

CircLean Open Innovation Workshop

19 - 20 October 2022 - Troyes, France

The workshop was held on Wednesday 19 and Thursday 20 October 2022 at the Aube Congress Centre in Troyes in France.

The workshop took the shape of the active participation of the CircLean network in the main French event on Industrial Symbiosis, the Congrès Ressources, organised once every 2 years in Troyes.

This participation provided the opportunity to share experiences and knowledge regarding industrial symbiosis (IS) at EU level in connection with the French situation.

The event also provided the opportunity for French companies, business associations, public authorities, and R&I institutions to share views and suggestions on how to increase the uptake of IS nationally and at the EU level. The event was organised in cooperation with Club d'Ecologie Industrielle de l'Aube.

Highlights – Day one (19 October 2022)

Official opening of the Congress

- L. CLERGET, President of the Club d'Écologie Industrielle de l'Aube
- T. ROUESNÉ, Industrial decarbonation engineer for major accounts / EIT manager at ADEME's Industrial Department
- C. HOMEHR, Member of the Aube Departmental Council
- I. KAUFFMANN, Head of the Knowledge and Sustainable Development Department at the DREAL Grand Est

Opening round table “The diversity of Industrial Symbiosis approaches in Europe”

The round table was moderated by Samuel Sauvage, Project Director at Auxilia Conseil, and gathered:

- L. ZIBELL, Senior Consultant Circular Economy at Trinomics BV, representing the CircLean project
- J. KAIPAINEN, Senior Researcher, Business Studies, research and development in the University of Jyväskylä (Finland), member of the CircLean network
- F. FERRANDO CASANOVA, Head of Unit Programmes European Innovation and Climate Change Officer at IVACE (Spain)
- P. NEMES, Deputy CEO at Paper Province (Sweden), member of the CircLean network

The main topics being discussed were:

- The relevance of Industrial Symbiosis and Circular Economy against the backdrop of energy and resource scarcity;
- The EU policy context for Industrial Symbiosis (European Green Deal and Industrial Strategy) and the place of CircLean in this context;
- The main conclusions drawn from the previous Open Innovation Workshops of the CircLean network;
- The success stories of industrial symbiosis in the Paper Province and in Kokkola.

Pitches session

Speakers performed a total of 24 short pitches on specific issues of interest to Industrial Symbiosis, of which two were performed by L. ZIBELL (Trinomics) on the importance of using quality standards on the CircLean match-making platform to describe the resources made available. The narrative was based on considerations of economics theory on the effects of quality uncertainty on market transactions.

Round table discussion: “Sustainability of IS approaches in rural areas”

The round table was moderated by S. DERMINE-BRULLOT, Research Professor at the University of Technology of Troyes and gathered:

- R. LUBIN, Circular Economy Project Officer in the Grand Est Region
- C. LAURENT, Coordinator of the Réseau Rural Grand Est
- C. DERAÏL, Project Manager at Nymphéa & EIT Auvergne Rhône-Alpes Manager
- V. BAUDON, EIT Manager at Recto Verso 79

The main issue being discussed was that of the financing of Industrial Symbiosis facilitation in low-density rural areas. The testimonials of good practices illustrated that a robust model was that of a

mixed financing, blending membership fees with public subsidies, from regional or municipal authorities and from the French environmental agency Ademe.

Inspiring closing lecture: "The geopolitics of resources"

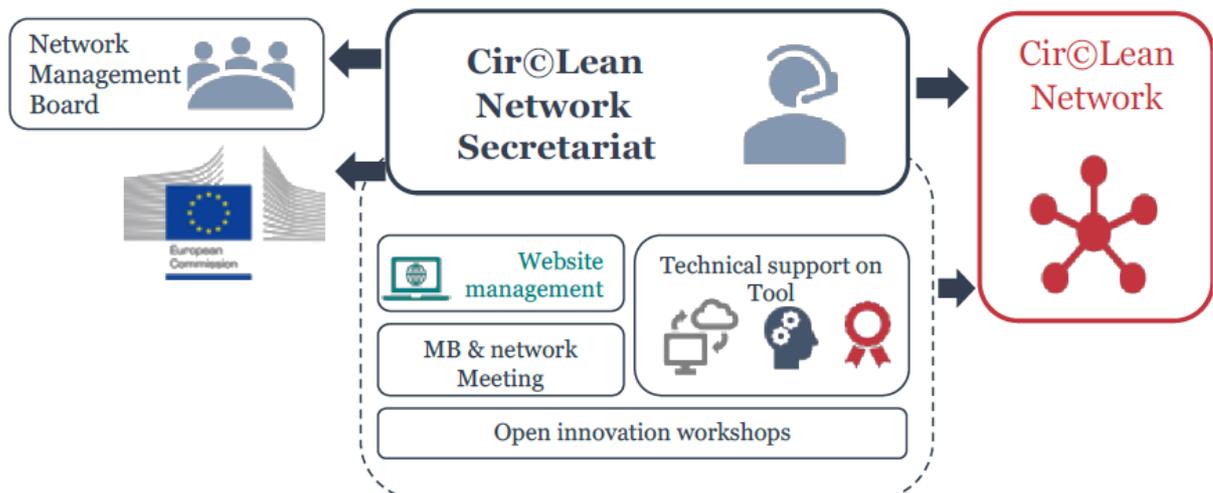
Pierre HASKI, Journalist & President of Reporters Without Borders, informed about the long-term strategy of China to secure the access to the raw materials that it needs to feed its industrial powerhouse.

