

RE-DWELL

Delivering affordable and sustainable housing in Europe

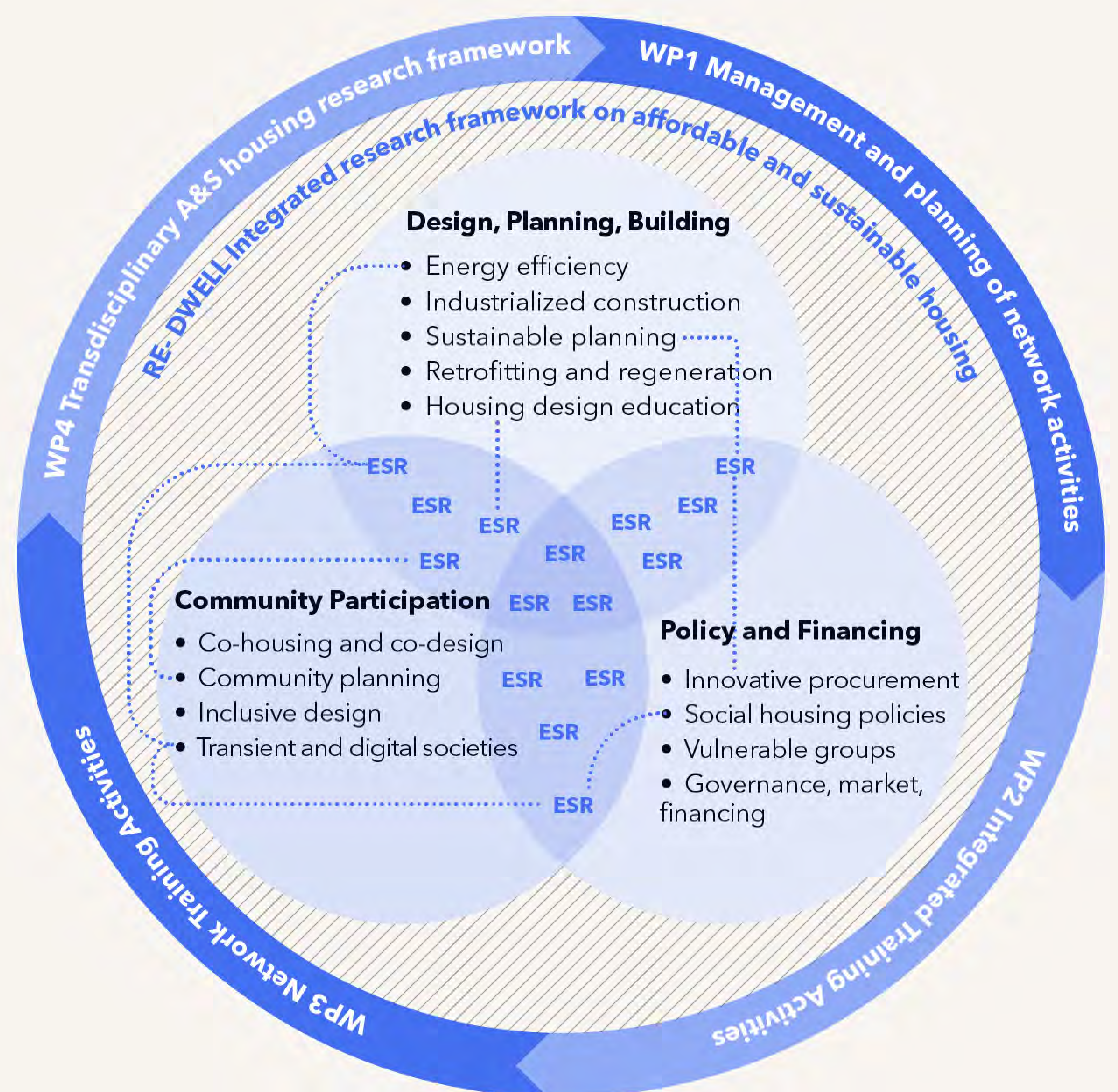
RE-DWELL's innovative research programme and environment will provide a platform for a holistic analysis of affordability and sustainability of housing through a transdisciplinary perspective.

A holistic approach is necessary to understand the interactions across multiple scales -housing unit and building, city and region and realms - physical and social structures, social and urban environments-. It is essential to face the endemic lack of affordable and sustainable housing from new perspectives in order to understand all the dimensions (architectural, urban, social, economic, political, environmental, governance) involved and their multiple inter-relationships.

This approach will enable:

1. at the methodological level, the development of a novel analytical framework to understand the multiple relationships between affordability and sustainability of housing.

2. at the substantive level, the production of new knowledge to further inform the production of affordable and sustainable housing in Europe.



