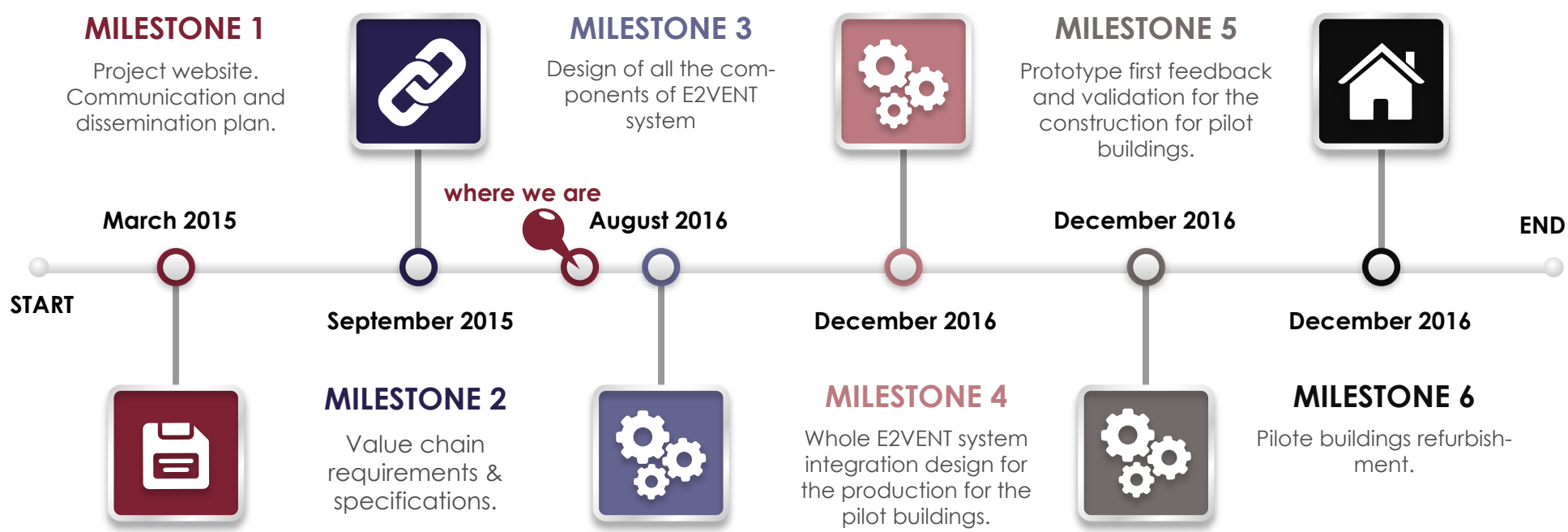


Dear Reader,
welcome to the E2VENT project second newsletter. The E2VENT project has reached milestone of 18 months and we would like to share the latest news, activities, technology development and plans for the next period.

