

# The test site

The benefits of INDIGO developments will be validated in a real District Heating and Cooling (DHC) installation: Basurto Hospital (Bilbao, Spain). Basurto was erected during the first decade of the 20th century in the city of Bilbao and currently comprises more than 15 buildings, most of them maintaining their original architectural special features.



Heating and cooling demand of the hospital is satisfied thanks to a DHC installation connected to a trigeneration plant (electricity, heat and cold). The DHC system was erected inside the hospital area in 2003 by Giroa-Veolia, and extended in 2011. This company currently operates the system and also the HVAC in the buildings.

# The team

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(Spain)  
Project coordinator



IK4 Tekniker  
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VTT Technical Research  
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(Finland)



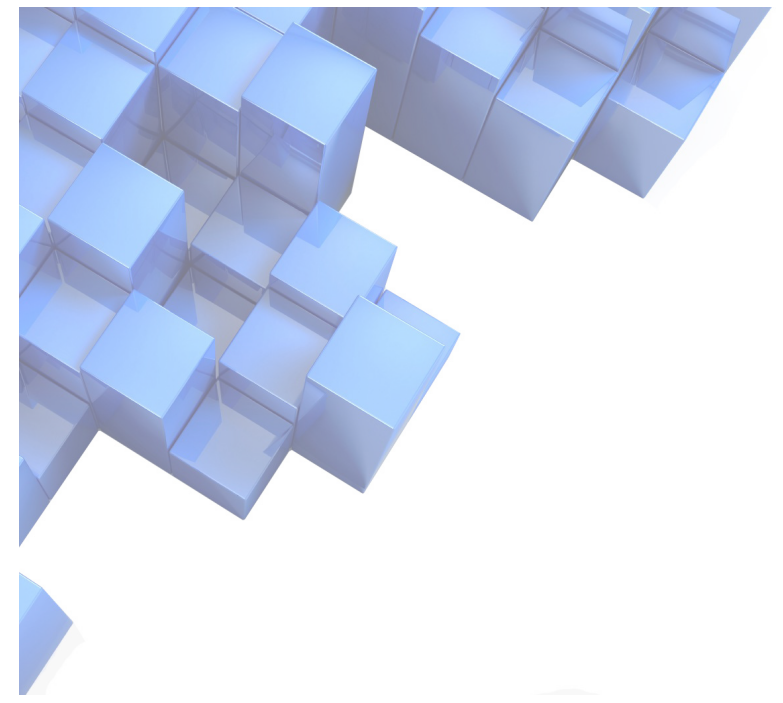
Centre Suisse  
d'Electronique et de  
Microtechnique  
(Switzerland)



NUI Galway  
(Ireland)



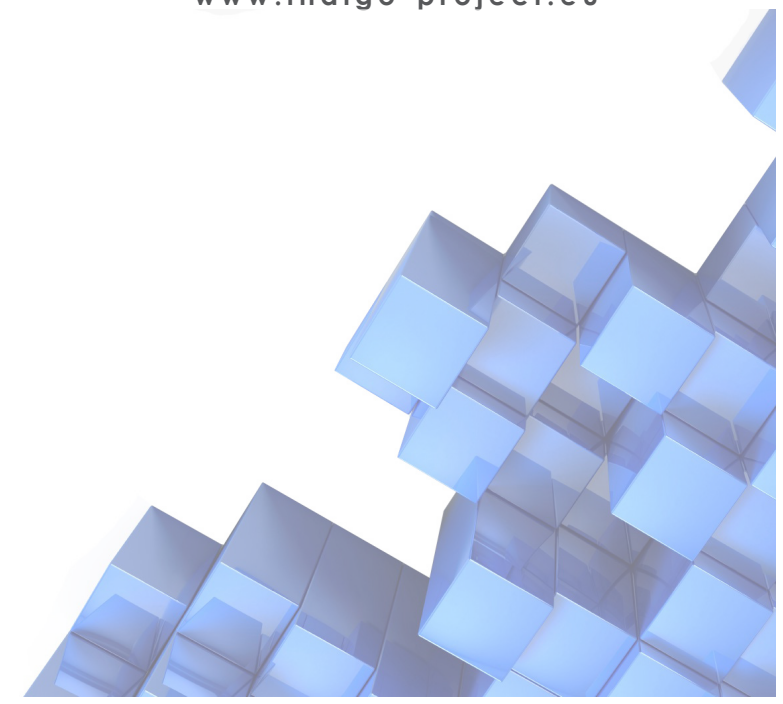
R2M Solution SRL  
Research to market  
(Italy)



[www.indigo-project.eu](http://www.indigo-project.eu)



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# What is Indigo?