Partner organisations:

- PO1** Lisbon City Council, PORTUGAL
- PO2** Sustainable Towns, SPAIN
- PO3** Budapesti Módszertani Szociális Központ, HUNGARY
- PO4** Ceraneo, CROATIA
- PO5** Institut Català del Sol, SPAIN
- PO6** Clarion Housing Group, UK
- PO7** Casais, PORTUGAL
- PO8** Cyprus Land Development Corporation, CYPRUS
- PO9** South Yorkshire Housing Association Ltd, UK
- PO10** European Federation for Living, BUDAPEST
- PO11** Housing Europe, BELGIUM
- PO12** Városkutatás Kft, HUNGARY

Beneficiaries:

- B1** La Salle – Ramon Llull University, Barcelona, SPAIN
- B2** Université Grenoble Alpes, Grenoble, FRANCE
- B3** University of Sheffield, UK
- B4** University of Zagreb, CROATIA
- B5** Hungarian Academy of Sciences Budapest, HUNGARY
- B6** University of Cyprus, Nicosia, CYPRUS
- B7** Polytechnic University of Valencia, SPAIN
- B8** TU Delft, NETHERLANDS
- B9** University Institute of Lisbon, PORTUGAL
- B10** University of Reading, UK





Early-stage researchers (ESR)



Annette Davis
ESR1
B1 - School of Architecture La Salle, Ramon Llull University



Saskia Furman
ESR2
B1 - School of Architecture La Salle, Ramon Llull University



Christophe Verrier
ESR3
B2 - Pacte - Laboratoire de sciences sociales, Université Grenoble Alpes



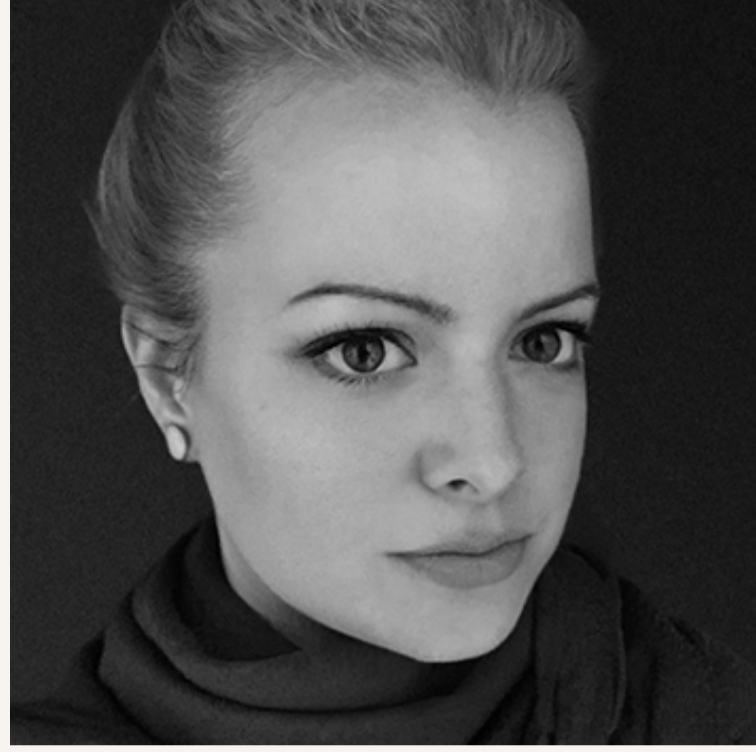
Ava Elghandour
ESR4
B3 - Sheffield School of Architecture (SSoA), University of Sheffield



Mahmoud Alsaeed
ESR5
B3 - Sheffield School of Architecture (SSoA), University of Sheffield



Marko Horvat
ESR6
B4 - Institute for Social Policy-ISP, University of Zagreb



Anna Martin
ESR7
B5 - Institute for Sociology, Centre for Social Sciences, Hungarian Academy of Sciences Centre of Excellence



Andreas Panagidis
ESR8
B6 - Department of Architecture, University of Cyprus



Effrosyni Roussou
ESR9
B6 - Department of Architecture, University of Cyprus



Zoe Tzika
ESR10
B7 - School of Architecture, Universitat Politècnica de València



Tijn Croon
ESR11
B8 - Faculty of Architecture and the Built Environment (ABE), TU Delft



Alex Fernandez
ESR12
B8 - Faculty of Architecture and the Built Environment (ABE), TU Delft



Androniki Pappa
ESR13
B9 - School of Technology and Architecture, University Institute of Lisbon (ISCTE)



Carolina Martín
ESR14
B9 - School of Technology and Architecture, University Institute of Lisbon (ISCTE)

