D8.3

Database for ICEBERG SIGs communities and relevant projects

Lead beneficiary: LU

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Type of deliverable: R

Dissemination level		
PU	Public	X
PP	Restricted to other programme participants	
RE	Restricted to a group specified by the consortium	
CO	Confidential, only for members of the consortium	

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ICEBERG website: www.iceberg-project.eu

Acronyms

BIM: Building Information Modelling
CAD: Computer-Aided Design
GIS: Geographical Information System
IoT: Internet of Things
R&D: Research and Development
RFID: Radio frequency identification
SIG: Special Interest Group
WP: Workpackage

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1. Introduction

ICEBERG project aims to develop and demonstrate novel cost-effective circular smart solutions for an upgraded recovery of secondary building raw materials along the entire circular value chain: from EBM to new building products prepared for circularity, resource-efficiency and containing 30wt% to 100wt% of high-purity (>92%) recycled content. The dissemination activities should spread the public results of the project to the relevant stakeholders that are interested and might benefit from the information. The abundant and diverse nature of outputs generated throughout the life of the project calls for an optimised dissemination approach that targets specific groups of interest depending on the information shared. To maximise the impact of the dissemination campaign, the ICEBERG consortium has identified special interest groups (SIG), to tailor our message.

Task 8.2 “Identification and involvement of stakeholders and end-users” has started at M01 and ends with the completion of the project. This deliverable provides an overview of the stakeholder database at M06, in which the ICEBERG SIG has been set up with 120 members. Notice that the SIG will be monitored and enriched over the project’s life.

2. Special Interest Groups

At the beginning of the project, we identified several stakeholder groups interested in ICEBERG. These are professionals and general public that wanted to receive updates on progress, learn about the knowledge generated, collaborate in the public activities, implement some of the practices addressed and participate in the exploitation actions or further development beyond the boundaries of the project.

Several groups were proposed to facilitate collection of relevant contact information assessment of engagement metrics and tailor the information shared. Every member of the consortium was asked to provide the contact details that would be part of our stakeholders’ groups.

The database only contains professional information, together with nationality and group category for later monitoring and analysis. No sensitive personal data (gender, age, economic level, etc.) was requested.

A detailed list of organisations identified can be found in Annex I of the present Deliverable. Data about contact detail, position and e-mail has not been included in order to comply with the General Data Protection Regulation (GDPR).

This section includes a short description of the groups and their connection with ICEBERG activities at WP and task level.

2.1. Demolition companies and associations

Description of the group

The demolition sector in Europe is made of a huge variety of companies, from large organisations to small enterprises. Their respective annual turnover in demolition activities ranges from over 300€ million (Keltbray, UK) to only a few thousand euros. The most common activities are classified as demolition works in urban environment (36%) and all other types of demolition (34%). The rest of stakeholders includes specialised companies focused on industrial environment, waste management or other complementary activities.

Demolition companies may consider their key role in the implementation of circular economy in construction. They record and report the waste types and quantities at project and work stages. Traceability is performed with paper or electronic datasheets. Most companies lack technical capabilities for environmental assessment. Workers in these organisatons may use basic CAD software to draw and visualise building floors and worksite layout. The use of more recent digital solutions (BIM, GIS, etc.) is limited to a few large projects (>2€ million) managed by big contractors.

The European Demolition Association (EDA) is the leading platform for national demolition associations, demolition contractors and suppliers. The EDA has a strong focus on developments in Europe, which are of interest for the demolition industry. It also collaborates on European standards on demolition techniques and promotes recycling of demolition debris. The EDA provides an efficient communication channel to spread new technologies, working methods and training related to demolition, decontamination and waste management.

Interest and links with Iceberg activities

Demolition companies will likely be interested on activities and results in WP1 “Smart tools for refurbishment/demolition planning and digital traceability”. Some stakeholders have highlighted their slow uptake of new solutions. The assessment of the economic, social and environmental impacts performed in WP4 “Circular case studies” and WP5 “Health, environmental and economic assessment” are instrumental in convincing and promoting adoptions in the sector.