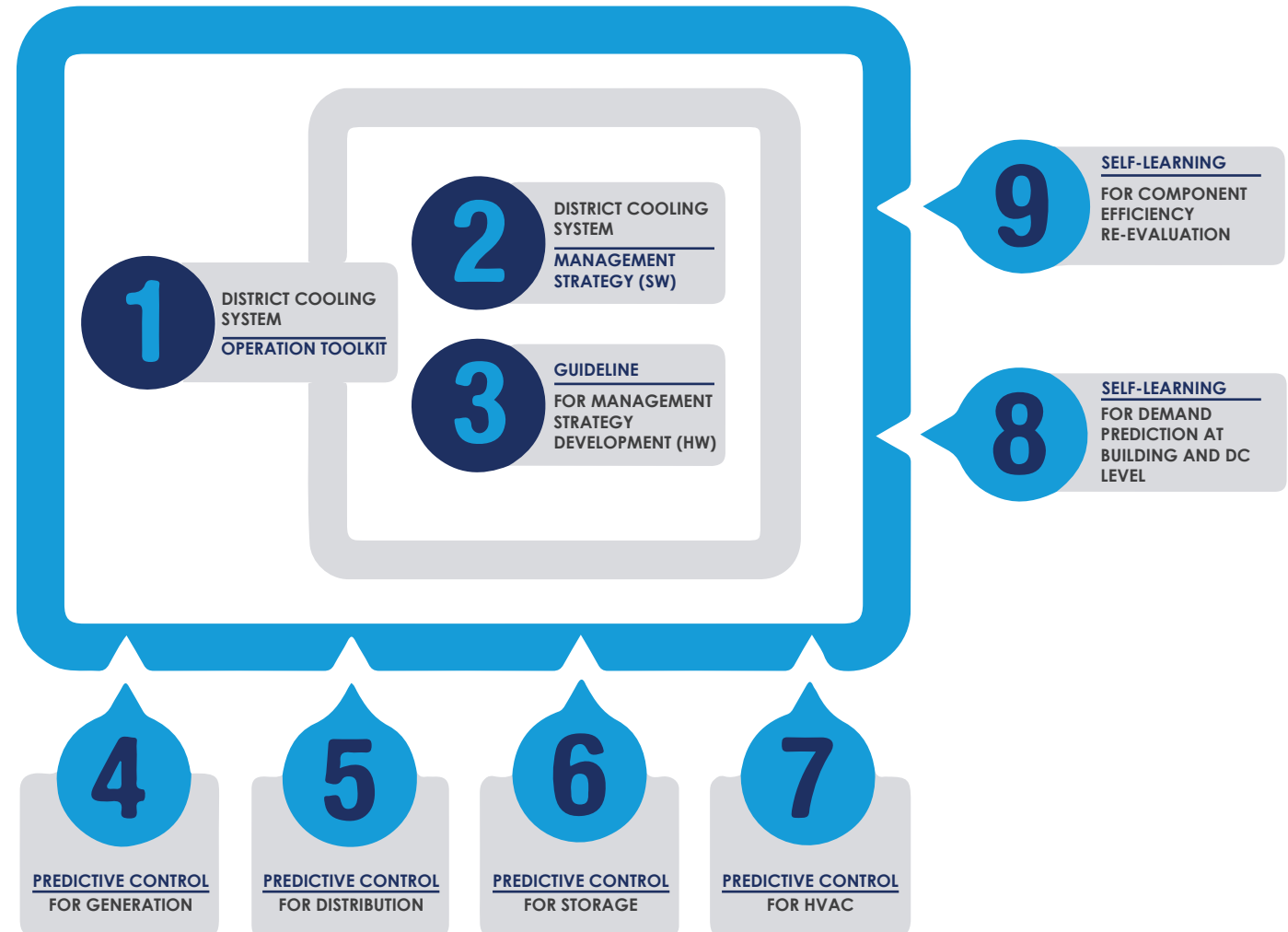
INDIGO is a Horizon 2020 project which main objective is the development of a more efficient, intelligent, and cheaper generation of District Cooling (DC) systems by improving the existing system planning, control and management tools, taking into account all components and levels of a DC system.



INDIGO involves the development of an innovative and optimized DC system Management Strategy and the integration of predictive controllers at component level, some of them including self-learning algorithms for accuracy improvement. INDIGO will also result in an innovative planning tool and an open source library of thermo-fluid dynamic models of DC systems components, both aiming at supporting optimal DC system design.

*New generation of intelligent efficient District Cooling Systems*

## INDIGO modular approach developments



### Project facts

Project type: Research and innovation action

Start date: March 2016

Duration: 42 months

Effort: 336.50 PM

Call: H2020-EE-2015-2-RIA

Budget: € 2.237.500