Activating Circular Services in the Electric and Electronic Sector

GA NUMBER: 776714

Deliverable 8.1. List of stakeholders and projects

Acronym: **C-SERVEES**

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Disclaimer

The mapping and screening of the projects, initiatives and events are performed exclusively for the purpose of the C-SERVEES Consortium, applying filters designed for the objectives of the project. The resulting lists do not indicate any ranking or classification that could be interpreted as a qualification of these items' performance or a disqualification of their relevancy in general.

1. Executive Summary

Within Work Package 8 – Communication and dissemination of results, Task 8.1 is aimed at identifying relevant stakeholders that will benefit from the project results and can contribute to the different work packages. They will mostly be associated with the EEE, WEEE and preparing for re-use and recycling industries, and will be working across the EU as part of a network of producer compliance schemes, recyclers, producers, repair and remanufacturing organisations. This group is extended with policy makers and organisations that have a keen interest in policies that promote circular economy and creation of jobs. The project can have an impact on other stakeholders such as the hotel industry, mass events industry, network operators, resellers, other large end-users and consumer organisations. For this reason, these are also included in this mapping exercise.

WEEE FORUM leads this task, encouraging all project partners to identify stakeholders and creating a dynamic project network categorised into Special Interest Groups (SIGs). The C-SERVEES consortium is to inform SIGs about project activities and to encourage them to contribute actively to the project. This network of SIGs will serve as a KPI of the communication and dissemination activities of the project. Regular analysis of the network composition will help to plan communication activities to achieve a good representation of all types of stakeholders.

Project partners, led by WEEE FORUM, identified a first pool of 114 potential items: 46 projects (43 of them EU-funded), 35 initiatives related to C-SERVEES' scope and ambition and 33 events. A mapping exercise to select only the relevant projects, initiatives and events was carried out. Representatives of such projects and initiatives will be invited to participate in C-SERVEES events and share experiences.

The list of these items will be updated through the whole duration of the project and made available on the project public website.

Furthermore, an Advisory Board with representatives of all stakeholder groups was created to provide baseline information and feedback on the project progresses. This group of 19 experts is chaired by WEEE FORUM and cochaired by SAT. A first meeting was held on 10 September 2018 to introduce the project and the activities of the Advisory Board to its members.

The data collected in this task will be maintained and updated after month 6 and until the end of the project. Updates will be provided in the official progress reports delivered in M18, M30 and M42.

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2. Acronyms and abbreviations

AB	Advisory Board
CEBMs	Circular Economic Business Model
EEE	Electronic and electrical equipment
GDPR	General Data Protection Regulation
WEEE	Waste of electronic and electrical equipment
WP	Work Package
WPL	Work Package Leader

3. Introduction

C-SERVEES project is collecting feedback from experts in the EEE value chain in some WPs such as WP1, WP2 or WP4. For this reason, during the first months of the project, members of the consortium were asked to identify the types of stakeholders that may be interested in the C-SERVEES project, either as contributors, as target audience in dissemination and communication activities or as members of the Advisory Board (AB). Additionally, initiatives on circular economy were identified as this may help build synergies with C-SERVEES.

Input from projects may also be relevant for WPs such as WP1, in which a selection of literature about circular economy was conducted in order to complement the WP Leaders' requirements (Actions A1.1.1 and A1.1.2).

4. Mapping of projects, events and initiatives

4.1 Mapping exercise

Members of the consortium provided feedback and prepared a preliminary list of projects, events and initiatives. An initial list of 114 items was produced as a result of this exercise (see Annex 1).
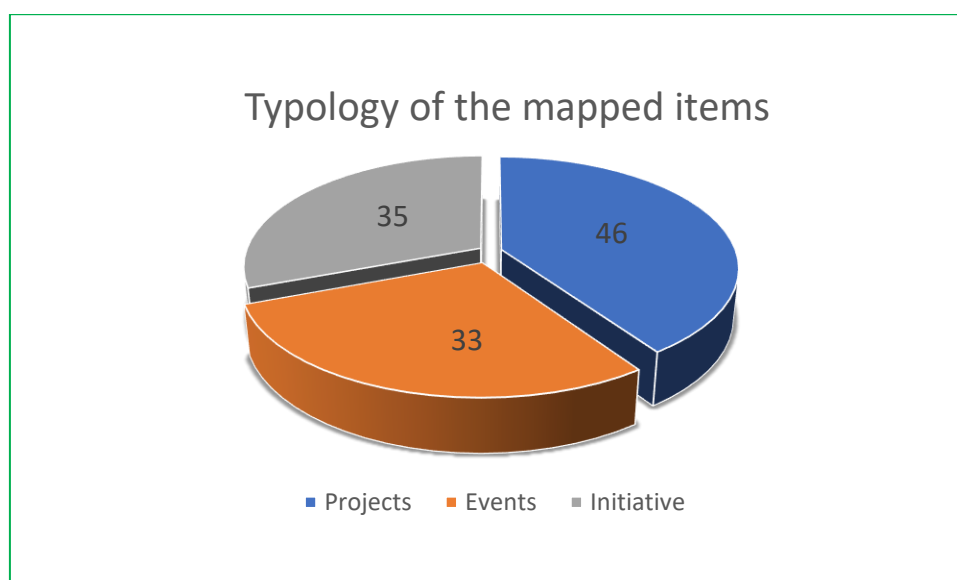

Figure 4.1.a. Typology of the items analysed during the mapping exercise (September 2018)

A list of questions was compiled in an on-line form[1] to help task partners collect relevant information on the projects, initiatives and events listed.

