# Introduction

## PRELUDE

**Aims to improve buildings smartness through:**

- Minimization of energy utilization;
- Maximization of self-consumption and Renewable Energy Sources investment and personalization;
- Reduction of CO2 footprint;
- Improvement of comfortable and healthy indoor conditions.

This will be possible through the combination of **innovative, smart, low-cost solutions** and proactive optimization service.

prelude-project.eu

@PreludeEu

prelude-project

## Partners

Aalborg University Denmark
Tampere University
aimen Technology Centre
Politecnico di Torino
Forschung Burgenland Research & Innovation
Brunel University London
CORE INNOVATION
Estia
iren
LIBRA A.I. Technologies
STAM Mastering Excellence
LASIA
1A Ingenieros Energía en Movimiento
City of Athens
TREE Technology
BLOK ARCHITEKCI
CPEG Caisse de prévoyance de l'Etat de Genève
EUROCORE Consulting
incotec
EMTECH
UniSMART Fondazione Università di Padova

# PRELUDE

Prescient building Operation utilizing Real Time data for Energy Dynamic Optimization

## Smart solutions for sustainable buildings

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement N° 958345.
Call identifier: LC-EEB-07-2020

# Impacts

- **Maintenance cost reductions** with high level of performance rather than waiting for something to fail.
- **Decrease of energy use** in buildings through application of technologies .
- **Improved indoor environment quality** and user satisfaction.
- **High replication potential:** by 2027, approximately 5.5 million m2 of residential heated area will be optimized.
- **Optimisation of the use of RES** by increasing their value and their consequent use and investment.

# Key features

- **Versatile and adaptive**
- **Passive solutions**
- **Predictive maintenance**
- **Big data and advanced analytic tools**
- **Proactive optimization**

# Demo Cases


| LOCATION OF THE SITE | PARTNER |
|---|---|
| Geneva, Switzerland | **CPEG / Estia** |
| Turin, Italy | **IREN / POLITO** |
| Kraków, Poland | **BLOK ARCHITEKCI** |
| Ry, Denmark | **Aalborg Univ.** |
| Egernsund, Denmark | **Aalborg Univ.** |
| Athenes, Greece | **DAEM** |
| Aalborg, Denmark | **Aalborg Univ.** |