2.2. Construction and refurbishment companies and assoc.

Description of the group

It comprises a wide range of activities involving plans, design, constructs, alteration, maintains, repairs and eventually demolishes of buildings (these last works are considered in the previous group). Related professionals include designers, architects, engineers, site managers, forepersons, masons and many other construction guilds.

The industry is divided into three categories terms of works:

- Building Construction – Including construction of residential, farm, industrial, commercial, or other buildings.
- Infrastructure Construction – Heavy construction such as highways and roads, bridges, sewers, railways, irrigation projects, flood control projects and marine construction.
- Special Trade Construction – This includes projects such as electrical work, plumbing, fittings, paintings etc.

The first and the last categories represent the main interested stakeholders for ICEBERG dissemination purposes.

Construction activity has a number of specific characteristics that differentiate them from other areas of the economy:

- the final product in construction – a building - tends to be a non-transportable good, as well as being one of the most durable products.
- singularity is another relevant characteristic, as many construction projects are one-off designs.
- the time scale from conception to completion is typically longer than in many other sectors and may run to several years.

Much of the recent thinking on circular economy has been on short- and medium-lived consumer products. There is limited knowledge and wide-scale practical applications of circular economy in the modern building environment at the product and the component level.

Interest and links with Iceberg activities

The main concerns of this sector to the uptake of circular economy actions have been reported by several organisations[1]:

- Price competition with virgin alternatives
- Confidence in quality and structural properties of secondary materials (traceability) and absence of hazardous substances
- Lack of sufficient and reliable data on old buildings

ICEBERG contributions to these topics will be generated from the research (WP1, 2 and 3), demonstration (WP4), LCA (WP5), standardization and policy recommendation (WP6) and exploitation (WP7) activities, so the engagement of this SIG along the full life of the project is expected.

[1] EEA - Construction and demolition waste: challenges and opportunities in a circular economy. https://www.eea.europa.eu/themes/waste/waste-management/construction-and-demolition-waste-challenges Accesed on 21 Nov 2020.

2.3. CDW managers and recyclers

Description of the group

Recycling and management of CDW by plants is a reasonable alternative to unsustainable disposal methods (i.e., landfilling). In some European regions, where resources for concrete are scarce, recycling of C&DW was first introduced in early 1970s.

Fixed plants include technology for manual or automatic sorting and classifying systems, crushers and sieves, which maximise material recovery and maximise the removal of the various contaminants that will otherwise restrict the final destination for the recycled materials – mainly recycled aggregates.

Mobile plants are also authorised in several EU state members for in-situ recycling of clean materials – mainly structural concrete or inert stony fractions.

Interest and links with Iceberg activities

CDW managers may be interested in all the traceability aspects considered in WP1 and the sorting and recycling technologies developed and upscaled in WP2.

2.4. Building products manufacturers

Description of the group

According to the regulations, Art. 15 of Law 38/1999 of 5 November, manufacturers of construction products are included in the group of suppliers of construction products.

They are responsible for the manufacture of construction products, understanding as construction product any product or kit that is permanently incorporated into construction works (or parts thereof) and whose performance influences the basic requirements of the works in accordance with the definition included in the European Construction Products Regulation 305/2011 (CPR). Therefore, it does not include products that are manufactured for temporary incorporation into a construction site, such as scaffolding, props, formwork, etc.

Construction product manufacturers and contractors rely heavily on standards, which enable them to respond to both market and regulatory needs.

The CPR establishes harmonised standards for the marketing of construction products in the EU. The Regulation provides a common technical language for assessing the performance of construction products. It ensures that professionals, public authorities and consumers have reliable information to compare the performance of products from different manufacturers in different countries. However, in recent years the integration of standards into the regulatory system has often failed and has led to reduced efficiency in the construction sector and damage to the internal market. Updated rules are therefore needed to maintain a well-functioning European regulatory framework and to pursue the objectives of the EU Green Deal as well as the European ambitions of a circular economy.