Some pre-requisites were agreed with task partners in order to improve the quality of the mapping exercise:

- Pre-requisites for mapped projects were:
  - EU and non-EU funded projects dealing with topics relevant for C-SERVEES
  - Must be on-going projects (if only relevant for dissemination purposes)

- Pre-requisites for mapped events:
  - Must deal with topics relevant for dissemination of C-SERVEES results, or
  - Must be relevant for hosting a C-SERVEES workshop (e.g. WP1 workshop), and
  - Must take place between 2018 and May 2022

- Pre-requisites for mapped initiatives:
  - Must deal with topics relevant for C-SERVEES

4.2 Results of Mapping exercise

4.2.1 Projects

The most relevant projects identified appear in Table 4.2.a. These obtained a score ≥4 to the question ´´P5. *Please, specify the relevance of the project for C-SERVEES* ´´ of the survey (see complete list in Annex 1)

The list of projects and related links will be added to the website of the C-SERVEES project.

Table 4.2.a. Most relevant PROJECTS for C-SERVEES

Full name of the PROJECT	Short name	Website
Demonstration of a re-use process of WEEE addressed to propose regulatory policies in accordance to EU law	EcoRAEE	http://www.life-ecoraee.eu/en/
Life-Cycle Inventories (LCI) Database on WEEE management		http://weee-lci.eco-systemes.com
NewInnoNet		http://www.newinnonet.eu/
Slovenia WEEE campaign project		http://life.zeos.si/en/about-project/objective-and-purpose-of-the-project.html
Cities cooperating FOR Circular Economy	FORCE	http://www.ce-force.eu/

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[1] https://drive.google.com/open?id=1JJfP4Q7otcGT7Qymzm7X_UizAaZtncRQ4lGPCeTw-Ik.

Full name of the PROJECT	Short name	Website
Customer-driven design of product-services and production networks to adapt to regional market requirements	ProRegio	http://www.h2020-proregio.eu/
Development and demonstration of Waste Electrical and Electronic Equipment (WEEE) prevention and reuse paradigms	ReWEEE	https://www.reweee.gr/en
Sustainable Smart Mobile Devices Lifecycles through Advanced Re-design, Reliability, and Re-use and Remanufacturing Technologies	sustainablySMART	https://www.sustainably-smart.eu/
Circular Economy applied to LI-ION batteries for smart electric mobility in cities	CELION	https://cordis.europa.eu/project/rcn/213324_en.html
New approaches for the valorisation of urban bulky waste into high added value recycled products	URBANREC	http://www.urbanrec-project.eu
Implementing a new circular economy model for composite products in automotive, furniture and building sectors with high potential for cross-sectorial replicability and transferability	ECOBULK	http://www.ecobulk.eu
Integrated solutions for EEE pre-processing, closing the loop of post-consumer high-grade plastics, and recovery of critical materials	CLOSEWEEE	http://closeweee.eu
Product Remanufacturing Service System - overcome the asymmetric distribution of information in the End of Life recovery of products by connecting OEMs and subcontractors, with a special emphasis on remanufacturing.	PREMANUS	http://www.premanus-project.eu
Measuring the IMPACTS of the transition to the CIRCULAR economy	CIRCULAR IMPACTS	https://circular-impacts.eu/about
Recovery of Rare Earth Elements from magnetic waste in the WEEE recycling industry and tailings from the iron ore industry	REECOVER	https://cordis.europa.eu/result/rcn/202427_en.html

4.2.2 Initiatives

The most relevant initiatives selected appear in Table 4.2.b These obtained a score ≥4 to the question ´´I5. *Please, specify the relevance of the initiative for C-SERVEES´´*

Table 4.2.b. Most relevant INITIATIVES for C-SERVEES

Full name of the INITIATIVE	Website
Electrical and Electronic Equipment Sustainability Action Plan 2025	http://www.wrap.org.uk/sustainable-electricals/esap#theme-four
Circular Economy Coalition for Europe, CEC4EUROPE	http://www.cec4europe.eu/
ECOS Standard	http://ecostandard.org/
International Electronics Manufacturing Initiative (Inemi)	http://www.inemi.org/about-us
Sharing knowledge of WEEE initiatives	http://www.weeeshare.eu/

Full name of the INITIATIVE	Website
The United Kingdom cartridge remanufacturers association (UKCRA)	http://www.ukcra.com/index.html
European Toner and Inkjet Remanufacturers Association (ETIRA)	http://www.etira.org/
Ellen MacArthur Foundation	https://www.ellenmacarthurfoundation.org/
Circular Society	https://www.circularsociety.eu
European Investment Bank	http://www.eib.org/projects/initiatives/circular-economy/index
International Solid Waste Association	https://www.iswa.org
Plastics Recyclers Europe	https://www.plasticsrecyclers.eu
European Electronics Recyclers Association	https://www.eera-recyclers.com/
The Product-Life Institute	http://www.product-life.org/
RREUSE	http://www.rreuse.org/about-us/
Assessing the Circular Economy Potential of EU Product Policy	http://www.eunomia.co.uk/assessing-the-circular-economy-potential-of-eu-product-policy/

4.2.3 Events

A list of events relevant for C-SERVEES was also compiled (see Annex 2). This list will provide feedback to WP8 and the dissemination and communication strategy. Attendance to these events will be discussed at the progress meetings held regularly by the project consortium.

5. List of stakeholders

Several meetings were held with the consortium that allowed mapping the types of stakeholders that will be relevant for C-SERVEES. The final list of sectors targeted is:

- Industrial design and engineering
- EEE manufacturing sector
- Retail sector
- Suppliers to the EEE manufacturing sector
- Transportation and/or reverse logistics
- Traceability and SMART monitoring solutions
- Primary raw material sector
- Secondary raw material sector
- E-waste management sector (collection, treatment, EPRs)
- Re-manufacturing / re-use sector
- Policy makers and regulatory bodies
- Economic and financial sector
- IT technology / Blockchain
- Venture Capital/Cryptocurrency,
- Academia

- NGO/Media/Consultancy
- Standards organisation (e.g. CENELEC, EPEAT)
- Consumer organization
- Users and wider public
- Other

A schema showing the result of the scanning appears in Annex 3.

