INDUSTRIAL SYMBIOSIS: THE OPPORTUNITY FROM SHARED INFRASTRUCTURE AND JOINT SERVICES



infrastructure

Shared services

Industries and authorities must address resource scarcity, climate change, and land use change sustainably. Joining forces in infrastructure and services can overcome these challenges. The copper industry practices industrial symbiosis to boost operational efficiency in key areas (e.g., heating, logistics).

Industrial symbiosis involves valorizing production output and resources by other sectors (e.g., water, energy) and sharing infrastructure & services among multiple actors. This approach offers great potential for the participating sites operating in proximity.

WHAT ARE SHARED INFRASTRUCTURE AND SERVICES Transport services Industrial symbiosis through shared infrastructure and joint services refers to the sharing of company infrastructure Electricity Warehouses networks with other industry players when that infrastructure is used below its designed capacity or the joint provision of services between two or more companies in a coordinated Facilities manner, bringing mutual benefit. WHAT ARE ICA MEMBERS DOING? Engagement Creation of Joint Shared Engagement with universities in consortia partnerships ventures and facilities to to develop to boost practices to to test and treat solutions to recycling and tackle larger specific push the increase the management industrial material boundaries of of electronic sustainability issues streams Industrial of the devices Symbiosis industries involved in the battery Using waste heat sector from Production of biofuel pyrometallurgical from renewable sources like plants copper production processes for to be used in copper extraction processes district heating

BENEFITS OF INDUSTRIAL SYMBIOSIS

ARCADIS





For more information about the copper industry's commitment to sustainability, please check our website <u>www.copperalliance.eu</u>

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