

**LAUNCH of the International Workshop on Challenges and Opportunities on Add-Ons
in Deep renovation of existing buildings
ENERGY DAY IN THE FRAMEWORK OF THE**



<http://eusew.eu/energy-days/abracadabra-1st-international-workshop>

(23 -24 JUNE 2016)

UNIVERSITY OF BOLOGNA -2016 conference
FUNDED IN THE FRAMEWORK OF **ABRACADABRA** PROJECT
(EU's Horizon 2020 research and innovation programme grant agreement No 696126)



**Assistant Buildings' addition to Retrofit, Adopt,
Cure And Develop
the Actual Buildings up to zeRo energy, Activating a market for deep renovation**



Europe's **energy efficiency challenge** in **buildings** mainly concerns the energy efficient refurbishment and investments in its **existing buildings**. Yet, today, only 1,2% of Europe's existing buildings is renovated every year.

The actual investment gap in the deep renovation sector is due to the fact that high investments are required up-front and they are generally characterized by an excessively high degree of risk, by long payback times and by the general **"invisibility of the energy benefit"**. It is therefore necessary to develop harmonized, concerted and innovative actions to unlock the needed public and private funds, fill the energy efficiency investment gap and ultimately contribute to re-launch the construction market and create new jobs.

ABRACADABRA is based on the prior assumption that **substantial increase in the real estate value** of the existing buildings can play a **key role** in the **deep renovation**. The project's ambition aims at:

- the important reduction of the pay back time of the energy retrofit interventions;
- the strengthening of the key investors' confidence;
- the increasing quality and attractiveness of the existing buildings' stock and,
- the concrete market acceleration towards the Nearly Zero Energy Buildings target.

Therefore, ABRACADABRA aims at demonstrating to the key stakeholders and financial investors the attractiveness of a new renovation strategy based on volumetric Add-ons and Renewables (AdoRe) intended as one (or a set of) Assistant Building unit(s) - like aside or façade additions, rooftop extensions or even an entire new building construction - that "adopt" the existing buildings (the Assisted Buildings) to achieve nearly zero energy. The creation of these new Assistant Buildings' Additions integrated with Renewable Energy Sources aims at reducing the initial investment allocated for the deep renovation of the existing building **creating an up-grading synergy between old and new**. The ABRA strategy results in the implementation of a **punctual densification policy** that aims at fostering the investments in deep renovation of the existing built environment throughout Europe. Our aim is to provoke a **legislative** and **market earthquake** accelerating the **revolution** towards nearly Zero Energy in existing buildings.

La realizzazione di edifici a consumo energetico quasi nullo, capaci di realizzare un bilancio fra energia consumata ed energia prodotta prossimo allo zero, è un obiettivo sancito dall'Unione Europea con una direttiva del 2010. Coordinato da Annarita Ferrante del Dipartimento di Architettura dell'Università di Bologna, ABRACADABRA (Assistant Buildings' addition to Retrofit, Adopt, Cure And Develop the Actual Buildings up to zeRo energy, Activating a market for deep renovation) mira a un profondo rinnovamento del parco abitativo esistente in linea con la realizzazione di edifici con queste caratteristiche.

In particolare, ABRACADABRA vuole far comprendere agli investitori e operatori di settore come si possa determinare un sostanziale incremento del valore immobiliare degli edifici esistenti attraverso una significativa trasformazione energetica e architettonica degli stessi. La riduzione dei tempi di rientro dei costi degli interventi, un incremento nella qualità e dell'attrattività degli edifici sono alcune delle azioni che il progetto realizzerà verso l'obiettivo del Nearly Zero Energy Building (NZEB).

