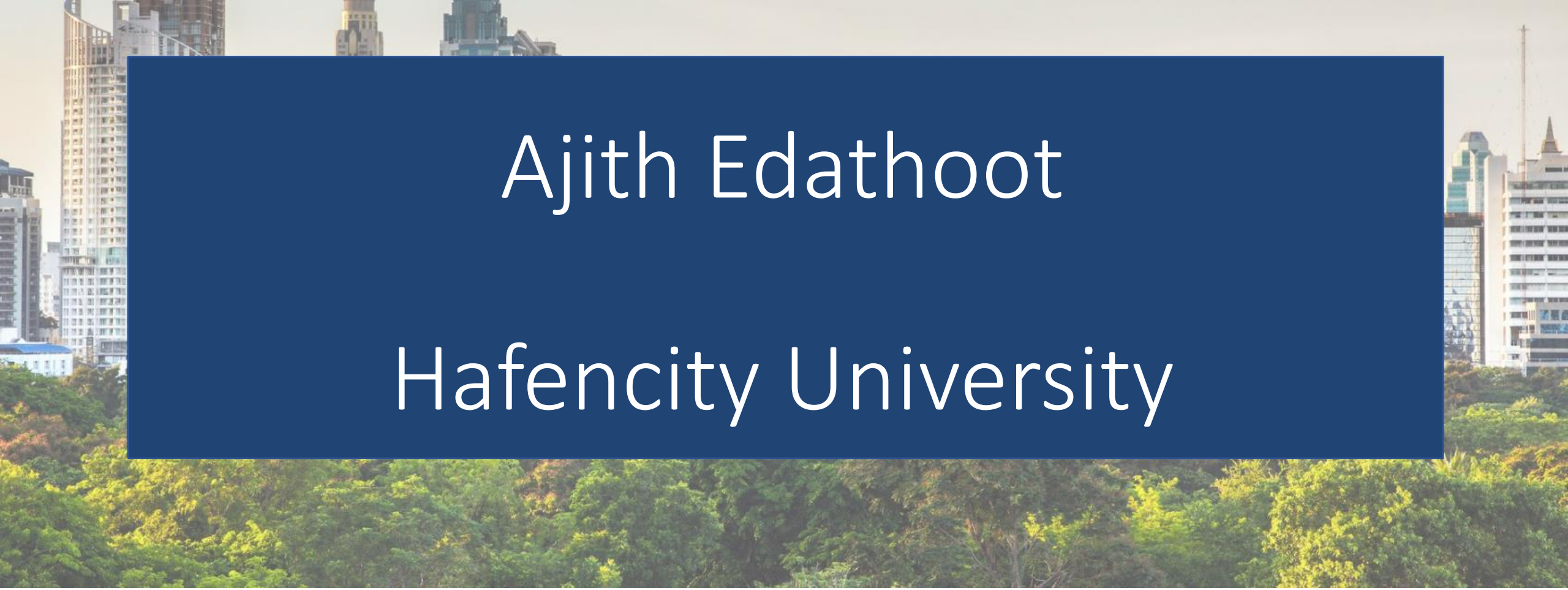


Ajith Edathoot

Hafencity University

Horizon Europe

CL6-2021-ZEROPOLLUTION-01-03

CL5-2021-D2-01-16

CL6-2021-FARM2FORK-01-17

CL6-2021-CircBio-01-0

Politics
Environment
Culture
Technology
Society
Economy
Design

Interdisciplinary approaches on the interfaces between technical infrastructure planning and spatial, urban, landscape and open space planning

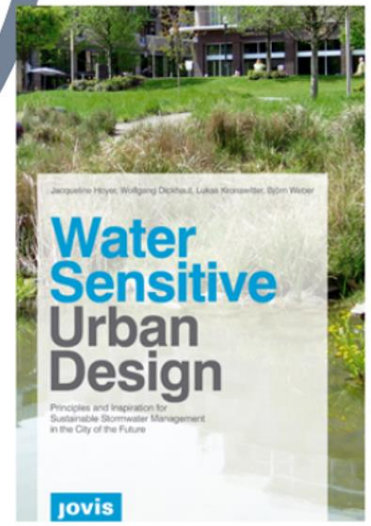
hcu HafenCity Universität Hamburg

Environmentally Sound Urban and Infrastructure Planning (USIP)

