

ZeroWIN - Towards Zero Waste in Industrial Networks



Imagine a waste-free future!

Moving from the traditional industrial model, in which waste is considered the norm, the ZeroWIN project aims to develop integrated industrial symbiotic systems in which everything has a use. By exchanging industrial by-products, energy, water and materials between sectors, waste from one industry can become raw material for another. Businesses are encouraged to emulate the sustainable cycles of nature, minimising the burden imposed on the earth and using its resources more efficiently.

Developing new technologies for resource-use optimisation and adapting existing software tools to support waste prevention is expected to lead to:

- a decrease of at least 30 percent in greenhouse gas emissions;
- the re-use and recycling of at least 70 percent of waste; and
- a reduction of at least 75 percent in fresh water utilisation.

Bend the trend!

At the core of the ZeroWIN project are **nine industrial case studies**, accumulating knowledge that will be exportable into European and worldwide contexts.

Concentrating on **industrial networks** in the **automotive, construction, electronics and photovoltaic industries**, ZeroWIN will reach nearly 3 million companies (80 percent of which are small and medium-sized enterprises):

- with a turnover of more than EUR 2.8 trillion and a value creation of more than EUR 800 billion;
- with more than 20 million employees;
- creating about 40 percent of all industrial waste, or more than 400 million tons;
- using as much as 50 percent of all resources extracted from the earth; and
- generating about 40 percent of all energy use and around 35 percent of all greenhouse gas emissions.

Get involved!

The development of a network of stakeholders and corresponding members is an essential aspect of the ZeroWIN project, along with the wide dissemination of project results. All stakeholders are invited to participate actively at their own expense, to contribute to the expert groups, and to receive project-related public information.

Contact:

Project webpage: www.zerowin.eu

The ZeroWIN consortium is led by the Austrian Society for Systems Engineering and Automation (SAT) and has 30 partners from 10 countries (Austria, Germany, Spain, France, Hungary, Ireland, Poland, Portugal, Romania, and the United Kingdom).

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