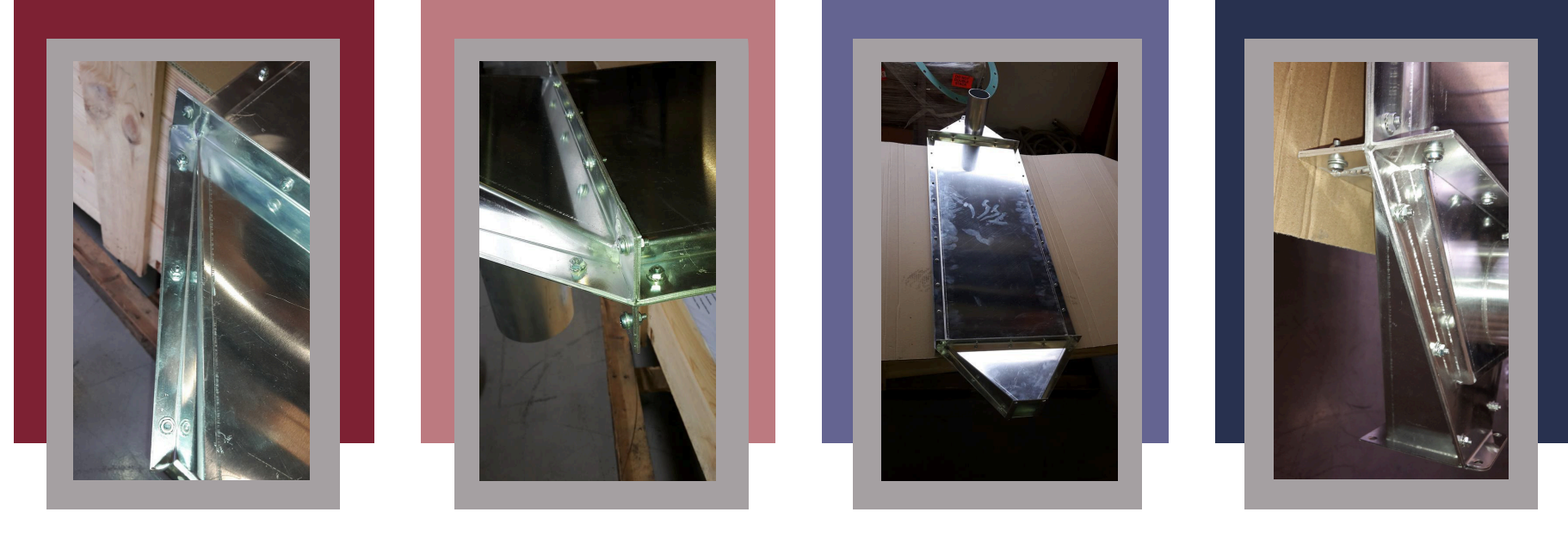
Energy Efficient Ventilated Façades for Optimal Adaptability and Heat Exchange enabling low energy architectural concepts for the refurbishment of existing buildings.



TECHNICAL DEVELOPMENT

Under TECNALIA's leadership, the elements composing the E2VENT external thermal retrofitting system were developed. The two heat exchangers embedded in the E2VENT module evolved from concept to design and now fist prototypes.

- TECNALIA developed the SMHRU, a **Smart Modular Heat Recovery Unit** for the air renewal (allowing the heat recovery from the extracted air using a double flux exchanger).
- NOBATEK developed the LHTES a **Latent Heat Thermal Energy Storage** based on phase change materials that will provide a heat storage system for heating and cooling peak saving.
- AUTH optimized the **efficient anchoring system** that will limit thermal bridges and allows an easy and durable installation.
- ELVAL COLOR, large aluminum industrial, was deeply evolved as it manufactured most of the elements of those three systems.
- CARTIF is developing the **smart management system** that will control the system on a real time basis targeting optimal performances. It will embed new sensors, communicate with existing systems and recover predicted weather.



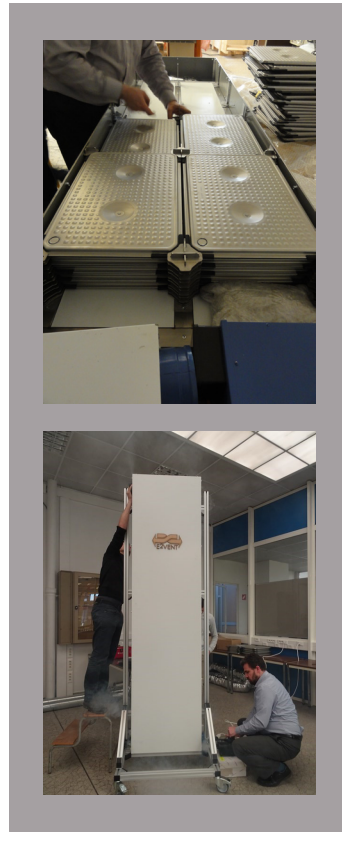
Picture 1: E2VENT Smart Modular Heat Recovery Unit first prototypes