European & International Applied Research partnerships

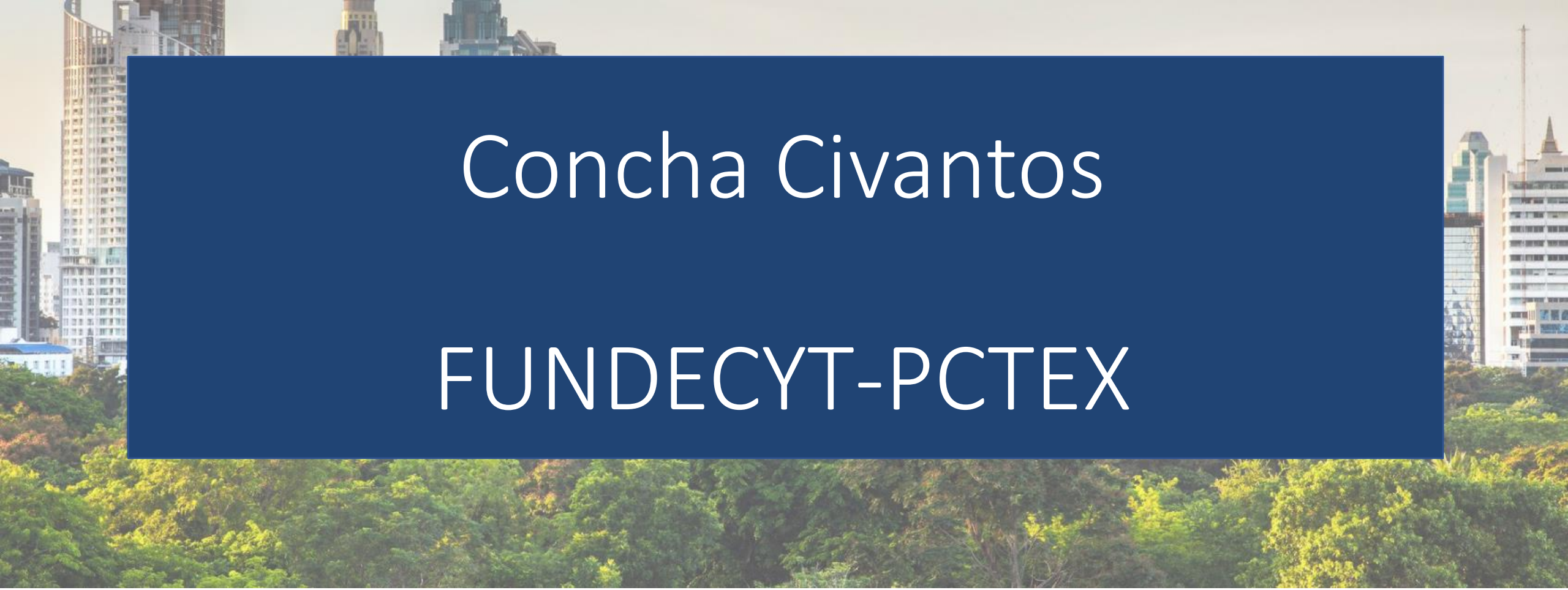
Blue Green Streets

HAMBURG DAR ES SALAAM



- Green Roofs
- Constructed Wetlands
- NbS for Storm water & Wastewater Management
- Multi-talented street designs

For more info, contact me: ajith.edathoot@hcu-hamburg.de



Concha Civantos

FUNDECYT-PCTEX

UNIVERSIDAD DE EXTREMADURA

TRAt H_2O Grupo de Investigación Tratamiento de Aguas

WATER TREATMENT RESEARCH GROUP

TOPIC: HORIZON-CL6-2021-ZEROPOLLUTION-01-03: Preventing and managing diffuse pollution in urban water runoff

OUR RESEARCH AND INNOVATION ACTIVITIES

- Water ozonation processes. Advanced chemical oxidation processes: Fenton, photofenton, ozone-hydrogen peroxide, catalytic ozonation, photocatalytic ozonation, ozone-activated carbon. Photocatalytic oxidation.
- Catalysts for advanced oxidation catalytic processes.
- Emerging and priority polluting compounds.
- Biological-chemical oxidation combination for wastewater
- Designing and synthesis of activated carbon adsorbents and catalysts
- Upgrading processes for water contaminants

