SiEUGreen

Sino-European innovative
green and smart cities

A NEW VISION

SiEUGreen

Project at a glance

Acronym: SiEUGreen

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Duration: 01/01/2018 – 31/12/2021
Grant Agreement No.: 774233
Total Cost: 7.742.865€
EU contribution: 6.999.999, 38€
Call identifier: SFS-48-2017

Topic:
Resource-efficient urban agriculture for multiple benefits – contribution to the EU-China Urbanisation Partnership

SiEUGreen
in a nutshell - A new Vision

Taking into consideration challenges and opportunities presented by global urbanization, the SiEUGreen project brings together a multi-disciplinary Consortium of European and Chinese researchers, technology providers, SMEs, financiers, local and regional authorities and resident communities, in order to apply novel urban agricultural technological techniques new approaches for social engagement and investigate the economic, environmental and social benefits of urban agriculture (UA).

The project aspires to enhance the EU-China cooperation in promoting urban agriculture for food security, resource efficiency and smart, resilient cities. Throughout SiEUGreen's implementation, EU and China will share technologies and experiences, thus contributing to the future developments of urban agriculture and urban resilience in both continents. The project contributes to the preparation, deployment and evaluation of showcases in 5 selected European and Chinese urban and peri-urban areas:

- A previous hospital site in Norway,
- Community gardens in Denmark,
- Previously unused municipal areas with dense refugee population in Turkey.
- Big urban community farms in Beijing, China and
- A new green urban development in Changsha Central China.

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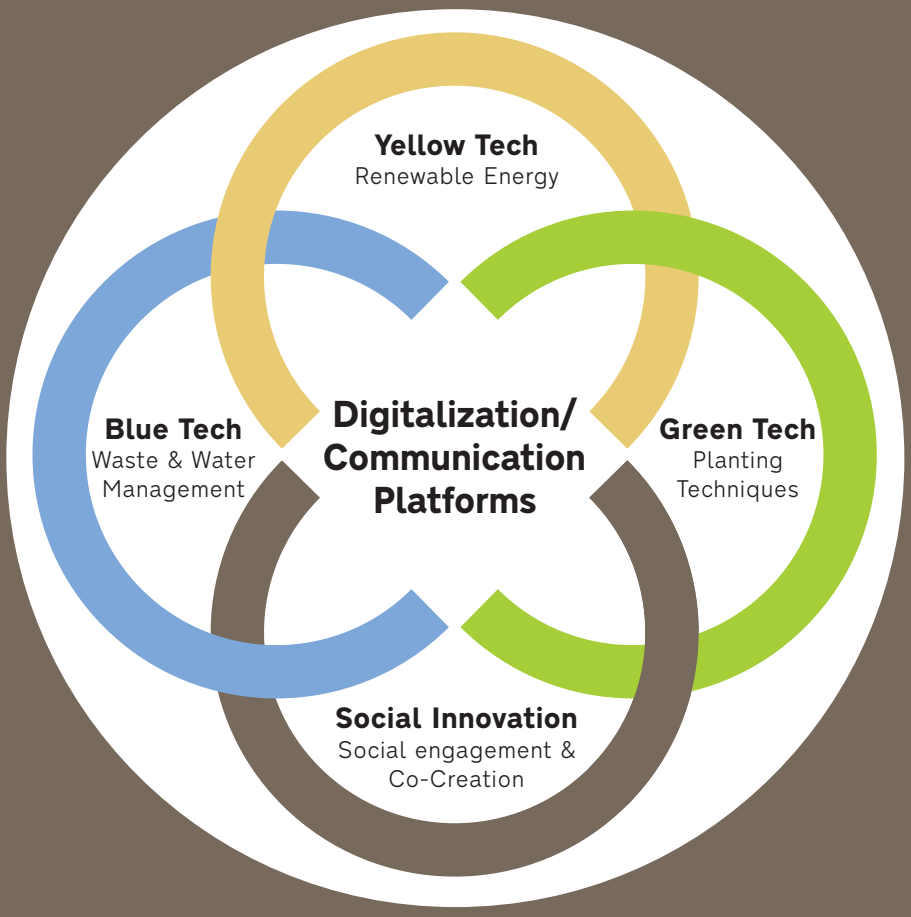

The SiEUGreen Innovation Principles

Building on the model of zero-waste and circular economy, SiEUGreen will combine technological and societal innovation, by providing innovative technological tools, novel methodologies for cultural and behavioral analysis and impact assessment tools. A sustainable business model allows the project to live beyond the project period is planned by joining force of private investors (owners of the properties and land), governmental policy makers, civil residents and academia as technology supporters.

Main Objectives

The SiEUGreen project will incorporate elements of digital Social Innovation, by enhancing resident participation and awareness raising through a gamification app and an interactive platform. This will facilitate the collection of important human data linked to the social and cultural changes expected to be generated at each of the local communities and at an international level by the implementation of the SiEUGreen showcases.

In the SiEUGreen project there is close interaction with the community therefore the ethical aspects are particularly important. The SiEUGreen consortium has analyzed the potential ethical considerations to be taken into account:

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01 Improve resilience of urban centers in Europe and China and increase food security

02 Develop and showcase novel resource efficient systems for horticultural production in urban and peri-urban environments in China and Europe.

03 Create a “bridge” of shared knowledge and best practices between Europe and China, through the collaboration of scientists, communities and policy-makers at both continents.

04 Create an active trans-disciplinary community of multiple actors: researchers/ technology providers, public authorities, private actors, residents, local communities, SMEs.

05 Create new value chains and develop sustainable business models that can be replicable across regions and countries.

06 Develop evaluation methods to measure the economic, environmental and social impacts of urban farming and its value chains on the urban communities.

07 Raise awareness, communicate the results and promote the adoption of the “green – smart – inclusive city” model

SiEUGREEN

Partners of the project

01
Norwegian University
of Life Sciences
Norway

02
Norwegian institute
of Bioeconomy Research - NIBIO
Norway

03
Institute of Vegetables
and Flowers,
Chinese Academy
of Agricultural Sciences
China (People's Republic of)

04
CREVIS SPRL
Belgium

05
NORDREGIO
Sweden

06
EMETRIS
SYMVOULOI ANAPTYXIS
ORGANOSIS
KAI PLIROFORIKIS AE
Greece

07
ARHUS KOMMUNE
Denmark

08
VILABS (CY) LTD
Cyprus

09
OKYS LTD
Bulgaria

10
Beijing Agricultural Ecological Ideas Services Union
China (People's Republic of)

11
Beijing Green Valley Sprout CO., LTD
China (People's Republic of)

12
A-Aqua AS
Norway

13
Hatay Metropolitan Municipality
Turkey

14
Rural Development Institute,
Chinese Academy of Social Sciences
China (People's Republic of)

15
Sampas Bilisim Ve Iletisim Sistemleri Sanayi Ve Ticaret A.S.
Turkey

16
Hunan Hengkai Environmental Protection Science & Technology Investment Co.Ltd
China (People's Republic of)

17
SEECON INTERNATIONAL GMBH
Switzerland

18
LEIBNIZ-INSTITUT FUR GEMUSE- UND ZIERPFLANZENBAU GROSSBEEREN/ERFURT EV
Germany

19
Beijing Photon Science & Technology Co., ltd.
China (People's Republic of)

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The project has received funding from the European Union's Horizon 2020 Research, and Innovation program, under grant Agreement N 774233 and from the Chinese Ministry of Science and Technology.

Co-funded by the Horizon 2020 programme of the European Union

Co-funded by the Chinese Ministry of Science and Technology