the Work Programme 2018-2020 under the Societal Challenge 5 on "Climate action, (First Stage) and 4th September 2018 (Second Stage). EU-CELAC collaboration". It is a two-stage joint call with deadlines for submission: 19 Feb 2019 As a concrete future action to strengthen EU-CELAC cooperation on Sustainable Urbanization, the a flagship topic "SC5-13-2018-2019:

(5), Nature-Based Solutions (7) and different cross-sectorial projects (3). countries. The projects address the following thematic areas: Water (5), urban planning (2), ICT sustainable urbanization through its framework programme Horizon2020 involving the LAC Furthermore, in the past years, the European Commission implemented 22 STI projects related to

Urban Sustainability implemented between 2014 and 2017). (See Annex 2 for the full list of the mentioned H2020 projects with LAC participation related to

ANNEX I -Template of the questionnaire on SU national capacities

Country:

SU On going Initiatives

Initiative/ Projects/ etc.:

Specific Objective:

National Initiative (Y/N):

Open to international Cooperation (Y/N):

Stakeholders involved (Please choose):

Main contact (Name/ E-mail):

If applicable: Cooperation with EU?

SU Identified events (Name & describe below if applicable):

implemented between 2014 and 2017 ANNEX 2 - List of H2020 projects with LAC participation related to Urban Sustainability

ERA-NET Co-fund Sustainable Urbanisation Global Initiative (EN-SUGI)

of 17 European Funding Agencies and 7 from outside EU (US, Argentina, Brazil, Japan, Chinese much wider range of global markets. EN-SUGI is a project that foresees the financial participation solutions that bring research and innovation together from across the globe, and benefits from a (JPI) Urban Europe and the Belmont Forum (BF), EN-SUGI develops more resilient, applied urban this FEW Nexus challenge. Furthermore, by linking the activity of the Joint Programming Initiative research and innovation expertise across Europe and beyond to find innovative new solutions to Tapei, Quatar) (2017). The ERA-NET Sustainable Urbanisation Global Initiative (EN-SUGI) brings together the fragmented

Water:

raw materials and by-products and agro-industrial wastes (2014), Colombia competitive MBR for municipal and industrial wastewater treatment plants (WWTP), from ceramic industrial wastes for waste water reuse. REMEB MBR: Eco-friendly ceramic membrane bioreactor (MBR) based on recycled agricultural and Project aims to develop a ceramic, ecological and

wastewater treatment. The project aims at unleashing the small community economies' potential iMETland: A new generation of Microbial Electrochemical Wetland for effective decentralized

through innovative wastewater treatments technologies, creating a virtuous circle connecting water, energy, ICT, land resources and safeguarding the environment (2014), Argentina, Mexico

in tertiary water treatments (2014), Argentina MAT4TREAT - Enhancing water quality by developing novel materials for organic pollutant removal

Osmosis (RO) technology. (2015). Chile produced; with significantly reduced energy consumption compared to state-of-the-art Reverse standard for desalination of seawater. Safe, affordable and cost-competitive drinking water will be to overcoming the drinking water challenge by establishing electrodialysis (ED) as the new become one of the major challenges for societies all over the world. The project aims to contribute RevivED WATER: Low-energy solutions for drinking water production. Shortage of fresh water has

proposals, with EU co-funding in the area of closing the water cycle gap (2017), Brazil participating research programme owners / managers of 19 countries to implement a joint call for Water Works 2018-2022 in Support of the Water JPI (WaterWorks2017) and of the EC Call SC5-33-2017: Closing the water cycle gap, The WaterWorks2017 project is pooling resources from the 23

Urban planning

in urban areas to address the challenge posed by urban vulnerability (2015), Colombia. inform the pressing need to reshape how humanitarian action and development aid is undertaken The Preparedness and Resilience to address Urban Vulnerability (PRUV) Consortium aims to nonetheless grappling with the complexities of adapting their approaches to the urban context. a fundamental shift in the landscape of crises to cities is no longer contested, aid actors are unplanned urbanisation, climate change and resource pressures. While the realisation that there is The challenge posed by urban vulnerability is immense and is being compounded by rapid

are often relegated to the margins of policy making and public interest. It seeks to research the to make visible indigenous subjects whose daily lives, collective concerns and social circumstances experiences of urban space among young indigenous Mapuche living in Santiago de Chile, in order The invisible city. Mapuche mapping of Santiago de Chile. impact of displacement and social exclusion on indigenous youth, as well as offer a means of intervention (2015), Chile The proposed research explores

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reference data models to support the agile development of smart solutions for sustainability derive from these applications a set of FIWARE-based reference service architectures and To fulfil this goal, SmartSDK will analyse successful FIWARE applications deployed in Europe and leveraging on existing FIWARE outcomes and building reference standards for common challenges. SmartSDK aims at creating a sustainable FIWARE ecosystem between Europe and Mexico by Open Source solutions leveraging on results of European and Mexican initiatives based on FIWARE challenges of today world. In this perspective, SmartSDK will adopt existing Open Standards and

VC investors and global corporates of 4 smart verticals: cities, digital content, agrifood and "IMPACT GROWTH will fund 4 European Superstar Startups (unicorn potential) confirmed by top factories 48 companies exploiting Future Internet research results will be discovered out of a deal

leveraging the 6 million euros of public funding with 6 additional million euros of private the 1.5 million euros crowd funded investment led by the VCs and platforms in the consortium through the crowd will select the best companies. 4 out of the 48 startups will succeed in reaching start a crowdfunding track. A "live due diligence" from the acceleration and the market response flow of 5.000 startups through 4 OpenCalls. They will join an acceleration programme and will investment. (2016), Mexico

inspire a new breed of applications and services (2016). Brazil Evolving FIRE into a 5G-Oriented Experimental Playground for Vertical industries. Key industrial leading to the fourth industrial revolution. New ones are in the making, e.g. Smart Cities, which e.g. automotive, are rapidly transformed by digital and communication technologies

perspective on the Smart City through critical humanities research and innovation in the context of the Digital Studies (2017), Ecuador Real Smart City, the overarching objective of the ReaLsMs is to develop and implement a

playing a profound role in our societies and industries (2017), Brazil modern high-speed microprocessors enhance communication, computing and electronics, thereby Smart thermal management of high-power microprocessors using phase-change. Developments in

