Carbon Concrete Composite

Fact Sheet

Projects of the C³Association in the year 2023

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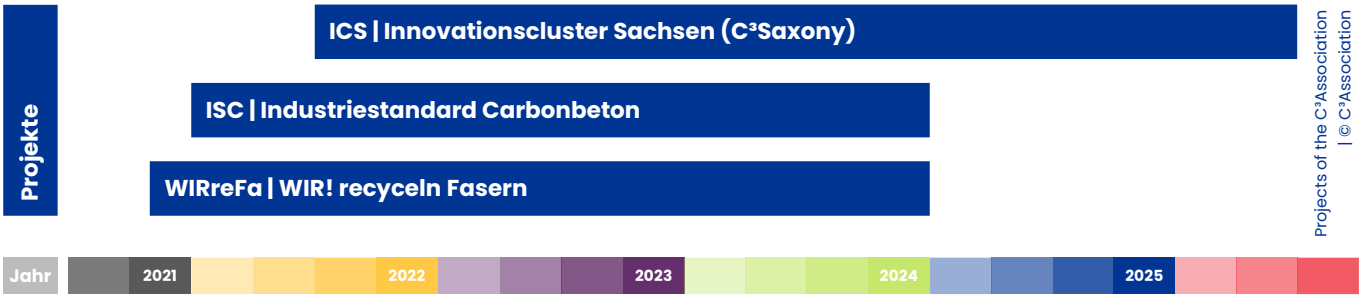

Projects of the C³Association | © C³Association

ICS

Designation
-
ICS | Innovationscluster Sachsen (C³Saxony)
(Innovation Cluster Saxony)

Run-time
-
2022-07-01 to 2026-06-30

Partners
-
more than 30

Funding
-
2.1 million EUR

Funded by
-
Free State of Saxony through tax revenue on the basis of the budget approved by the Saxon State Parliament.

Role of the C³Association
-
Initiator of the project

Strategy and innovation management tasks

Related link
-
https://carbon-concrete.org/c3/c3saxony

ISC

Designation
-
ISC | Industriestandard Carbonbeton
(Industrial standard carbon concrete)

Run-time
-
2022-01-01 to 2024-12-31

Partners
-
more than 20

Funding
-
8.0 million EUR

Funded by
-
Federal Ministry of Education and Research (BMBF) through the programme "RUBIN – Regional Entrepreneurial Alliances for Innovation" from the "Innovation & Structural Change" programme family.

Role of the C³Association
-
Initiator of the project

Consultant to the alliance

Related link
-
https://isc-projekt.de

WIRreFa

Designation
-
WIRreFa | WIR! recyceln Fasern
(We recycle fibres)

Run-time
-
2021-09-01 to 2024-12-31

Partners
-
more than 70

Funding
-
8.0 million EUR

Funded by
-
Federal Ministry of Education and Research (BMBF) through the programme "WIR! – Change through Innovation in the Region" from the "Innovation & Structural Change" programme family.

Role of the C³Association
-
Initiator of the project

Strategy, innovation management and education and training tasks

Related link including explanatory film
-
https://www.wir-recyceln-fasern.de

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Objective of ICS

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The Free State of Saxony values carbon concrete construction as an innovation driver for the development of the region. For this reason, it supports Saxon institutions from the business sector in establishing and expanding new business fields and in filling key positions in the global market.

The alliance will carry out an intelligent specialisation and diversification of skills and efficiently increase performance with regard to the innovations. In the project All partners will be involved in practice-oriented knowledge and technology transfer during the first three years.

- The industrial partners have the relevant basics of carbon concrete construction firmly anchored in their own institution.
- After ten years, all partners cooperate along the value chain, with the individual processes of the respective institutions from industry being designed for cross-industry business models. New utilisation options, business models and digital interfaces have become established. A showcase plant for products made or and for carbon concrete with innovative future technologies is in operation.

Objective of ISC

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Carbon concrete has not yet been used to the extent necessary to positively influence construction as a preferred material for structures. For a successful entry to the market and its establishment, standards and guidelines for carbon concrete construction are essential. They are the basis for high sales of carbon concrete and the emergence of an economically highly significant location around Dresden and Leipzig.

The alliance creates relevant standards and guidelines for building with carbon concrete in new construction. It is only through the existence of standardisation that new materials can be introduced sustainably to the construction market and established there. All fundamental open questions regarding standardisation are clarified and the degree of the maturity of the basic technologies is raised across all applications. By the end of the project

- Guidelines and standards will be established in order to lead the carbon concrete construction method to a stronger application and
- New value chains will have been created by the region and the partners, and existing products and their applications will have been placed on the market.

Objective of WIRreFa

-

When metals are substituted by fibre composites, waste containing fibres is generated. Unlike conventional metals, these high-quality secondary raw materials are not yet an established part of a closed material cycle.

