**Title:** Secure Management Platform for Shared Process Resources  
**Acronym:** SHAREBOX  
**Grant No:** 680843

<table>
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<tr>
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<tr>
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<td>Final Communication Report</td>
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<td>Associated WP</td>
<td>WP7 Innovation impacts</td>
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<td>Associated Tasks</td>
<td>T7.4, Subtask 7.4.1</td>
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<td>Prepared by (Lead Partner)</td>
<td>DECHEMA</td>
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<td>Partners involved</td>
<td>IRIS, CBB</td>
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<tr>
<td>Authors</td>
<td>Nicole Heine (DECHEMA), Ansgar Rudolph (CBB),</td>
</tr>
<tr>
<td>Dissemination Level</td>
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Executive Summary

The Final Communication Plan (D7.7) summarizes and evaluates the communication efforts and activities that have taken place during the entire lifetime of the project. It builds up on the Communication plan (D7.2) and the Interim Communication Report (D7.4).

The SHAREBOX partners have been very active and successful on communication of SHAREBOX goals and activities to various target groups. In this respect, the project benefits tremendously from the complementary expertise of the Consortium, thus spanning from academic dissemination channels to the industrial partners’ company networks.

Overall, the project features 21 peer-reviewed publications, 17 publications in scientific conference proceedings, 6 other articles, 7 press releases, 19 workshops organized, representation at 17 trade fairs and a total of more than 70 conferences and other events attended.

Additionally, partners have generated attention for SHAREBOX in the frame of pitch events, interviews and academic lectures or courses as well as via organizational social media channels, e.g. Twitter, LinkedIn, Facebook, newsletters.
1. Introduction

Whereas the initial Communication Plan presented an overall dissemination and communication strategy and provided a detailed plan of relevant activities for the project, the present document reports on the implementation of this strategy achieved during the SHAREBOX project. Throughout the project, the implementation of the communication and dissemination strategy was continuously monitored and evaluated.

The SHAREBOX Communication Plan defines three overall objectives for the project’s communication and dissemination activities:

1. To disseminate effectively the project goals and outcomes;
2. To set up efficient tools for the communication towards various stakeholders (scientific communities, professionals, decisions makers, public, etc.);
3. To exploit synergies in liaisons and collaborations.

In order to achieve these general objectives, the Initial Communication Plan defines specific objectives:

1. To identify and involve internal stakeholders within the partner organisations;
2. To create an affiliate network of external stakeholders (other funded projects, universities and research organisations);
3. To raise awareness about SHAREBOX amongst associations, networks and standardization bodies.

Based on these objectives, a broad communication strategy was set up and pursued with great success by all partners.

In addition to addressing stakeholder from industry, associations and networks and also academia to create awareness for highly relevant topic of Industrial Symbiosis and the SHAREBOX as the project’s main outcome, several measures have been undertaken to also involve and inform the general public about SHAREBOX goals and outcomes.

A google spreadsheet was set up early within the project and filled in continuously by all beneficiaries to keep track of SHAREBOX’s presence at past events. It served to document as well as evaluate all dissemination actions in the frame of the project.

This report summarizes all communication activities within SHAREBOX. It can be concluded that SHAREBOX communication activities have been very effectively realized, exceeding the original plans both in numbers and impact.
2. Communication Channels and Activities Report

This section summarizes the communication materials created and the dissemination efforts taken during the first two years of the project.

2.1 SHAREBOX project website

The project website ([http://www.sharebox-project.eu](http://www.sharebox-project.eu)) was one of the main dissemination channels. The website has been developed with an open source content management system offering multiple access and different user levels according to the SHAREBOX requirements. The website content was produced by members of the Consortium under the responsibility of IRIS. Logging into the reserved area of the website, each partner has access to a simple CMS interface in which they can upload news items (i.e. news, events, a relevant press item, highlights) or reports. The project website was officially launched in December 2015.

In the second half of the project, a process to expand and update the website was initiated by DECHEMA, supported by IRIS and the entire Consortium. New design elements and sections were equally proposed. The content was updated and implemented by IRIS in the final months of the project, in which all public deliverables, project posters, videos and information about participation in different events were included under ‘Resources’ tab.