Picture 2: PCM 3 types of encapsulation

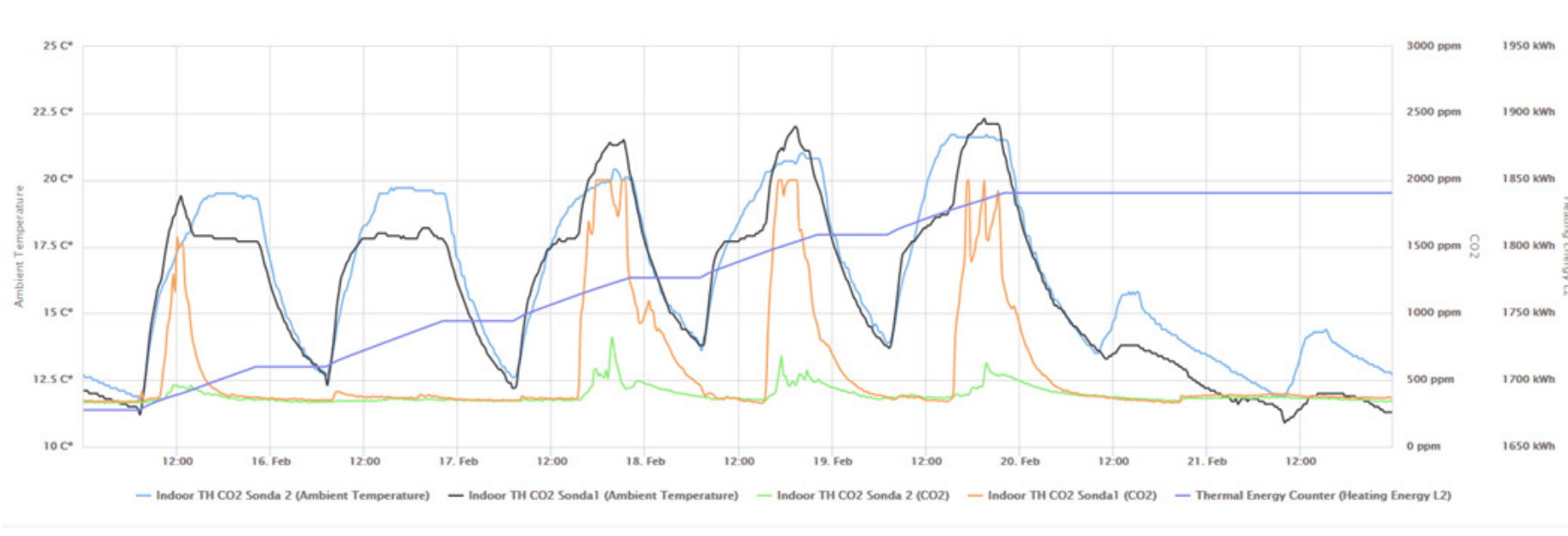
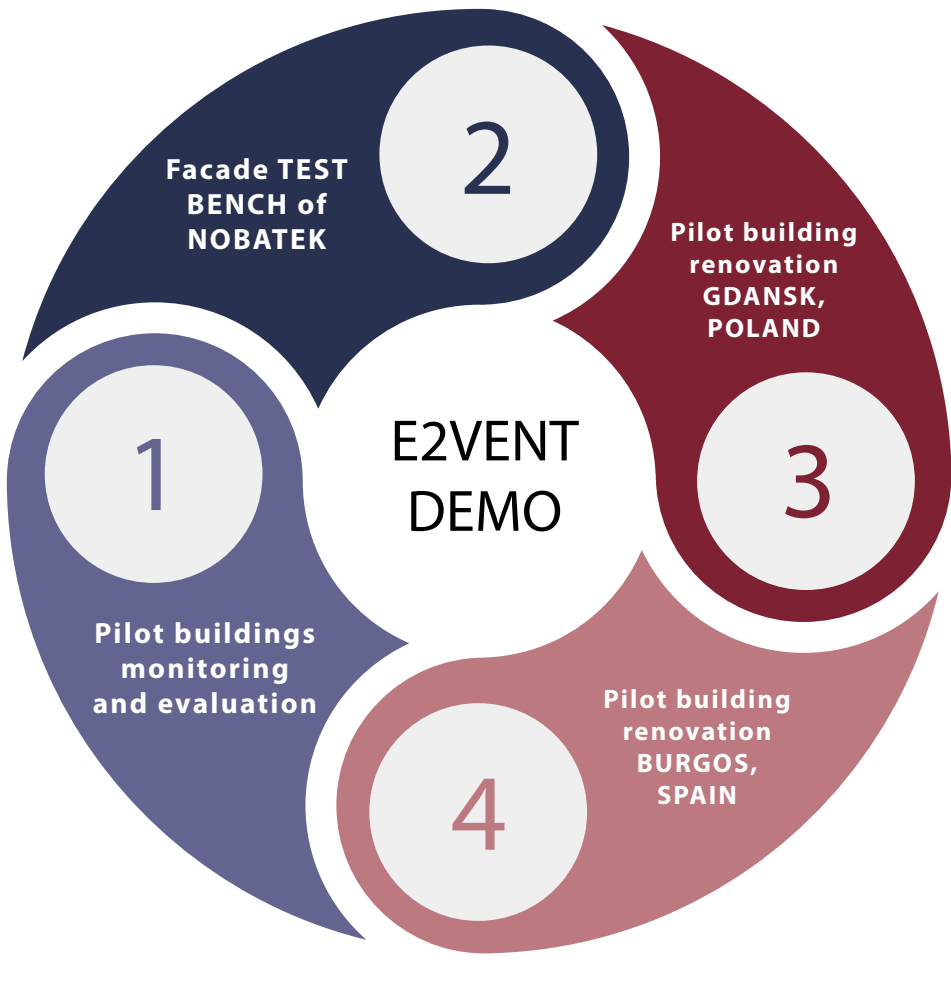