A registration form was prepared and posted on the website of the project[2]. The form is compliant with the Regulation on General Data Protection[3]. All consortium partners were encouraged to send invites for registration to their networks. Registrants will receive regular communications with project updates and invites for participating in surveys, workshops and related events. Currently the number of registrants is 30. Regular updates on this figure are provided to consortium members and discussed at project meetings in order to monitor progress.

6. Advisory Board

6.1. Criteria

In order to create the Advisory Board, it was agreed that several invites would be sent to specific experts in the following fields:

- 15 persons from producers/retailers
- 5 persons from recyclers
- 5 persons from universities and research centers
- 5 persons from associations

The aim was to finally have 7-8 persons from producers/retailers, 2-3 recyclers, 4 academics and 4 lobbyists (association representatives) on board. Finally, 19 members accepted to join the AB.

A document with terms of reference was prepared and appears in Annex 4.

6.1.1. Members of the Advisory Board

The members of the Advisory Board are experts from the following organisations:

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[2] https://docs.google.com/forms/d/e/1FAIpQLScu4Z8eTUcENAVN9Uq9y45DISDUGYll6_7I_iTDs-6J8osnhA/viewform?embedded=true

[3] General Data Protection Regulation 2016/679

Table 6.1.a. Final list of members of the C-SERVEES Advisory Board

Organisation	Type of organisation	Region
Relight/TREEE	WEEE treatment	EU
Umicore	WEEE treatment	EU
University of Limerick	Academia	EU
thinkstep	Academia	EU
ANARPLA (Spanish Plastic Recyclers Association)	Secondary raw materials	ES
iNEMI (International Electronics Manufacturing Initiative)	EEE Manufacturer	out EU
Siemens	EEE Manufacturer	EU
CECIMO (European machine tool industries)	EEE Manufacturer	EU
CDC RAEE	WEEE Clearing House	EU
RREUSE	WEEE re-use	EU
EIT RawMaterials	Academia	EU
Panasonic	EEE Manufacturer	out EU
Green Electronics Council	Standards	USA
Hitachi	EEE Manufacturer	out EU
Nokia	EEE Manufacturer	EU
Centre for Sustainable Design, University for the Creative Arts	Academia	EU
University of Northampton	Academia	UK
Toshiba	EEE Manufacturer	out EU
APPLiA (former CECED, European Committee of Domestic Equipment Manufacturers)	EEE Manufacturer	EU

Due to GDPR rules, the names and other personal data of the members of the AB have been omitted. At the time of writing D8.1, AB members had been requested to acknowledge the Terms of reference that in turn refer to a consent form. Once the consent form is signed by the AB members, specific authorized information about the experts will be posted on the project website.

A first conference call with the AB was held on 10 September 2018. The minutes of the call were shared within the Consortium. It is agreed that a specific section on the AB will be added to the C-SERVEES project website.

Annex 1. Preliminary list of projects, initiatives and events

ID	Full name	Acronym (if any)	Projects	Events	Initiative	URL
1	An Integrated Collaborative Platform for Managing the Product-Service Engineering Lifecycle	ICP4Life	x			http://www.icp4life.eu/
2	Banca INTESA SANPAOLO				x	http://www.world.intesasanpaolo.com/the-circular-economy-lessons-from-a-round-the-world-record-breaker/
3	Circle economy				x	https://www.circle-economy.com/
4	Circular Business Models for the Solar Power Industry	CIRCUSOL	x			https://www.ti.bfh.ch/fileadmin/user_upload/ICTM_en_S5.pdf
5	Circular Change				x	http://www.circularchange.com/
6	Circular Change Conference			x		http://www.circularchange.com/circular-change-conference-2018/
7	Circular Cities			x		https://circulareconomy.europa.eu/platform/en/news-and-events/all-events/circular-cities
8	Circular Economy applied to LI-ION batteries for smart electric mobility in cities	CELION	x			https://cordis.europa.eu/project/rcn/213324_en.html
9	Circular Economy Business Ecosystem	Think Tank	x			https://eitrawmaterials.eu/project/think-tank/
10	Circular Economy Business Models for Collecting Household ITC WEEE for Reuse		x			http://gtr.ukri.org/projects?ref=132078
11	Circular Economy Coalition for Europe	CEC4EUROPE			x	http://www.cec4europe.eu/
12	Circular Economy Foundation	FEC			x	http://economiacircular.org/EN/?page_id=51
13	Circular Economy from North to South Europe	CENSE	x			http://www.svimed.eu/cense/
14	Circular Materials Conference			x		http://www.circularmaterialsconference.se/