In this context, the European Builders Confederation (EBC), the European Construction Industry Federation (FIEC), Construction Products Europe and Small Business Standards (SBS) ask to the European Commission (EC) to[2]

- Provide a flexible approach to the development of harmonised product standards, allowing industry to present technical solutions that meet their needs, while satisfying regulations;
- Streamline the development of standardisation requests, ensuring both speed and transparency;
- Launch joint actions between the European Standardisation Organisations and the EC to eliminate the delay in the publication of harmonised product standards in the Official Journal of the European Union.

Interest and links with Iceberg activities

Product manufacturers may be interested in the ecodesign and manufacturing of Iceberg products (WP3), reversible, recyclable and with high amounts of recycled materials.

2.5. Recycling and processing technology developers

Description of the group

Recycling and processing technology developers are companies that offer technologies for the recycling of CDW. Recycling and processing technology largely enables better sorting of waste; basic techniques such as mechanical sorting, screening and breaking, as well as high-tech solutions such as automated sorting based on image processing, remote sensor (LIBS, XRF, NIR…) or even robots. This improves the recyclability of the CDW fractions and thus the potential to achieve recovery targets.

Interest and links with Iceberg activities

Technology developers will receive a real picture of the necessities and available solutions for sorting, recycling and purifying building materials. The results of WP2 will specifically deal with these subjects.

2.6. ICT enabling technology developers

Description of the group

Contributions of ICTs has become an important driver in handling the issues associated with increasing solid waste management, which in turn has urged the need for the automation of waste data acquisition, identification, communication, storage, and analysis.

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[2] https://www.construction-products.eu/publications/publications/future-standardisation-system-within-cpr

Several advanced "smart" technologies have emerged over the last decades, such as radio frequency identification (RFID) tags, optical character recognition, 3D laser scanning, building information modelling (BIM), 3D computer-aided design (CAD), etc. In this context, developers of ICT-enabled technologies are importarnt in the C&DW sector to integrate the embryonic digital technologies such as BIM (Building Information Modelling), Big data, GIS, GPS, Blockchain, remote sensing, IoT and RFID technologies into CDW management.

Progress in the development of platforms that include data from these technologies will enable more reliable and compatible data on waste estimation that could provide suitable development directions for benchmarking CDW in the future.

Interest and links with Iceberg activities

The progressive digitalization of the construction sector is opening some opportunities for these companies. ICT related aspects can be found in all the activities from WP1.

2.7. Public administrations

Description of the group

Public administration is categorized at different levels: local, regional, national and European. In the EU, local authorities are the largest public administration. They performs a political/regulatory/planning role which is essential for the successful C&D waste management.

The key areas for public action are:

- Adequate regulatory framework
- Implementation of regulations
- Appropriate public procurement and incentives
- Awareness, public perception and acceptance.

Interest and links with Iceberg activities

Public bodies need a real view of the available solutions for processing CDW (WP2). Also the options for obtaining the information a traceability issues related to this sector (WP1) and the acceptable uses of the recovered materials in high value applications (WP3). Non-technical activities will be also sopecually relevant for them (social awareness, social attitudes, policies and standards, WP6)

2.8. Vocational training schools

Description of the group

Vocational education and training (VET) can play a crucial role in tackling many of the most pressing challenges that Europe is faced with today, such as competitiveness, youth unemployment and social inclusion.

The VET focus on construction sector and in particular in the building demolition, waste management and circular product development represent the main interested stakeholders for Iceberg dissemination purposes.

Interest and links with Iceberg activities

Specific teaching materials will be specifically prepared from all the technical and non technical results of Iceberg. This information should be addecuately elaborated from the deliverables of all WP, in order to boost the awareness and training of future professionals.

2.9. Citizens, general public and society

Interest and links with Iceberg activities

General public concern for environment, circularity and sustainability is growing. These people will find accessible messages about the Iceberg progress through the e-newsletter, where the results are presented in a non-scientific language.

