



ECCA PROJECT - 690364

Adopting Circular Economy for internationalization and global competitiveness of European SMEs in Building and Construction



ECCA survey on clusters` Circular Construction portfolio

December 2016



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*European Circular Construction Alliance (ECCA) aims to prepare internationalization strategy and roadmap of activities based on existing interest and competences of clusters and cluster/network`s members (SMEs), and by mapping internationalization opportunities for existing or novel Circular Construction solutions identified within the whole ECCA alliance. The key strategic approach is planned to be the **internationalization of European, inter-cluster groups/consortia of organizations (SME plus supporting organizations) offering particular circular construction solutions within the building value chain.***

To proceed with these activities, ECCA partners` (e.g. clusters/networks`) Circular Construction profiles have to be mapped (Part 1), and particular profiles of their members (Part 2). Additionally, first suggestions for European, inter-cluster circular economy solutions are to be drafted (Part 3).

The survey prepared aims to gather these data, being upgrade of the clusters` profile as prepared for the European Cluster Collaboration Platform. The additional information required within ECCA project is marked yellow (in Part 1) and will be used only within the ECCA project implementation.

We prepared detail instructions how to respond to particular questions but if there will be some more explanation needed email ECCA project team member or directly Vladimir.gumilar@sgg.si (coordinator). If you need more entries, just add new rows in the tables.

Please respond to this survey by 23rd of December in order to present the results at the 1st ECCA General Assembly meeting and conference which will be held on 11-12 of January 2017. The first workshops of ECCA inter-cluster groups will be implemented on the conference.

Thank you for your contributions.

Best regards,

Vladimir Gumilar, ECCA project coordinator

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Part 1: Cluster profile

The overall presentation of the cluster is to be done according to the required content at the European Cluster Collaboration Platform (ECCP) at www.clustercollaboration.eu. Partners of ESCP-4i are expected to be registered at the ECCP portal in order to be linked to particular ESCP-4i, in our case to ESCP-4i European Circular Construction Alliance, and also to other partnerships, activities and services provided by ECCP.

Please register on the ECCP platform and enter all data required for the cluster profile. When done or if already done, please copy-paste the data you entered (not to write content two times) and add some more **ECCA specific information** we would like to know in more detail to implement ECCA project objectives.

The additional information needed for ECCA is marked **yellow**.

General Information

Organisation Logo:

Please send us quality logo by email (to Vladimir.gumilar@sgg.si), optionally in high quality or vector format.

Year Established:

Number of employees in the cluster organization:

Legal form of organization:

Cluster Excellence Label:

Membership to European Strategic Cluster Partnerships (ESCP-4i):

After signing the ECCA application form e.g. signing the ECCA partnership agreement you can link you cluster/network to ECCA ESCP-4i on the ECCP platform.

Membership to other networks/partnerships:

Beside EU ones we are highly interested in any international ones (clusters, partnerships, associations, networks etc.) since these can be used as a gateway or can be helpful in ECCA internationalization activities. Please describe the level of your cluster`s engagements, for example: level of communication established, meetings implemented, join activities of project done and technological/business fields where you as a cluster collaborated with these clusters or networks abroad.

Name	Website	Level/types of collaboration and internationalization

Cluster Management Team:

Name	Surname	Position	Telephone	Email	Main competence

Please write who will be the person in the cluster to be contacted within ECCA project and internationalization. Please provide brief description of his/her competences, if relevant linked to particular third countries.

Link to team description on the cluster's website:**Languages spoken:**

The language barrier can be an important obstacle for the internationalization. Please provide information on language competences according to Europass – for particular languages and for which countries (if relevant), which goes beyond basic communication.

See <http://europass.cedefop.europa.eu/documents/european-skills-passport/language-passport> for details

Language	Competences	Countries

Sectoral and Industrial Focus**Sectoral Industries:****Technology fields:****S3 EU priority areas:****Emerging industries:****Areas of specialization of the cluster not covered above:**

Please provide list of specializations related to ECCA thematic areas of circular construction, on the level of cluster. This relates to internationalization objectives and planned activities of the cluster as whole. Particular details (technologies, service, particular circular construction solutions) are to be linked to cluster/network's members.

Thematic area / solution	Details

Composition of the cluster**Total number of members:****Number of SME members:****Number of larger company members:**

Number of research organizations/universities/technology centers:

Number of other ecosystem actors:

Link to the cluster members' list:

Name and link of major players:

Provide information on level of internationalization for particular cluster members. Particular details should be provided with the individual cluster member's profile. Please mark the following levels of internationalization interest/level:

- Market research
- High interest
- Planned activities
- On-going internationalization

Please get some direct contribution from cluster members to provide this information, see also the Part 2 of the ECCA survey.

Name	Website	Technology / circular construction solution	Internationalization interest / level of engagement	Countries/markets targeted

Cluster Strategy

Mission/Objectives:

Do you have a formalized strategy?

Do you have a specific strategy focus that addresses internationalization?