ID	Full name	Acronym (if any)	Projects	Events	Initiative	URL
15	Circular Society				x	https://www.circularsociety.eu/our-aim/
16	Cities cooperating FOR Circular Economy	FORCE	x			http://www.ce-force.eu/
17	Closing the loop	CTL			x	http://www.closingtheloop.eu/
18	Cloud Manufacturing and Social Software Based Context Sensitive Product-Service Engineering Environment for Globally Distributed Enterprise	Diversity	x			https://www.diversity-project.eu/
19	Cluster of H2020 Research Projects on Product Service Systems				x	http://www.fof-pss-cluster.eu/
20	Congreso Nacional del Medio Ambiente - Spanish Congress on Environment	CONAMA		x		http://www.conama.org/web/es/congresos-y-actividades/conama.html
21	Critical Raw Material Closed Loop Recovery	CRMRecovery	x			http://www.criticalrawmaterialrecovery.eu/
22	Customer-driven design of product-services and production networks to adapt to regional market requirements	ProRegio	x			http://www.h2020-proregio.eu/
23	Demonstration of a re-use process of WEEE addressed to propose regulatory policies in accordance to EU law	EcoRAEE	x			http://www.life-ecoraee.eu/en/
24	Demonstration of the recovery of critical metals such as indium and yttrium by recycling discarded flat panels	RECUMETAL	x			https://life-recumetal.eu/en/
25	Development and demonstration of Waste Electrical and Electronic Equipment (WEEE) prevention and reuse paradigms	ReWEEE	x			https://www.reweee.gr/en
26	Development and Market Replication of novel NIR-transparent polymer colourants to replace carbon black, and allow the sorting of black and coloured polymers from mixed waste streams	NIRSORT	x			

ID	Full name	Acronym (if any)	Projects	Events	Initiative	URL
27	Development of recovery processes for recycling of valuable components from FPDs (In, Y, Nd) for the production of high added value NPs	RECYVAL-NANO	x			http://www.recyval-nano.eu/
28	Development of sustainable smart mobile devices through advanced re-design, re-use and remanufacturing technologies	sustainablySMART	x			https://www.sustainably-smart.eu/
29	Disruptive Innovation Festival - Ellen MacArthur Foundation (DIF 2018, Nov 6 -23, 2018)	DIF 2018		x		https://www.thinkdif.co/
30	e.THROUGH - Thinking rough towards sustainability	e.THROUGH	x			https://ethrough.wordpress.com
31	Ecomondo 2019 or 2020	ECOMONDO		x		https://en.ecomondo.com/
32	ECOS Standard				x	http://ecostandard.org/
33	Electronics Goes Green (Germany)	EGG		x		https://electronicsgoesgreen.org/
34	Ellen MacArthur Foundation				x	https://www.ellenmacarthurfoundation.org/circular-economy
35	Environcom Ltd - UK independent recycler of WEEE and provider of re-use	Environcom			x	http://www.environcom.co.uk/
36	Establishing a Multi-purpose Biorefinery for the Recycling of the organic content of AHP waste in a Circular Economy Domain	EMBRACED	x			https://www.embraced.eu/
37	Eurometaux				x	https://www.eurometaux.eu/
38	European Circular Economy Stakeholder Platform				x	https://circulareconomy.europa.eu/platform/
39	European Circular Economy Stakeholder Platform-Event			x		https://circulareconomy.europa.eu/platform/en/news-and-events/all-events

ID	Full name	Acronym (if any)	Projects	Events	Initiative	URL
40	European Electronics Recyclers Association	EERA			x	https://www.eera-recyclers.com/
41	European Investment Bank	EIB			x	http://www.eib.org/projects/initiatives/circular-economy/index
42	European Union Network for the Implementation and Enforcement of Environmental Law	IMPEL			x	https://www.impel.eu/
43	New Business Models for Sustainable Entrepreneurship, Innovation, and Transformation	NBM 2019		x		https://www.nbmconference.eu/
44	EwasteR - Designing and Testing new management skills for the development of the Waste Electrical and Electronic Equipment Recycling and Re-use System in Europe	EwasteR	x			http://www.ewaster.eu/
45	Feedback mechanisms across the Lifecycle for Customer-driven Optimization of Innovative Product-Service Design	Falcon	x			http://www.falcon-h2020.eu/
46	Feria Internacional de las Soluciones Medioambientales y las Energías - International Fair on Environmental Solutions and Energy (Spain)	ECOFIRA		x		http://ecofira.feriavalencia.com/en/
47	Full traceability of e-waste management to increase collection rates, reduce uncontrolled flows and ensure proper treatment.	WEEE trace	x			http://www.weee-trace.com/index.php?LANG=EN&ids=9
48	Going Green – CARE INNOVATION	CARE INNOVATION		x		http://ci2018.care-electronics.net/
49	Governance of WEEE and waste PBA flow and consumer friendly collection and awareness raising	E-WASTE GOVERNANCE	x			http://e-odpadki.zeos.si/en/
50	Green Week (Belgium)			x		https://www.eugreenweek.eu/
51	IFAT 2020 (Word´s Leading Trade Fair for Water, Sewage, Waste and Raw Materials Management)	IFAT 2020		x		https://www.ifat.de/index-2.html

ID	Full name	Acronym (if any)	Projects	Events	Initiative	URL
52	Implementation of a CirculAr economy Based on Recycled, reused and recovered Indium, Silicon and Silver materials for photovoltaic and other applications	CABRISS	x			https://www.spire2030.eu/cabriss
53	Implementing a new circular economy model for composite products in automotive, furniture and building sectors with high potential for cross-sectorial replicability and transferability	ECOBULK	x			http://www.ecobulk.eu
54	Innovative hydrometallurgical processes to recover metals from WEEE	HydroWEEE	x			http://www.4980.timewarp.at/sat/hydroWEEE/
55	Innovative solutions for WEEE Recycling Industry	RECDEV	x			http://www.recdev.eu/
56	Innovative WEEE traceability and collection system and geo-interpole	INNOWEEE	x			-
57	Integrated solutions for EEE pre-processing, closing the loop of post-consumer high-grade plastics, and recovery of critical materials	CLOSEWEEE	x			http://closeweee.eu
58	International Conference on Industrial and Hazardous Waste Management	Crete 2020		x		http://www.hwm-conferences.tuc.gr/
59	International Conference on Sustainable Solid Waste Management			x		https://naxos2018.uest.gr/
60	International Electronics Manufacturing Initiative	iNEMI			x	http://www.inemi.org/about-us
61	International Electronics Recycling Congress (Austria)	IERC		x		https://www.icm.ch/ierc-2019
62	International Intelligence and Business Development Network on Circular Economy Business Opportunities with China	intCEB	x			https://eitrawmaterials.eu/project/intceb/
63	International Solid Waste Association-event	ISWA		x		https://www.iswa.org/