Based on that, a new SHAREBOX website was created and will be used for the post-project exploitation. This website includes detailed technical information about different modules and tools developed within SHAREBOX scope (e.g: energy module, ABM... etc.). The website will be published by IRIS at M48.

*Figure 1: Screenshots of the SHAREBOX website [www.sharebox.eu](http://www.sharebox.eu)*
Throughout the course of the project, more than 34,000 users have visited the SHAREBOX website. Fig. 2 provides information about website use.

**Audience Overview**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>All Users</td>
<td>100.00% Users</td>
</tr>
</tbody>
</table>

**Overview**

- **Users**: 34,658
- **New Users**: 34,658
- **Sessions**: 37,516
- **Number of Sessions per User**: 1.08
- **Pageviews**: 42,432
- **Pages / Session**: 1.13
- **Avg. Session Duration**: 00:00:21
- **Bounce Rate**: 92.35%

<table>
<thead>
<tr>
<th>Country</th>
<th>Users</th>
<th>% Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Iraq</td>
<td>4,999</td>
<td>19.41%</td>
</tr>
<tr>
<td>2. United States</td>
<td>3,487</td>
<td>13.54%</td>
</tr>
<tr>
<td>3. United Kingdom</td>
<td>2,567</td>
<td>9.96%</td>
</tr>
<tr>
<td>4. Spain</td>
<td>2,326</td>
<td>9.03%</td>
</tr>
<tr>
<td>5. Germany</td>
<td>1,527</td>
<td>5.93%</td>
</tr>
<tr>
<td>6. France</td>
<td>697</td>
<td>2.71%</td>
</tr>
<tr>
<td>7. Belgium</td>
<td>686</td>
<td>2.70%</td>
</tr>
<tr>
<td>8. Italy</td>
<td>651</td>
<td>2.53%</td>
</tr>
<tr>
<td>9. Netherlands</td>
<td>583</td>
<td>2.26%</td>
</tr>
<tr>
<td>10. Australia</td>
<td>506</td>
<td>1.96%</td>
</tr>
</tbody>
</table>

*Figure 2: SHAREBOX website use*
2.2. SHAREBOX communication and promotional materials: Project leaflets, posters, project video

To help all partners with their SHAREBOX-related dissemination activities, WP7 was dedicated to the creation of appropriate publicity materials. In the initial project phase, a project logo, visual style guidelines and a set of templates were generated and made available to the partners. The generic set of templates for presentation can be easily adapted for specific audiences and was available for use by all project partners involved in the communication and dissemination activities of the SHAREBOX project. In addition, we have developed the following materials:

- Logo
- General PowerPoint presentation
- Poster
- Leaflet
- Business card
- Roll-up banner

2.2.1. SHAREBOX logo

Two SHAREBOX logo designs have been developed, one horizontal and one vertical oriented version.

Figure 3: SHAREBOX logo

2.2.3. SHAREBOX poster

The SHAREBOX poster provides an at-a-glance overview of the project. It was primarily used during conferences and fairs and had two basic functions. Firstly, it was designed to attract visitors at first glance and make them curious to learn more about the project. Secondly, it enabled a first impression of the architecture and the key features of the project. The poster was produced in month 3 and was presented on numerous events by different partners throughout the project lifetime.
2.2.4 SHAREBOX leaflet

The SHAREBOX flyer was designed to provide an overview about the project, its goals and its members. It was used as a handout on events, conferences and workshops. Project partners were encouraged to order copies for distribution at relevant events.

The following target groups were defined:

- Companies, industry parks and associations
- Universities and research institutes
- Politicians and governmental organisations
2.2.5 SHAREBOX business card
The SHAREBOX business card was produced in August 2016. These cards were meant to be handed out to partners in face-to-face meetings and to remind them of the SHAREBOX project. The SHAREBOX business card provided information on main SHAREBOX goals at a glance as well as contact information and the URL of the website.
Figure 7: SHAREBOX business card

2.2.6 SHAREBOX roll-up banner

Figure 8: SHAREBOX roll-up banner
A SHAREBOX roll-up banner was designed and used for SHAREBOX representation at several occasions, including ACHEMA 2018 in Frankfurt and the World Resources Forum 2019 in Antwerp.

