

Name Surname

# PRESENTATION TITLE

Venue, Town, Country

20/12/2019



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 869898.

# PRESENTATION STRUCTURE

About the project

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Aim of the project

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# POWERSKIN+ PROJECT

Highly advanced modular integration of insulation, energizing and storage systems for non-residential buildings.

European Union research project under the topic LC-EEB-01-2019 - Integration of energy smart materials in non-residential buildings (IA).

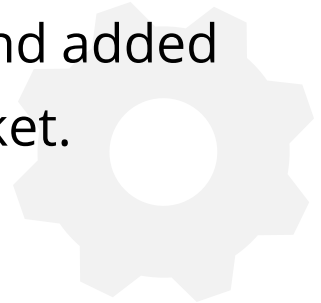
**START:** October 1, 2019

**DURATION:** 48 months

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# **POWERSKIN+ OVERALL CONCEPT**

The concept proposed by **POWERSKIN+** releases the untapped potential in the energy insulation/valorisation and energy generation of building facades by developing an integrated approach consisting of number of innovations whose technologies, efficiencies and added value exceed the currently available alternatives on the market.

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# POWERSKIN+ OVERALL CONCEPT

The project presents a radically new vision for insulation and renewable energy generation.

## COMBINING:

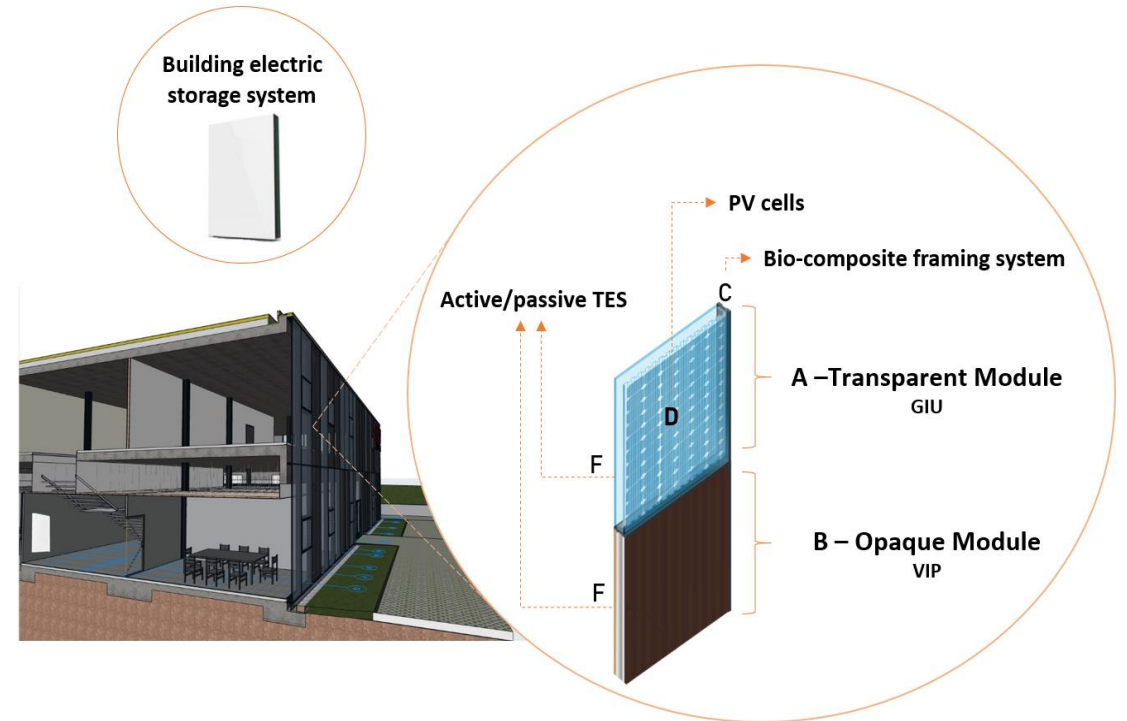
- number of state-of-the-art high energy efficient materials
- superinsulation elements
- solar energy harvesting components
- active energy storage features, with breakthrough technologies based on Nano formulation of VIP core, nano-PCM
- flexible thin glass solar cell
- multi-functional nano-enabled coatings

# POWERSKIN+ CONCEPT



Taking advantage of its modular nature, different combinations of **POWERSKIN+** modules and addons can be set to match any specific need and refurbishment budget.

In its full package, branded as **POWERSKIN+** Upgrade, the system targets the deep renovation market and accelerates the transition to plus energy ranks, while providing a unique all-in-one envelope retrofit solution.



