

DESCARBONITZANT
L'ARQUITECTURA

DESCARBONIZANDO
LA ARQUITECTURA

DECARBONIZING
ARCHITECTURE

#Agenda2026

**ARCHITECTURE FOR A JUST
TRANSITION**

Driving legislation forward

#EUSEW2023

Brussels, 22nd June 2023

GRETA TRESSERRA
CSCAE Sustainability Work Group

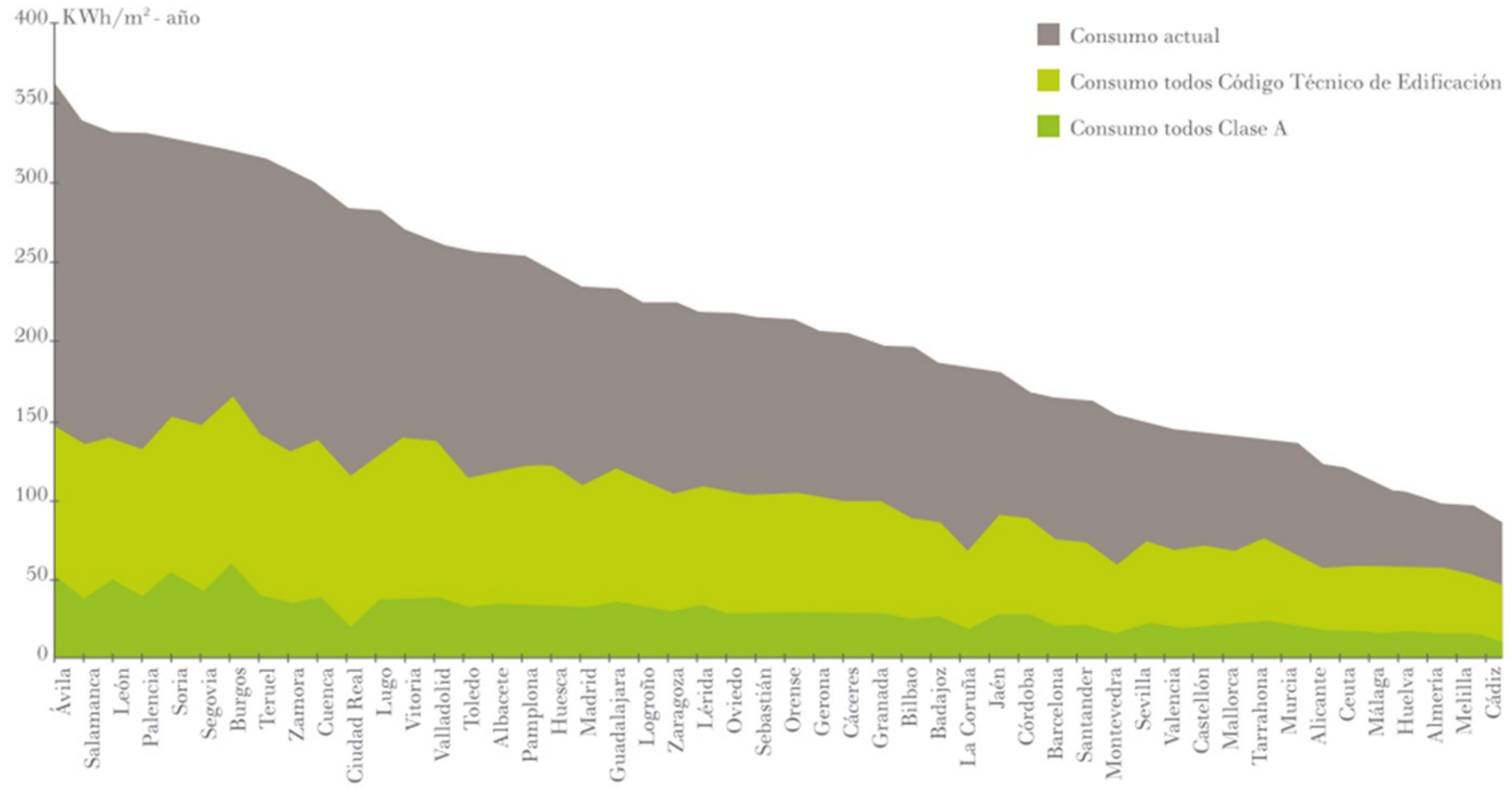
CSCAE



COAC

arquitectes.cat

SPANISH CONTEXT



SPANISH CONTEXT

In Spain, around **40.000M €** in imported energy were spent in 2013

(1/3) in buildings

13.000M €



With an efficient building stock ("A" EC), 80% of energy savings:

10.000M € per year

SPANISH CONTEXT

EL PAÍS | PORTADA | INTERNACIONAL | POLÍTICA

POLÍTICA

MONCLOA | FERRAZ | GÉNOVA | + PARTIDOS | CONGRESO | OPINIÓN | SUCESOS

▶ ESTÁ PASANDO | Lucha contra la corrupción | Marchas de la Dignidad 22-M | Elpidio Silva

Rajoy anuncia el recorte de 10.000 millones en Educación y Sanidad

El Gobierno anuncia en una nota de prensa privatizaciones y recortes, tras reunirse el presidente con los ministros afectados

FERNANDO GAREA | Madrid | 9 ABR 2012 - 18:30 CET | 3207

Archivado en: Mariano Rajoy | Recortes presupuestarios | Recortes sociales | Copago sanitario | Presupuestos educación | Privatizaciones | Crisis deuda europea | PP | Gobierno de España | Gasto sanitario