ID	Full name	Acronym (if any)	Projects	Events	Initiative	URL
64	International Solid Waste Association	ISWA			x	https://www.iswa.org/
65	International Symposium on Environmentally Conscious Design and Inverse Manufacturing	Ecodesign 2019		x		http://ecodenet.com/ed2019/
66	International trade show for environmental equipment, technologies and services (France)	POLLUTEC		x		http://www.pollutec.com/en/home/
67	International Waste Management and Landfill Symposium	Sardinia 2019		x		http://www.sardiniasymposium.it/
68	Life-Cycle Inventories (LCI) Database on WEEE management		x			http://weee-lci.eco-systemes.com/Node/
69	Measuring the IMPACTS of the transition to the CIRCULAR economy	Circular Impacts	x			https://circular-impacts.eu/about
70	New approaches for the valorisation of urban bulky waste into high added value recycled products	URBANREC	x			http://www.urbanrec-project.eu/
71	Next generation urban mining - Automated disassembly, separation and recovery of valuable materials from electronic equipment	ADIR	x			https://www.adir.eu/en/project-introduction.html
72	Partnership of industry leaders to deliver advancements across the WEEE value chain to improve environment and drive circular economy	WEEE 2020			x	https://ec.europa.eu/growth/tools-databases/eip-raw-materials/en/content/weee-2020-raw-material-partnership-%E2%80%93-delivering-advancements-across-weee-value-chain-improve
73	Plastic Recycling Show Europe (The Netherlands)	PRSE		x		http://www.prseventeurope.com
74	Plastics Recyclers Annual Meeting			x		https://www.plasticsrecyclersam.org/
75	Plastics Recyclers Europe	PRE			x	https://www.plasticsrecyclers.eu/
76	Plastics Recyclers Europe-Event	PRE		x		https://www.plasticsrecyclers.eu/

ID	Full name	Acronym (if any)	Projects	Events	Initiative	URL
77	Plastics Recycling World Exhibition	Essen (Germany) 2020		x		https://plasticsrecyclingworldexpo.com/eu
78	Post-Consumer High-tech Recycled Polymers for a Circular Economy	PolyCE	x			https://www.polyce-project.eu/
79	Product Life Times and the Environment	PLATE 2019		x		http://www.plateconference.org/
80	Product Remanufacturing Service System - overcome the asymmetric distribution of information in the End of Life recovery of products by connecting OEMs and subcontractors, with a special emphasis on remanufacturing.	PREMANUS	x			http://www.premanus-project.eu/
81	Product Service Design and Manufacturing Intelligence Engineering Platform	MANUTELLIGENCE	x			http://www.manutelligence.eu/
82	Product-Life Institute				x	http://www.product-life.org/
83	Product-Service Symbiotic Systems	Psymbiosys	x			http://www.psymbiosys.eu/
84	Reclamation of Gallium, Indium and Rare-Earth Elements from Photovoltaics, Solid-State Lighting and Electronics Waste	RECLAIM	x			http://www.re-claim.eu/
85	Recovery of Rare Earth Elements from magnetic waste in the WEEE recycling industry and tailings from the iron ore industry	REEcover	x			https://cordis.europa.eu/result/rcn/202427_en.html
86	Recycling of industrial plastic waste containing carbon nanotubes for E&E industry	Recytube	x			https://ec.europa.eu/environment/eco-innovation/projects/en/projects/recytube
87	Resource Waste Management (UK)	RWM		x		https://www.rwmexhibition.com/
88	Re-Tek UK Ltd - provide reverse logistics and data destruction services for redundant IT equipment, refurbish equipment for re-sale or donation	Re-Tek			x	https://www.re-tek.co.uk/

ID	Full name	Acronym (if any)	Projects	Events	Initiative	URL
89	RREUSE	RREUSE			x	http://www.rreuse.org
90	Science Based Targets Initiative	SBT			x	https://sciencebasedtargets.org/
91	Sharing knowledge of WEEE initiatives	WEEEshare			x	http://www.weeeshare.eu/
92	Slovenia WEEE campaign - Raising awareness of the importance of environmentally sound management of WEEE among identified target groups in Slovenia		x			http://life.zeos.si/en/
93	Solutions for CRitical Raw materials - a European Expert Network	SCRREEN	x			http://scrreen.eu/
94	Supporting a new circular economy for RAW materials recovered from landFILLs	RAWFILL	x			http://www.nweurope.eu/projects/project-search/supporting-a-new-circular-economy-for-raw-materials-recovered-from-landfills/
95	The Electrical and Electronic Equipment. Sustainability Action Plan (esap) 2025 (The Waste and Resources Action Programme (WRAP))	esap 2025 (WRAP)			x	http://www.wrap.org.uk/sustainable-electricals/esap#theme-four
96	The Near-zero European Waste Innovation Network	NEW_InnoNet			x	http://www.newinnonet.eu/
97	The Oxford Circular Collective				x	https://circularcollective.org/
98	The United Kingdom cartridge remanufacturers association	UKCRA			x	http://www.ukcra.com/
99	The Multi Life Cycle Centre for electric and electronic equipment	MLC	x			http://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=home.showFile&rep=file&fil=LIFE04_ENV_AT_000007_LAYMAN.pdf
100	Towards Zero Waste in Industrial Networks	ZeroWIN	x			www.zerowin.eu
101	waste COLLECTiOn systems assessed and good pRacticeS identified	COLLECTORS	x			https://www.collectors2020.eu/