# **POWERSKIN+ OBJECTIVES**

## **INNOVATIVE FAÇADE SOLUTION**

- Insulation & climate control
- Easy module installation
- Energy harvesting
- Energy storage

# POWERSKIN+ OBJECTIVES

## INNOVATIVE FAÇADE SOLUTION



- Generate a set of POWERSKIN+ hybrid-enabled system prototypes
- Demonstrate them in an operational environment thus treading the path for future exploitation of the Plus Energy Non-residential Buildings, as the primary market entrance
- Move from technology readiness level 5 to level 7

# POWERSKIN+ OBJECTIVES

## INNOVATIVE FAÇADE SOLUTION



Create and demonstrate pilot nZEB and Plus Energy Buildings (PEB) that can:

- be affordable
- provide a comfortable and healthy indoor environment
- be stimuli-responsive
- be dynamic to climatic conditions, occupant comfort and energy efficiency requirements

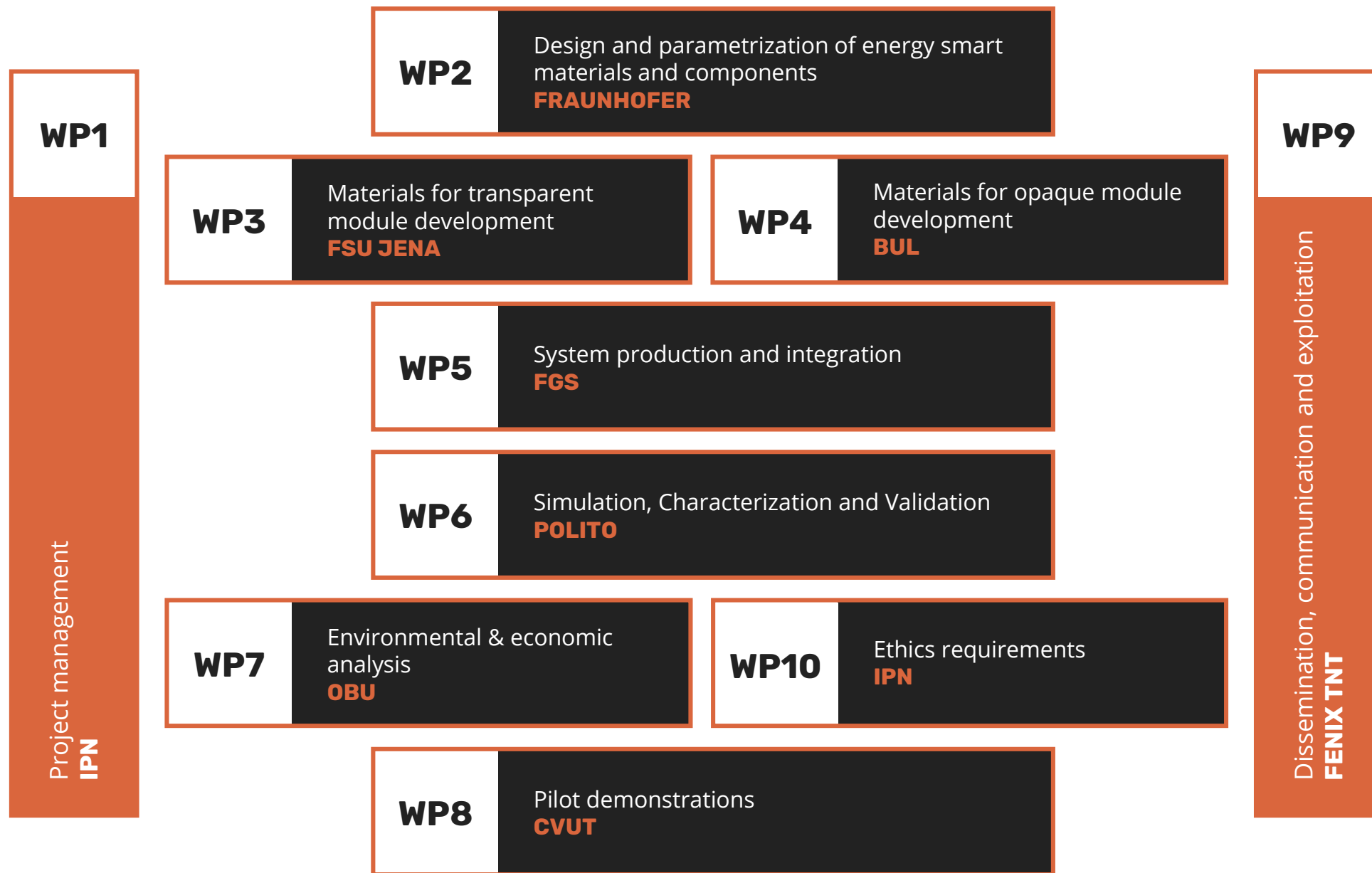


# PARTNERS

14 Partners

From 9 countries





# DEMONSTRATION SITES

POWERSKIN+ will **prototype** and **demonstrate** both **premium** and **affordable solutions**, for lightweight and non-load bearing curtain wall and DSF systems, based on high durability individual and system components (minimum expected average service life of 50 years for the modules).