Highlights – Day two (20 October 2022)

The second day of the event was dedicated to a set of parallel sessions:

- An exhibition forum of 17 technical and commercial ‘solution providers’ on Industrial Symbiosis, among which the CircLean network, each presented at an individual booth for one-to-one discussions with participants in the event, from 08:00 hours to 17:00 hours. This was the opportunity for the representative of the CircLean consortium to present in detail the Self-Assessment Tool, the Matching Tool and the reporting framework;
- A site visit of the ‘*Chanvrière de l’Aube*’, a regional centre for the processing and bio-refinery of hemp;
- A set of 4 sector-specific workshops, on:
 - Plastics;
 - Construction materials;
 - Material libraries;
 - Pooled energy purchasing.

CircLean Governance



How to join CircLean in 3 easy steps

Step 1: Express your interest by sending a **signed Letter of Intent** to the CircLean Secretariat at circlean.project@technopolis-group.com

Step 2: Fill in the **Membership Application Form** including information on experience with industrial symbiosis and related activities.

Step 3: Sign the **Network Charter/Code of Conduct** which includes mutual respect, integrity-based relationships among members, etc. More information is available [here](#).

Frequently Asked Questions (FAQ)

- ✓ **What will happen to the CircLean network after the end of the funded coming from the European Commission in October 2022?**

The CircLean network was designed with the ambition to become self-sustainable after the three years of EU funding. There are ongoing discussions with the members of the network that will be intensified in the coming months regarding this aspect, as the continuation of the network depends on the engagement of its members. The European Commission and the consortium implementing the CircLean project are supporting this process. The CircLean website and toolbox will remain online for one year after project end.

- ✓ **What are the benefits for my company/organisation in joining the CircLean network?**

Getting free access to an EU endorsed industry-led community of peers equipped with robust tools to discover, engage in, monitor and report about industrial symbiosis transactions across the EU, i.e., a self-assessment module, a matching tool to identify suitable opportunities for IS transactions, a common reporting methodology, and a EU label. Opportunity to share views and suggestions for the Commission to increase the uptake of industrial symbiosis in the EU.

- ✓ **What are the benefits for my company/organisation to engage in industrial symbiosis?**

Reducing cost: Decreasing costs associated with inputs to production and waste disposal improves profitability and competitiveness.

Fostering innovation: Industrial symbiosis produces a demand-pull on innovation as industry identifies novel uses for underutilised resources. The OECD and UNEP identify industrial symbiosis as supporting eco-innovation.

Increasing revenue and competitiveness through diversification: Creating new business opportunities to sell what used to be a 'waste', thus converting the cost of waste management and disposal into a revenue opportunity.

Mitigating resource risk: Finding alternatives to traditional inputs, often outside the usual sector boundaries, decreases reliance on critical materials.

Creating jobs and encouraging entrepreneurs and new business start-ups.

Reducing emissions and contributing to climate neutrality targets.

- ✓ **To what do I commit by agreeing to become a member of the CircLean network?**

CircLean is a voluntary network and by joining it you only commit to respecting the CircLean Charter/Code of Conduct. Your active participation and contribution will be appreciated. Membership is free of charges.

- ✓ **Will I have any benefit if I follow the CircLean voluntary reporting methodology? When will it be developed?**

The protocol for the voluntary reporting methodology is ready. The main benefit associated to its implementation is the award of the EU CircLean label. The label will not only help businesses to participate in communicating their sustainability efforts, but will also signal that they are trustworthy partners to other operators.

- ✓ **Who holds the copyright of the Self-assessment module and the Online matching tool?**

The European Commission holds those rights.

