



# IECO DAYS

Welcome to our SCIENCE DAY!

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Institute of Regional Science, KIT

October 2021



# IECO Days 2021

## Program short overview

5-6 October, 10-12 hrs Chile / 15-17 hrs DE

DAY	ACTIVITIES OF THE DAY
Tue 05. October <b>INNOVATION DAY!</b>	<p>I. Inauguration and Welcome by Prof. Thomas Hirth, Vice-President for Innovation and International Affairs of KIT.</p> <p>I. Parallel sessions:</p> <ul style="list-style-type: none"><li>□ <b>Start-up block:</b> share&amp;learn activities with Start-Ups from Germany and Chile</li><li>□ <b>“Green Hydrogen Technologies”:</b> keynote speech, presentations of IECO Universities and roundtable discussion with distinguished guests.</li></ul>
Wed 06. October <b>SCIENCE DAY!</b>	<p>I. General session with the latest news and information about IECO activities.</p> <p>II. Parallel Topic Sessions:</p> <p><b>T1 – Sustainable Usage of Water and Energy in an Urban Context</b> <b>T2 – Sustainable Material and Energy Transformation of Biomass</b> <i>* T3 – Eco-Industrial Utilization of Resources from the Subsurface</i> <b>T4 – Urban Eco-Industrial Development in South-America</b> <i>* T5 – Sustainable Land Use</i> <i>* Private sessions, for Topic Teams only.</i></p>

Full program description with the names of all our guests under:

<https://ieco-institute.com/events.html>

# GENERAL SESSION „IECO HIGHLIGHTS“



- I. Express-introduction to IECO (for all newcomers)
- II. IECO Edited Volume
- III. Lectures series
- IV. IECO Summer School
- V. Alumni Seminar (KIT-IECO)
- VI. Further highlights

# Express-introduction to IECO for newcomers



# IECO



## WHAT IS IT?

The virtual **Institute of Eco-Industrial Development - IECO**, facilitates the **creation and structuring of** multidisciplinary and transnational networks. As an institute composed by members of four universities, its objective is to carry out joint **research, teaching and innovation** on topics of **industrial ecology and industrial sustainability**.

The **implementing universities** are:

- Karlsruhe Institute of Technology
- University of Chile
- Austral University of Chile
- University of Concepción



**Partners:** SOFOFA Hub, IUSLatam, Fraunhofer Chile, KIT Alumni Club Chile

**Cooperation with strategic stakeholders** such as: DAAD, ANID, CORFO, ProChile, CAMCHAL, German and Chilean embassies as well as actors from private sector.

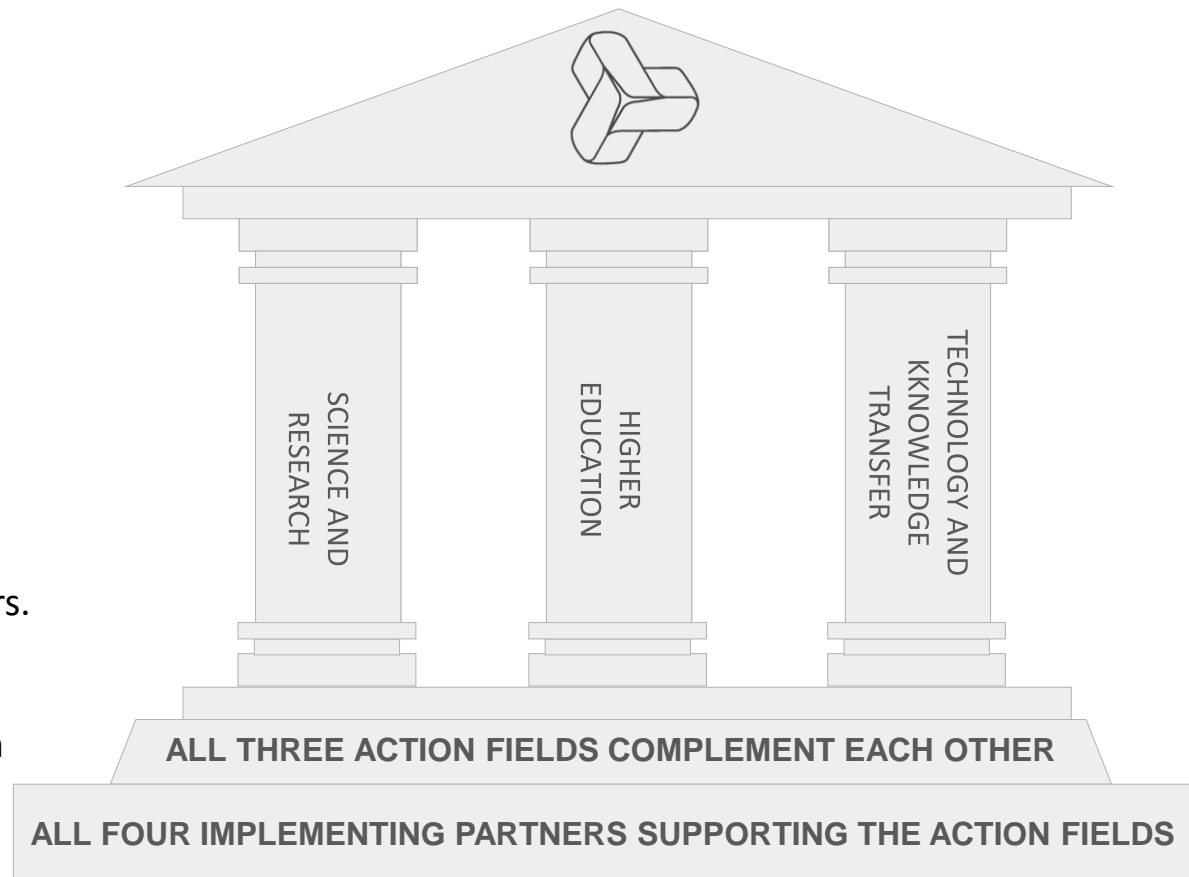
IECO is based on a long history of cooperation between KIT and its Chilean partners (Chile is a strategic partner country of KIT) and draws on the expertise of more than 30 individual research institutions with funds from the Federal Ministry of Education and Research (BMBF).

