

# Webinar: Food-Water-Energy: Nexus approaches for sustainable development and improved living standards

## Organized by: ENRICH in LAC and JPI Urban Europe

**Date:** March 4, 2021 – 15.30-17:30 CET (Brussels); 11:30-13:30 (Brasília, Montevideo, Buenos Aires)

### Introduction & Background

*“The interactions between food, water and energy sectors, both now and over the next few decades, are of critical interest to policy-makers, scientists, and society at large. By 2050, the world population is projected to increase to around 9 billion, with the number of people living in urban areas expected to double. These trends in population density and movement, coupled with land use change and climate variability, will lead to major increases in demand for resources and hold important implications for security and social justice. The reciprocal and dynamic processes of urbanisation, including the physical movements of populations, the build-up of city territories, transformation of economic structures, extension of suburban sprawl, and re-urbanisation, will result in increasing regional stress on the urban food-water-energy (FWE) system.*

*To date, we have a limited understanding of the FWE system’s complexity, resilience and thresholds. Investigations of this complex system will produce discoveries that cannot emerge from research on food or water or energy systems alone. An urban FWE nexus approach focuses on intersections and potential synergies between sectors and fields commonly seen apart in business, policy, and research. Thus, the FWE nexus approach can play a pivotal role in fostering sustainable urbanisation, by proposing potential solutions to govern resource interdependencies through comprehensive spatial perspectives and multi-level governance strategies.”* (from [Midterm Valorization Event: SUGI – Sustainable Urbanisation Global Initiative Food-Water-Energy Nexus](#))

This webinar is one of a series organized by ENRICH in LAC and JPI Urban Europe on sustainable urbanization. The aim of this workshop series is to facilitate an exchange of knowledge and experiences between some Latin American countries and Europe. The webinar will build upon previously organized events in the series on Positive Energy Districts, organized within the ANPEI 2020 Conference and [Urban Living Labs](#).

**Objective:** In this Webinar, participants from Europe and Latin America will gain knowledge and understanding of the Food-Water-Energy Nexus, its characteristics, as well as its tool for how to address the city solutions in innovative ways with concrete examples. [Belmont Forum](#) will also present its upcoming activities and opportunities. Question and answer session will allow participants to clarify their understanding and further elaborate on the topic.

**Target Group:** Programme managers at funding agencies, city administrators, local public officers, city planners and developers, researchers working on urbanization related areas, civil society, companies, and other stakeholders interested in co-creation processes.

**Total Length:** 2 hours

**Learning Outcomes:** Deepening the understanding of FWE nexus in urban contexts; potential to enhance living standards and contribute to sustainable (urban) development

### Background Documents :

- JPI Urban Europe/Belmont Forum - [SUGI Projects Catalogue](#)

- **Project: WASTE FEW ULL**

WASTE FEW ULL will map and substantially reduce waste in the food-energy-water nexus in cities across three continents: Europe, Africa and South America.

The aim of the WASTE FEW ULL project is to develop and test internationally applicable methods of identifying inefficiencies in a city-region's food-energy-water nexus. We will undertake this through an international network of industry/civic society-led Urban Living Labs (ULL) in four urban regions – UK (Bristol), Netherlands (Rotterdam), South Africa (Western Cape) and Brazil (São Paulo). Partners in Norway and the USA will provide economic valuations of potential impact, and impact-led public education, outreach and dissemination.

The Urban Living Labs (ULLs) of stakeholders are organised to

- map resource flows
- identify critical dysfunctional linear pathways
- agree the response most appropriate to the local context
- model the market and non-market economic value of each intervention
- engage with decision makers to close each loop.

The project will contribute with policy decision support models for economically viable waste reduction, rethinking waste as a resource as well as establish entrepreneurship networks in each ULL to continue working after the formal end of the project

- **Project: CREATING INTERFACES**

**Link to Video:** <https://youtu.be/iAz9GGSWd0U>

The project “**Creating Interfaces**” addresses capacity building for the urban food-water-energy (FWE) -nexus, making the FWE-linkages understandable to the stakeholders (city government, science, business and citizens), and facilitating cooperation and knowledge exchange among them. It will develop and test innovative approaches for local knowledge co-creation and participation through Urban Living Labs and Citizen Science approaches in three mid-size cities on water: Tulcea (Romania), Wilmington (USA) and Slupsk (Poland). Complemented by previous research and a citizen science toolbox, these labs comprise a user-defined co-creative approach, where research questions, problems, and solutions are decided and implemented with stakeholders themselves.

**AGENDA**

<b>Welcome and introduction</b>	Welcome by: <b>Berna Windischbaur</b> , ENRICH in LAC Intro by moderator: <b>Johannes Riegler</b> , JPI Urban Europe
<b>Introduction to FWE</b>	<b>Jonas Bylund</b> , JPI Urban Europe
<b>Upcoming Belmont Forum Opportunities in FWE</b>	<b>Erica Key</b> , Executive Director, Belmont Forum Secretariat
<b>Project: WASTE FEW ULL – Waste Food-Energy-Water Urban Living Labs</b>	<b>Daniel Black</b> , Daniel Black + Associates, Bristol, UK) <b>Ester Dal Poz</b> , University of Campinas, Brazil
<b>Case from Uruguay</b>	<b>TBA - Agencia Nacional de Investigación e Innovación de Uruguay (ANII)</b>

<b>Project: Creating Interfaces</b>	<b>Pia Laborgne</b> , EIFER, Karlsruhe, Germany & <b>Joanna Suchomska</b> , PZR - Sustainable Development Laboratory – Torun, Poland
Discussions and questions and answers from the audience incl. Mentimeter poll	All; moderated by <b>Johannes Riegler</b>
Summary and farewell	<b>Berna Windischbaur and Johannes Riegler</b>