2.10. Universities

Description of the group

Most universities have a structure that includes academic departments dedicated to a specific academic/research discipline.

For ICEBERG dissemination activities, this group of university departments focus on research activities related to the circular economy in the construction sector, mainly CDW management and eco-design of construction products.

Interest and links with Iceberg activities

Iceberg is linked with many scientific areas (materials, construction, processing, data analsyis, sensors, etc.) in which many university departments are researching. Also the students could find updated information about the construction challenges and best practices. In addition, 6 PhD thesis are expected in the framework of this project.

2.11. RTOs

Description of the group

Research and Technology Organisations assist in the supporst of local industry. Although the definition of Research and Technology Organisations (RTOs) vary, reflecting RTOs institutional statutes, governance, business models, funding models and resources, the public missions and industrial support objectives of RTOs seem to be aligned. It has been estimated that RTOs across Europe have revenues of €18.5-23 billion with a wider economic impact of up to €40 billion.

Interest and links with Iceberg activities

Several RTO are exploring similar and alternative approaches to improve circularity of building materials. Iceberg consortium includes some of the most competitive in this field. In general, the adquired knowledge will be used to develop new R&D ideas and to transfer the results to the industrial companies.

2.12. Other EU /international projects and initiatives

Description of the group

This group involve the research & innovation projects and initiatives relevant to the circular economy in construction. A non-exhaustive list is provided in section 3.

Interest and links with Iceberg activities

Networking is a powerfull tool to receive fresh opinions and new perspective from other experts. Public information from all WP will be shared with other European and national projects in workshops, meetings and other media.

2.13. Other entities

Description of the group

This group included any other entities close related with the Iceberg interests. In particular, it has been observed some opportunities to replicate some of the Iceberg solutions in other sectors, such us mining (automatic characterisation and sorting technologies), composites industry (recycling, traceability) and specific activities inside building industry (asbestos identification and removal). The presentation of Iceberg results in generic waste management conferences will ensure the dissemination of the solutions to these other sectors.

3. Contacts database

The structure of the ICEBERG contacts database was agreed in WP8 meetings. It intends to collect basic contact information (email) together with the type of company and geographical location (at member state level) for later analysis. First contributions were received from partners in M02.


STAKEHOLDERS FOR ICEBERG PROJECT

Name	Surname	Email*	Position	Organization / Entity name	Country*	Type of organization*

Figure 1. Fields of ICEBERG contacts database.