OUR INFRASTRUCTURES

- 2 labs of general use
- 1 lab with analytic equipment (HPLC and GC with different detectors (UV-visible, FID, TCD, etc), TOC, AOX, COD analyzers, etc).
- 1 lab houses a drinking water treatment pilot plant
- 1 lab (rooftop) with CPC photoreactors and photovoltaic panels to conduct pilot plant runs on solar advanced oxidation processes.
- horizontal and vertical activation ovens, ceramic reactors, high pressure and high temperature reactors
- 1 lab for the characterizations of the catalysts and HPLC and GC mass detectors

OUR CONTRIBUTION TO THE IMPACTS

- able to reduce or control the pollution from contaminants of emerging concern, pathogens, among others
- able to develop technologies and procedures for capturing and upgrading water contaminants to commercial products

OUR CONTRIBUTION TO THE ACTIVITIES

- Removal of contaminants of emerging concern, pathogens, among others. This includes analytical determinations of micro-pollutant concentrations, toxicity, pathogens, etc.
- Developing activated carbon adsorbents and catalysts and combination of them for targeting specific commercial products.

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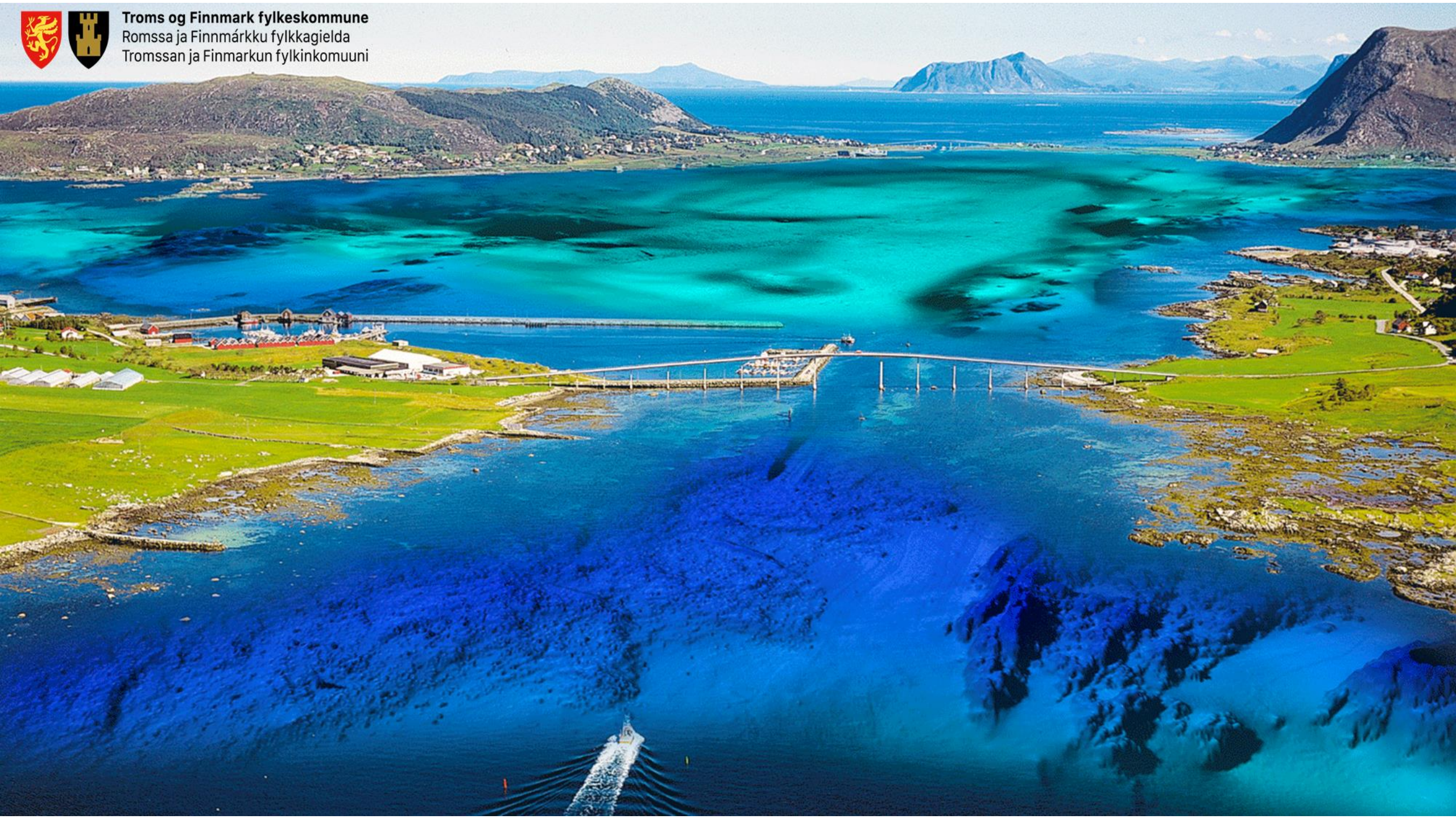
fbeltran@unex.es