Nature based solutions / Environment

replicable, and locally-attuned nature-based solutions to enhance the climate (2016) 'living lab' demonstration areas, a robust evidence base and European framework of innovative, Urban Nature Labs: UNaLab will develop, via co-creation with stakeholders and implementation of

linked and actions in one sector more often have impacts in one or both of the others (2016). needs of their citizens with respect to food, energy and water. These three sectors are inextricably Eranet Sustainable Urbanisation Global Initiative. Ties around the globe are struggling to meet the

Renaturing Urban Plans focused on climate change mitigation and adaptation and efficient water management, and (2) to assist in the implementation of NBS... (2016), Colombia GreenUP aims at obtaining a tailored methodology (1) to support the co-development of Urban GreenUP: New Strategy for Re-Naturing Cities through Nature-Based Solutions. Urban

leader in nature-based solution (NBS) innovation (2016). Ecuador Cities. Led by Hamburg, a well-balanced, competent partnership will position the EU as global Regeneration in Cities. Hamburg (DE), London (UK) and Milan (IT) have decided to create CLEVER CLEVER Cities - Co-designing Locally tailored Ecological solutions for Value added, socially inclusivE

World, however fragmented, are prospering, forming a global movement of Edible Cities (2016), towards more sustainable, liveable and healthier cities. A multitude of initiatives around the productive cities. The systemic use of urban landscapes for food production is a major step Edible Cities Network. Integrating Edible City Solutions for social resilient and sustainably

reduction. RECONECT aims to contribute to European reference framework on Nature Based RECONECT- Regenarating ECOsystems with Nature-based solutions for hydro-meteorological risk

Solutions (NBS) by demonstrating, referencing and upscaling large scale NBS and by stimulating a new culture for 'land use planning' that links the reduction of risks (2017), Brazil

forecast system for (2017). Argentina, Bolivia, Brazil, Chile, Colombia, Mexico, Venezuela of partners with complementary expertise, which will develop and implement an analysis and (Prediction of Air Pollution in Latin America and the Caribbean) is to establish a sustained network PAPILA: Prediction of Air Pollution in Latin America. The overall objective of the PAPILA project

Cross Sectorial

terms of our capacity to assess and predict risks due to geohazards (landslides and rock slides, Geohazards: Risk Assessment, Mitigation and Prevention, the project provides a step change in earthquakes, floods). This is necessary in order to make built environments and infrastructures resilient (2014), Argentina, Bolivia

international/intersectoral project addressing theoretical models for next-generation concretes, characterised by a significant sustainability enhancement for the construction industry (2014), Argentina, Brazil SUPERCONCRETE: Sustainability-driven international/intersectoral Partnership for Education and modelling next generation CONCRETE. D synergetic cross-disciplinary

development of innovative approaches to address a crucial societal challenge of the 21st century, project aims to create a structured network for the exchange of knowledge and the joint The Cohesive City: Addressing Stigmatisation in Disadvantaged Urban Neighbourhoods. This that of the Cohesive City (2016). Brazil, Mexico.

OFICINA DE COOPERACIÓN INTERNACIONAL Teléfonos: 506-9696 / 97 Fax.: 506-9698/www.municipio.gob.pa

Informe Sustantivo de Misión Oficial en el Exterior

Cargo: Director de Resiliencia Nombre del funcionario(a) Arturo Dominici Arosemena No Plan

Cédula: 8-425-228 N° Posic. 29543

Fecha de la Misión: 20 al 24 de mayo 2018 Desde: 20 de mayo 2018 Hasta: 24 de mayo 2018

País: Bruselas, Bélgica

Sostenible, sobre cómo Restaurar y Rehabilitar mejor los Ecosistemas Urbanos" Caribeño y la Unión Europea (CELAC-UE) y Seminario sobre Retos para la Cooperación CELAC-UE en Urbanización Misión Oficial: Taller de Urbanización Sostenible organizado por la Comunidad de Estados Latinoamericanos y

INFORMACIÓN SUSTANTIVA

T. Objetivos	Q,		Sesión del 22 de mayo Crear un espacio para una coordinación regional entre los países de América Latina y el Caribe Presentar y analizar tanto casos de estudio como buenos ejemplos para impulsar iniciativas birregionales similares en el futuro. Presentar posibles actividades e iniciativas para impulsar la cooperación bi-regional en los próximos meses antes de la creación de un grupo de trabajo UE-ALC sobre urbanización sostenible.
			la cooperación bi-regional en los próximos meses a de la creación de un grupo de trabajo UE-ALC sobre urbanización sostenible. Establecimiento de un grupo de trabajo bi-regional sobre urbanización sostenible.
			Sesión del 23 de mayo
			 Discutir oportunidades de investigación e innovación enfocadas en infraestructura y soluciones naturales.
			 Explorar experiencias sobre como las soluciones naturales mejoran la calidad de los ecosistemas y los
	9		términos de regulación hídrica, restauración de las condiciones naturales de infiltración del suelo y reducir
		12	la contaminación en las ciudades. Discutir temas como secuestración de carbono y

2 Possiltados (Valor								
والمارية المارية المار	región.	como de la Unión Europea, incluyendo los retos para la	que manejan distintos actores tanto de América Latina	 Revisión de los puntos de vista de las políticas públicas 	beneficios a la salud de la población.	naturales, promoviendo la inclusión social y los	 Revisión de los impactos positivos de las soluciones 	

Agregado en el desempeño de su cargo)

