Residential **Re**trofit assessment platform and demonstrations for near zero energy and CO_2 emissions with optimum co**ST**, health, comfort and environmental quality.

An EU Horizon 2020 research program aiming to better building & living

ReCO$_2$ST

3-step approach

REFURBISHMENT ASSESSMENT	REFURBISHMENT PLANNING	RENNOVATION PROCESS
through **R**ebubrishment **A**ssessment Tool (RAT)	with **Least Cost** method and Integrated Project Delivery (IPD)	Installation of personalised **Retrofit-Kit**
a holistic overview (cost, energy, user requirements, LCA) of the renovation potential for **user-driven refurbishment scenarios**	selection of **optimal Action Plan** and optimisation of installation process	SELECTION FROM **ReCO$_2$ST TECHNOLOGIES**

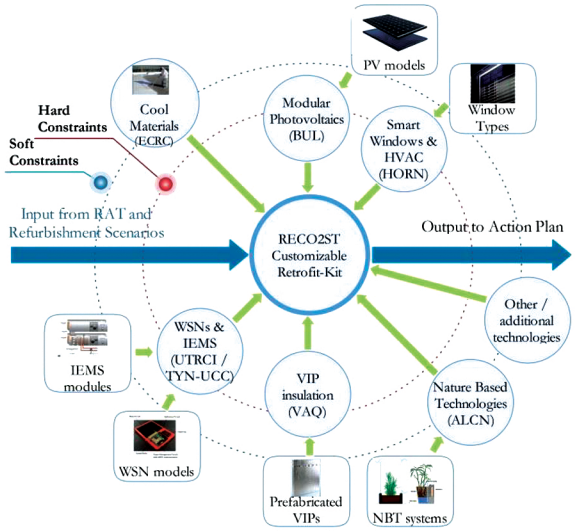
APPLICATION IN 4 DEMONSTRATION SITES

Frederikshavn, Denmark

London, UK

Vevey, Switzerland

Cadiz, Spain



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ReCO$_2$ST

COST & TIME EFFICIENCY

Integrated Project Delivery

Least Cost Approach

Synergies between Technologies

Predictive Maintenance

Modular Action Plans with Adaptable Solutions

ENERGY EFFICIENCY

Ultra-Thin Vacuum Insulation

Compact PV Arrays (Photovoltaics)

Smart windows

Cooling Materials

System Monitored & Controlled by Building Energy Management Systems (BEMS)

HUMAN HEALTH & COMFORT

Thermal, Acoustic and Visual Comfort

Passive on Demand Ventilation

Nature Based Air Treatment

Streamlined and Intuitive Integrated Environmental Management Systems (IEM) Optimised for Indoor Environmnetal Quality (IEQ)

ENVIRONMENT

Low CO2 Footprint Solutions

Decarbonised Refurbisgment

Urban Microclimate Improvement

Renewable Energy Sources (RES) Energy Generation

United Technologies Research Center

Brunel University London

Aalborg University Denmark

alchemia nova institute for innovative phytochemistry & closed loop processes

Tyndall National Institute Institiúid Náisiúnta

CORE INNOVATION

Frederikshavn Bolig Forening

greenwatt groupe e

HORNVINDUER

ReCO$_2$ST CONSORTIUM

Ayuntamiento de Cádiz Delegación Municipal de Vivienda

Procasa Promoción y Gestión de Viviendas de Cádiz S.A.

UCA Universidad de Cádiz

ECRC European Cool Roofs Council

Retraites Populaires

acciona

IERC International Energy Research Centre

Estia

va-Q-tec Always the right temperature

Quantis