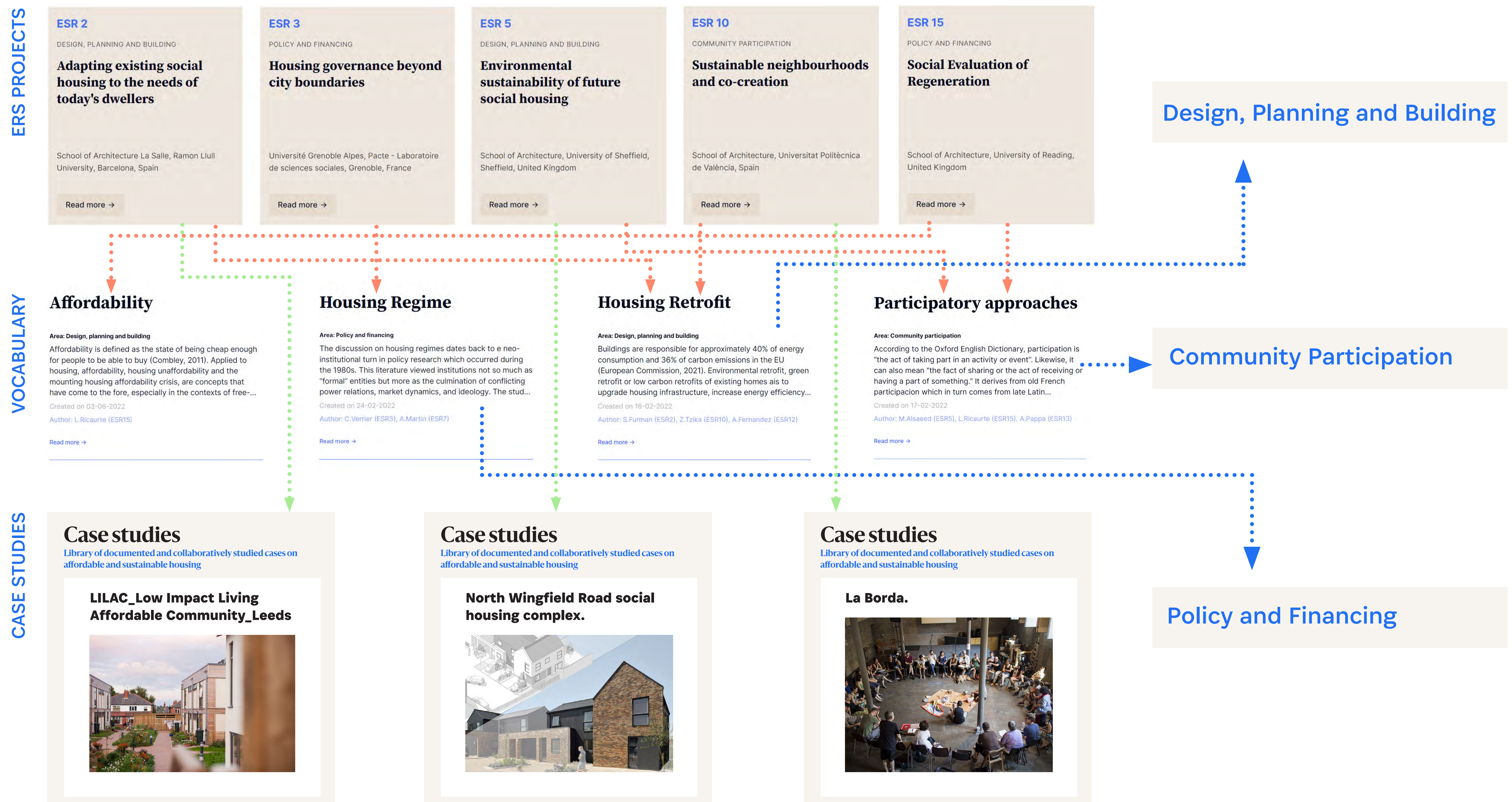


Leonardo Ricaurte
ESR15
B10 - School of Built Environment, University of Reading

Intertwining research and training activities

- Courses
- Workshops
- Summers Schools
- Conferences
- Secondments

Cross-cutting issues





Annette Davis

B1 - School of Architecture La Salle, Ramon Llull University

Supervising team

Núria Martí (Supervisor)

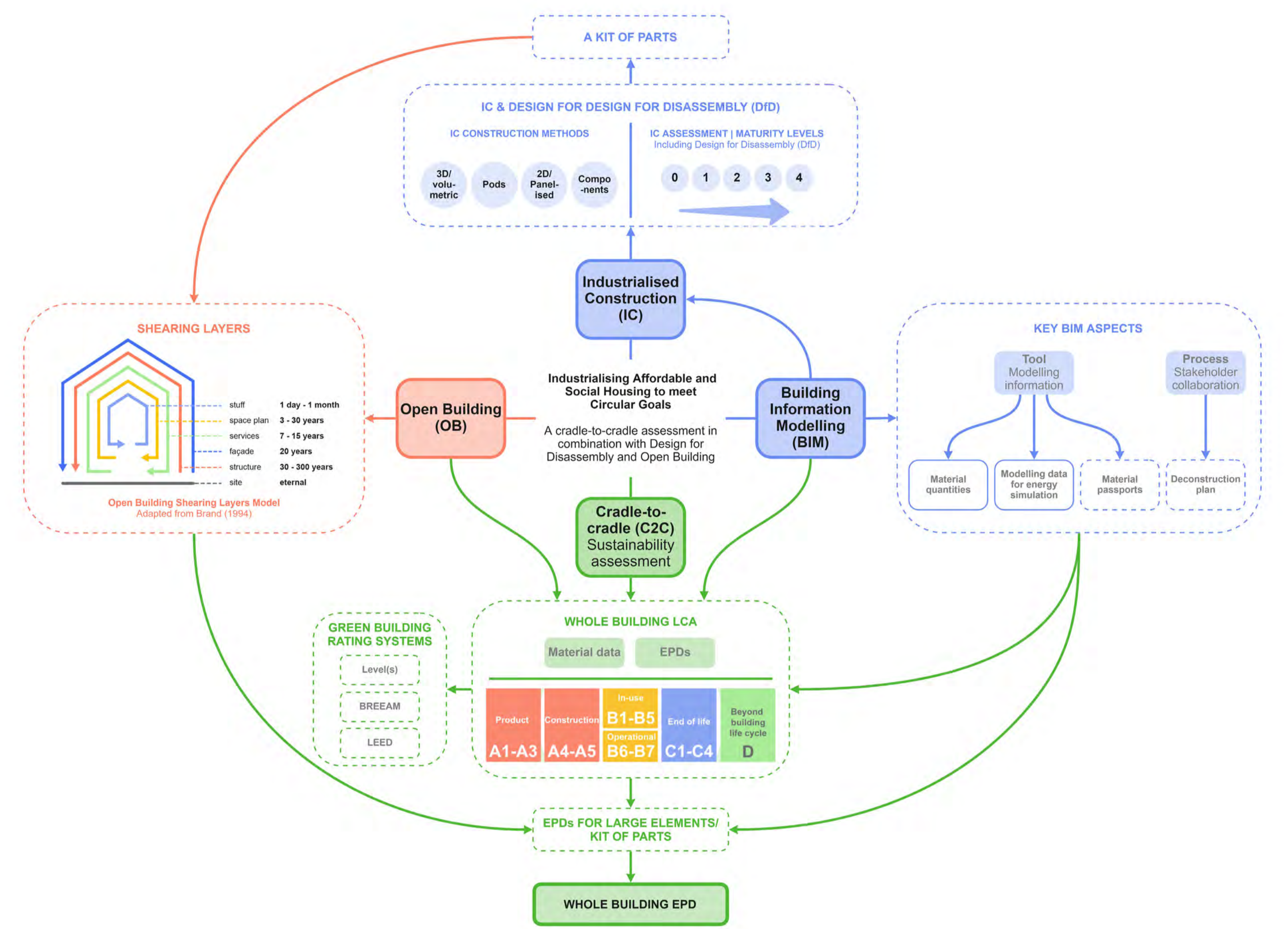
Ignacio Guillen (Co-Supervisor)