Sesión del 22 de mayo

- Se identificaron y priorizaron áreas de la agenda estratégica de Investigación e Innovación, con oportunidades de cooperación biregional para la urbanización sostenible.
- posibles oportunidades para participación de elaboración de seguimiento a revisión de la experiencia de esta actividad y las sentido, luego de presentarlas áreas de trabajo de la estrategia de intercambio de personal de corto a mediano plazo. En este asociaciones, visitas de intercambio y posibles programas de convocatorias conjuntas UE-ALC para propuestas de investigación propuestas en temas de resiliencia con apoyo de la SENACYT. resiliencia a establecieron los próximos pasos para la realización de desarrollo, lanzarse conferencias en agosto del 2018, se acuerda internacionales, desarrollo dar
- prioridades e iniciativas de Investigación y desarrollo nacionales y Se estableció un intercambio de información sobre las políticas, mejores prácticas y enfoques innovadores. oportunidades de sinergias; mapeo, revisión y promoción de pertinentes regionales de la Unión Europea y América Latina y el Caribe, a a urbanización sostenible, para identificar
- descubrimiento del Análisis Preliminar de Resiliencia de la Ciudad cambio climático, resiliencia a los desastres, en línea con el Marco participativa, integrada y temáticas para las distintas ciudades de la región. cual permitió brindar un estudio de caso para poder definir de Panamá, con enfoque estratégico de su futura estrategia, lo sentido se toma como un ejemplo las distintas áreas de de Sendai para la Reducción del Riesgo de Desastres. En este natural; acceso a espacios verdes, mitigación y adaptación al discutieron temáticas sostenible; en temas patrimonio como planificación
- coordinación de propuestas conjuntas con ciudades de la red 100 Se generan insumos de interés para la estrategia de resiliencia de Ciudades Resilientes. ciudad de Panamá y se acuerda revisar la posibilidad de
- interesados y enfoques sistémicos para la planificación urbana y de creación de capacidades, inclusión social, participación de los urbanización sostenible, incluidas las cuestiones intersectoriales Se revisaron estudios de caso en el marco de soluciones para la
- Se discutieron ejemplos y metodologías para el desarrollo de sostenibles para compartir y difundir información, ampliar y interfaces ciencia-política-ciudades-personas, robustas

mejorar los resultados de los proyectos financiados, apoyar el desarrollo de un enfoque municipal y regional orientado a la la formulación de políticas sobre urbanización sostenible en América Latina y el Caribe.

Sesión del 23 de mayo

- 0 esto incluyen todas las temáticas e ideas discutidas en la reunión de interés de la región y el resultado de las consultas regionales, sostenible de la CELAC presentan el panorama general, los tópicos En esta sesión los representantes del programa de urbanización del día previo.
- 0 de los sistemas de humedales como parte del desarrollo urbano. estrategia de resiliencia. Esto aportó contactos de interés para futuras acciones de la brindan presentaciones sobre el usos de la infraestructura verde Especialistas de entidades académicas de la Unión Europea
- 0 agua, así como nuevos modelos para el monitoreo cuántico de los de las inundaciones, y los retos para el monitoreo de la calidad de retención de agua mediante el uso de materia orgánica, manejo Se brindaron presentaciones sobre otros temas de interés para la patrones hídricos. visualización del tráfico vehicular, eficiencia en los sistemas de resiliencia, como es el caso de nuevas metodologías para la
- Corto Plazo insumos para la fase de implementación de la estrategia de resiliencia y nuevas alianzas para la ejecución de proyectos. contactos con investigadores y especialistas, esto brindará Esta sesión aportó tanto con insumos técnicos como nuevos Mediano Plazo Largo

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será a:

Impacto en las funciones bajo su responsabilidad,

Plazo_

PARA Fecha de Recibido	Fecha: <u>19 de julio 2018</u>	Presentado Por: Arturo Dominici Arosemena
PARA USO DE LA OFICINA DE FISCALIZACIÓN Cumple el término? Sí No	Vo. Bo (Máxima Autoridad Instituciona)	nici Arosemena Firma:

Observación: Cuando la modalidad esté relacionada con una capacitación, debe adjuntar copia del certificado que otorga el organismo respectivo Fundamento Legal: Artículo 264 de la Ley No 36 del 2 de Diciembre del 2014" Por la cual se dicta el Presupuesto General del Estado para la Vigencia Fiscal 2015"

Comentarios Sobre el Informe:

Firma del Fiscalizador

.



AGENDA

CONSOLIDATING AN EU-LAC R&I DIALOGUE ON SUSTAINABLE URBANISATION

BRUSSELS, 22 MAY 2018

VENUE: THON HOTEL EU, RUE DE LA LOI 75, 1040 BRUXELLES

ROOM: BELGIUM III

DG Research and Innovation, European Commission Chair: Christos Fragakis, deputy Head of Unit Sustainable Management of Natural Resources,

EU-LAC priorities for collaboration

09:00 - 09:30	Registration
09:30 - 09:50	Welcome introduction by the chair, tour de table and expectations of the participants
09:50 - 10:00	EU-LAC policy context – common challenges for R&I cooperation in Sustainable Urbanisation Adam Tyson, Head of International Cooperation with North America,
10:00 -10:10	Latin America and the Caribbean, DG Research and Innovation, European Commission Towards an EU-LAC R&I cooperation on Sustainable Urbanisation
10:00 -10:10	Towards an EU-LAC R&I cooperation on Sustainable Urbanisation Christos Fragakis, Deputy Head of Unit Sustainable Management of Natural Resources, DG Research and Innovation, European Commission
10:10 - 10:30	The EU approach to innovating cities. Funding opportunities under the European Framework Programme for Research and Innovation — Horizon 2020
	Marie Yeroyanni and Emanuela De Menna, Sustainable Management of Natural Resources, DG Research and Innovation, European Commission
10:30 - 11:20	LAC R&I priorities on Sustainable Urbanisation presentation by Agustina Velo, MINCYT, followed by collective discussion, namely on critical issues and concrete actions under each priority; inclusion of socio-economic considerations; how to address priorities in a systemic and cross-sectorial way
11:20 - 11:35	Coffee Break
11:35 - 13:00	Presentation of LAC case studies (10 minutes each) Development of the Resilience Strategy in Panama City (Estrategia de Resiliencia en la Ciudad de Panama)
	· I ima Peri: The water - food and once -

13:00 - 14:00

Lunch break

ArgentinaChile

Mexico

Uruguay

· Lima, Peru; The water - food and energy nexus



Operationalizing EU-LAC collaboration

14:00 - 14:45 in cities; and the EU-Brazil Sector Dialogue on Nature-based Solutions: Presentation by EU projects with LAC participants Horizon 2020 projects on Nature-based Solutions for climate and water resilience

- Horizon2020 UNALAB project (Isabel Pinto-Seppa)
- Horizon2020 Urban Green Up project (Raúl Sanchez)
 The EU-Brazil Sector Dialogue on NBS (Guilherme Wiedman)
- Existing tools for EU-LAC international cooperation on Sustainable

14:45 - 14:55

Urbanisation

DG Research and Innovation, European Commission Mina Stareva, International cooperation with Latin America