2.2.7 Project video

In order to maximize visibility, a project video was produced by IRIS. It is currently hosted under the ASPIRE youtube channel and in the ASPIRE website. It can be viewed by clicking on the following link: https://www.spire2030.eu/news/video/sharebox-project. It is equally available on the SHAREBOX website.

2.3 Publications

The project features 21 peer-reviewed publications (9 still in preparation), 17 publications in scientific conference proceedings, 6 other articles and 7 press releases, thus over exceeding its goals by far. A list of scientific publications is included in this report. Examples for other articles can also be found below.

2.3.1 Scientific publications

Numerous scientific publications have been generated by project partners (of which some are still in preparation) and will thus generate interest even after project end. A complete list of scientific publications sorted by partner can be found below.

UT:

Peer-reviewed articles published in international scientific journals (6)


**Peer-review articles under review in international scientific journals (3)**


**About to complete articles for international scientific journal (8)**


---

**PU Deliverable 7.7**

---

**EU**

---

**SPIRE-06-2015**

---

12


**Articles in conference proceedings (16)**


**UPC:**


AICE:

Publications derived from WP5 and WP6 listed below (Bou 2016 and Vicent 2018):


NOTE: CONAMA is the Spanish National Environment Congress.


NOTE: QUALICER is the World Congress on the Quality of Ceramic Tile and Pavement.

ISL:

Publication deriving from 5.4 (Lombardi, 2018).


2.3.2 Press-releases, non-scientific and other publications or articles

During the project, seven press releases and six additional articles in journals or newspapers aiming at different target groups, e.g. Industry or the general public, have been generated. Some examples can be found below.

Press releases

Several partners have published press releases on SHAREBOX events throughout the course of the project, mainly to announce events or achievements. Some examples can be found below.
Figure 9: Press release by ITC-AICE
Sharebox at Booth28 in the ‘Industrial Symbiosis in Europe’ side-event

IRIS Group had the pleasure of being the organizer of the H2020 side-event Booth28 in the ‘Industrial Symbiosis in Europe’ that was held in the World Resources Forum 2016 in Antwerp during 25th and 26th February.

Among the EU-funded projects that were participating, presenting their solutions and real case-studies of IS, Georgios Chalkias, Project and Innovation Manager at IRIS, and Eudume Sudret were representing SHAREBOX our online platform for secure Info-sharing, opportunity identification and synergy management.

The event hosted live demonstrations of different industrial symbiosis IT tools and platforms for the attendees so they could see firsthand how they work and the benefits for the industries with their implementation.

The main purpose of this event is chasing the collaboration between industries to reduce environmental and societal impacts, the harmonization of technologies, processes and policies, the civil society engagement to a circular economy at EU level, keeping valuable information from waste resources to erase a new business model throughout value chain actors collaboration.

We would like to thank all the attendees for the great interest raised in Sharebox and especially to Ángeles Ordúña from ASPIR for chairing the event.

Figure 10: Press release by IRIS
CEN Workshop Agreement

The CEN Workshop Agreement (CWA 17354) on Industrial Symbiosis: Core Elements and Implementation Approaches has been published as a joint activity between several projects and industrial participants. It provides a consensus on the core elements of industrial symbiosis to enable its identification, drivers for industrial symbiosis, and on good practice approaches to industrial symbiosis implementation across Europe and beyond. These common elements and approaches can form the basis for policy, recommendations and widespread implementation. This activity was pursued under the lead of ISL with DECHEMA contributing as part of Task 7.6 Standards setting. The CWA is available for download on the SHAREBOX as well as on the CEN websites.

Figure 11: Title page of CWA on Industrial Symbiosis

Articles or contributions to non-peer-reviewed journals, newspapers or other media

Partners have used several opportunities to create awareness for SHAREBOX, placing articles or collaborating with journals, newspapers or other media targeting different audiences, ranging from the general public to industry stakeholders.