Alexandra Paio (Co-Supervisor)

ESR 1

Industrialising Housing to meet Circular Goals: Industrialised Construction in combination with Design for Disassembly

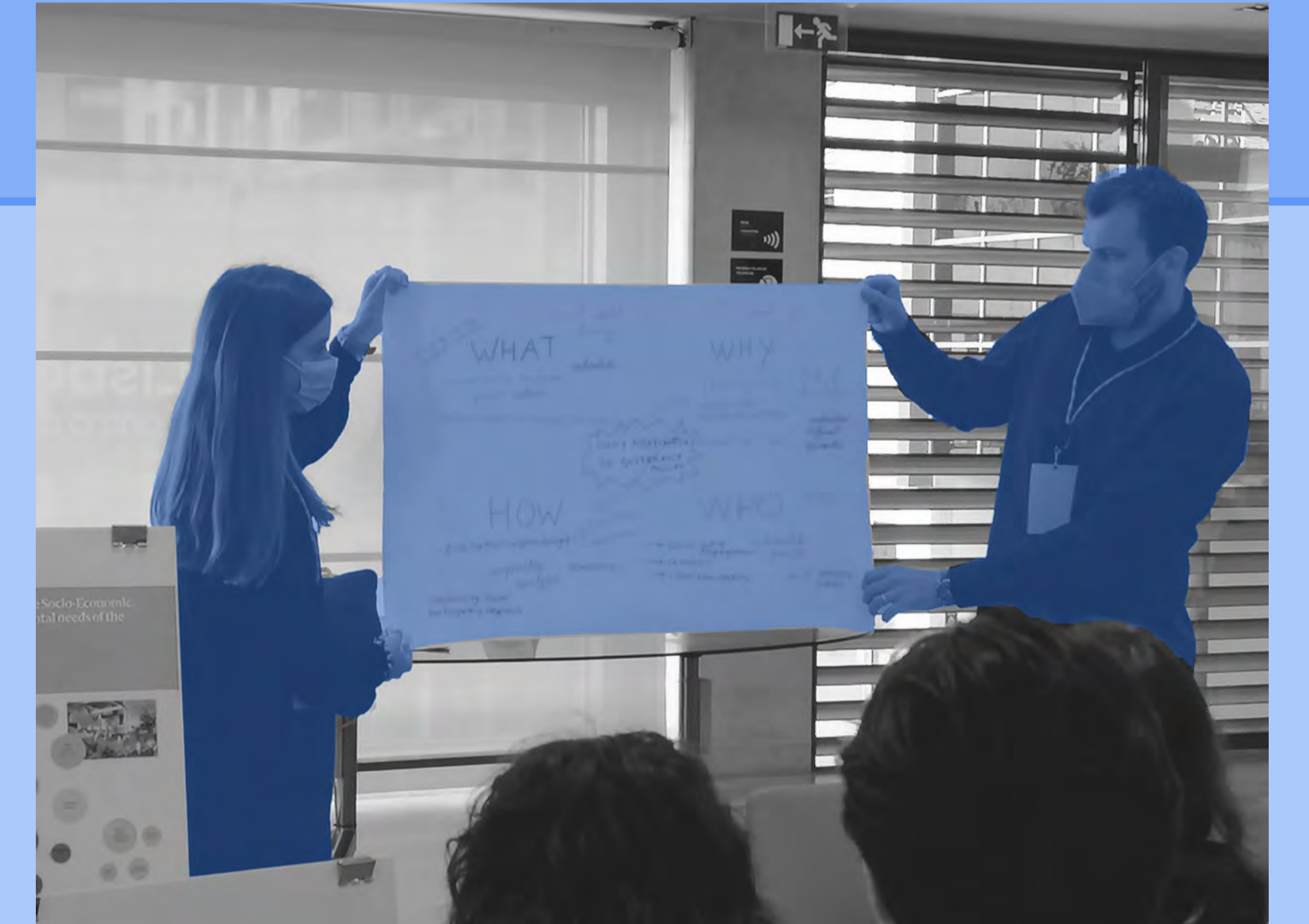
The current lack of sustainable and affordable housing is a global issue which has reached a crisis point. A key issue to address these challenges is resource inefficiency in housing, construction not only accounts for nearly 40% of global energy-related CO2 emissions; over a third of all waste in the EU is generated by construction and demolition. There is growing interest to utilise Industrialised Construction in combination with Design for Disassembly (DfD) to simultaneously provide environmentally and economically sustainable housing on a mass-scale, based on circular economy principles. The aim of this project is therefore twofold: (1) to investigate how DfD can provide sustainable circular solutions in housing, and (2) strategies for increased adoption in industry at the building and policy levels.