Please provide information of specific internationalization strategy elements or activities which might be interlinked with the ECCA activities, linked to particular inter-cluster initiatives.

Focus area	Details

Services

Support services provided:

Details of support services:

ECCA internationalization strategy aims to exploit and/or integrate existing clusters' services, existing European (EEN, EU Gateway...) or - where relevant- national ones. Please provide information on specific cluster services you have implemented or acquired from other service providers to offer to ECCA internationalization services portfolio.

Services	Details

Cooperation Activities

International Cooperation

Our cluster organization undertook the following international activities to support our members:

Internationalization activities of particular cluster can be enhanced within European context (inter-cluster approach) within ECCA. Please provide short information on undertaken international activities on particular markets/countries.

International activities	Markets/countries	Year of implementation (in last three years)

The main countries addressed by the cluster organization through international activities:

Please summarize the data on implemented activities, demonstrated interest showed by cluster members and other market intelligence activities done within the cluster internationalization activities. Please mark the following levels of internationalization interest/level:

- Market research
- High interest
- Planned activities
- On-going internationalization

Markets/countries	Internationalization interest / level

The main countries addressed by the cluster organization through trans-national activities:

This data is about the **EU wide collaboration** which can be a good starting point for inter-cluster internationalization activities. Please add the countries addressed by your cluster.

Countries	Trans-national collaboration interest / level

Our cluster organization undertook the following trans-national activities to support our members:

Collaborative R&D projects, participating in particular EU initiatives are important to be mentioned here. The existing collaboration activities can be enhanced to international, inter-cluster ones. Please stress the trans-national activity which might be of particular importance for ECCA project implementation.

Trans-national activities	Countries	Year of implementation (in last three years)

[Support Programmes](#)

Participation in Funded Support Programmes:

Name & Description (Regional/National)	Link (Regional/National)	Link

Relevant Project References:

Please stress the relevant projects you implemented which might be of high relevance for ECCA implementation.

Project title	Description	Year of implementation (in last three years)

[Promotion](#)

Success Story / Achievements:

Please stress the relevant success stories / impact achieved which might be of high relevance for ECCA implementation.

Project title	Description	Year of implementation (in last three years)

Motivation and expectations for collaboration in ECCA

Please summarize what is your key motivation for collaborating in ECCA partnership and what are the main expectations for outcomes and benefits.

Motivation	
Expectation	

Why partners should choose you for cooperation?

Please summarize e.g. stress the key competences of your clusters (provided above in the survey) in terms of optional collaboration in ECCA alliance and inter-cluster internationalization.

Key competences for internationalization in circular construction	Description

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Part 2: Cluster profile Cluster members` profile

The ECCA internationalization strategy will focus on inter-cluster collaboration within particular circular construction solutions. We plan to map and invite particular clusters and **also their members, SMEs**, to these consortia, and jointly provide close to market or market ready circular construction solutions. In order to proceed a more detailed profiles of key cluster members interested for internationalization are needed. The data acquired within this part of the survey are to be provided by members themselves, assisted with the cluster managers.

General information on member profile:

Name of the member (of SME, large enterprise, other):	
Legal form of organization:	
Year established:	
Number of employees:	
Average annual revenues	

Organization Logo:

Please send us quality logo by email, optionally in high quality or vector format.

Sectoral and Industrial Focus

Please provide list of specializations related to ECCA thematic areas of circular construction, on the level of member of the cluster, which can be globally competitive or implemented in inter-cluster joint circular solutions. These specializations are on higher technology or market readiness levels and related to internationalization objectives and planned activities of particular cluster member.

Thematic area / solution	Description	Market readiness

Options for internationalization

Please provide internationalization options such as market research, promotion, consultancy/training, commercial agreement/export, technology transfer /licensing, joint ventures, foreign investment attraction, collaborative development and exploitation, and other if appropriate.

Thematic area / solution	Internationalization options

Competences for the innovation process

Please provide information on innovation process competences of the cluster members which can be exploited within the inter-cluster consortia:

Innovation process	Competences
Market intelligence	
Research, development	
Technology development and demonstration	
Investment attracting	
Pre-commercial development	
Training	
Technology transfer	
Commercial use of innovation	

Competences in the field of innovation collaboration (open innovation)

Provide specific innovation competences in terms of open innovation, cluster based, and other:

Open innovation	Open innovation competences
Cluster collaboration	

Readiness in terms of strategy, resources, skills for EU wide (meta cluster) collaboration

Reading for EU wide collaboration	Description
Strategy / plans	
Countries addressed/interested	
Resources	
Skills / competences	

Readiness in terms of strategy, resources, skills for internationalization and for global market

Reading for global collaboration / internationalization	Description
Strategy / plans	
Countries addressed/interested	
Resources	
Skills / competences	

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Part 3: Circular construction solution

ECCA builds its internationalization strategy on **European, inter-cluster group/consortium of organizations (SMEs plus supporting organizations) offering particular circular construction solution within the building value chain, with optional collaboration with other industry and service sectors.** Within this section of the survey we plan to outline the first draft of these competitive circular construction solutions. This part is based on the core clusters` competences and strategies (Part 1 of the survey) and particular interest, competences and solutions described by individual cluster members (Part 2 of the survey), optionally as a follow-up of existing inter-cluster development or collaboration.