14:55 - 15:15 Presentation and discussion of the preliminary results and work done under the LAC SU Capacities inventory $\,$ Agustina Velo, MINCYT

15:30 Coffee Break

15:15

15:30 - 16:30

Discussion

collaboration, partnerships and networking on Sustainable Urbanisation - with associated timeframe, responsible actor and deliverables - to facilitate led by Agustina Velo, (MINCYT), to collectively identify needs and a list of actions and the works of the Task Force and possibilities for EU-support:

Roadmap to guide the work of the Task Force

Setting up of an EU-LAC SU information platform

Calendar of events

16:30 -

16:45

opportunities for next meetings and other events that LAC representatives might

want to announce. Consider the creation of a shared calendar

17:00 Wrap-up and conclusions of the meeting

16:45

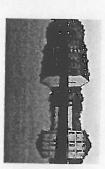
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17:00 - 18:00 Cocktail reception

CZ LO











Czech Liaison Office for Research, Development and Innovation in Brussels has the pleasure to invite you to a half-day event

Challenges for EU-CELAC cooperation in sustainable urbanization: how to better restore and rehabilitate urban ecosystems

23 May 2018

KoWi meeting room, Rue du Trone 98, Brussels

cooperation in the field of sustainable urbanization, in particular on Nature-based solutions. makers from both CELAC and EU convened and discussed opportunities for Research and Innovation (R&I) was made by the organization of an ALCUE-NET workshop in June 2017, hosted by Portugal, where experts and policy Communiqué in the March 2017 as a common priority. The first step towards bi-regional cooperation on the issue The topic of sustainable urbanization has been included in the EU-CELAC Common Research Area and SOM Joint

amenity value, enhanced social inclusion and improved health and life quality. provisioning and cultural services, resulting in positive impacts including improved urban landscapes, increased carbon sequestration and increase of biodiversity (NYC DEP, 2014). Nature-based solutions also add a large range of ecological and environmental services through reduced pollution, supporting the uptake of nutrients by vegetation, runoff, thus enhancing cities' climate proofing and mitigating water scarcity and flood problems, but also addressing flow regulation, this means, for example, restoring the original infiltration conditions of the soil and reducing urban Nature-based solutions allow improving the quality of ecosystems services delivered to citizens. In terms of water-

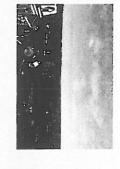
Latin America, in Sweden and the Czech Republic. challenge for the Latin America and Caribe. The other speakers include representatives of RTD institutions based in The seminar will present the policy view on the subject as well as stakeholders' views, including the discussion of the

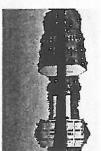
















Time table

9:30 - 10:00Registration and welcome coffee

10:00 - 10:10 Introduction and scene setting

METCENAS, CZ Zuzana Boukalová

10:10 - 10:30 Opening presentation - Sustainable Urbanization in CELAC: general overview of the regional consultation & topics of interest

MINCYT, Argentina Carlos Ereño and Agustina Velo

10:40 - 11:00Open debate

11:00 - 11:15The use of wetland systems in urban environment

Jan Vymazal

Czech University of Life Sciences, CZ

11:15 - 11:30Advanced visualisation and traffic volume new methods, how to improve transport in cities

Karel Charvát Center for Science

and

Society, CZ

Lukáš Trakal Czech University of Life Sciences, CZ

11:30 - 11:45Efficient water retention in urban environment using stabile organic matter

Fredrik Hallgren

IVL Swedish Environmental Research

Stakeholder presentation

11:45 - 12:00

Jonathan Simm Institute, SE

12:00 - 12:15 Flood risk management for sustainable urbanisation

HR Wallingford, UK

Michal Kuráž

12:15 - 12:30 Sustainable urbanization: and quantity modelling Challenges for water quality

Czech University of Life Sciences, CZ

12:30 - 12:45Panel discussion

12:45 - 13:00Conclusions

The programme is followed by a networking lunch offered by CZELO.

http://geform.tc.cz/urbanization before 16 May 2018. All participants are kindly requested to register in advance by completing the registration form at

from the Ministry of Education, Youth and Sports of the Czech Republic Czech Liaison Office for Research, Development and Innovation (CZELO) is financially supported by a grant (LT117010)









countries – Preparation for the workshop on sustainable urbanisation on 22nd March, Brussels Background paper on thematic priorities and national capacities of the LAC

Introduction and background

challenges of common interest to both regions, the EU and the Latin America and the Caribbean area (CRA). The CRA will identify and promote bi-regional collaboration in R&I to address global the Joint Initiative for Research and Innovation by envisioning an EU-CELAC Common research Commissioner for Research, Science and Innovation, Carlos Moedas appreciated the advances in Promoting international cooperation in R&I is one of the overarching objectives for the EU. In this context and during the EU-CELAC¹ academic summit in June 2015 in Brussels, the EU

Therefore, urban issues will be increasingly important in the global agenda in the coming decades. estimated that, by 2050, up to 70% of the world's population will be living in urban areas. One of the most urgent global challenges of the 21st century is mass urbanisation, since it is

becoming more urgent and often (Oropeza Perez 2017). government and civil population. Thereby, different strategies have risen since the challenges are with the threat of the global warming, these necessities turn into a challenge to be faced by the improved living conditions is increasing as well, especially in the metropolitan areas. Therefore, priority for the LAC countries. Moreover, other challenges such as disaster risk reduction, wellbeing and health, social equality, the needs for food, water, energy, affordable housing and Hence, the efforts for climate change adaptation and mitigation over urban areas become a climate change on urban and peri-urban areas might be higher than other areas such as the rural. Janeiro, Lima, Bogota and Santiago) live, in total, more than 100 million people. The impacts of population over 1 million. In only 7 of these areas (Mexico City, Sao Paolo, Buenos Aires, Rio de More specifically, more than 80% of population in Latin America and the Caribbean (LAC) is urban, LAC countries also face the raise of big urban agglomerations, with 64 metropolitan areas with a making Latin America the world's most urbanized region (in comparison, the EU is 74% urbanized).