This includes the following articles:

- IS and ShareBox - Main Subject of the official magazine of the BEBKA Regional Development Agency, 2015, ESO/ECI
• ShareBox - Main Subject of the official magazine of ECI (ESO Dergi), 2016, ESO/ECI
• Article in newspaper Cronica Nules, 2016, ISSA, KEROS (see Fig. 12)
• Article about SHAREBOX, DEHEMA Tätigkeitsbericht, 2016, DEHEMA
• Editorial in Vigilancer about industrial symbiosis, 2019, GUZMAN GLOBAL (see Fig. 13)

An article on Industrial Symbiosis and SHAREBOX vision and achievements titled “Ressourceneffizienz durch industrielle Symbiose: Chancen – Herausforderungen – Umsetzung im Unternehmen” (translation: “Resource-efficiency through industrial symbiosis: benefits – challenges – industrial implementation”) was prepared by DEHEMA and CCB and submitted to CHEManager. It will appear in September 2019. CHEManager is a print journal with 46,000 copies specifically targeting decision makers of German-speaking chemical, pharmaceutical and process industry.

Articles in newsletters or blogs are dealt with in ch. 2.5 on social media.

Figure 12: Article in Cronica Nules on 21/04/2016 on a meeting with community officials and SHAREBOX partners in the company KEROS
Figure 13: Editorial in Vigilancer

2.4 Participation at events

SHAREBOX aimed at coordinating an appropriate presence at relevant external events, as well as for organising SHAREBOX events over the course of the project. The Initial Communication Plan contained a list of events that intended to target at the outset of the project. As a goal, a SHAREBOX roadshow: ‘presentation of the project at 20 European conferences’ was aimed at. With representation at 17 trade fairs and at a total of more than 70 conferences and other events, this goal has been excelled by far.

In addition to representation at classical conferences, workshops and trade fairs, especially industrial partners have also engaged in bilateral meetings with company contacts, officials or in pitch events.
2.4.1 Trade fairs
SHAREBOX partners have attended 17 trade fairs, with SHAREBOX representation including booth representation, distribution of communication materials, organization of or participation in accompanying workshops etc.

Events include:
- CEVISAMA 2016, Feria Valencia, ES
- CERSAIE 2016, Bolonga, IT
- TECNARGILLA 2016, Rimini, IT
- DESTACA trade fair 2016, Castellon, ES
- CEVISAMA 2017, Feria Valencia, ES
- CERSAIE 2017, Bolonga, IT
- CEVISAMA 2018, Feria Valencia, ES
- Hannover Fair 2018, Hannover, DE
- CERSAIE 2018, Bolonga, IT
- Ecofira 2018, Valencia, ES
- IFAT 2018, Munich, ES
- ACHEMA 2018, Frankfurt, DE
- TECNARGILLA 2018, Rimini, IT
- CERAMICA INNOVA, 2018, Valencia, ES
- DESTACA trade fair 2018, Castellon, ES
- Digital Enterprise Show 2019, Barcelona, ES
- CEVISAMA 2019, Feria Valencia, ES

2.4.2 Participation and Organisation of Conferences and Workshops
Due to the large number of events, not all of them can be mentioned. A list of event highlights can be found below. Workshops and Trainings are dealt with in D7.8 Training report.
A few events organized by SHAREBOX are described in greater detail in chapter 3.2.