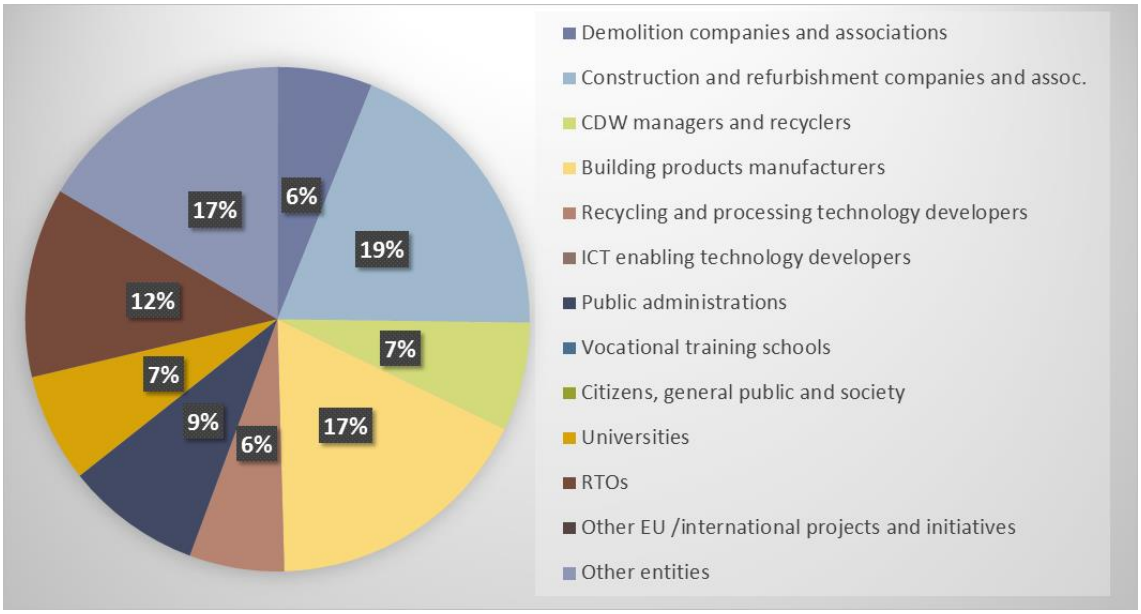

Figure 2. Composition of the ICEBERG contacts database at month 6.

4. Related project and other actions

4.1. EU R&I projects

The ICEBERG partners have undertaken a review of CE projects using CORDIS database and main keywords (demolition, C&DW, BIM, circular economy in construction) to find related projects. Representatives of such projects, networks and action groups will be contacted to share experiences and foster joint initiatives. The list of these projects and stakeholders will be updated during the project.

Table 1. Related projects

Acronym	*Title*	*StartD*	*EndD*	*Website*
CityLoops	Closing the loop for urban material flows	01/10/19	30/09/23	https://cityloops.eu/
WOOL2LOOP	Mineral wool waste back to loop with advanced sorting, pre-treatment, and alkali activation	01/06/19	30/11/22	https://www.wool2loop.eu/
CINDERELA	New Circular Economy Business Model for More Sustainable Urban Construction	01/06/18	31/05/22	https://www.cinderela.eu/
InnoWEE	Innovative pre-fabricated components including different waste construction materials reducing building energy and minimising environmental impacts	01/10/16	30/09/20	https://innowee.eu/
RE4	REuse and REcycling of CDW materials and structures in energy efficient pREfabricated elements for building REfurbishment and construction	01/09/16	29/02/20	http://www.re4.eu/
VEEP	Cost-Effective Recycling of CDW in High Added Value Energy Efficient Prefabricated Concrete Components for Massive Retrofitting of our Built Environment	01/10/16	31/03/21	http://www.veep-project.eu/
BIM2TWIN	BIM2TWIN: Optimal Construction Management & Production Control	01/11/20	30/04/24	https://cordis.europa.eu/project/id/958398/

CBIM	Cloud-based Building Information Modelling	01/03/20	29/02/24	https://cbim2020.net.technion.ac.il/
PLEIADES	PLatform based on Emerging and Interoperable Applications for enhanced Decommissioning processES	01/10/20	30/09/23	http://pleiades-platform.eu/
POSIDON	POlluted SIte DecontaminatiON - PCP	01/02/18	30/11/22	https://www.posidonproject.eu/
BAMB	Buildings as Material Banks: Integrating Materials Passports with Reversible Building Design to Optimise Circular Industrial Value Chains	01/09/15	28/02/19	https://www.bamb2020.eu/
FISSAC	Fostering industrial symbiosis for a sustainable resource intensive industry across the extended construction value chain	01/09/15	29/02/20	http://fissacproject.eu/
HISER	Holistic Innovative Solutions for an Efficient Recycling and Recovery of Valuable Raw Materials from Complex Construction and Demolition Waste	01/02/15	31/01/19	http://www.hiserproject.eu/
BASAJAUN	Building A SustainAble Joint between rurAl and UrbaN Areas Through Circular And Innovative Wood Construction Value Chains	01/10/19	30/09/23	https://basajaun-horizon.eu/
DigitalDeConstruction (Interreg)	Advanced Digital Solutions Supporting Reuse and High-Quality Recycling of Building Materials	01/10/19	30/09/23	https://www.nweurope.eu/projects/project-search/digital-deconstruction/