6.871 | 2.552 | 109 | 68

El presidente del Gobierno, Mariano Rajoy, ha acelerado las reformas y los recortes con su equipo económico y con los ministros afectados, y planea recortar 10.000 millones de euros, en educación y sanidad. El Ejecutivo lo ha anunciado en una nota de prensa enviada a los medios a las cinco de la tarde. Por eso, el PSOE ha pedido formalmente la

EL MUNDO | España

Líder mundial en español | Martes 10/04/2012. Actualizado 08:51h.

España | Mundo | Europa | Op-Blogs | Deportes | Economía | Vivienda | Cultura | Toros | Ciencia | Salud | Tecnología

Edición ESPAÑA | Madrid | Andalucía | Baleares | Barcelona | Castilla y León | C. Valenciana | País Vasco

Compartir

Recomendar 480

Twitter 835

Tuenti

Herramientas

Enviar a un amigo

Valorar

Imprimir

En tu móvil

Rectificar

Sanidad tendrá un recorte de 7.000 millones y Educación de 3.000

CRISIS | Según estimaciones del Partido Popular



TO REACH CARBON NEUTRALITY BY 2050....

A new model to **scale-up** the sector **and increase ratio** of energy renovation of the building stock by 14

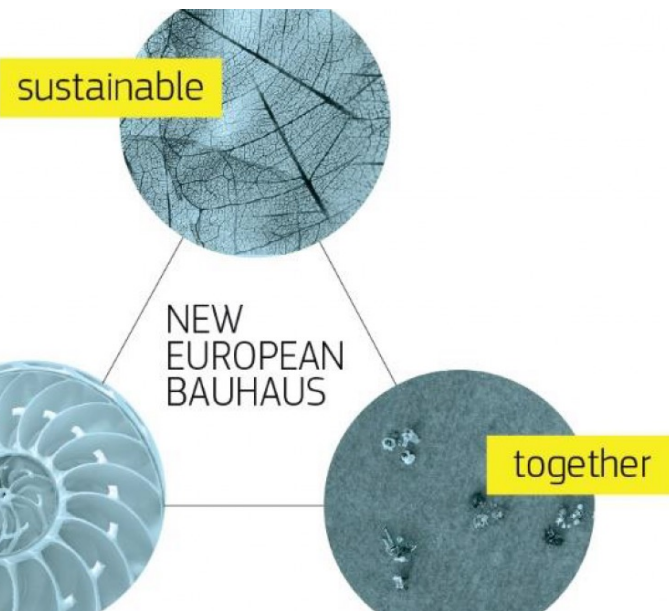
(from 25.000 to 350.000 houses/year)