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COLLABORATIVE ACTIVITIES

“During the 3-day workshop we were able to have fruitful conversations and some lively debates ranging from the use of the term ‘vulnerable people’, to how to ethically carry out community-led projects in practice, to intersectionality.”



“BIM will play a crucial role in the future of housing to be able to measure and meet sustainability targets through improved energy and resource efficiency throughout the entire lifespan of a building.”

Vocabulary

Terms and definitions on affordable and sustainable housing

BIM

Area: Design, planning and building

Building Information Modelling (BIM) is the process of creating a set of digital representations which consists of both graphical and non-graphical data for the entire building cycle (Eastman et al., 2011). This process involves documenting, gathering, organising, and updating this...

Created on 16-02-2022

Author: A.Davis (ESR1), A.Elghandour (ESR4)

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Blog

Network members activities



ESRs visit to the Casais Group in Portugal

REFLECTIONS

Posted on 09-03-2022

Blog post written collectively with Aya Elghandour and Carolina Martín. Last month three Early-Stage...

Author: A.Davis (ESR1)

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Nicosia: The divided city

SUMMER SCHOOLS, REFLECTIONS

Posted on 13-12-2021

Due to Covid-related delays, the first RE-DWELL summer school took place last month at the Cypr...

Author: A.Davis (ESR1)

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Links between sustainability and BIM

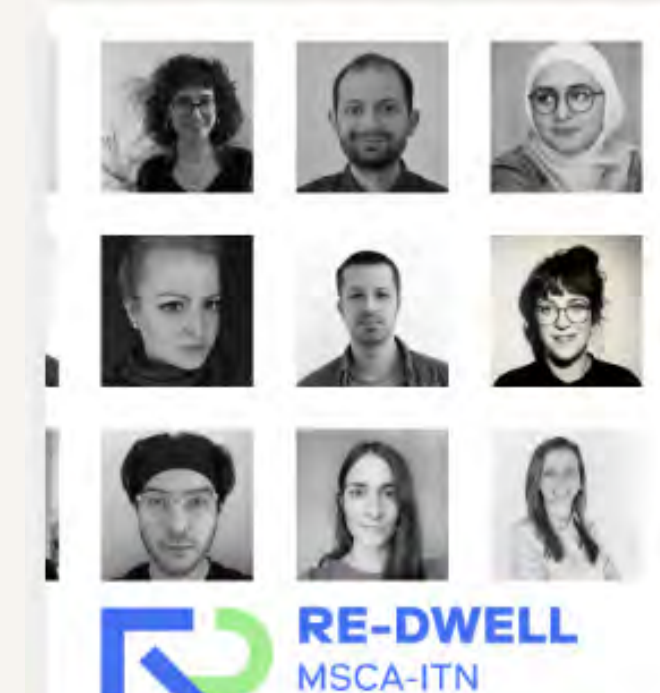
WORKSHOPS, REFLECTIONS

Posted on 10-12-2021

The Lisbon workshop not only facilitated training activities, but it was also the first opportunity to...

Author: A.Davis (ESR1)

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Embracing transdisciplinarity

WORKSHOPS

Posted on 15-07-2021

I have to admit, before embarking on this journey with the Marie-Curie International Training Networ...

Author: A.Davis (ESR1)

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Saskia Furman

B1 - School of Architecture La Salle, Ramon Llull University

Supervising team

Leandro Madrazo (Supervisor)