Other resources on IS

- [European Resource Efficiency Knowledge Centre](#)
- EC, [Cooperation fostering industrial symbiosis: market potential, good practice and policy actions, 2018](#)
- [Industrial Symbiosis in the Baltic Sea Region, Nordregio Policy Brief](#)
- [FISSAC Project](#)
- [Guidelines on how to capitalise GPP as an enabler of industrial symbiosis](#), SYMBI project
- Interreg Europe Policy Learning Platform, [Policy brief on industrial symbiosis](#)
- Interreg Europe Policy Learning Platform, [Policy brief on circular economy business models](#)
- Interreg Europe Policy Learning Platform's [webinar](#) on circular economy business models

PROGRAMME

WEDNESDAY 19 OCTOBER 2022

/ FROM 09.15 TO 10.00 / Welcome of the participants, Coffee and exchanges

/ FROM 10.00 TO 10.30 / Official opening of the Congress by

- L. CLERGET, President of the Club d'Écologie Industrielle de l'Aube
- T. ROUESNÉ, Industrial decarbonation engineer for major accounts / EIT manager at ADEME's Industrial Department
- C. HOMEHR, Member of the Departmental Council of the Aube
- I. KAUFFMANN, Head of the Knowledge and Sustainable Development Department at the DREAL Grand Est

/ From 10:30 to 12:00 / Opening round table of the guest of honour, moderated by S. SAUVAGE, Project Director at Auxilia Conseil: The diversity of TIS approaches in Europe:

- L. ZIBELL, Senior Consultant Circular Economy at Trinomics BV
- J. KAIPAINEN, Senior Researcher, Business Studies, research and development in the University of Jyväskylä
- F. FERRANDO CASANOVA, Head of Unit Programmes European Innovation and Climate Change Officer at IVACE
- P. NEMES, Deputy CEO at Paper Province

/ 12:00 - 13:30 / Lunch, meal and discussion

/ 1:30 - 3:00 pm / Nugget Pitch :

6 sessions will be held every 15 minutes in parallel on 4 dedicated spaces, i.e. 24 pitches at your disposal:

- / 1.30 - 1.45 pm / First session
- S. JEANNEROD, Orée
 - J. CLAUDE, Sustainable Initiatives
 - A. RAMEY, SymbioScope
 - L. ZIBELL, Trinomics BV

/ 1.45 - 2.00 pm / Second session

- V. TORDEUR, CCI Hauts de France - REV3
- E. BROUSSIN, Sustainable Initiatives
- F. HALL, Pays Thur Doller
- C. LOMBARD, AlgoSource Technologies

/ 14.00 - 14.15 / Third session

- T. PFEIFFER, City of Roubaix
- P. LOHEZIC, ADECC
- M. GRULET, CECOIA
- O. HERVÉ-BAZIN, Eurometropole of Strasbourg

/ 2.15 - 2.30 pm / Fourth session

- M.-L. UROSEVIC, Department of Seine-Maritime
- P. LEMARCHAND, Industrial Ecology Club of Aube
- B. GAUTHEROT, Keepfil Corporation
- V. L'HARIDON, G4DEC

/ 2.30 - 2.45 pm / Fifth session

- C. FELZINE, Coopelis
- A. DERIVE, BIOTOP
- M. GABARD, Pays de Pouzauges and St Fulgent- Les Essarts
- O. HERVÉ-BAZIN, Eurometropole of Strasbourg

/ 2.45 - 3.00 pm / Session 6

- S. JEANNEROD, Orée
- J. CLAUDE, Sustainable Initiatives
- A. VICTOR, ADEME Occitanie
- L. ZIBELL, Trinomics BV

/ FROM 3:00 TO 3:15 PM / Break

/ 3.15pm - 4.45pm / Round table discussion led by S. DER-MINE-BRULLOT, Research Professor at the University of Technology of Troyes: Sustainability of TIS approaches in rural areas:

- R. LUBIN, Circular Economy Project Officer in the Grand Est Region
- C. LAURENT, Coordinator of the Réseau Rural Grand Est
- C. DERAÏL, Project Manager at NymphéA & EIT Auvergne Rhône-Alpes Manager
- V. BAUDON, EIT Manager at Recto Verso 79

/ 16.45 - 17.15 / Break

/ 17.15 - 18.30 / Inspiring closing lecture: "The geopolitics of resources", by Pierre HASKI, Journalist & President of Reporters Without Borders

/ FROM 6.30 TO 8.00 pm / Free time

/ From 20:00 to 23:30 / Gala dinner, cocktail, meal and exchanges in the Salle des fêtes of the Hôtel de Ville de Troyes

• Representative of Troyes Champagne Métropole

THURSDAY 20 OCTOBER 2022

Delegates are divided into four tracks chosen at the time of registration.