1. **LEGAL FRAMEWORK and TOOL-KIT: EPBD**
2. **PARTNERSHIPS**
3. **LEADERSHIP**

ARCHITECTS' LEADERSHIP



New European Bauhaus
beautiful | sustainable | together



Proposal for a

DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on the energy performance of buildings (recast)

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 194(2) thereof,

Having regard to the proposal from the European Commission,

After transmission of the draft legislative act to the national parliaments,

Having regard to the opinion of the European Economic and Social Committee¹,

Having regard to the opinion of the Committee of the Regions²,

Acting in accordance with the ordinary legislative procedure,

Whereas:

- (1) Directive 2010/31/EU of the European Parliament and of the Council³ has been substantially amended several times. Since further amendments are to be made, that Directive should be recast in the interests of clarity.
- (2) Under the Paris Agreement, adopted in December 2015 under the United Nations Framework Convention on Climate Change (UNFCCC), its Parties have agreed to hold the increase in the global average temperature well below 2°C above pre-industrial levels and to pursue efforts to limit the temperature increase to 1,5 °C above pre-industrial levels. *The parties to the Glasgow Climate Pact in November 2021 reaffirmed that keeping the increase in the global average temperature to 1,5°C above pre-industrial levels would significantly reduce the risks and impacts of climate change, and undertook to strengthen*

¹ OJ C [...], [...], p. [...].

² OJ C [...], [...], p. [...].

³ Directive 2010/31/EU of the European Parliament and of the Council of 19 May 2010 on the energy performance of buildings (OJ L 153, 18.6.2010, p. 13).

their 2030 targets by the end of 2022. Reaching the objectives of the Paris Agreement is at the core of the Commission Communication on "The European Green Deal" of 11 December 2019⁴. The Union committed itself to reduce the Union's economy-wide net greenhouse gas emissions by at least 55 % by 2030 below 1990 levels in the updated nationally determined contribution submitted to the UNFCCC Secretariat on 17 December 2020.

- (3) As announced in the Green Deal, the Commission presented its Renovation Wave strategy on 14 October 2020⁵. The strategy contains an action plan with concrete regulatory, financing and enabling measures, with the objective to at least double the annual energy renovation rate of buildings by 2030 and to foster deep renovations *in more than 35 million buildings and the creation of up to 160 000 jobs in the construction sector*. The revision of the Energy Performance of Buildings Directive is necessary as one of the vehicles to deliver on the Renovation Wave. It will also contribute to delivering on the **New European Bauhaus** initiative and the European mission on climate-neutral and smart cities *and should follow the pathway drawn by the New European Bauhaus initiative as a previous phase of the*