Conferences and events attended/contributed to by SHAREBOX partners:
- EUMAS 2016, 15-16 December 2016, Valencia, ES
- Indian Chemical Council (ICC) 10th Annual Outlook Conference, 14 February 2017, Mumbai, IND
- 1st SPIRE Thematic Workshop on Industrial Symbiosis, 30 March 2017, Brussels, BE
- Impact workshop on the cPPPs in Horizon 2020, 17 May 2017, Brussels, BE
- 25th International Input-Output Conference, 23 June 2017, Atlantic City, USA
- EnvirolInfo 2017, 13-15 September 2017, Luxemburg
- PROSIN conference, 15 September 2017, Arendal, NO
- 2017 EU PROCESS INDUSTRY CONFERENCE: A look to the future, 19 September 2017, Brussels, BE
• NEPIC Bioresource Conference, 22 September 2017, Durham, UK
• 7th Industrial Engineering and Systems Management Conference, 11-13 October 2017, Saarbrucken, DE
• Symbiosis User Network Conference, 25 October 2017, Rome, IT
• 3rd ESEIA Conference on Smart Energy Systems in Cities and Regions, 10-12 April 2018, Dublin, IRL
• Interreg Central Europe NUCLEI. Circular Economy and Industrial Symbiosis, a new path for manufacturing, 19 April 2018, Bologna, IT
• SIMULTECH 2018 8th International Conference on Simulation and Modeling Methodologies, Technologies and Applications, 29 July 2018, Porto, PT
• Data Mining Techniques for Environmental Sciences Special Session at 9th International Congress on Environmental Modelling and Software (DMTES-at-iEMSs 2018), 27 August 2018, Fort Collins, USA
• 1st Life Cycle Innovation Conference, 30 August 2018, Berlin, DE
• Bavarian-Norwegian Cluster meetings, 17 September 2018 and 17 October 2018, Munich, DE
• Workshop “Industrial Symbiosis in Europe” at World Ressources Forum, 25-26 February 2019, Antwerp, BE
• IWA Water Reuse 2019, 16-20 June 2019, Berlin, DE
• 14th IFKAD Conference, 5-7 June 2019, Matera, IT
• IEEE Conference on Business Informatics, 15-17 July 2019, Moscow, RUS

2.5 SHAREBOX social/digital media channels

Social media are crucial tools to target specific audiences and the general public. Partners have combined their efforts using institutional Social Media Channels as well as newsletters and blogs to generate a maximum range of coverage.

Channels used include:

• Twitter
• LinkedIn
• Facebook
• Instagram
• Corporate E-mail signatures
• Institutional websites
• Newsletters
• Blogs

DECHEMA and CCB have used their professional topical newsletter systems to specifically communicate SHAREBOX news and highlights to stakeholders from chemical and process
industry (Fig. 14 + 15). DECHEMA also features a corporate blog that was used to promote SHAREBOX (Fig. 16).
Many partners were very active on the use of social media. As an example, tweets by different SHAREBOX beneficiaries are shown in Fig. 17.

Figure 14: Example of DECHEMA newsletters announcing SHAREBOX events

Figure 15: Interview with Dr. Christina Jungfer, DECHEMA, on Industrial Symbiosis in CCB newsletter
Was ist ein CEN Workshop Agreement?

April 18, 2015 vor DECHEMA

In den drei europäischen Organisationen CEN, CENELEC und ETSI sehen die nationalen Normungsgremien die europäischen Listen, vor allem für Deutschland, an erheblichen Regeln für den besten Schutz und Ordnungsbegründungen. Die Themenberichte zeichnen dabei von einer Quelle, wie über ein Buch, und nehmen bis hin zur Sozialgesetzbuch, Kundenprogramm und der Produktsicherheit, wie neu und zu einem. Im CEN (European Commission for Standardization) entstehen besondere europäische Normen, die die nationalen einschließen, die Qualität und Sicherheit von Produkten angibt mit der Kundenanlage, mit Produktsicherungen an anbetenen Projekten im Abstand von 2015

Eine weitere Möglichkeit sind CEN (CEN Workshops on SHAREBOX), die an offene Fragestellung und praktische Lösungen und Anleitungen entwirren. Wie Normen die mit viel verschachtelt ersetzt unterstützt werden, Sie haben nicht den gleichen Stellenwert wie eine europäische Norm, haben z.B. keine nationale Verfügbarkeit und ihre Anwendung ist flexibel, können aber eine Verbindung zum Weg zu einer Norm sein.

Figure 16: DECHEMA blog entry on CWAs and SHAREBOX

Figure 17: Tweets of SHAREBOX partners throughout the project
2.6 Additional dissemination highlights

**Awards**
Upon Initiative of partner ECI (Eskisehir Chamber of Industry), SHAREBOX was awarded a prize within the Best Project Competition of TOBB (The Union of Chambers and Commodity Exchanges of Turkey). The award ceremony took place on 2 May 2019 (Fig. 18).