with the Sustainable Development Goals (SDGs), particular SDG 11. EU-LAC Common Research Area in 2016 for cooperation in R&I between the two regions, aligned Innovation (SOM) endorsed Sustainable Urbanisation (SU) as a common priority theme within the Considering this background situation, the EU-CELAC Senior Officials Meeting in Research and

cooperation in the field of SU, in particular on Nature-Based Solutions (NBS). As a result, the EC in in June 2017 in Portugal, organized in the frame of the EU-funded project ALCUE NET². The close cooperation with the CELAC Pro Tempore Presidency invited interested countries from LAC objective of the workshop was to identify opportunities for Research and Innovation (R&I) A first step towards bi-regional cooperation on SU was made with the organization of a workshop

¹ CELAC: Community of Latin American and Caribbean States

www.alcuenet.eu.

on SU, building on existing research agendas in both regions. R&I action for CELAC and to define common research priorities and implementation mechanism October 2017 in San Salvador with the objective to discuss and possibly fine-tune Horizon 2020 to appoint national representative with expertise in this field and organized a second workshop in

activities and initiatives to push forward the bi-regional cooperation in the next months ahead of examples in order to trigger similar bi-regional initiative in the future and present potential regional coordination between the LAC countries, present and discuss case studies as good The upcoming workshop in Brussels on 22nd May 2018 has the objective to create a space for a the setting-up in place of an EU-LAC Task Force on sustainable urbanisation.

Establishment of a bi-regional Task Force on Sustainable Urbanisation

their implementation such as H2020 calls, city to city cooperation, Sector Dialogues, etc. establish EU-LAC common R&I priorities and explore existing funding instruments and schemes for urbanisation to set out long term objectives aligned to SDGs and in particular to SDG 11 on cities, The last SOM in October 2017 agreed to establish a structured dialogue on sustainable

As a follow-up of the two meetings mentioned above, it was decided to establish a bi-regional EU the CRA. The specific objectives of the WG SU are to: LAC Task Force on Sustainable Urbanization (TF SU) in order to facilitate the implementation of

- Develop a common Strategic R&I Agenda for sustainable urbanization, in line with SDG 11 particular its relevant targets 11.3, 11.4, 11.7 and 11.9³, the Habitat III New Urban Agenda; on 'Make cities and human settlements inclusive, safe, resilient and sustainable' and in
- contributing to economic, social and environmental resilience of cities. experts workshops, conferences etc.) to promote inclusive and sustainable urbanization combining diverse sources of funding and types of activities Explore modalities and mobilize resources for the joint EU-LAC implementation of the SRIA (e.g. research projects,

alternately in LAC and in the EU. A tentative planning of the meetings in 2018 will be established. Meetings of the TF will be held on a regular basis, normally once per year or upon necessity,

The main activities of the group will be to:

- Identify and prioritize areas from the established Strategic Research and Innovation through, for instance, joint EU-LAC calls for R&I proposals, international conferences, development of partnerships, exchange visits and possible short to medium term staff Agenda with opportunities for bi-regional cooperation in R&I for Sustainable Urbanization exchange programmes, etc;
- initiatives of relevance to Sustainable Urbanization to identify opportunities for synergies; Exchange information on EU and LAC national and regional R&I policies, priorities and Map, review, document and promote best practices and innovative approaches and

safe, inclusive and accessible, green and public spaces (11.7); mitigation and adaptation to climate change, resilience to disasters, in line with the Sendai Framework for Disaster Risk Reduction (11.9) On: participatory, integrated and sustainable planning (11.3); cultural and natural heritage (11.4); access to

peri-urban planning; building, social inclusion, stakeholder participation, and systemic approaches to urban and solutions on sustainable urbanization, including the cross-cutting issues of capacity

- strategy-led city and regional approach to policy making on sustainable urbanization in results and outcomes of the funded projects; Support the development of a coherent and interfaces for information sharing and dissemination, upscaling and up-taking of the Contribute to the development of robust and sustainable science-policy-cities-people
- Mapping of initiatives and thematic priorities in LAC countries

Mexico, Panama, Uruguay and Peru). (For the template of the questionnaire please see Annex 1). questionnaire was answered by ten countries (Argentina, Brazil, Chile, Costa Rica, Cuba, Guayana, realized to gather information on the national priorities and initiatives in the LAC countries. The video conference were asked to present their national priorities. Furthermore, a survey was "Preparatory Meeting of the LAC Group on Sustainable Urbanisation" held on $3^{
m rd}$ May 2018 via workshop to be held on 22^{nd} May in Brussels, the country representatives participating in the Following the workshop on SU organized in El Salvador in October 2017 and in preparation of the

international cooperation, which shows the wide public interest in SU in the LAC countries. organizations and also national governments are involved; also, several of them are open to management are of increasing interest in the metropolitan areas. In most of the initiatives that are The outcomes of these two actions show that thematic areas such as food, water, energy or waste presently being planned or implemented in the LAC countries, municipalities,

approach; on the other hand, there is the importance of developing a regional common ground in order to enter into the EU-LAC bi-regional dialogue in SU. metropolitan areas may not be analyzed as isolated study objects, but require a multidisciplinary covering a wide range of thematic areas. This leads to the conclusion that, on the one hand, the The priority topics and needs that were expressed in the individual countries are manifold,

The concrete results from the survey and the feedback of the experts can be summarized as

3.1 National priorities and initiatives in the CELAC countries

Argentina

- Priority topics: Energy, Water & Transport
- Specific Initiatives:
- adapting the City to climate change challenges Objective: Develop a set of comprehensive state policies for the next 20 years aiming at Green City Project of the City of Buenos Aires (Gov. of the City of Buenos Aires)
- Objective: Promote, disseminate and sustain urban agricultural practices in the City of Buenos Urban agriculture program in the City of Buenos Aires (Gov. of the City of BA)

Aires and new forms of food consumption and production with less impact on the

theoretical and practical training in urban agriculture. composting organic waste at the source/ Engage citizens through volunteer programs and organic methods of food production/ Contribute to the management of urban solid waste by environment/ Contribute to the sustainable management of natural resources applying local

Paseo del bajo project, Riverside highway (Gov. of the City of BA)

South sections of the City of Buenos Aires, while creating green and recreational spaces for the Objective: Construction of a 7.1 km road corridor to connect in a dynamic way the North and

Sustainable Mobility Plan - RER Transport Project (Ministry of Transportation of the Argentine Republic and Gov. of the City of Buenos Aires)

resulting boosting, and geographically transform the center of the City of Buenos Aires in a railway network and 8 new stations, upgrading the railway mode, its interconnection, with a Objective: Interconnect more than 800 kilometers of railway lines by means of new 20 km of neuralgic center of the metropolitan transport system.