ARCHITECTS' LEADERSHIP

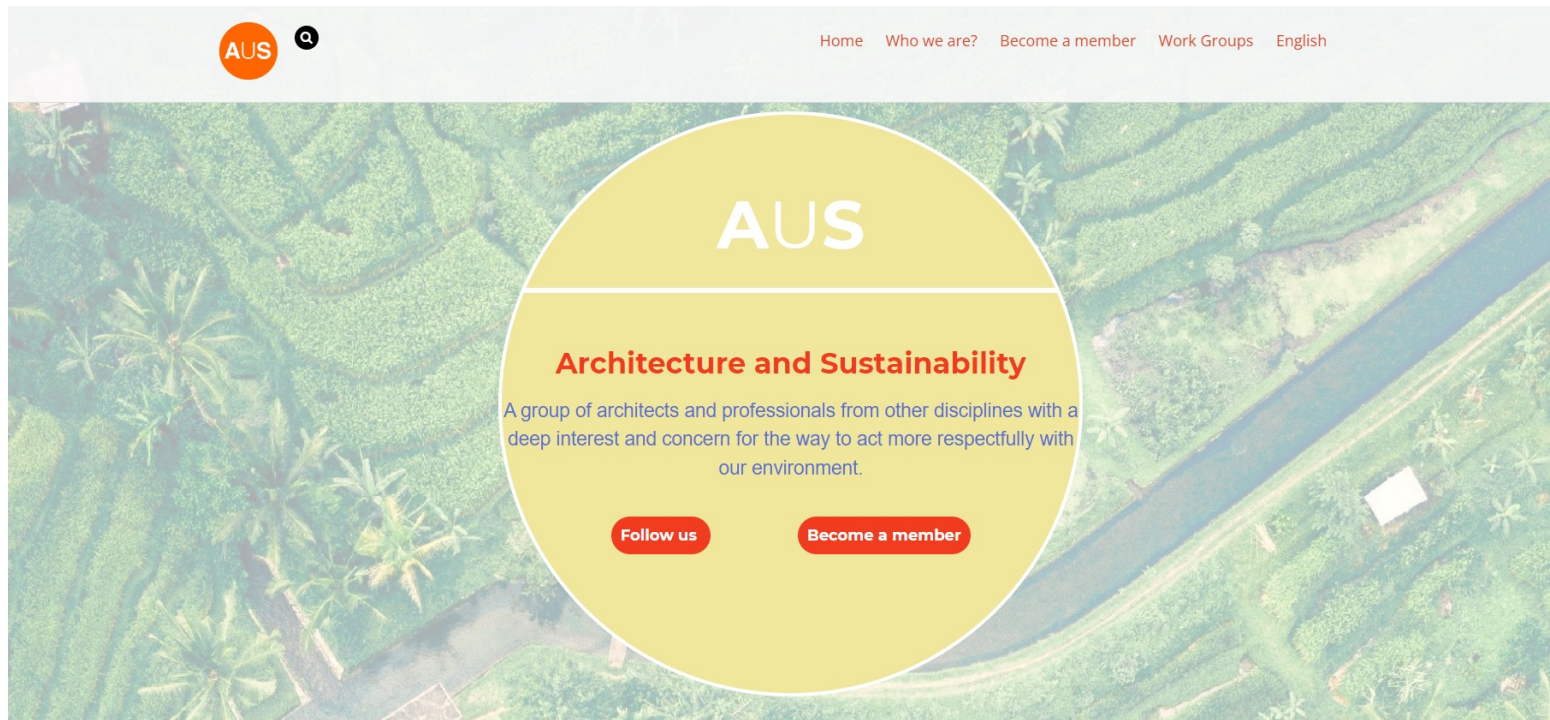
HIGH-QUALITY ARCHITECTURE LAW

- Ensure the social, economical, environmental sustainability
- Integration with the context
- Flexibility to adapt to new uses
- Identity of social
- Energy efficiency and circularity
- ETC.



#DecarbonisingArchitecture

TRANSPOSITION and IMPLEMENTATION of the EPBD as OPORTUNITY for a paradigm shift



#DecarbonisingArchitecture

AGENDA 2026

EPBD	2022	2023	2024	2025	2026	2027	2028	2029	2030
EDIFICIO CERO EMISIONES								←edificios públicos	←todos los edificios
PASAPORTE DEL EDIFICIO			←marco común U	←pasaporte instituido					
REGISTRO DIGITAL DEL EDIFICIO			no indica fechas pero lo liga al pasaporte del edificio y a la certificación energética						
PLAN NACIONAL RENOVACIÓN			←borrador a UE	←plan instituido					
CERTIFICACIÓN ENERGÉTICA				←marco común U	←certificación instituida				
MEPS							←publicos y no res F		←publicos, no res E
POTENCIAL CALENTAMIENTO							←edificios nuevos >2000m2		←residenciales F (E en 2033) ←todos los edificios nuevo
NEB	2022	2023	2024	2025	2026	2027	2028	2029	2030
ETIQUETA			←borrador a UE	←implementación					

