

Dear **PLURAL** Subscribers,

We're excited to share our Newsletter #3 with updates on our website, the latest news and events, and exciting collaborations with fellow EU-funded projects. Thank you for your continued support and subscription.

### PLURAL WEBSITE

The **HOME** page now includes the project introduction video that shares our mission and vision, into which you can delve deeper through the **CONCEPT** page, where you'll find insights into our projects' core objectives, **PLURAL** pillars, real-scale and virtual demo sites and our partners.

### COOPERATION

A big highlight is the **COOPERATION** page, which shows our innovative project clustering approach. Discover how our collaboration strategy fosters efficiency by pooling knowledge, expertise, and experiences from projects sharing similar themes.

This page provides a list of our clustering projects, showcasing the collective efforts aimed at addressing shared issues. Now we welcome the 7th addition to our cluster, the **REHOUSE** project. Make sure to follow them on **LinkedIn** and **Twitter**!

Furthermore, the page highlights our dedication to collaborations with the clustering projects and through partnerships with renowned communities like the **BUILD UP** and **ICTP** portals, the **SmartBuild4U** project, and the esteemed Advisory Board.



### SUSTAINABLE PLACES 2023

The **PLURAL** project has participated this year in two workshops and has been an active participant for three consecutive years in the **Sustainable Places Conference**. This annual international conference is a significant platform for sharing knowledge, ideas, and innovations for enhancing sustainability in the built environment. To explore the workshops in which we engaged, please visit our **COOPERATION** page.



#### 50 Shades of Industrial Deep Energy Retrofit

This workshop was organized by several EU projects on industrialized, modular renovation, both in the development and market uptake stages. Circular renovation and economy are key aspects of these projects as well. Influential figures in the evolving renovation sector shared insights and experiences to bolster future housing retrofit policies.

[Watch the recording.](#)



#### Renewable Heating and Cooling Solutions for Buildings and Industry: The 4th Edition

This workshop is a continuation of three previous iterations, bringing together a selection of H2020 EU-funded projects involving experts from the biomass, geothermal, solar thermal, waste heat recovery, and heat pump sectors to discuss a common strategy and next steps forward.

[Watch the recording.](#)

### UPCOMING EVENTS

Introducing our latest feature: a lineup of upcoming events that our incredible partners are gearing up for in the near future. No more searching the internet for information on upcoming events. We have created a section with a selection of conferences, seminars, workshops, and expos that are a must-attend. Head over to the updated **NEWS & EVENTS** section and get ready to explore the exciting events that our partners have in store.



### PLURAL NEWS

Our partner **CVUT-UCIES** introduces an open-code repository, housing numerical models of advanced thermoelectric ventilation units and their controllers, extending the TRNSYS v18 simulation environment. The in-facade thermoelectric ventilation unit stands as one of the cutting-edge components following the **PLURAL** project's Plug-and-Use (PnU) concept. Explore the 'Thermoelectric Unit' library and follow the installation process: [here](#).



The wheels of progress are turning as the construction company kicks off preparatory work on the real-scale demo site in Kafeva, Czech Republic, from excavations around the house to waterproofing repairs of the underground structure, solid steps towards transformation are being taken.

Our partners from **AMC** hosted an informative day where they introduced the **PLURAL** project to the prospective tenants who will live in the demo building located in Terrassa, Catalonia. The official dwelling's delivery ceremony has taken place, where questionnaires were circulated.



Two Steering Committee Meetings (SCM) were held in the span of six months. The 6th meeting was held on May 18th, where productive discussions on ongoing work packages, progress updates, future work, and dissemination activities took place.

The 7th meeting was held on July 28th, where demo-site status was a centre point of discussions, along with partners planning their next steps in order to prepare for the upcoming 2nd review meeting.

Our project coordinator Maria Founti shared valuable insights on the importance of prefabrication in achieving circular construction in the **EXPERT TALK** series on the **BUILD UP** portal. Prefabrication provides significant cost savings and waste minimization benefits, making it a crucial aspect of circular construction.



**IREC** has developed a set of Smart Energy Management (SEM) building control algorithms that can increase energy flexibility, reduce costs and transform the way buildings use energy. SEM is a technology to be included in the control toolbox of the **PLURAL** solutions. Download and read the press release [here](#).

Two-day **General Assembly meeting** took place on the 28th of March in Barcelona, Spain. The meeting was organized by Catalan partners of the **PLURAL** project, **IEC**, **Bevelops**, **Rich Architects**, **IREC**, and **AMC**. The meeting had a positive outcome, with the partners engaging in informative presentations and enjoyable networking opportunities.



Our partners **Intrasoft** and **NTUA** have written a technical article, detailing the development of the Decision Support Tool, **MODEST**, which allows users to sort through collected simulation and real-time building monitoring data to see the configuration choices that have led to the best KPIs for the renovation of buildings. Read the full article on the **BUILD UP** portal.

### VIDEOS

In the past half-year, we've shared five new videos! All are available on our **YouTube channel**.



An interview with Ioannis Christou, a senior research data scientist at **Netcompany-Intrasoft** introducing the **MODEST** platform, a cloud-based decision support tool. The Multi-Objective and Multi-Criteria Decision Support Tool empowers users to make informed decisions based on Key Performance Indicators (KPIs) and real-time monitoring data.



An interview with Jordi Pascual, senior researcher at **IREC** focusing on SEM (Smart Energy System), a set of algorithms that empowers end-users to operate various building elements, shares valuable insights on energy consumption and discusses how **PLURAL**'s smart solutions can help optimize energy usage and improve building efficiency.



**Netcompany-Intrasoft** partners have also presented a training course on **MODEST-LYSIS**, an advanced analytics platform that revolutionizes data analysis and decision-making. Watch the video and discover how **MODEST-LYSIS** extracts valuable insights from complex data sets, transforming the way to analyze data.



Fire testing of the innovative smart window with heat harvesting capacity: The research tests were performed at the **National technical university of Athens** premises with the presence of **IGTec**, the window developer, and **AMS**, the SmartWall prefabricated kit manufacturer that integrates the smart window.



Today, cost-effective and environmentally friendly approaches are a must when designing/renovating building envelopes. This workshop co-organized by the **PLURAL**, **Switch2Save**, and **Roemkies** projects featured examples of novel approaches, learning at them from the research & development as well as industrial and commercial perspectives.

Make sure to follow us on social media and [subscribe to our newsletter](#) so you don't miss any project news and updates!



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