



Clean buildings along with resource efficiency enhancement using appropriate materials and technology



**Coordinator**

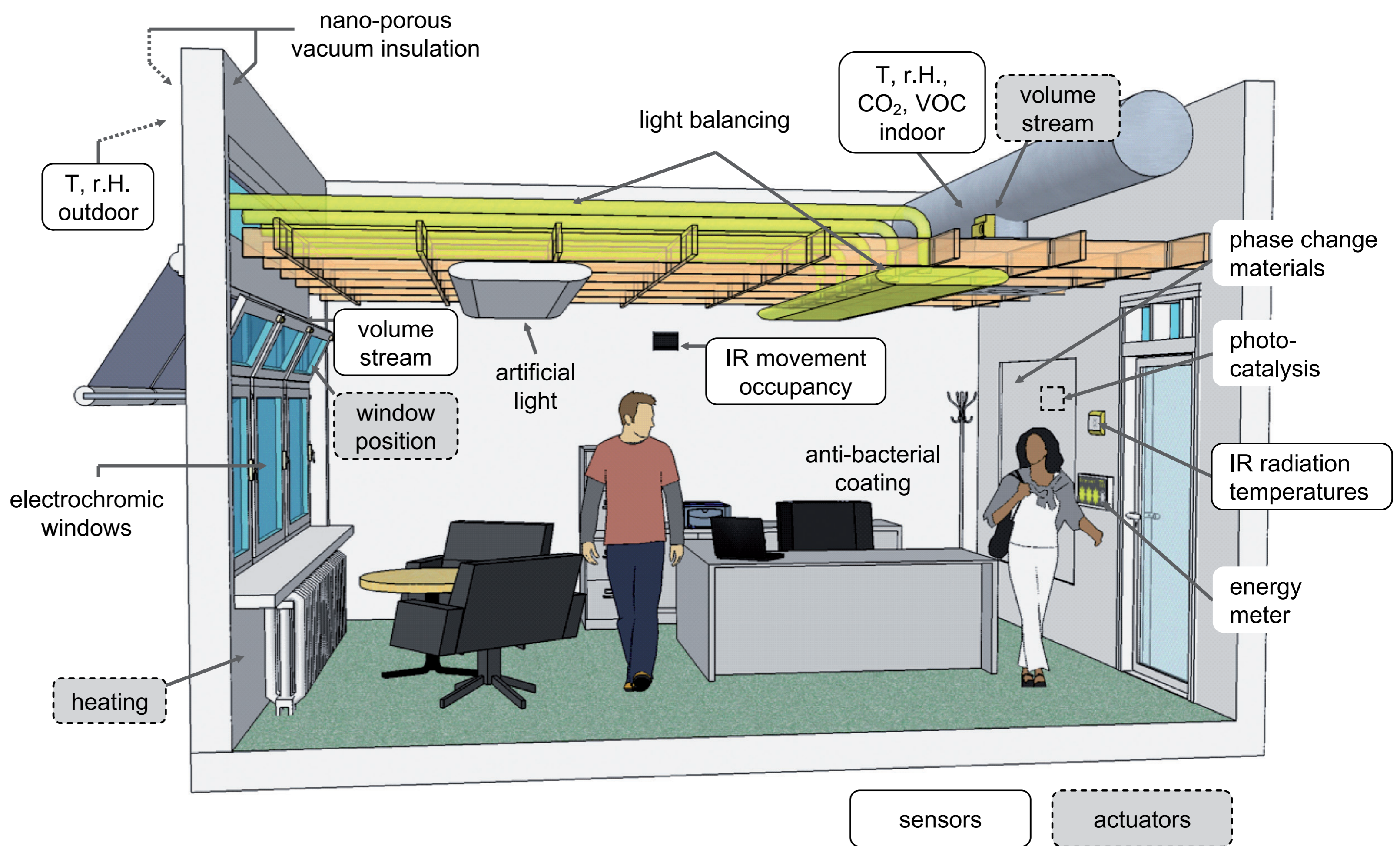
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**Partners**

- Acciona Inmobiliaria S.R.L.
- VELUX A/S
- Siemens Schweiz AG
- C.T.G. SPA
- ChromoGenics Sweden AB
- AppliedSensor GmbH
- Maxit Group AB
- Bouygues Construction
- Siemens AG
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- Foundation for Research and Technology
- European Commission, DG Joint Research Centre
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- Centre Scientifique et Technique du Bâtiment
- Centre Scientifique et Technique de la Construction
- Budapesti Műszaki és Gazdaságtudományi Egyetem
- České vysoké učení technické v Praze

**clear-up** presents a holistic, systemic approach towards reducing operational energy use in buildings. By development and novel use of nano-materials - in fields such as electrochromic, photocatalytic, phase change, nano-porous vacuum insulation and gas sensitive materials - it aims to increase energy performance in heating, ventilation, air conditioning, lighting systems and to improve indoor air quality by using catalytic purification.

**clear-up's** solutions, which will be installed, measured and evaluated in the laboratory, in a large-scale testing facility and in real world applications, are designed for retro-fitting existing buildings and of course for new constructions.



whole life costing electrochromic windows  
phase change materials

energy reduction photocatalysis **www.clear-up.eu** retrofit light balancing  
vacuum insulation panels  
demand controlled ventilation