CONDEREFF (Interreg)	Construction & Demolition Waste Management Policies for Improved Resource Efficiency	01/06/18	31/05/23	https://www.interregeurope.eu/condereff/
FCRBE (Interreg)	Facilitating the Circulation of Reclaimed Building Elements	01/01/21	31/12/24	https://www.nweurope.eu/projects/project-search/fcrbe-facilitating-the-circulation-of-reclaimed-building-elements-in-northwestern-europe/

Annex I. Database of contacts

Organisation	*Country*	*SIG category*
Vienna University of Technology	Austria	Universities
Marlux	Belgium	Building products manufacturers
Besix	Belgium	Construction and refurbishment companies and assoc.
BMbeton	Belgium	Other entities
NV Betonagglomeraten Gubbels	Belgium	Building products manufacturers
Cleantech Flanders	Belgium	RTOs
Lhoist Europe	Belgium	Building products manufacturers
Vandersanden Group	Belgium	Building products manufacturers
Belgian Building Research Institute	Belgium	RTOs
Director of Recycling Assistance BVBA	Belgium	Demolition companies and associations
Act and Sorb	Belgium	Other entities
Strabag	Belgium	Construction and refurbishment companies and assoc.
Ugent	Belgium	Universities
Prefer	Belgium	Building products manufacturers
Eurogypsum	Belgium	Construction and refurbishment companies and assoc.
Vlaanderen Circulair/Ovam	Belgium	RTOs
RCA	Belgium	Other entities
European Demolition Association	EU	Demolition companies and associations
Puro Earth	Finland	RTOs
ZenRobotics Ltd	Finland	Recycling and processing technology developers
LafargeHolcim	France	Construction and refurbishment companies and assoc.
Récylum	France	CDW managers and recyclers
Etex Building Performance International	France	Building products manufacturers

Institut für Angewandte Bauforschung	Germany	RTOs
Kalksandsteinwerke Schencking	Germany	Building products manufacturers
Dillinger	Germany	Recycling and processing technology developers
EF Holding	Germany	Recycling and processing technology developers
BAM Federal Institute for Materials Research and Testing	Germany	RTOs
Hong Kong Polytechnic University	Hong Kong	Universities
Clean-Way Ltd	Hungary	CDW managers and recyclers
ANPAR (National Association of Recycled Aggregates Producers)	Italy	CDW managers and recyclers
University Parthenope of Naples - Department of Engineering	Italy	Universities
Slovenian National Building and Civil Engineering Institute	Slovenia	RTOs
LKS Ingeniería	Spain	Other entities
Ihobe, Basque Environmental Agency	Spain	Public administrations
Ayuntamiento de Durango	Spain	Public administrations
Gescrap S.L.U	Spain	Other entities
Idom Consulting, Engineering, Arch, S.A	Spain	Recycling and processing technology developers
Fundación GAIKER	Spain	RTOs
Eptisa-Cinsa Ingeniería y Calidad, S.A	Spain	Construction and refurbishment companies and assoc.
SPRILUR-Gobierno Vasco	Spain	Public administrations
Tecnalia	Spain	RTOs
Acciona	Spain	Construction and refurbishment companies and assoc.
Bilbao Metrópoli 30	Spain	Other entities
BIURRARENA	Spain	Recycling and processing technology developers
Colegio Oficial de Ingenieros industriales de Bizkaia	Spain	Other entities
ADIF	Spain	Public administrations