Comprehensive Environmental Sanitation Plan (PISA) for the Matanza-Riachuelo basin (Gov. of the City of BA, of the Province of BA and the National State)

specific programmes and projects to address social environmental problems of the basin. and prevent damages with a reasonable and sufficient level of prediction/ Plan and develop of life for its inhabitants, recompose the environment in all its components (water, soil, air) Objective: Review, continue, discontinue or create new actions to guarantee a better quality

Environmental Sanitation Programme (PSAR) of the Province of Buenos Aires (Gov. of the City of BA under IADB Agreement 3256/OC-AR)

actions and works for increased coverage of water services, drains and waste water treatment, Objective: Recover the environmental quality of the Río Reconquista basin area/ Prioritize neighborhoods, protection of the biodiversity corridor improve solid waste management, industry control and reconversion, access to

PNUD Argentina Programme - Strenthening Low Emission Capacity Building (LECB) Argentina (Coordinated by UNDP Argentina Budget Sources, Gov. of GER, European Economic Community, Gov. ARG, GIZ GER)

gases/ Build the capacities of the public and private players involved/ Identify and develop Objective: Support the development of a joint strategy towards the reduction of greenhouse mitigation actions and monitoring instruments

0 solid urban waste (Coordinated by UNDP Argentina Budget Source Global Environment PNUD Argentina Programme - Sustainable business models for biogas production from Fund Trust Fund)

to generate energy from municipal solid organic waste in medium size urban centers in Objective: Show the potential for biogas, with focus on gas derived from sanitary fills in order

System (SINAGIR) (Civil Protection Secretariat of the Ministry of Security - Funds of the PNUD Argentina Programme - Support to the National Comprehensive Risk Management Argentine National Gov.)

municipal levels for strategic planning on the basis of participation and pluralism. working in sustainable development/ Strengthen articulation between national, provincial and the implications generated by disasters and present the necessary alternatives so as to go on Objective: Generate tools and articulation policies with different government levels, interpret

- Casa EcoSolar Project (EcoAndina foundation, CoFeCyT of MINCyT)
- Thermal solar saving kit pilot project (EcoAndina foundation)
- Solar Kiosk Project (EcoAndina foundation)

for the environment resulting from the reduction in greenhouse gas emissions and energy Objective: All three projects show benefits for health and home economics, and the benefits

- UNALAB: Urban Nature Labs (For further information please see Annex 1)
- Many initiatives are open to international cooperation.

Brazil:

- accessible open and green areas along rivers and creeks. objectives are the enhancement of water supply and biodiversity as well as the creation of Priority topics: NBS, water, greening, extreme weather, energy, food, growing cities. Specific
- Specific objectives: Enhance urban sustainability regarding water supply
- Specific Initiatives:
- Campinas Green Plan (municipalities)
- Linear Parks (Local organizations)
- local biological sewage tretament in rural areas (local organizations),
- Reconecta (Metropolitan region scale)
- Stakeholders involved: Municipalities cities actively involved in SU measures; funding

Chile:

- Priority topics: Energy & Water
- Specific Initiatives and stakeholders involved:
- Comprehensive Mobility Plan (Municipalities, national government, S&T stakeholders)
- 0 MAPOCHO 42K: Geographical promenade for social equity (Municipalities, national government, S&T stakeholders)
- 0 (Municipalities, national government, SME) Programmes for environmental and social recovery "Building environment equity"
- 0 government, S&T stakeholders) Plan for the Promotion of the Use of the Bicycle (Rancagua), (Municipalities, national
- 0 Maule River Mitigation Park, (Municipalities, national government, SMEs)
- 0 Neighbourhood Recovery Program (Municipalities, national government, local organizations)
- organizations, NGOs) National Action Plan on Climate Change, (Municipalities, national government, local
- o Cycle Recreation Routes, (Municipalities, national government, SME)
- 0 Coastal Metropolitan Park, (Municipalities, national government, local organizations,

Costa Rica:

Priority topics: Growing cities and water

Specific Initiatives and Stakeholders involved:

Safe, clean and efficient energy

Objective: Implementation of efficient energy systems

- o Intelligent, ecological and integrated transport / Railway transport Objective: Make existing train systems more efficient
- motorized mobility systems / Rapid Passenger Train (TRP) / the execution of the sectorization in the bus service Objective: Implement a first line of BRT ("bus rapid transit") / start working on associated non-Intelligent, ecological and integrated transport / Urban mobility
- Action for climate, environment, efficiency of resources and raw materials / Drinking

resources and the necessary investments to guarantee their sustainability Objective: Establish a medium and long-term planning policy regarding the use of water

- Objective: Establish a public-private company, for the planning of the GAM / Efficient location Health, demographic change and well-being / Urban recovery projects
- Regeneration and repopulation policies, not exclusively for the capital city / Intervention protection of the historic center of the cities; of informal settlements / Recovery and protection of the landscape / Recovery and
- 0 liquid), efficient public transport, social inclusion / inequalities and resilience Urban revitalization through the rehabilitation of buildings / waste treatment (solid and

Panama

- Priority topic: Disaster risk management for sustainable development (DRM) and water
- national government and different communities. Specific initiative: Panama is developing a resilience strategy for Panama City involving the
- Stakeholders involved: Municipalities, National government, S&T institutes, funding agencies. International cooperation possible.