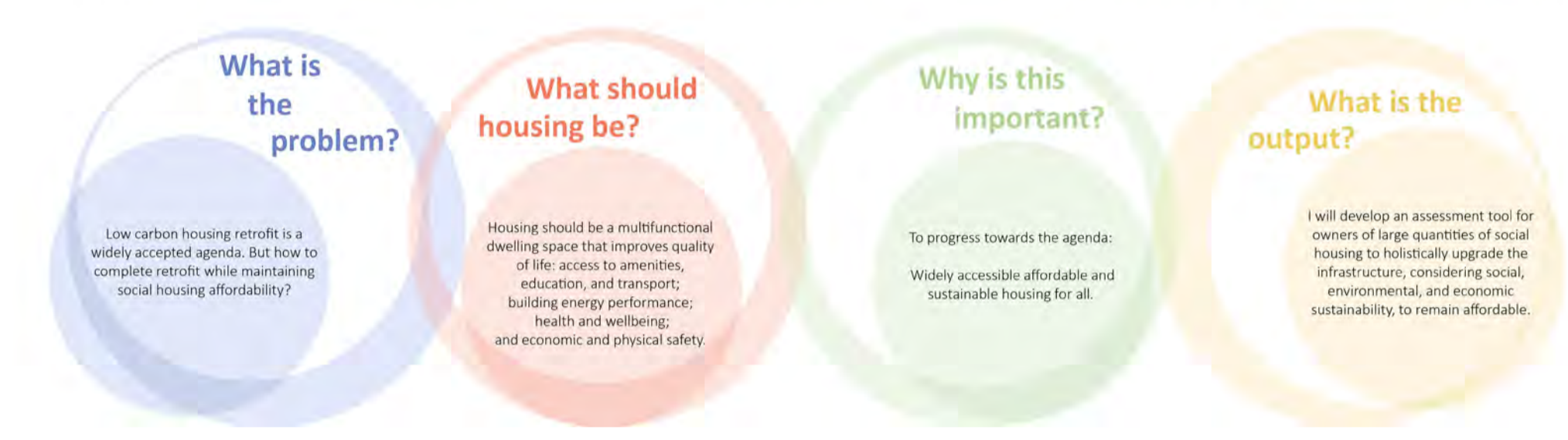
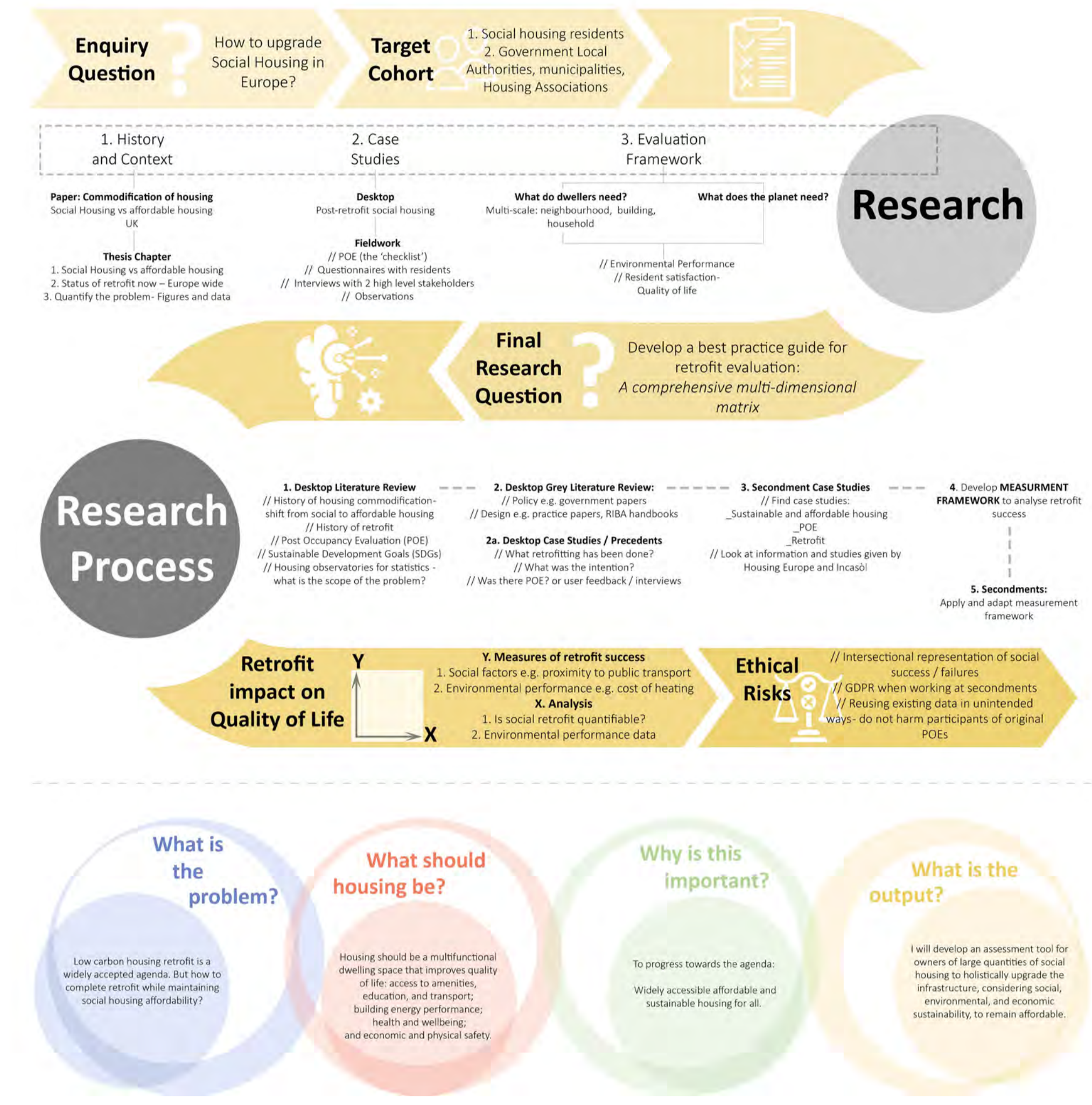
Karim Hadjri (Co-Supervisor)

Flora Samuel (Co-Supervisor)

ESR 2

Upgrading social housing to meet the socio-economic needs of today's dwellers, and the environmental needs of the planet: A framework beyond retrofit.

The objective of this research is to develop a matrix for mid- to large-scale housing renovation to deliver affordable and sustainable housing. Organised under broad categories, including urbanity, sustainability, social, connectivity and more, the framework will identify key issues to be improved, such as the building envelope, internal layout, social mix, safety, and energy efficiency. I will then analyse and inform the set of criteria against several case studies and precedents to assess the successes and failures of existing social housing stock. Chosen precedents for investigation will be partly renovated post-war European social housing.