Thus, each delegate will participate in 2 sub-group workshops, the tour and the Solution Providers Forum, according to the following distribution:

/ FROM 08:00 TO 08:30 / Welcome of the participants, Coffee and exchanges

/ FROM 08:30 TO 10:00 /

Route 1: Visit to La Chanvrière de l'Aube

Route 2: Workshop A

Course 3: Solutions Forum

Route 4: Workshop C

/ 10:00 - 10:30 am / Break

/ FROM 10.30 A.M. TO 12.00 P.M. /

Route 1: Workshop B

Route 2: Visit to La Chanvrière de l'Aube

Route 3: Workshop A

Course 4: Solutions Forum

/ 12:00 - 13:30 / Lunch, meal and discussion

/ FROM 1.30 TO 3.00 PM /

Course 1: Solutions Forum

Route 2: Workshop C

Route 3: Visit to La Chanvrière de l'Aube

Route 4: Workshop D

/ FROM 3:00 TO 3:30 PM / Break

/ FROM 3:30 TO 5:00 P.M. /

Route 1: Workshop D

Course 2: Solutions Forum

Route 3: Workshop B

Route 4: Visit to La Chanvrière de l'Aube

/ 5:00 PM - 5:30 PM / Closing of the event

Speeches, cocktail and discussions

/ SOLUTION PROVIDER FORUM /

You will have the opportunity to meet design offices, training organisations, digital tools developers, companies and/or local authorities with an innovative approach to materials, etc. Stroll among the stands of the 17 structures present, they have solutions to offer you!

A space will also be available for you to discover and get closer to EIT approaches in France.

List of exhibitors : AMULIS, ARTEMISE, BU-SINESS SUD CHAMPAGNE, CCI OCCITANIE (ACTIVE), CERIB, CIRCLEAN, CYRKL, EDF, ELCIMÁI ENVIRONNEMENT, ELISE, REPLACE PLASTICS, S3D INGÉNIERIE, SEITISS, TEHOP, TY WASTE, UNIVERSITÉ DE TECHNOLOGIE DE TROYES, VEOLIA.

/ VISIT OF THE CHANVRIERE DE L'AUBE /

"Towards a territorial hemp biorefinery

- B. SAVOURAT, President of the Chanvrière de l'Aube
- P. MORTOIRE, General Manager of La Chanvrière de l'Aube
- E. DELANGLE, Project Manager "European Pole of hemp" at the Collectif 3C Grand Est
- G. LANNOU, Director of the Aube Industrial Ecology Club

/ WORKSHOPS IN SUB-GROUPS /

Workshop A: "Plastic resources (context, regulations, inspiring feedback, etc.)", led by T. MERLIER, Circular Economy Project Manager and transition at Auxilia Conseil and co-animator of the SYNAPSE Network:

- T. WILLEMART, Policy Officer circular economy at Polyvia
- Y. FREMY, Director General & Vice President of ECHOGESTES
- L. VILLEMEN, Co-founder & President of REPLACE



Workshop B: "Building and public works resources (context, regulations, inspiring feedback, etc.)", led by S. FEUGA, Director of Envirobat Grand Est:

- S. CANAC, Circular Economy Officer the Syndicat du Bois de l'Aumône (SBA)
- J. AUVRAY, Circular Economy Engineer at CERIB
- B. COURTEJAIRE, Coordinator of the Synergies Inter-Entreprise programme of Prével Haut-Doubs
- V. L'HARIDON, Coordinator of G4DEC

Workshop C: "Recycling centres, material libraries and professional waste disposal sites", led by B. DURET, Director of Mydiane and co-leader of the SYNAPSE network:

- D. NORMANT, Vice-President of La Casote
- C. DELASSAUX, Head of the Territorial Innovation and SSE Unit of the Épinal Urban Area
- G. LANNOU, Director of the Industrial Ecology Club of the Aube
- E. LEMOINE, President of the REMISE association



Workshop D: "Grouped energy purchasing actions, energy recovery & renewable energy projects" This event will be led by C. DERAÏL, Director of NymphéA & EIT Auvergne Rhône-Alpes Ambassador:

- J. BRUNIER, EIT Project Manager ZIRI in Bordeaux Technowest
- A. DERIVE, Director & founder of BIOTOP
- V. BAUDON, EIT Manager at Recto Verso 79