Il profondo rinnovamento del parco edilizio esistente con l'obiettivo NZEB, è frenato dalle notevoli risorse finanziarie richieste per procedere a tali adeguamenti, che presentano un alto livello di rischio finanziario e lunghi tempi di rientro della spesa. Sviluppare azioni armonizzate, concertate e innovative per sbloccare i necessari fondi pubblici e privati, colmare il divario degli investimenti richiesti per l'efficienza energetica e in ultimo contribuire al rilancio del mercato delle costruzioni e alla creazione di nuovi posti di lavoro sono le sfide da affrontare per realizzare l'obiettivo NZEB. Il progetto ABRACADABRA cercherà di elaborare risposte adeguate a queste problematiche.

DATES:

23 - 24 June 2016

VENUE:

PALAZZO MAGNANI, Via Zamboni 20

The Conference Venue is offered by



The focus of the present workshop

ABRACADABRA: Challenges and Opportunities on Add-ons

is making the change in design decisions

when approaching the theme of energy retrofitting in existing buildings

14.00-18.30 Plenary session with best paper presentations (from the CALL FOR PAPERS)

Chairman: Prof. Henk Visscher- Delft University

Co- Chair: Jorn Brunzell, Treteknisk

Co- Chair: Niki Gaitani, University of Athens

Speakers: Authors of the accepted papers invited for oral presentation.

19.00 Cocktails and aperitifs *(about 100 persons)*

June, the 24th: PLENARY SESSION (9.00-13.00)

9.00 Welcome note - Rector Prof. F. Ubertini (or delegate)

9.10 Welcome from Vice Rector to research Prof. Antonino Rotolo (or delegate)

9.15 Welcome Prof. A. Boeri, Dean of the Department of Architecture

9.25 Introduction - Prof. R. Gulli, Rector Delegate To Buildings and Sustainability

Speakers:

9.30-9.55 Deep Renovation in existing buildings – the ABRACADABRA strategy-
Annarita Ferrante

9.55-10.20 Economic barriers and incentives in deep energy retrofitting: Energy-Efficient Building Retrofits: An Assessment of Regulatory Proposals under Uncertainty.
Afzal Siddiqui (University College London)

10.20-10.45 A multi-benefit approach in the energy renovation of the EU building stock

Alise Corovessi, Institute of Zero Energy Buildings – Greek national partner of Renovate Europe Campaign

10.45-11.10 Financial Model and incentives in the deep energy retrofiting

Matt Pumfrey / Steven Fawkes, Energy Pro

11.10-11.30 Coffee break (100 persons)

11.30-11.55 The ESCO-Construction Company model

Dzintars Jaunzems

11.55-12.20 Renewable Energy sources in energy renovation

Livio De Santoli, President of AICARR

12.20-12.45 Financing Energy retrofit of the housing stock: good practices from France

Laura Vanhuë

12.45-13.10 Legislative roadmap, regulative instruments and incentives in the regulative framework of the Regional, National and International level

Diazzi/Raimondi, Region Emilia Romagna

13.10-13.30 Volumetric and Legislative incentives for add-ons

Marco Corradi

13.30-14.30 Lunch break (100 persons) and Poster presentation of the ABRA case studies

14.30-15.30 Case studies: On-going projects and best practises

14.30-14.55 Florian Lichtblau

(Case study presentation from the EU funded Project E2Rebuild)

14.55-15.20 Michele Zuin

Project PADOVA FIT!

15.20-15.45 Giorgia Rambelli

Presentations of various successful projects linked to ABRACADABRA

Challenges and opportunities for the ABRACADABRA project: Inputs and reports from the National Meetings

15.45-16.00 Introduction on Successful architecture examples on Add-ons:

Veronika Schröpfer ACE, Architects' Council of Europe

16.00-16.30 Frederic Druot <http://www.druot.net>

16.30-17.00 Julian Weyer, Moller Architect <http://www.cfmoller.com>

17.00-17.30 Yves Schihin <http://www.burkhalter-sumi.ch/projects>

17.30-18.45 Questions and discussion on challenges and opportunities on Add-ons

18.45-19.00 Poster presentation of the ABRA case studies

19.00 Cocktails and aperitifs (100 persons)