Ingeniería y demoliciones s.l.	Spain	Demolition companies and associations
Acciona	Spain	Construction and refurbishment companies and assoc.
Prefabricados Etxebarria	Spain	Building products manufacturers
Eraikune	Spain	Construction and refurbishment companies and assoc.
González-Cavia Arquitectos	Spain	
Zicla	Spain	Other entities
Eraikune	Spain	Construction and refurbishment companies and assoc.
Prefabricados Alberdi	Spain	Building products manufacturers
Prefabricados Alberdi	Spain	Building products manufacturers
Consejo Superior de Colegios de Arquitectos de España	Spain	Other entities
Dirección de Vivienda-Gobierno Vasco	Spain	Public administrations
Ihobe, Basque Environmental Agency	Spain	Public administrations
AEDED	Spain	Demolition companies and associations
AEDEP | Asociación Española de empresas de PYL, falsos techos y aislamientos	Spain	Building products manufacturers
LEZAMA DEMOLICIONES	Spain	Demolition companies and associations
Tecnalia	Spain	RTOs
Derribos Petralanda	Spain	Demolition companies and associations
ASCOBI	Spain	Construction and refurbishment companies and assoc.
APPREUS	Spain	CDW managers and recyclers
AUTORIDAD PORTUARIA DE BILBAO	Spain	Public administrations
Sener Ingeniería y Sistemas, S.A.	Spain	Recycling and processing technology developers
Construcciones Viuda de Sáinz	Spain	Construction and refurbishment companies and assoc.
University of the Basque Country	Spain	Universities

UNECA	Spain	Construction and refurbishment companies and assoc.
Construcciones Altuna y Uría	Spain	Construction and refurbishment companies and assoc.
Asfaltia, S.L.	Spain	Building products manufacturers
ACLIMA	Spain	Other entities
Cluster Reciclado Gipuzkoa	Spain	Other entities
Valorización y Logística Ambiental, S.L.	Spain	Other entities
Valorización y Logística Ambiental, S.L.	Spain	Other entities
Volbas, S.A.	Spain	CDW managers and recyclers
UDALSAREA 2030	Spain	Public administrations
Colegio oficial de Arquitectos Vasco Navarro	Spain	Other entities
Construcciones Jauregizar	Spain	Construction and refurbishment companies and assoc.
Oneka Arkitektura	Spain	Construction and refurbishment companies and assoc.
ASCONGI	Spain	Construction and refurbishment companies and assoc.
Construcciones Fhimasa	Spain	Construction and refurbishment companies and assoc.
Universidad del País Vasco-Escuela de Arquitectura	Spain	Universities
ASEGRE	Spain	Other entities
Colegio Oficial de Ingenieros Técnicos	Spain	Other entities
Federación Española de RCD	Spain	CDW managers and recyclers
ADIP	Spain	Construction and refurbishment companies and assoc.
ARIDOS Y HORMIGONES RECICLADOS DEL NORTE	Spain	Recycling and processing technology developers
Prefabricados Vascos	Spain	Building products manufacturers
Calduran	The Netherlands	Building products manufacturers
Twence	The Netherlands	CDW managers and recyclers

Ministry of Environment and Urbanisation, General Directorate of Infrastructure & Urban Transformation Services	Turkey	Other entities
Association of Turkish Construction Material Producers	Turkey	Building products manufacturers
Ministry of Environment and Urbanisation, General Directorate of Infrastructure & Urban Transformation Services	Turkey	Other entities
Ekodenge A.S.	Turkey	RTOs
Bastas Cement (Vicat Group Turkey)	Turkey	Building products manufacturers
Ekodenge	Turkey	Other entities
Association of Turkish Construction Material Producers	Turkey	Building products manufacturers
Bastas Cement (Vicat Group Turkey)	Turkey	Building products manufacturers
Environmental Friendly Green Building Association	Turkey	
Association of Turkish Construction Material Producers	Turkey	Building products manufacturers
Pendik Municipality	Turkey	Public administrations
Pendik Municipality	Turkey	Public administrations
Ekodenge/EcoWise	Turkey/UK	RTOs
Gypsum Products Development Association	UK	Construction and refurbishment companies and assoc.
Etex Building Performance Limited	UK	Building products manufacturers
Builiding Reseatch Establishment	UK	RTOs
National Federation of Demolition Contractors	UK	Demolition companies and associations
Aggregate Industries	UK	Construction and refurbishment companies and assoc.
Mineral Products Association	UK	Construction and refurbishment companies and assoc.
EcoWise	UK	RTOs
Plasterboard Sustainability Partnership (PSP)	UK	Construction and refurbishment companies and assoc.