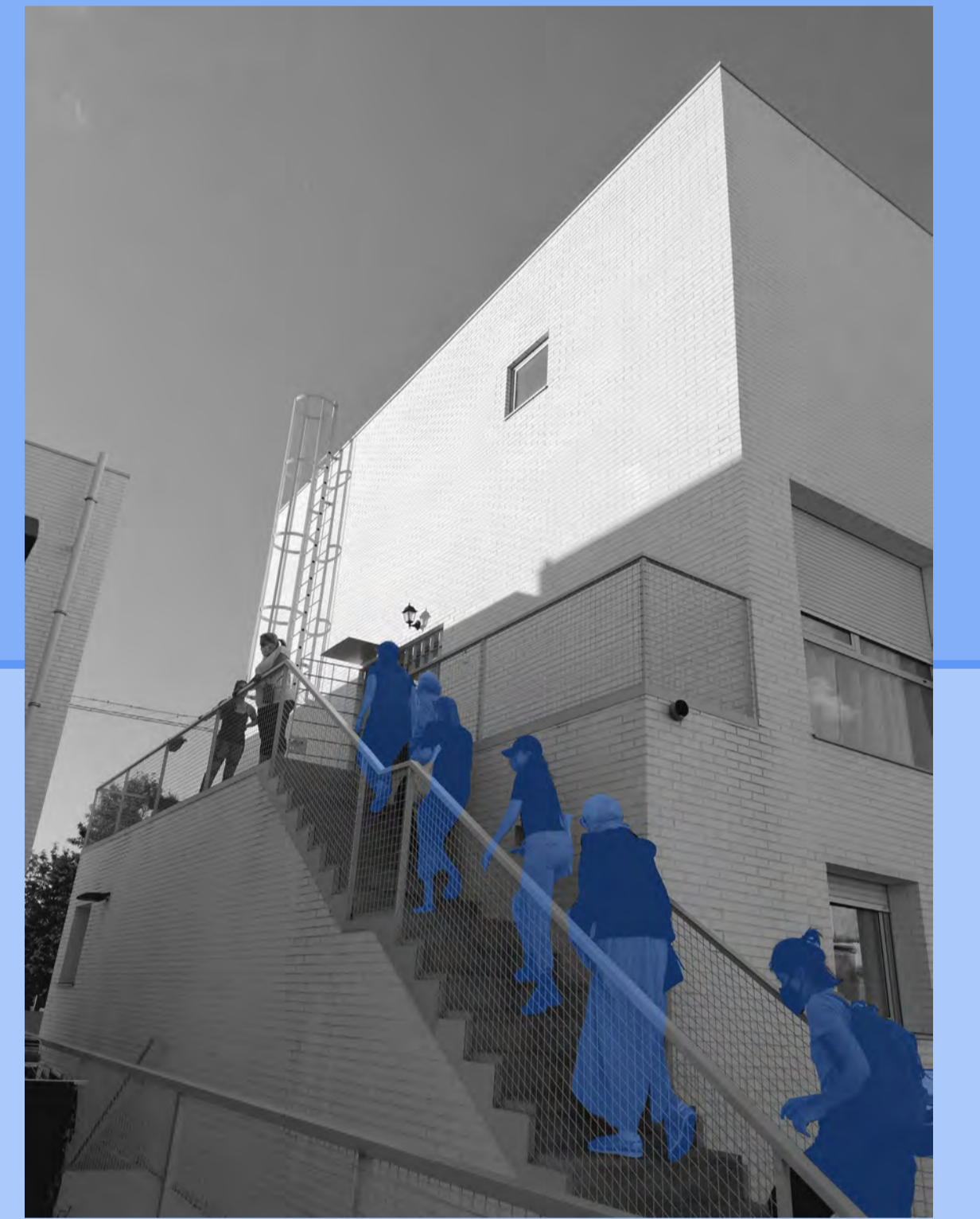


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“An important element of a transdisciplinary approach is the integration of non-academic stakeholders, and this first workshop in Lisbon immediately demonstrated how valuable this is.”

MEETING WITH LOCAL ACTORS

“(…) walking, seeing, listening and then talking about our environment was an emotional learning process during the social housing visit of the Marvila district that was directly engaging with certain boundaries.”



Case studies

Library of documented and collaboratively studied cases on affordable and sustainable housing

LILAC_Low Impact Living Affordable Community_Leeds



“The world of retrofit and decarbonisation must remember that social value is as important to sustainability as energy efficiency. Social retrofit should be encouraged in tandem with environmental retrofit in order to sustain the health and wellbeing of both the people and the planet.”

Vocabulary

Terms and definitions on affordable and sustainable housing

Housing Regime

Area: Policy and financing

The discussion on housing regimes dates back to a neo-institutional turn in policy research which occurred during the 1980s. This literature viewed institutions not so much as “formal” entities but more as the culmination of conflicting power relations, market dynamics, and ideology. The stud...

Created on 24-02-2022

Author: C.Verrier (ESR3), A.Martin (ESR7)

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Network members activities



Bridging the Retrofit Gap: Climate, Culture, and Infrastructure | Future Build 2022 | International Women's Day

CONFERENCES

Posted on 08-03-2022

Future Build 2022 in London was an inspiring event. While the majority of discussion concerned...

Author: S.Furman (ESR2)

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Isolation?

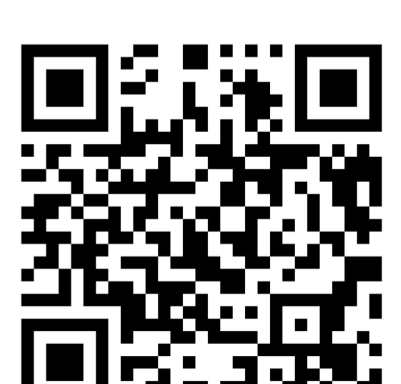
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Posted on 26-07-2021

The past few weeks have been some of the most intense, jam-packed and fulfilling of my entire life....