#DecarbonisingArchitecture

AGENDA 2026

EPBD 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030
AGENDA									
EDIFICIO CERO EMISIONES						← edificios públicos			← todos los edificios
PASAPORTE DEL EDIFICIO			← marco común UE	← pasaporte instituido					
REGISTRO DIGITAL DEL EDIFICIO		← borrador	← propuesta	← formación	← acreditación				
PLAN NACIONAL RENOVACIÓN		← borrador	← propuesta	← formación	← acreditación+PNR	← +CertEner	← +PCG	← +financiero+patrimonial	
CERTIFICACIÓN ENERGÉTICA		← debate rehabilitación	← colaboración en borrador	← borrador a UE	← plan instituido				
MEPS									
POTENCIAL CALENTAMIENTO									
NEB									
ETIQUETA			← borrador a UE	← implementación					
			← borrador a UE	← implementación					

#DecarbonisingArchitecture

SUPPORT TO ARCHITECTS

- Generate **awareness** (informative sessions, workshops, etc)
- **Specialized training** to up-skill architects
- **Accreditation** through CSCAE (quality)
- Set of **tools** (portfolio materials, bioclimatic solutions, CO2 measurement, roadmaps towards decarbonizations, etc)

KICK-OFF EVENT #DecarbonisingArchitecture

- Inform and create awareness
- Make agenda 2026 public
- Show our leadership

475 registers

385 attendees (260 simultaneously)

11 authorities in 2 sessions

14 experts in 3 sessions

4 workshops



KICK-OFF EVENT

Thursday 17th November
GOAC (Plaça Nova, 5 - Barcelona)

Presented and moderated by: Sonia Hernández-Montaño, Board Member at ASA

9:00 - 9:15 h

REGISTRATION DESK

9:15 - 10:00 h

Welcome and Presentation

Guim Costa, Dean COAC

Marta Vall-Ilossera, President CSCAE

Ruth Schagemann, President of the Architects' Council of Europe

Javier Martín, General Manager of Housing and Urban Development MITMA

Iñiqui Carnicero, General Manager of Urban Agenda and Architecture MITMA

Marcos Ros, Member of the European Parliament



10:00 - 12:00 h

Session 1:

Agendas for change

The European Union, and at a more global level, has presented and consolidated their **agendas that should lead towards decarbonization**, that include -directly or indirectly- factors that determine the future of Architecture as they establish decisive objectives, technical frameworks, financing conditions, etc. It is necessary to have a reasoned picture of what these pieces are and how they are to be articulated in order to understand the magnitude of the challenge and where we are heading.

Context: Global and European Agendas

Adaliz Sayago, Consultant and Communications at Arquitectura Sostenible

Taxonomy and Level(s)

Toni Escudé, Sustainability Director at 011h Sustainable Construction

LCA, LCCA and circular economy

Eulàlia Figuerola, Sustainability Director Haus Healthy Buildings

New European Bauhaus

Greta Tresserra, expert in sustainable development of cities and territory

Next Generation Funds and Renovation Wave

Marta Martínez, Rehabilitation Office Coordinator at COAC

EPBD - Energy Performance in Buildings Directive

Albert Cuchí, professor at ETSAV (UPC)



12:20 - 14:00 h

Session 2: **Key instruments**

In the latest version of the Energy Efficiency in Buildings Directive, there are two key elements that must be developed in an appropriate way to turn rehabilitation around: the **Digital Building Logbook**, a source of organizing the property data, and the **Building's Renovation Passport**, a decisive instrument for both organizing rehabilitation actions in a viable and efficient manner -not just energy- and for being an instrument of communication between the community and the administration.



Introduction to the Digital Building Logbook and Building Renovation Passport
Albert Cuchí, professor at ETSAV (UPC), and Joaquim Arcas, President of Cíclica

Case study 1: L'Hospitalet de Llobregat
Communication and community support
Anaïs Bas, Partner at Cíclica

Case study 2: Mataró and El Prat de Llobregat
Digital platform prototype
Joaquim Arcas and Anaïs Bas, President and Partner at Cíclica

Case study 3: Basque region
Long-term strategic planning
Joaquim Arcas

15:30 - 17:15 h

Session 3:

The challenge: sustainable materials and bioclimatic strategies

There is a decisive factor in the decarbonization of Architecture that has remained unknown until now; the **GHG emissions from to the manufacture of the materials** that we use to construct buildings. Decarbonizing our construction materials means a radical change in the way we build and we must understand its importance in the decarbonization of Architecture.



