

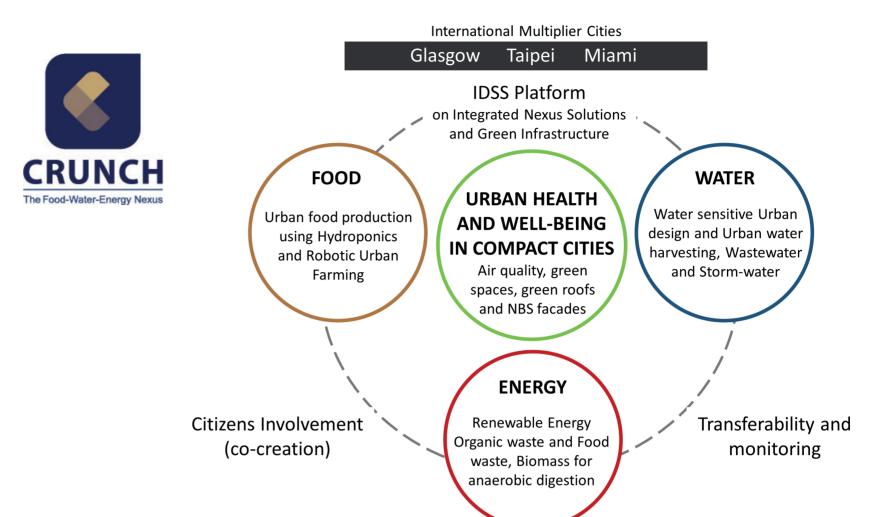




CRUNCH

The CRUNCH project involves 20 partners from six countries. It will help cities solve the increasing challenges of food, water and energy management by investigating food, water and energy as one complex system, leading to increased knowledge and discoveries that cannot emerge when investigated separately in 'silos'.

It will combine an Integrated Decision Support System (IDSS) and visualisation models with expert knowledge, using six Urban Living Lab scenarios and a context specific FWE-Nexus framework. To facilitate co-production and cost-effectiveness across the ULLs, the project proposes an evidence-based framework for creating resource-efficient and resilient cities.



Eindhoven (NL)

Urban Living Labs to be developed, based on principles of the Circular Economy.

Gdansk (POL)

Aim/objective

The aim of CRUNCH is to demonstrate how the FWE Nexus can strengthen urban resilience through creating an interconnected knowledge platform with cross-sectorial indicators for a support tool and assessment framework, to guide decision-making.

Approaches/methods

CRUNCH will co-define context-specific challenges for each of the Urban Living Labs in the participating cities, including urban food production, renewable energy systems through biomass and sustainable drainage systems.

Portsmouth (UK)

Expected results and impacts

Uppsala (SWD)

CRUNCH will deliver a comprehensive overview of potential solutions, deep knowledge and evidence for the co-design of the selected urban areas. It aims for innovative outcomes that are transdisciplinary, working closely with local stakeholders.

CRUNCH: Climate Resilient Urban Nexus CHoices: operationalising the Food-Water- Energy Nexus

Duration: 2018–2021 **Internet:** www.fwe-nexus.eu

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Budget: 1.503.400 €

Partners: University of Portsmouth, Southend-on-Sea Borough, Experior Microtechnologies, AECOM, KnowNow Information Ltd, Glasgow, Soil Association, Technical University of Eindhoven, Eindhoven City Council, Gdansk University of Technology, Gdansk City Council, Uppsala University, Uppsala City Council, Florida International University, City of Miami, National Taiwan University, Taipei City Government, and the Ecological Sequestration Trust

Involved cities

- Southend-on-Sea (United Kingdom)
- Glasgow (United Kingdom)
- Eindhoven (Netherlands)
- Gdansk (Poland)
- Uppsala (Sweden)
- Miami (USA)
- Taipei (Taiwan)

Sustainable Urbanisation Global Initiative (SUGI)/Food-Water-Energy Nexus

The Sustainable Urbanisation Global Initiative (SUGI)/Food-Water-Energy Nexus is a call jointly established by the Belmont Forum and the Joint Programming Initiative Urban Europe. The cooperation was established in order to bring together research and expertise across the globe to find innovative new solutions to the Food-Water-Energy Nexus challenge.

jpi-urbaneurope.eu

www.belmontforum.org