Author: S.Furman (ESR2)

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Christophe Verrier

B2 - Pacte - Laboratoire de sciences sociales, Université Grenoble Alpes

Supervising team

Paulette Duarte (Supervisor)
Adriana Diaconu (Co-Supervisor)
Joris Hoekstra (Co-Supervisor)

ESR3

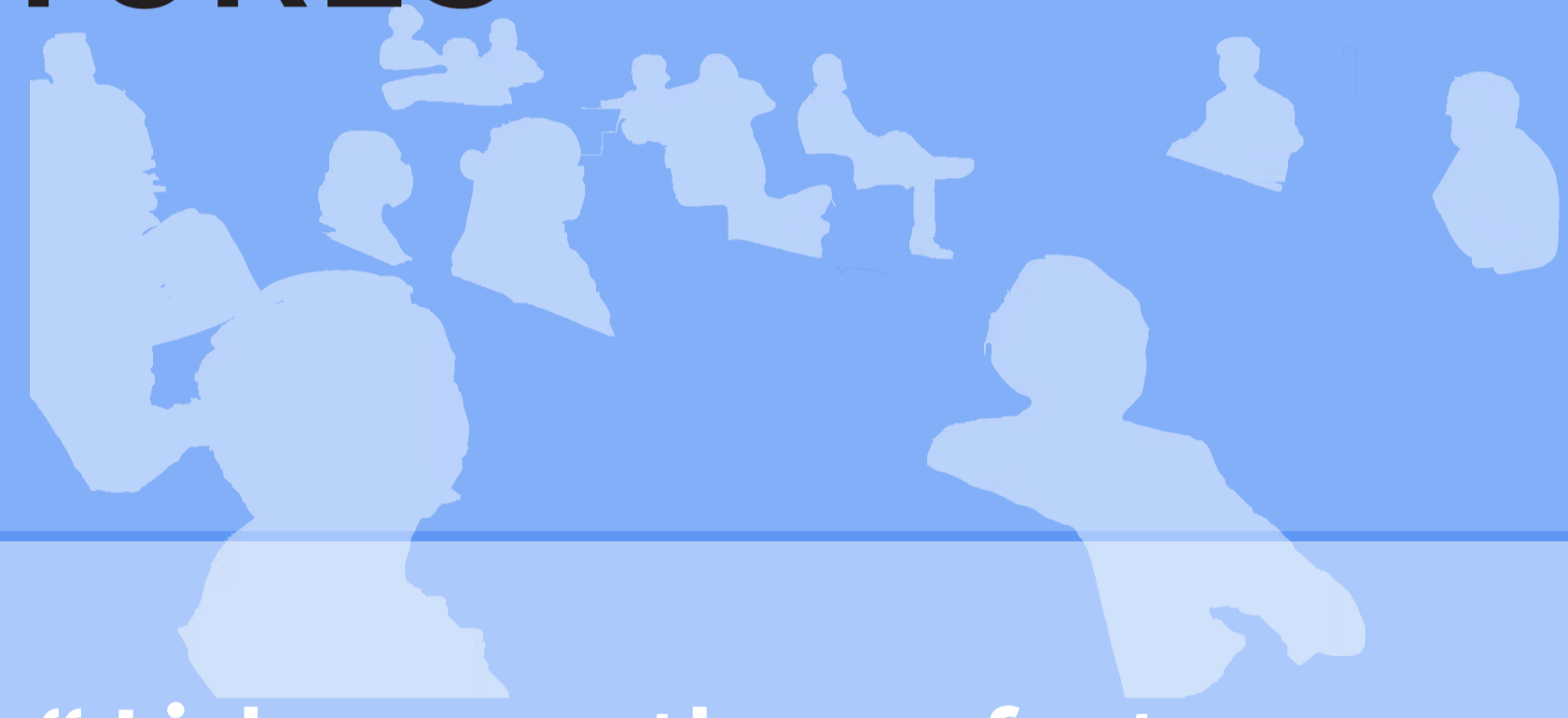
Housing governance beyond city boundaries: *local housing regimes as catalysts for affordability?*

Once large, social housing systems have fallen prey to creeping privatization and austerity, while the financialization of real estate has turned the fundamental need for a home into an increasingly unattainable commodity. To improve the availability of affordable housing in a context of austerity, different jurisdictions have seen a push towards a wide range of within market affordable housing solutions, which this project groups under the umbrella of inclusionary housing policies (IHPs).

Investigating the commonalities and divergences between IHPs solutions in different cities of France and the Netherlands, this project investigates the strategies and approaches used by local housing regimes to steer the private production of affordable housing using existing policy and regulatory instruments.

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LECTURES



“It is thrilling to see how our projects work together on the path to delivering affordable and sustainable housing.”



“Lisbon was the perfect scenery, with its distinctive pleasant weather, sinuous alleys full of history and architectural enchant. But also with an acute housing crisis that demands immediate solutions.”



Lisbon Workshop: Roundtable
Transdisciplinarity Research for Affordable and Sustainable Housing

September 23, 2021
10:00 to 11:15 (CET -1)

Vocabulary

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Created on 24-02-2022

Author: C.Verrier (ESR3), A.Martin (ESR7)

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Network members activities



Webcams and virtual whiteboards against climate change (and your mental health)

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Posted on 29-07-2021

What use will we have for our webcams and all the online spaces occupied during the last year and...

Author: C.Verrier (ESR3)

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“I believe that we should extend our considerations of ethics as to broadly reflect on how we conduct our activities. Indeed, as I work in a project tackling sustainability, what should I make of the greenhouse emissions linked to my regular travels?”