![Figure 18: Prize as best project by The Union of Chambers and Commodity Exchanges of Turkey awarded to SHAREBOX](image)

**Radio interview**
A radio interview was emitted in Castellon de Plana on 16 January 2018, informing the general public of the SHAREBOX project and the contribution of partner KEROS.

**Academic dissemination**
In addition to scientific publications, the academic partners within SHAREBOX have already created content from SHAREBOX to be integrated in university teaching etc.. These activities are described in D7.6 Final Plan for the dissemination and exploitation of the project’s results.

**Organization of workshops and trainings/stakeholder engagement**
Within SHAREBOX, numerous events and workshops with industrial stakeholders have taken place, particularly in the framework of the participating clusters (ESI, AICE, NEPIC, CCB). Although SHAREBOX platform training was often the main goal of these events, partners have used the opportunity to introduce the SHAREBOX project and generate interest. The events are described in D7.8 Training report.
3. Collaboration with other projects and initiatives

Collaboration with other European or national projects and initiatives is a valuable opportunity for exchanging ideas, findings and approaches and often leads to new insights in research and technology development. It is crucial to use these collaborations also for communication and dissemination purposes in order to inform each other about ongoing activities and to pave the way for further engagements.

3.1 Process Industries Promotion Initiative

The SHAREBOX consortium joined forces with ProPAT and IbD, two European funded SPIRE projects that address similar stakeholder communities. The projects founded the “Process Industries Promotion Initiative”, an initiative that wants to support a more efficient promotion of valuable research results from public funded research projects. The goal was to closely cooperate with other projects and to initiate a cross-project communication in order to improve the technology and knowledge transfer.

Figure 19: Flyer of joint initiative
The initiative was open for cooperation partners from other EU-funded projects, universities, research institutes and industrial and scientific associations, networks and clusters. Potential cooperation partners were invited via email and phone calls to join the initiative. Dedicated online forms for cooperating European research projects and organizations were developed and published online.

The coordinators of 44 relevant SPIRE and HORIZON2020 projects have been contacted via email and phone calls. The following 11 projects joined the Process Industries Promotion Initiative.

ADREM  www.spire2030.eu/adrem
Consens  www.consens-spire.eu
CoPro   www.spire2030.eu/copro
DISIRE  www.spire2030.eu/disire
FUDIPO  www.fudipo.eu
IbD     www.ibd-project.eu
iCspec  www.icspec.eu
imPACts www.k-pac.at
ProPAT  www.pro-pat.eu
Sharebox www.sharebox-project.eu
REslag  www.reslag.eu

Figure 20: List of cooperating projects

A newsletter of the joint initiative was sent to about 13,000 European experts from academia and industry in September 2016. A screenshot of the newsletter is shown in Figure 21.
Welcome to the first newsletter of the Process Industries Promotion Initiative – A brief insight into the European Process Industries by 3 industrial EU funded Research Projects!

It is our pleasure to introduce you our first newsletter of three public funded European projects – ProProT, SHAREBOX and 365 – bringing you information about the latest developments of innovative technologies and solutions, together with news of upcoming events and insights of European Process Industry community.

The initiative is open for cooperation partners. If you are representative of a publicly funded ongoing project, you are welcome to join the initiative. The initiative’s goal is to support the communication and dissemination activities of its cooperation partners.

Kind regards
Your publication team

**Cooperation Opportunity**

**Process Industries Promotion Initiative: Support us and benefit**

Let’s join forces. Together we will be more successful in promoting the results and activities of European and nationally funded projects. All the services offered by the initiative are completely free of charge. By supporting the initiative you will benefit from:

**Figure 21: Newsletter of Process Industries Promotion Initiative**
3.2. Organisation of joint events and other collaborative activities

EUROPACT 2017

EUROPACT is the European Conference on Process Analytics and Control Technology. The conference covered new technologies in process analytics, the implementation of these technologies in various fields and the transformation of data into knowledge. The event took place from May 10-12, 2017 in Potsdam, Germany. SHAREBOX together with five other SPIRE projects exhibited on the SPIRE group stand at EUROPACT 2017. The group stand was organized by DECHEMA. SHAREBOX presented project results and activities on the group stand.