Cluster managers are invited to activate key cluster members and other partners which might contribute to this survey by electronic means or local workshop if feasible in this Christmas & New Year time.

This third part of the survey has been in simplified version already sent as part of the invitation to 1st ECCA conference, not only to ECCA clusters but also to other interested clusters and stakeholders. For the solutions where critical mass of partners and appropriate market readiness of solutions will be identified, we plan to organize first workshop of inter-cluster consortia on the 1st ECCA Conference in January 2017.

Title

Please provide the title of the solution describing core added value of the circular solution.

Title	
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Summary

Brief summary of the circular solutions, including the description of the market maturity of solution. If available, provide a scheme or others graphical presentation of the solutions and or impacts. This part will be used for promotion of the solution on ECCA web site if agreed by partners.

Summary	
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Partners and industrial sectors involved

Provide the list of key partners participated in the survey, being interested for internationalization of this Circular Construction solution.

Partner	Country	Role

Overview of innovation process implemented

Please briefly describe the innovation process which was (finished activities) or is (on-going project) leading to particular solution.

Innovation process	Description
Market intelligence	
Research, development	
Technology development and demonstration	
Investment attracting	
Pre-commercial development	
Training	
Technology transfer	
Commercial use of innovation	

Circular Economy principles

Please describe how you addressed the main Circular Economy principles in your innovation and/or business activities. Please consult the ECCA deliverable <http://circularconstruction.eu/wp-content/uploads/2016/06/D2.1-Circular-Construction-preliminary-review.pdf> for more information on Circular Economy principles and their implementation in construction.

CE process	Description
Regenerate	
Share	
Optimize	
Loop	
Virtualize	
Exchange	

CE process	Description
...other	

Objectives and results achieved

Provide overview and/or detailed information on objective and actual results achieved in regard the CE principle implementation (resources saved, improved performances of processes, cycling processes with other industries...):

Circular construction	Description
Objectives	
Results	

Graphical and promotional materials and documents

Please provide graphical and other materials for promotion of the solution:

- graphical materials (images, figures, graphs, photos etc....) together with title and tags to be used for web presentation
- documents (articles, booklets, leaflet...) if produced
- links to web pages, social networks.

Integration within building value chains and with related services and industries

Please provide description of optional complementarities with different actors/sectors with construction value chain, including other closely integrated sectors and industries (see the description bellow) involved in building life cycle needed to enhance particular technology, to implement/integrate it in novel building value chains implementing circular economy principles.

Thematic area / solution	Building supply / value chain	Complementarities / competences / value chain integration

The construction value chain includes

- R&D, training and education
- extraction of raw materials,
- manufacturing and distribution of construction products, components, systems
- planning and design,
- engineering and construction,
- management and control of construction works,

- operation, building maintenance
- renovation and demolition,
- CDW management

Besides these core industries or value chain fields construction value chain is strongly integrated with investment/financing industries, real-estate management, building operation and management, production of electrical and HVAC equipment, IKT technologies, utilities (energy, waste, waste water, communication) providers, equipment and machines producers, insurance companies, and supporting services such as standardization bodies.

Integration with other industries and value chains

Please provide description of optional complementarities with other industries, traditionally not linked to the construction value chains to implement improved or novel building value chains implementing circular economy principles.

Thematic area / solution	Industry / sector	Complementarities / competences / value chain integration

Technology / market readiness level of the solution

Please define and describe the technology and market readiness of the solution using TRL notation.

TRL	Description



Technology Readiness Levels

- TRL 0: Idea.** Unproven concept, no testing has been performed.
- TRL 1: Basic research.** Principles postulated and observed but no experimental proof available.
- TRL 2: Technology formulation.** Concept and application have been formulated.
- TRL 3: Applied research.** First laboratory tests completed; proof of concept.
- TRL 4: Small scale prototype** built in a laboratory environment ("ugly" prototype).
- TRL 5: Large scale prototype** tested in intended environment.
- TRL 6: Prototype system** tested in intended environment close to expected performance.
- TRL 7: Demonstration system** operating in operational environment at pre-commercial scale.
- TRL 8: First of a kind commercial system.** Manufacturing issues solved.
- TRL 9: Full commercial application,** technology available for consumers.

Options for exploitation and internationalization

Options / means	Description
International promotion	
Consultancy/training	
Commercial agreement/export	
Joint ventures	
Foreign investment attraction	
Collaborative development and exploitation	
Other	

Contact person (s)

Name	Surname	Position	Telephone	Email	Competences

Other comments and suggestions:

Comments / suggestions	Description

This completes the ECCA survey on clusters` Circular Construction portfolio. Please send the Word (not pdf) version of the survey to vladimir.gumilar@sgg.si. Thank you for your contribution.

ECCA team