LET'S HAVE A MEETING!!

Stein Arne Rånes

Troms og Finnmark fylkeskommune

Troms og Finnmark fylkeskommune
Romssa ja Finnmárkku fylkkagielda
Tromssan ja Finmarkun fylkinkomuuni



Yolanda Marín Ventura

Fundación Delegación Fundación Finnova

Capitalisation of the CILIFO project:

Solutions for climate change adaptation and mitigation - recovery of burnt soils caused by forest fires

The proposal seeks to capitalise on the results of the CILIFO project (0753_CILIFO_5_E; funded by the Interreg POCTEP 2014-2020 programme), for the **recovery of burnt soils caused by forest fires through the implementation of technosoils**.

GENERAL AIM

To demonstrate how the "artificial substrates" developed (also called technological, amendments or techno-soils), coming from the valorisation of "non-hazardous waste", by means of specific formulations studied, are capable of reducing NOx (nitrogen oxide) pollution and improving the properties of the soils where they are applied.

SPECIFIC OBJECTIVES

SO1. Design and development of "artificial substrates" created using non-hazardous waste for NOx capture and soil fertilisation.

SO2. Development of a "pilot project" in a real and scalable environment (from initial TRL6 to TRL9) on 4 test plots and 1 reference plot, for the monitoring of atmospheric NOx uptake and soil nitrates.

SO3. Study of the state of the art on the current legislation on the use of Non-Hazardous Waste (NHW); and improvement of the mechanisms of the legal regulatory framework for NHW.

www.finnova.eu | www.cilifo.eu | http://innovation.cilifo.eu/
Yolanda Marin <projects@finnova.eu> | José Manuel Requena Benítez <jrequena@finnova.eu>

Mustafa Ersoz

Selcuk University

Selcuk University

Materials technologies and Biotechnology units

- ❑ R&D
- ❑ Analysis&Testing
- ❑ Collaboration with Industry

✓ Materials Science and technologies	✓ Nanomaterials &Semiconductor Tech. (synthesis, patterning, functionalization, surface treat),
✓ Membrane technology and applications	✓ CVD systems / Processing techniques (films, fibers, coatings, etc).
✓ Bio-based materials & biotechnology	✓ Smart surfaces, interfaces chemistry
✓ Energy	✓ Sensors developments
✓ Directed self assembly of nanostructures for CMOS Technologies	

Track Records

- ✓ **H2020-Twinning**-2019 EngSurf-Twin-952289 “Reinforcing the Scientific Excellence of Selcuk University in Engineered Surfaces and Films for Emerging Technologies ”
- ✓ **H2020-SPIRE**, 2020, Waste2Fresh “Smart InnovatIve system for recyclIng wastewater and creatIng closed loops in textile manufacturIng IndustrIal processes
- ✓ **H2020-MSCA-RISE**-2017-778098 “Nanostructured Carriers for Improved Cattle Feed”
- ✓ FP7-**NMP**, Large Area Molecularly Assembled Nanopattern for Devices (LAMAND)
- ✓ FP7-**INFRA**-2012, The European Solar Infrastructure for Concentrated Solar Power (EU-SOLARIS)
- ✓ FP7-**SME**-2012-"Enhanced chitin-based biosorbents for drinking water purification “ChitoClean”
- ✓ FP7-**SME**-2013 “"Ingredients for Food and Beverage industry from a lignocellulosic source (LIGNOFOOD)
- ✓ **COST, ERA-NET**, Bilateral and National projects

Find information on the link; https://www.youtube.com/watch?v=rJNhlAunS_g