![Joint SPIRE group stand with representatives from SHAREBOX, ProPAT, FUDIPO and CONSENS](image)

2017 EU PROCESS INDUSTRY CONFERENCE: A look to the future

SHAREBOX contributed to the 2017 EU PROCESS INDUSTRY CONFERENCE organized by the European Commission on 19 September 2017 in Brussels, being on one of 52 SPIRE projects to deliver a project pitch.

ACHEMA 2018

ACHEMA is the world forum and leading show for process industries:

- World forum for chemical engineering and the process industry
- Innovations' platform and technology summit
- Trend-setting meeting point
- Take-off for investment decisions
- International network of experts and executives
With DECHEMA being the organizer of ACHEMA, SHAREBOX used the opportunity to be present with a common SPIRE booth shared by many SPIRE project and by jointly organizing a workshop on Industrial Symbiosis under the lead of DECHEMA and CCB. The workshop took place on 13 June 2018. The programme can be found below:

**Workshop on Industrial Symbiosis -**

**Corporate success through effective resource management**

**13 June 2018, Room Logos/Genius, Hall 9.1 at ACHEMA, Frankfurt am Main, Germany**

In Europe’s process industry, the costs of raw materials and energy account for an average of 40% of total production costs - and they are rising twice as fast as personnel costs. Resource and energy efficiency are therefore key competencies for maintaining the competitiveness of European companies in the global market.

The EU-wide innovation network SPIRE has set itself the goal of substantially increasing resource and energy efficiency in the European process industry. New processes and technologies are developed and tested in numerous projects. One of these is the development of SHAREBOX, a web-based platform for the exchange of secondary raw materials and material and energy overhangs.

The international project consortium, consisting of software developers, research institutes, consulting companies and industry representatives, has broken new ground: Extensive databases are used to classify recyclable materials, and artificial intelligence processes support the matching of suitable partners and the negotiation process between them. The savings potential for the European Union through the use of SHAREBOX in the process industry is estimated to be at least 15 billion euros per year.

The workshop will show how Industrial Symbiosis can help companies to increase their resource efficiency without great effort for research and cross-checking. Furthermore the workshop will give a good overview on the results of four EU-funded projects working in the field of industrial symbiosis.
Program

Morning: Presentations and advice for companies from the Frankfurt region
10:30  Welcome notes
10:40  Industrial Symbiosis – An Overview
11:10  SHAREBOX – How SHAREBOX can help you to be more resource efficient
11:30  Discussion, individual advice in bilateral talks
12:30  Lunch

Afternoon: Presentation for all interested ACHEMA visitors
13:30  Industrial Symbiosis – An Overview
14:00  SHAREBOX – How SHAREBOX can help you to be more resource efficient
14:30  NEPIC – Industrial Symbiosis in the UK – a success story
15:00  Break
15:15  EPOS: development of a management toolbox and replicable business cases to enhance cross-sectorial industrial symbiosis
15:30  MAESTRI – Development of a flexible and scalable platform for managing resource efficiency improvement processes
15:45  FISSAC - Facilitating information exchange across the extended construction value chain
16:00  Panel discussion with all presenters
16:30  Wrap-up
16:45  End of workshop

Workshop “Industrial Symbiosis in Europe” at WRF 2019

At the World Resources Forum taking place in Antwerp on 25-26 February 2019, a workshop “Industrial Symbiosis in Europe” was organized as a side event under the lead of IRIS, supported by CCB, DEHEMA and UT. Nine European projects joined forces to show their innovative approaches to Industrial Symbiosis. The projects featured also a joint exhibition booth displaying information material and interactive tools as well as the possibility for networking.
Figure 23: Programme Flyer of Industrial Symbiosis Workshop
Figure 24: Impressions of Industrial Symbiosis Workshop and booth at WRF 2019