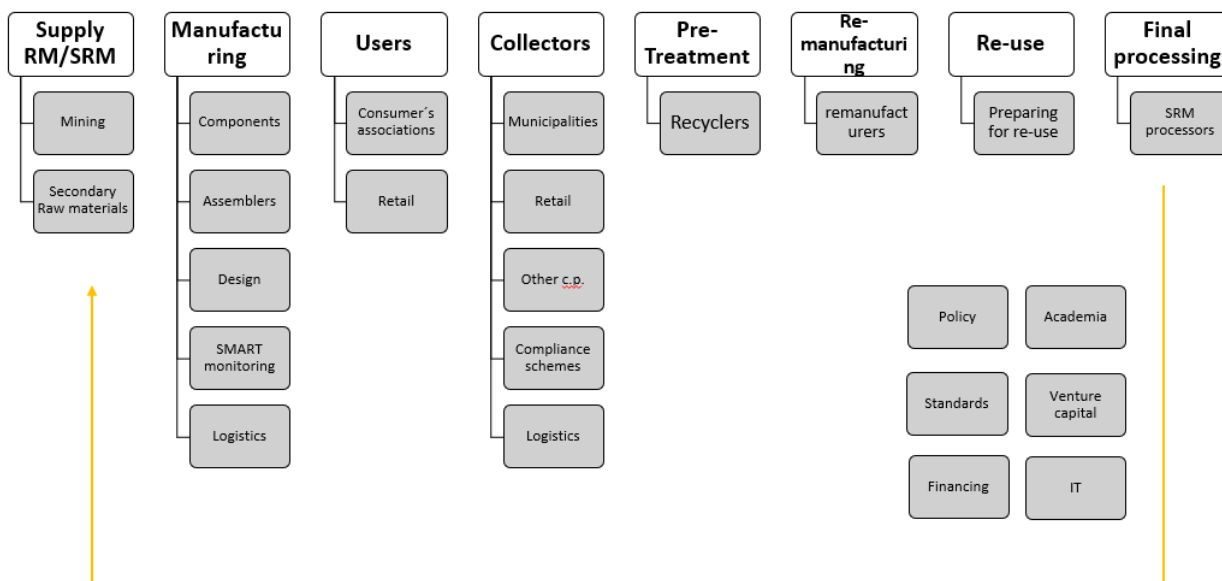| ID	Full name	Acronym (if any)	Projects	Events	Initiative	URL
102	WEEELABEX				x	http://www.weeelabex.org/
103	World Manufacturing Forum 2019 or 2020				x	https://www.worldmanufacturingforum.org/
104	World Resources Forum-events	WRF		x		https://www.wrforum.org
105	World Resources Forum	WRF			x	https://www.wrforum.org
106	Zero Waste Europe				x	https://zerowasteeurope.eu/
107	EU Circular Business Conference 2018			x		https://www.circularbusinessconf.eu/
108	Circular Norway				x	circularnorway.no
109	IMPEL Conference			x		https://registrations.impel.eu/event_website_pages/view/home/5b0bd922-2c7c-4950-89a3-49780af00018/eddd36e694
110	WMF Annual Meeting 2018			x		https://www.worldmanufacturingforum.org/
111	EU Circular Economy Conference			x		http://www.circulareconomy-vienna2018.eu/
112	Upcycling workshops/ Fieldtrips			x		https://circularcollective.org/have-fun/
113	2nd International RREUSE conference: Making the circular economy attractive, convenient and inclusive			x		http://www.rreuse.org/save-the-date-22-23-november-2018-2nd-international-conference/
114	Assessing the Circular Economy Potential of EU Product Policy				x	http://www.eunomia.co.uk/assessing-the-circular-economy-potential-of-eu-product-policy/