Picture 3: E2VENT Latent Heat Thermal Energy Storage prototype



DEMOVERSIONS

Prototypes performance will be firstly tested on the façade test bench of Nobatek allowing a setting step. Two pilot buildings will be renovated with E2VENT systems. One is in Gdansk, Poland, and another in Burgos, Spain, in order to test the E2VENT system in two different climates. In order to assess the impact of the E2VENT module, the energy performance of the demo buildings is being evaluated before retrofitting. The two buildings have been monitored for six months measuring electricity and gas consumption as well as indoor environment quality parameters. It will permit to establish the energy consumption baseline for comparing the new consumptions after renovation and then for establishing the savings. The renovation with the E2VENT module will be implemented in March 2017. The renovation design is being carried by the architects from PICH.



Picture 4: Burgos pilot - Comfort and Consumption (Winter Week)

PARTNERS



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NEWS AND EVENTS



E2VENT project website
E2VENT website has been established on March 2015 and since then has almost nearly 15 000 views! For more info visit:
www.e2vent.eu

First E2VENT video
FENIX as dissemination leader designed first promo video for E2VENT project, click on the E2VENT YouTube channel below to view the whole video:
<https://www.youtube.com/channel/UCu7-AmJCIDZM1QpA6vwjwrg>

- Where you can see E2VENT project presented**
- ICCBM 2016 (Forum)**
27 - 28 June 2016, Copenhagen, Denmark, CARTIF
 - Sustainable Places 2016**
30 June - 1 July 2016, Anglet, France, NOBATEK
 - ICSB 2016 (Forum)**
3 - 4 October 2016, Barcelona, Spain, CARTIF
 - 11th Conference on Advanced Building Skins**
10 - 11 October 2016, Bern, Switzerland, DAPP, NOBATEK
 - International Conference SBE 16 Thessaloniki**
17 - 19 October 2016, Thessaloniki, Greece, AUTH, NOBATEK, TECNALIA
 - Architectural Conference in Greece**
October 2016, Athens, Greece, ELVAL
 - Aluminium Fair - Duesseldorf**
29 November - 1 December 2016, Dusseldorf, Germany, ELVAL

Social profiles for E2VENT created
Do not forget to check latest updates about the project and partners on Facebook, Google+, LinkedIn and Twitter.

Google+: **E2VENT project** (<https://plus.google.com/b/115037635163853407333/115037635163853407333/posts>)
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