



Building Information aGgregation, BIGG

Building Information aGgregation,
harmonization and analytics platform

inBIGG

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The project BIGG, launched in December 2020, demonstrates the application of big data technologies and data analytic techniques in the complete buildings life-cycle, in more than 4000 buildings in 6 large-scale pilots, 3 in Spain (Catalonia) and 3 in Greece.



OBJECTIVE NO.1

To design and implement a flexible and open-source big data reference architecture to collect, analyse and exchange dynamic and static building - big - data from heterogeneous external data sources and digital building technologies, while ensuring data protection and security.

OBJECTIVE NO.2

To standardise and internally harmonize the data collected from different sources as a basis for full interoperability between databases and tools.



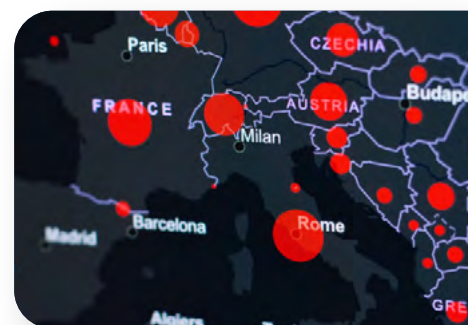
OBJECTIVE NO.3

As part of the BIGG architecture, to develop an open, cloud-based building-related data analytics toolbox - supporting different data analysis techniques - extensible to support third party developments and wide range of services.



OBJECTIVE NO.4

To validate the BIGG Data Analytics Toolbox over the BIGG Data Reference Architecture 4 Buildings in large-scale pilots supporting different multi-party business cases, in different countries.



OBJECTIVE NO.5

To promote and incentivise the widespread adoption of BIGG platform by providing 1) attractive services, considering their financial sustainability and improving the user experience; 2) standardized and open solutions.



This project has received funding from the European Union's H2020 programme under Grant Agreement N. 957047



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As part of BIGG architecture, the project aims at developing an open, cloud-based building-related data analytics toolbox – supporting different data analysis techniques – extensible to support third party developments and a wide range of services.

This Toolbox will be validated in Pilots under following objectives:

- The evaluation of the applicability of the designed BIGG platform to support diverse real-world business scenarios, in terms of defining the KPIs (from technical, business and/or legal perspectives), and collecting monitoring information to check KPIs are met;
- The performance of cross-pilot evaluations of the different business scenarios.

The following picture represents a high-level view of the 6 business cases considered in the BIGG pilots.



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The project is led by Inetum-Realdolmen. Its consortium gathers CIMNE, CSTB, ICAEN, IMEC, Helexia, Intuicy, ICAT, Engie, ECTP, domX and HERON




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