A decarbonized industry in 2050? #BuildingLife

Dolores Huerta, Managing Director GBCE

Roadmaps for the decarbonization of materials in Europe

Jade Serra, Partner at Slow Studio

Strategies towards decarbonization in the industry

Albert Sagrera, environmental architect consultant and member of the Societat Orgànica

Natural materials, a necessary path

Mariana Palumbo, Deputy Director and professor at ETSAV (UPC)

Bioclimatic architecture, an essential resource

Fabián López, Serra Hunter Fellow ETSAV (UPC)

17:15 - 18:15 h

Workshops

LEARN BY DOING: As a means to put into practice some of the **new concepts and instruments** that **must include in our daily practice** as architects, we will be offering workshops that allow us to understand and calibrate the importance of these new perspectives that should be integrated in our activity.

CO₂ emissions measurement tool

Licino Alfaro, ITEC

Building passport and Neighborhood community support

Anaïs Bas, Partner at Cíclica

Level(s) Software

Toni Escudé, Sustainability Director at 011h Sustainable Construction

LCA - Life Cycle Analysis

Bea de Diego, Green Building Council (GBCe)





Closing session.

Towards a common agenda

Build a common agenda for the decarbonization of Architecture. We would like to share our vision with the entities that lead the way -within the framework of the World Capital of Architecture 2026- and create a broader agenda to reach decarbonization by 2050.

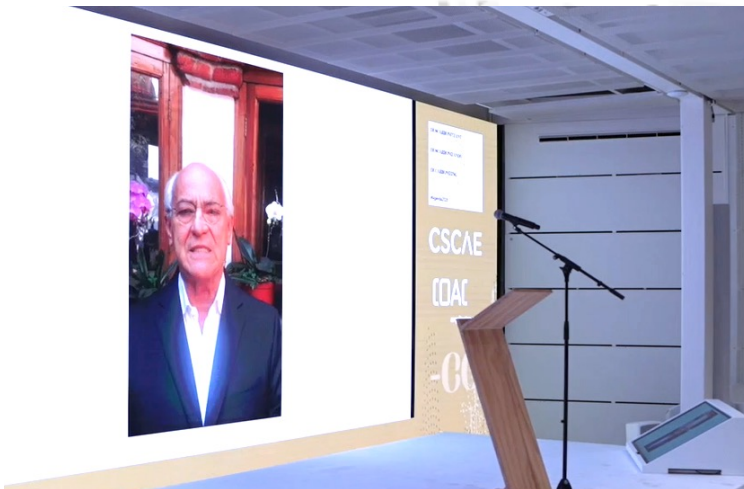
Albert Cuchí, President of AuS

Dolores Huerta, General Manager of GBCe

Anna Ramos, Director of Mies van der Rohe Foundation

Jose Luis Cortés, President of UIA

Greta Tresserra, COAC Board Member for Sustainability, Innovation and International Affairs



SIGNATURE OF THE BARCELONA DECLARATION 2026

KICK-OFF EVENT (Barcelona, november 2022)