POWERSKIN+ façade renovation system will be demonstrated and validated in an operational environment in **3 real-size non-residential buildings** located in 3 different European countries (Portugal, Slovenia and the Czech Republic).

The demo cases represent **2 different climates** (Csa - Hot-summer Mediterranean and Cfb - Oceanic in the Köppen climate classification), as well as different building practices (commercial, office, etc.), characterizing and realising how the overall system will work in real conditions in the future.



**PORTUGAL**

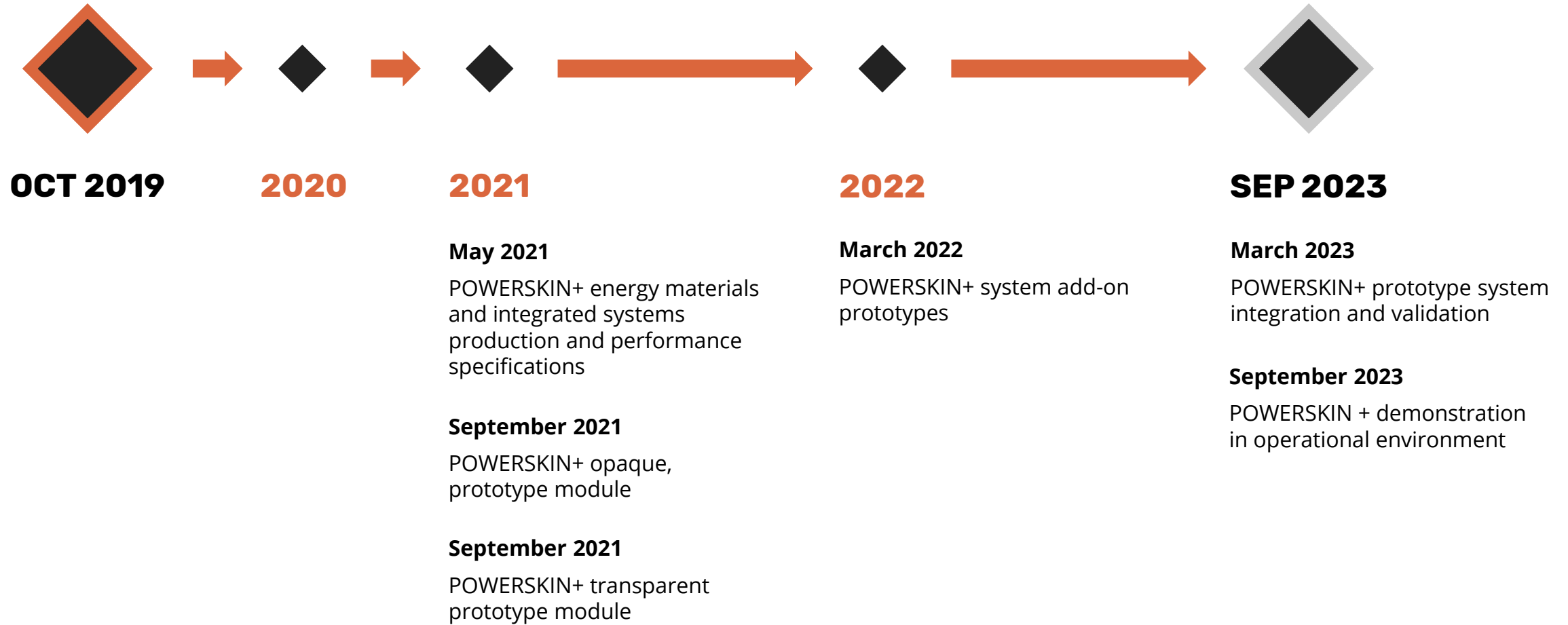


**CZECH REPUBLIC**

**SLOVENIA**



# TIMELINE



# SOCIAL MEDIA

Follow latest news on project website and social network profiles.



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[PowerskinPlus project channel](https://www.youtube.com/channel/UC...)

# CONTACT

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# THANKS FOR YOUR ATTENTION



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