Cuba:

- Priority topics: Cuba's efforts on urban development are mainly focused on climate change implication on territorial planning and sustainable organization.
- well as the management of historic centers. National objectives: Development of tools for territorial planning with an approach to adaptation to climate change and of appropriate technologies for sustainable urbanization as
- Specific Initiatives and stakeholders involved:
- National Program of Production and Local Sales of Construction Materials (Ministry of Construction) www.micons.cu
- National Scheme of Territorial and Urban Planning (Institute of Physical Planning)
- Habitat Project (Central University of Las Villas and Swiss Agency for Cooperation) www.uclv.edu.cu
- Municipal Development Strategy (Center for Local and Community Development of CITMA) www.cedel.cu
- Master Plan of the Office of the Historian of the City of Havana

Other relevant actors that have research projects and actions are: Universidad de Oriente (<u>www.uo.edu.cu)</u> and José Antonio Echevarría Higher Polytechnic Institute (<u>www.cujae.cu)</u>

Guayana:

- Priority topics: Water security, solid waste management and food security
- Specific Initiatives/Projects:
- 0 Development of the Green State Development Strategy (National government: Central Planning and Housing Authority , Ministry of Public Infrastructure, The Ministry of the Presidency, Ministry of Education)
- Û Specific Objective: Resilient Infrastructure and Spatial Planning; Inclusive Green Urban
- Open to international Cooperation

Mexico:

Specific Initiatives:

- Investment in green infrastructure and ecological corridors
- Accessibility to green areas, security and rescue of public space in urban areas.
- Installation and impacts of green walls and rooftops to reduce levels of temperature and
- Measurement of the impacts of passive systems in energy saving.
- 0 waterproofing, etc.) and street/parking lot shading policies. Development of reflective horizontal surfaces (such as inherent rooftops, reflective
- 0 Food performance with the installation of waterbeds and urban gardens in rooftops, and its impacts in social programmes.
- 0 Conduct research on peri-urban spaces, the relation between mass transportation and urban infrastructure and the urban land market.
- 0 definition of crossroads, among other policies related to life improvement at urban Address the need of intelligent designs for confined and semi-confined lanes, for the
- All initiatives are open to international cooperation.

Peru:

. as climate change adaptation on territorial planning, sustainable management of water and developed different projects/initiatives that reflect its priorities on Urban Development, such Priority topics: Ecosystems, food security, water/water security, energy. The country

Specific Initiatives:

- National Platform of Sustainable Cities and Climate Change of Peru: Pilot project in the city
- Urban water. Challenges in the Americas
- Water, Climate and Development
- 0 Sierra Azul National program for seeding and harvesting water and program of hydro-infrastructures
- 0 Recovery of eco-systemic services in the watershed (sub-cuenca) Santa Eulalia
- NEXUS Dialogue Programme
- Program "Our Cities"
- 0 Programme sustainable cities and urban development for climate protection and

- "Ciudades con Futuro": Transport and connectivity in Lima (Perú)
- "Ciudades con Futuro": Tra
 Program sustainable cities
- Glacier Programme
- 0 National plan for integrated management of solid residues 2016-2024
- 0 Integrated management of solid residues for sustainable and inclusive development
- Incentive programme to improve the municipal management
- All initiatives are open to international cooperation.

Uruguay:

- Priority topics: Smart cities, transport, energy and social issues.
- Specific initiatives:
- Transport and Public Works) Electric Transport (Stakeholders: Ministry for the Energy and Mining Industry/ Ministry of

150 taxis and 150 utility vehicles (unconditional goal) or 110 buses, 550 taxis and 900 utility Objective: Develop an efficient and low carbon transport in particular incorporating 15 buses, vehicles (conditional goal) by 2025.

- Open to international cooperation
- Sustainable Urbanization: H2020 projects involving partners from LAC

environment, resource efficiency and raw materials" EC included in the Work Programme 2018-2020 under the Societal Challenge 5 on "Climate action, As a concrete future action to strengthen EU-CELAC cooperation on Sustainable Urbanization, the (First Stage) and 4th September 2018 (Second Stage). EU-CELAC collaboration". It is a two-stage joint call with deadlines for submission: 19 Feb 2019 restoration and rehabilitation of urban ecosystems". For 2019, the topic focuses on "Strengthening Strengthening international cooperation on sustainable urbanisation: nature-based solutions for a flagship topic "SC5-13-2018-2019:

sustainable urbanization through its framework programme Horizon2020 involving the LAC Furthermore, in the past years, the European Commission implemented 22 STI projects related to (5), Nature-Based Solutions (7) and different cross-sectorial projects (3). countries. The projects address the following thematic areas: Water (5), urban planning (2), ICT

Urban Sustainability implemented between 2014 and 2017). (See Annex 2 for the full list of the mentioned H2020 projects with LAC participation related to

ANNEX I -Template of the questionnaire on SU national capacities

Country:

SU On going Initiatives

Initiative/ Projects/ etc.:

Specific Objective:

National Initiative (Y/N):

Open to international Cooperation (Y/N):

Stakeholders involved (Please choose):

Main contact (Name/ E-mail):

If applicable: Cooperation with EU?

SU Identified events (Name & describe below if applicable):

implemented between 2014 and 2017 ANNEX 2 - List of H2020 projects with LAC participation related to Urban Sustainability

ERA-NET Co-fund Sustainable Urbanisation Global Initiative (EN-SUGI)

of 17 European Funding Agencies and 7 from outside EU (US, Argentina, Brazil, Japan, Chinese much wider range of global markets. EN-SUGI is a project that foresees the financial participation solutions that bring research and innovation together from across the globe, and benefits from a Tapei, Quatar) (2017). (JPI) Urban Europe and the Belmont Forum (BF), EN-SUGI develops more resilient, applied urban this FEW Nexus challenge. Furthermore, by linking the activity of the Joint Programming Initiative research and innovation expertise across Europe and beyond to find innovative new solutions to The ERA-NET Sustainable Urbanisation Global Initiative (EN-SUGI) brings together the fragmented

Water:

raw materials and by-products and agro-industrial wastes (2014), Colombia competitive MBR for municipal and industrial wastewater treatment plants (WWTP), from ceramic industrial wastes for waste water reuse. REMEB MBR: Eco-friendly ceramic membrane bioreactor (MBR) based on recycled agricultural and Project aims to develop a ceramic, ecological and

wastewater treatment. The project aims at unleashing the small community economies' potential iMETland: A new generation of Microbial Electrochemical Wetland for effective decentralized

water, energy, ICT, land resources and safeguarding the environment (2014), Argentina, Mexico through innovative wastewater treatments technologies, creating a virtuous circle connecting

in tertiary water treatments (2014), Argentina MAT4TREAT - Enhancing water quality by developing novel materials for organic pollutant removal