Agenda event



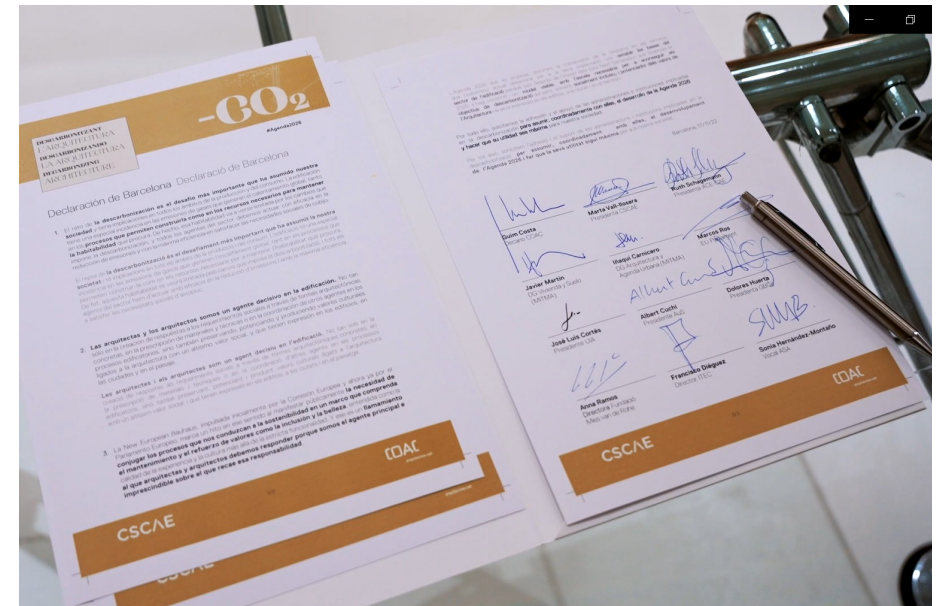
Videos of the sessions



BARCELONA DECLARATION



- A compromise to work together towards carbon neutrality by 2050.
- We architects, assume the leadership, according to the New European Bauhaus principles.



Supported by:

COAC, CSCAE, MITMA (DG Architecture and DG Housing of Spanish ministry), ACE-CAE, AuS, GBCe, Mies van der Rohe Foundation, ITEC. (Soon: Barcelona city council and Catalan Government, ...)

BARCELONA DECLARATION



#DescarbonizandoArquitectura

SUPPORT TO POLICY-MAKER

Communication:

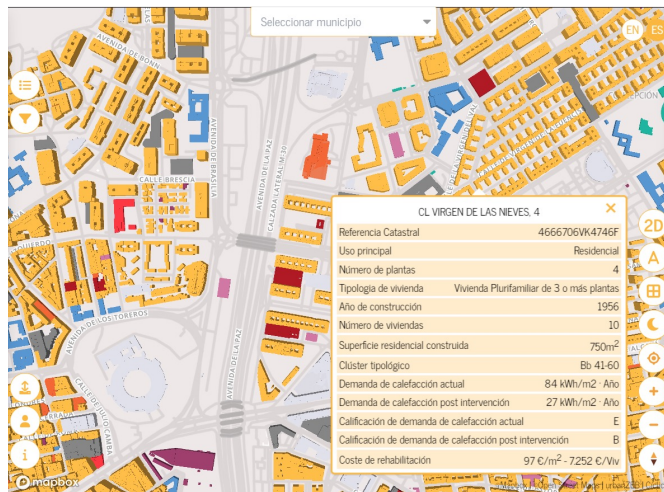
- Create awareness
- Technical reports to “dispel fears” and build trust
- Positive speech (job creation, market creation, economical savings in long term, health, improvement of the quality of life, etc)



#DescarbonizandoArquitectura

SUPPORT TO POLICY-MAKER

- **Data** collection and integration from different sources
- Generation and visualization of **new knowledge**
- **Coordination** of scales and stakeholders
- **Planning** long term renovation



www.urban3r.es



Step-by-step intervention proposal

Energy demand improvement

#DescarbonizandoArquitectura

SUPPORT TO POLICY-MAKER

Spanish Presidency on the EU Council

- Technical support to ministries (MITMA + MITERD)
- Reports on the relevance of EPBD approval
- Side Events (Valladolid, Gijón)
- Communication: Positive speech

**CHALLENGES ARE HUGE, BUT IT'S
UP TO US TO MAKE IT POSSIBLE**

Gracias

CSCAE



g.tresserra@coac.net

COAC

arquitectes.cat