

**Acronym** – UrbanWINS

**Title** – Urban metabolism accounts for building Waste management Innovative Networks and Strategies

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**Department** – Department of Design and Planning in Complex Environments

**ERC Sector** – SH3 (SH3\_2\_3\_9\_10)

**Iuav Role** – partner

**Duration** – 36 months

**Closure** – 30/05/2019

**Project budget** – € 4.966.516,25

**Iuav budget** – € 292.562,50

**Funding to Iuav** – € 292.562,50

**Source of funding** – Call EU: Horizon 2020 Programme – Call H2020-WASTE-2015-two-stage - Topic WASTE-6b-2015

**Description** – The scope of the project is to develop and test methods for designing and implementing innovative and sustainable Strategic Plans for Waste Prevention and Management in various urban contexts that will enhance urban environmental resilience and guarantee progress towards more sustainable production and consumption patterns together with improvements waste recovery and recovered materials use. UrbanWINS will define a data set, based on material flow indicators, capable of supporting and orienting decision-making processes for urban waste prevention and management. Knowledge of the factors that influence the metabolism of cities will be improved together with the understanding of how those factors can be transformed in positive drivers of technological, non-technological and governance changes. The information set produced by the consortium will also focus on how a more efficient use of resources and a better management of waste can improve urban quality and citizens' welfare, key points for urban stakeholders' involvement, both in the planning and implementation of actions. The proposal reunites diverse actors such as cities, research institutes and universities, environmental NGOs, IT&C, technological innovation and waste management companies, professional associations that represent EU regions, sectors and levels of governance. The complex partnership guarantees that advancement in EU research in the field of urban metabolism and waste management strategies is directly linked to stakeholder engagement and mutual learning and contributes to the achievement of resource efficiency and waste management objectives. UrbanWINS analytical tools will be built on the base of datasets and experiences of 24 EU cities from 6 European countries and the Strategic Plans will be tested by 8 EU cities and will encompass regulatory measures, educational initiatives and sector specific actions.

**Objectives** – The scope of the project is to develop and test methods for designing and implementing innovative and sustainable Strategic Plans for Waste Prevention and Management. This will take place in various urban contexts based on innovative, inter-disciplinary and participatory approaches that will enhance urban environmental resilience. Further, this will guarantee progress towards more sustainable production and consumption patterns together with improvements in the recovery of waste and the use of recovered materials. Specifically, the development of Strategic Plans will be built on the basis of improved knowledge of the factors that influence the metabolism of cities and of a deep understanding of how those factors can be transformed in positive drivers of technological, non-technological and governance changes.

In fact, the project specific objectives are:

SO1: Deepening the understanding of the state-of-the art of urban waste management strategies and their links to urban metabolism approaches based on the in-depth analysis of the heterogeneous situation in 24 EU cities and 6 countries (Italy, Romania, Sweden, Spain, Portugal and Austria);

SO2: Setting up of informative and participatory instruments for the engagement of urban stakeholders necessary for co-developing and co-testing new solutions;

SO3: Development, testing, formalization and dissemination of a series of innovative waste prevention and management recommendations and instruments.

The proposal aims to bring a direct contribution to the objectives of the EU Resource Efficiency Roadmap and the Waste Framework Directive and will last for three years.

**Website** – [www.urbanwins.eu](http://www.urbanwins.eu)

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