RevivED WATER: Low-energy solutions for drinking water production. Shortage of fresh water has Osmosis (RO) technology. (2015). Chile produced; with significantly reduced energy consumption compared to state-of-the-art Reverse standard for desalination of seawater. Safe, affordable and cost-competitive drinking water will be to overcoming the drinking water challenge by establishing electrodialysis (ED) as the new become one of the major challenges for societies all over the world. The project aims to contribute

participating research programme owners / managers of 19 countries to implement a joint call for proposals, with EU co-funding in the area of closing the water cycle gap (2017), Brazil 2017: Closing the water cycle gap, The WaterWorks2017 project is pooling resources from the 23 Water Works 2018-2022 in Support of the Water JPI (WaterWorks2017) and of the EC Call SC5-33-

Urban planning

inform the pressing need to reshape how humanitarian action and development aid is undertaken nonetheless grappling with the complexities of adapting their approaches to the urban context. a fundamental shift in the landscape of crises to cities is no longer contested, aid actors are unplanned urbanisation, climate change and resource pressures. While the realisation that there is The challenge posed by urban vulnerability is immense and is being compounded by rapid in urban areas to address the challenge posed by urban vulnerability (2015), Colombia. The Preparedness and Resilience to address Urban Vulnerability (PRUV) Consortium aims to

impact of displacement and social exclusion on indigenous youth, as well as offer a means of are often relegated to the margins of policy making and public interest. It seeks to research the to make visible indigenous subjects whose daily lives, collective concerns and social circumstances experiences of urban space among young indigenous Mapuche living in Santiago de Chile, in order The invisible city. Mapuche mapping of Santiago de Chile. The proposed research explores intervention (2015), Chile

leveraging on existing FIWARE outcomes and building reference standards for common challenges SmartSDK aims at creating a sustainable FIWARE ecosystem between Europe and Mexico by Open Source solutions leveraging on results of European and Mexican initiatives based on FIWARE challenges of today world. In this perspective, SmartSDK will adopt existing Open Standards and reference data models to support the agile development of smart solutions for sustainability derive from these applications a set of FIWARE-based reference service architectures and To fulfil this goal, SmartSDK will analyse successful FIWARE applications deployed in Europe and

VC investors and global corporates of 4 smart verticals: cities, digital content, agrifood and "IMPACT GROWTH will fund 4 European Superstar Startups (unicorn potential) confirmed by top factories 48 companies exploiting Future Internet research results will be discovered out of a deal

leveraging the 6 million euros of public funding with 6 additional million euros of private the 1.5 million euros crowd funded investment led by the VCs and platforms in the consortium through the crowd will select the best companies. 4 out of the 48 startups will succeed in reaching start a crowdfunding track. A "live due diligence" from the acceleration and the market response flow of 5.000 startups through 4 OpenCalls. They will join an acceleration programme and will investment. (2016), Mexico

inspire a new breed of applications and services (2016). Brazil Evolving FIRE into a 5G-Oriented Experimental Playground for Vertical industries. Key industrial leading to the fourth industrial revolution. New ones are in the making, e.g. Smart Cities, which e.g. automotive, are rapidly transformed by digital and communication technologies

of the Digital Studies (2017), Ecuador perspective on the Smart City through critical humanities research and innovation in the context Real Smart City, the overarching objective of the ReaLsMs is to develop and implement a

playing a profound role in our societies and industries (2017), Brazil modern high-speed microprocessors enhance communication, computing and electronics, thereby Smart thermal management of high-power microprocessors using phase-change. Developments in

Nature based solutions / Environment

replicable, and locally-attuned nature-based solutions to enhance the climate (2016) Urban Nature Labs: UNaLab will develop, via co-creation with stakeholders and implementation of 'living lab' demonstration areas, a robust evidence base and European framework of innovative,

linked and actions in one sector more often have impacts in one or both of the others (2016). needs of their citizens with respect to food, energy and water. These three sectors are inextricably Eranet Sustainable Urbanisation Global Initiative. Ties around the globe are struggling to meet the

management, and (2) to assist in the implementation of NBS... (2016), Colombia Renaturing Urban Plans focused on climate change mitigation and adaptation and efficient water GreenUP aims at obtaining a tailored methodology (1) to support the co-development of Urban GreenUP: New Strategy for Re-Naturing Cities through Nature-Based Solutions. Urban

Cities. Led by Hamburg, a well-balanced, competent partnership will position the EU as global Regeneration in Cities. Hamburg (DE), London (UK) and Milan (IT) have decided to create CLEVER CLEVER Cities - Co-designing Locally tailored Ecological solutions for Value added, socially inclusivE leader in nature-based solution (NBS) innovation (2016). Ecuador

World, however fragmented, are prospering, forming a global movement of Edible Cities (2016), towards more sustainable, liveable and healthier cities. A multitude of initiatives around the productive cities. The systemic use of urban landscapes for food production is a major step Edible Cities Network. Integrating Edible City Solutions for social resilient and sustainably

reduction. RECONECT aims to contribute to European reference framework on Nature Based RECONECT- Regenarating ECOsystems with Nature-based solutions for hydro-meteorological risk

Solutions (NBS) by demonstrating, referencing and upscaling large scale NBS and by stimulating a new culture for 'land use planning' that links the reduction of risks (2017), Brazil

forecast system for (2017). Argentina, Bolivia, Brazil, Chile, Colombia, Mexico, Venezuela of partners with complementary expertise, which will develop and implement an analysis and (Prediction of Air Pollution in Latin America and the Caribbean) is to establish a sustained network PAPILA: Prediction of Air Pollution in Latin America. The overall objective of the PAPILA project

Cross Sectorial

terms of our capacity to assess and predict risks due to geohazards (landslides and rock slides, Geohazards: Risk Assessment, Mitigation and Prevention, the project provides a step change in earthquakes, floods). This is necessary in order to make built environments and infrastructures resilient (2014), Argentina, Bolivia

international/intersectoral project addressing theoretical models for next-generation concretes, characterised by a significant sustainability enhancement for the construction industry (2014), SUPERCONCRETE: Sustainability-driven international/intersectoral Partnership for Education and Argentina, Brazil modelling next generation CONCRETE. Þ synergetic cross-disciplinary

that of the Cohesive City (2016). Brazil, Mexico. development of innovative approaches to address a crucial societal challenge of the 21st century, project aims to create a structured network for the exchange of knowledge and the joint The Cohesive City: Addressing Stigmatisation in Disadvantaged Urban Neighbourhoods. This