Annex 2. List of events mapped

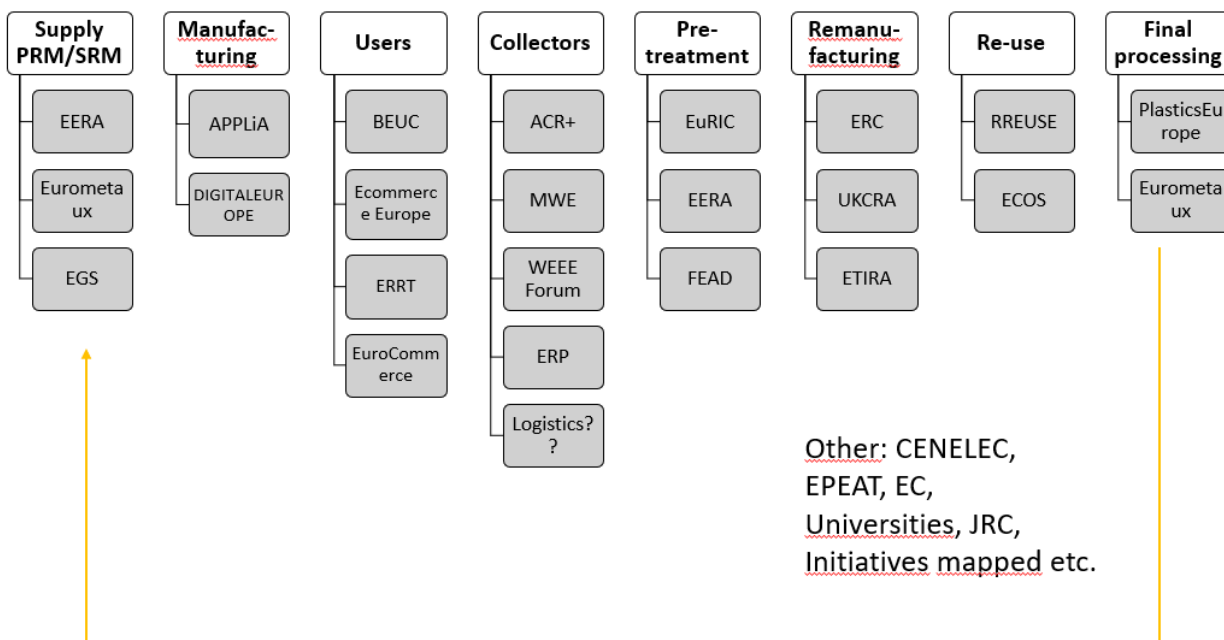| Full name of EVENT	Acronym (if any)	URL
Circular Change Conference		http://www.circularchange.com/circular-change-conference-2018/
Circular Cities		https://circulareconomy.europa.eu/platform/en/news-and-events/all-events/circular-cities
Circular Materials Conference		http://www.circularmaterialsconference.se/
Congreso Nacional del Medio Ambiente - Spanish Congress on Environment	CONAMA	http://www.conama.org/web/es/congresos-y-actividades/conama.html
Disruptive Innovation Festival - Ellen MacArthur Foundation (DIF 2018, Nov 6 -23, 2018) Note: This is an annual event.	DIF 2018	https://www.thinkdif.co/
Ecomondo 2019 or 2020	ECOMONDO	https://en.ecomondo.com/
Electronics Goes Green (Germany)	EGG	https://electronicsgoesgreen.org/
European Circular Economy Stakeholder Platform-Event		https://circulareconomy.europa.eu/platform/en/news-and-events/all-events
New Business Models for Sustainable Entrepreneurship, Innovation, and Transformation	NBM 2019	https://www.nbmconference.eu/
Feria Internacional de las Soluciones Medioambientales y las Energías - International Fair on Environmental Solutions and Energy (Spain)	ECOFIRA	http://ecofira.feriavalencia.com/en/
Going Green – CARE INNOVATION	CARE INNOVATION	http://ci2018.care-electronics.net/
Green Week (Belgium)		https://www.eugreenweek.eu/
IFAT 2020 (Word´s Leading Trade Fair for Water, Sewage, Waste and Raw Materials Management)	IFAT 2020	https://www.ifat.de/index-2.html
International Conference on Industrial and Hazardous Waste Management	Crete 2020	http://www.hwm-conferences.tuc.gr/
International Conference on Sustainable Solid Waste Management		https://naxos2018.uest.gr/
International Electronics Recycling Congress (Austria)	IERC	https://www.icm.ch/ierc-2019
International Solid Waste Association-event	ISWA	https://www.iswa.org/
International Symposium on Environmentally Conscious Design and Inverse Manufacturing	Ecodesign 2019	http://ecodenet.com/ed2019/
International trade show for environmental equipment, technologies and services (France)	POLLUTEC	http://www.pollutec.com/en/home/
International Waste Management and Landfill Symposium	Sardinia 2019	http://www.sardiniasymposium.it/
Plastic Recycling Show Europe (The Netherlands)	PRSE	http://www.prseventeurope.com
Plastics Recyclers Annual Meeting		https://www.plasticsrecyclersam.org/

Plastics Recyclers Europe-Event	PRE	https://www.plasticsrecyclers.eu/
Plastics Recycling World Exhibition	Essen (Germany) 2020	https://plasticsrecyclingworldexpo.com/eu
Product Life Times and the Environment	PLATE 2019	http://www.plateconference.org/
Resource Waste Management (UK)	RWM	https://www.rwmexhibition.com/
World Resources Forum-events	WRF	https://www.wrforum.org
EU Circular Business Conference 2018		https://www.circularbusinessconf.eu/
IMPEL Conference		https://registrations.impel.eu/event_website_pages/view/home/5b0bd922-2c7c-4950-89a3-49780af00018/eddd36e694
WMF Annual Meeting 2018		https://www.worldmanufacturingforum.org/
EU Circular Economy Conference		http://www.circulareconomy-vienna2018.eu/
Upcycling workshops/ Fieldtrips		https://circularcollective.org/have-fun/
2nd International RREUSE conference: Making the circular economy attractive, convenient and inclusive		http://www.rreuse.org/save-the-date-22-23-november-2018-2nd-international-conference/

Annex 3. Mapping of stakeholders

Supply RM/SRM
- Mining
- Secondary Raw materials

Manufacturing
- Components
- Assemblers
- Design
- SMART monitoring
- Logistics

Users
- Consumer´s associations
- Retail

Collectors
- Municipalities
- Retail
- Other c.p.
- Compliance schemes
- Logistics

Pre-Treatment
- Recyclers

Re-manufacturing
- remanufacturers

Re-use
- Preparing for re-use

Final processing
- SRM processors

- Policy
- Academia
- Standards
- Venture capital
- Financing
- IT

Examples of organisations:

Supply PRM/SRM
- EERA
- Eurometaux
- EGS

Manufacturing
- APPLiA
- DIGITALEUROPE

Users
- BEUC
- Ecommerce Europe
- ERRT
- EuroCommerce

Collectors
- ACR+
- MWE
- WEEE Forum
- ERP
- Logistics??

Pre-treatment
- EuRIC
- EERA
- FEAD

Remanu-facturing
- ERC
- UKCRA
- ETIRA

Re-use
- RREUSE
- ECOS

Final processing
- PlasticsEurope
- Eurometaux

Other: CENELEC, EPEAT, EC, Universities, JRC, Initiatives mapped etc.