In the "Elbe Valley Saxony" region, an alliance for the recycling and resource management of fibre composites is being established. By the end of the project

- The institutions anchored in the "Elbe Valley Saxony" region and related to the circular value chain of fibre composites will be networked with each other and
- First concrete circular value chains in the "Elbe Valley Saxony" region will have been planned and set up and jobs created.

In addition, the alliance will contribute to

- Building up confidence, acceptance and enthusiasm for the feasibility of circular value creation chains for fibre composites among all stakeholders inside and outside the "Elbe Valley Saxony" region and
- Providing new impulses for further research and development work and communicating findings and successes to the public.

SACHSEN

Bundesministerium für Bildung und Forschung

Bundesministerium für Bildung und Forschung

RUBIN Regionale unternehmerische Bündnisse für Innovation

wir! Wandel durch Innovation in der Region

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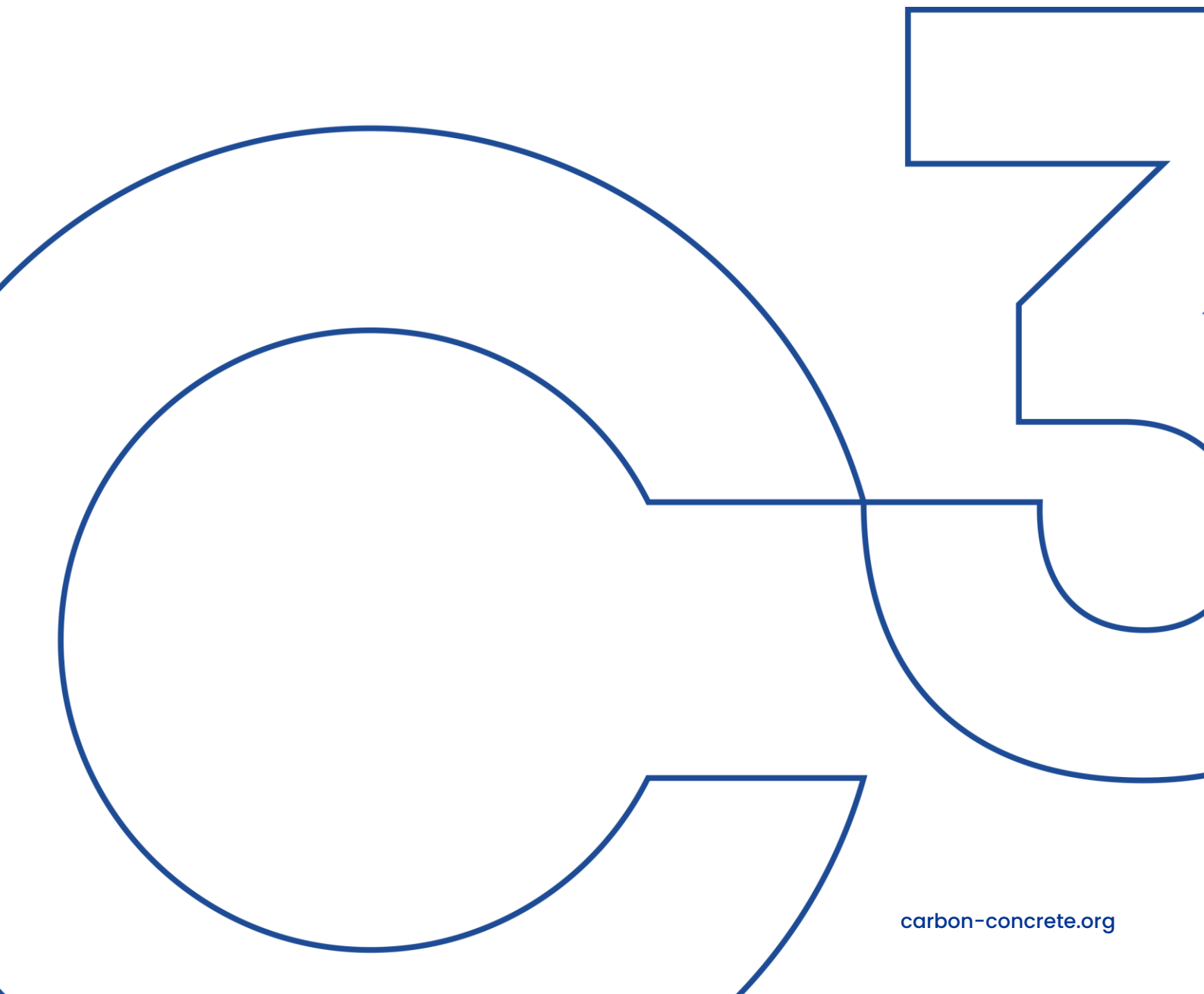

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