Annex 4. Advisory Board Terms of Reference

C-SERVEES Advisory Board Terms of Reference and Informed Consent Form

Introduction

C-SERVEES aims to boost a resource-efficient circular economy in the electrical and electronic (E&E) sector through the development, testing, validation and transfer of new circular economic business models (CEBMs) based on systemic eco-innovative services that include: eco-leasing of EEE, product customization, improved WEEE management, and ICT services to support the other eco-services. ICT tools (relying on QR codes) will be developed as the driver of the proposed eco-innovative services to take full advantage of the potential and synergies of two major revolutions of our time: the circular economy and the Industry 4.0. The project will thus contribute to transform the E&E sector into circular and 4.0, raising new opportunities for end-users (such as their involvement in design or the access to a product as a service) and for social and solidarity economy (conducted by NGOs, like EMAUS, which employ people at risk of social exclusion to repair and prepare WEEE for re-use). The techno-economic, environmental and social viability of the new CEBMs will be validated through demonstrations dealing with four target products belonging to different EEE categories: large household appliances, IT equipment, telecommunications equipment, and consumer equipment.

Advisory Board Purpose

The purpose of the Advisory Board (AB) is to support project delivery and exploitation by:

- Reflecting on project findings and results from a technical and end user point of view;
- Periodically advising the project team in refining activities based on project findings and results;
- Forwarding project findings and results to stakeholders in their sector for peer review;
- Ensuring communication and co-ordination with other on-going projects and initiatives.

Membership of the AB

Members of the AB have been selected in their personal capacity, based on their expertise, and not as representatives of an organisation. The expertise provided by members of the AB includes:

- Scientific and/or technical experience in the EEE industry;
- Experience in research and development projects;
- Management of complex information and intelligence and knowledge transfer;
- And contributions as potential end users of the data and intelligence produced by the project.

Members have been selected to cover a broad range of typologies of professional activity, e.g. academia, government organisations, the public sector and private sector.

Management

The AB will be managed by the WEEE Forum, with SAT as vice chair.

Meetings

AB meetings will be held when the need arises.

Sharing of Data, Information and Intelligence

In the course of providing expertise and updates on project activity, it may be necessary to disclose intelligence and information which is unpublished or because of its source is unlikely to be published. Where such information and intelligence are shared, it is the responsibility of the person disclosing the information to ensure that the individuals in receipt understand any limitations or restrictions on further use and disclosure. Members of the Project Consortium and AB should not use or disclose any such information, intelligence or data without the agreement of the individual who provided it.

Review

By joining the AB, members agree to the Terms of Reference as described in this document.

The project duration is four years and during that time no periodic reviews of this Terms of Reference are planned. During this time a member of AB or Project Management Team may recommend or suggest a change to the membership or to these Terms of Reference. The AB Chair will ensure the changes are considered by these two groups and amend the membership or Terms of Reference as appropriate.

AB Member Responsibilities

Members of the AB agree to provide their expertise, time and support to advise the Project Consortium. When applicable, members will also support data gathering activities and provide relevant contacts. Any advice provided will be impartial and objective and in the best interests of the project and improving the knowledge base. Members will not use unpublished information gained from the project to seek competitive advantage.

Personal Data Protection

In order to comply with the General Data Protection Regulations, the individuals interested in becoming AB members are requested to read and sign (if agreed) the consent form attached to this document.

Please note that any data requested will be included in a database for the exclusive use of the project partners for the objectives of the project in general, and for the Advisory Board related tasks, in particular. Personal data will solely be used for:

- the activities mentioned in the Terms of reference of the Advisory Board,
- the dissemination of project results and achievements
- the circulation of invitations to participate in activities related to the project, and
- the publication of authorised personal information in a specific public section of the C-SERVEES website.

Only personal data that are relevant for the project will be collected. No sensitive information will be collected.

In line with the EU General Data Protection Regulation, you have the right to access information about the use of your personal data, as well as the right to rectify/amend, cancel or oppose the use of your personal data at any time during the period of research and storage of your data. To do so please contact: c-servees@aimplas.es . Your data will be kept for a maximum of 5 years after the project ends in April 2022 but will not be used for contact purposes after that date. The contact data collected will not be disclosed to companies or media without prior authorisation.

The information collected will be stored on secure servers in a password protected file.

Informed Consent Form

If you agree to be involved in C-SERVEES Advisory Board we kindly ask you to sign this document. By giving your consent you confirm that you:

- have read the Advisory Board Terms of reference and the nature and purpose of the project has been explained to you.
- have had the opportunity to ask questions.
- understand the purpose of the project and your involvement in it.
- understand that you may withdraw from the project by means of a written notification to the contact indicated in the Terms of reference at any stage and that this will not affect your status now or in the future.
- Authorise the C-SERVEES Consortium for the publication of your short Biography and photo (both of them provided by yourself) in a specific section of the C-SERVEES public website.
- agree that your contact data are included in a contact list to be further used for C-SERVEES dissemination activities (e.g. newsletter, announcements), for specific Advisory Board activities and for invitations to participate in other project related activities (e.g. workshops, interactive online platform).
- understand that your contact data will be stored electronically on the project server with restricted access to the project members, to be deleted after 5 years, or to be deleted on request.
- understand that your contact data will not be disclosed to third parties out of the C-SERVEES Consortium without your prior authorisation.
- accept that all the communications that you will be receiving within the C-SERVEES framework will be written in English.

Should you have any questions regarding the purpose and design of this project and/or your contribution as a member of the Advisory Board, or if you decide to withdraw from the research at a later stage, please contact c-servees@aimplas.es

Signed: …………………………………………………………………………………….

Name: …………………………………………………………………………………….

Organization: …………………………………………………………………………………….

Date: …………………………………………………………………………………….