# IECO

## Three action fields

The aim is to create and support multidisciplinary and transnational networks for the collaboration on Eco-Industrial development topics in three fields of action:

- **SCIENCE AND RESEARCH:** publications, research projects, individual research proposals and major joint applications.
- **HIGHER EDUCATION:** postgraduate joint lectures, co-tutelles, student's exchange, joint academic offers.
- **TECHNOLOGY AND KNOWLEDGE TRANSFER:** collaboration with the industry, innovation platform for entrepreneurship.



# IECO

## Thematic areas

The implementing partners have defined **five thematic areas (topics)**, each led by a team of **German-Chilean topic spokesperson**, and strive to generate **joint projects under IECO's thematic umbrella** in the action fields of **research, teaching and innovation**



**Topic 1: Sustainable use of water and energy in urban areas**

Dr. W. Poganietz (KIT) &  
Dr. C. Sepulveda (UACH)



**Topic 2: Sustainable material and energy use of biomass**

Prof. F. Schultmann (KIT) &  
Dr. A. Berg (UdeC)



**Topic 3: Eco-industrial use of subsoil resources**

Prof. E. Schill (KIT) &  
Prof. D. Morata (UCH)



**Topic 4: Urban eco-industrial development in South America**

Prof. R. Vallebuona (KIT) &  
Dr. L. Agurto (UACH)



**Topic 5: Land use and industrial sustainability**

Prof. A. Braun (KIT) &  
Dr. Daniela Manushevich (UCH)

Details about the Topics Spokespersons and about the main focus of the work on each topic in the IECO Website:

<https://ieco-institute.com/topics.html>

# IECO Coordination Team

## Supporting the network and joint actions

### Coordinators at each university

KIT



Dr. Gabriela Espinosa

UACH



Dr. Lorenzo Reyes

UdeC



Dr. Alex Berg

UChile



Dr. Luis Vargas



Andrea Pino



Dr. Alejandra Stehr

### International Affairs (KIT)



Irma Mantilla



Pascale Kohler



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## IECO ACTIONS: HIGHLIGHTS



# IECO Edited Volume



## Eco-Industrial Development as an industrial strategy – Contributions from a German-Chilean Research Cooperation

Editors: Braun, A., Espinosa, G., [\*Topic Spokespersons\*], Hirth, T.

### General book structure

**Part A: Introductory concepts of Eco-Industrial Development**

**Part B-F: IECO Topics I-V**

- Chapter X.1.: Introductory Text
- Chapter X.2 bis X.4: Case studies from Germany and Chile
- Chapter X.5: Summary and Future Perspectives

**Part G: General Summary**

**Author teams from all IECO universities and a total of 40 contributions**

**Book presents insights of our research and collaboration agenda within the topics and is a resource for joint teaching**

**Publication aimed in winter 2021-2022, to be placed in Springer's "Green Energy and Technology" series**

# International lecture series

WINTER SEMESTER 2021-2022

The KIT [Institute of Regional Science](#), in collaboration with [CuKnow](#) and [IECO](#), holds an international (virtual) lecture series in winter semester 2021/22:

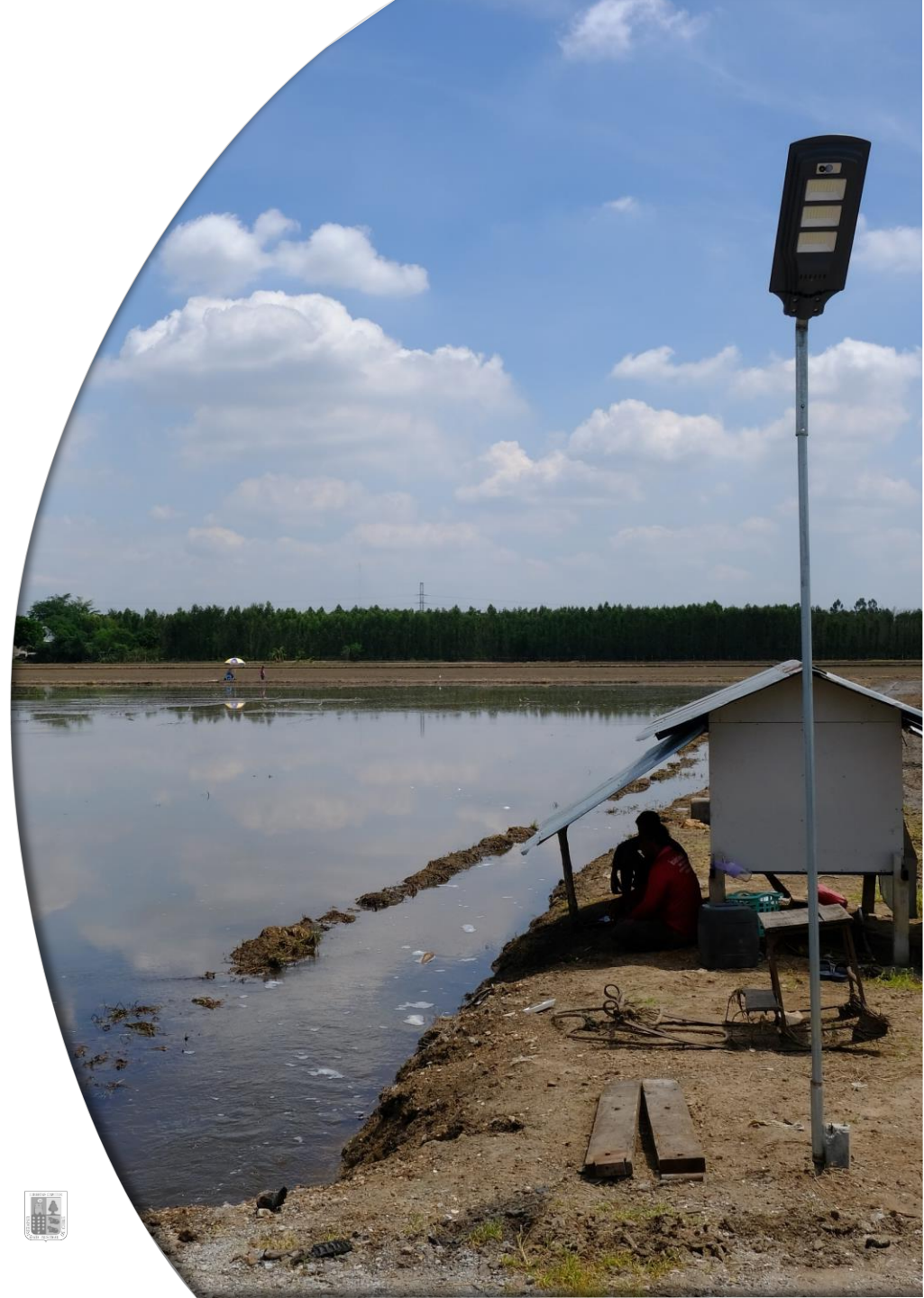
## Critical Perspectives and Contending Concepts of Sustainability

International experts will **discuss and deconstruct the concept of sustainability**, and present **alternative perspectives** to work towards a **more comprehensive understanding of sustainability** and sustainable development.

The virtual lecture series is open to all interested (advanced) students, PhD students, postdocs and researchers.

More details:

[https://www.ifr.kit.edu/lecture\\_series\\_sustainability.php](https://www.ifr.kit.edu/lecture_series_sustainability.php)



# IECO Summer School 2021 (2022!)

## Financially supported by DAAD

1 week Summer School in Chile (Valdivia, hosted by UACH):

- Lectures on all IECO Topics
- Entrepreneurship elements linked to Eco-Industrial findings
- Excursions to relevant project sites
- Hands-on sessions
- Cultural events

Open to advanced graduate students of the IECO Universities (Master and PhD)

☹️ Due to COVID it had to be canceled in the originally planned format for November 2021.

😊 We are working on a **reduced hybrid/virtual format** in 2021: expect news in the coming weeks.

😊 Re-application to DAAD to realize full format in 2022: expect news soon!



# KIT Alumni Seminar in collaboration with IECO

To be planned for end of 2021

Originally planned to be held in Santiago de Chile as a 3-day seminar

Travel restrictions in Chile are still in place.

- A **virtual event** will be planned with the **Alumni Club Chile** for the end of this year
- KIT experts and KIT Alumni will share and discuss current projects/activities

News will be posted on IECO website. Stay tuned!

<https://ieco-institute.com/news.html>



## Further highlights

- **International Excellence Grant:** To support our strategic cooperation. A Chilean researcher from the UCh received this grant for a 3-month stay at KIT and collaborate in IECO topics.
- **Research stays** of students from the UdeC and UACH thanks to IECO facilitation for the Baden-Württemberg Foundation Scholarships
- **EXPONOR Chile 2022:** Germany as guest country with IECO in the Task Force for German portrayal together with further selected organisations
- Actions and highlights from within the Topics: Right after this general session in the TOPIC sessions
- Intensified collaboration with **IECO Partners** to be expected in 2022: Fraunhofer Chile, SOFOFA Hub, IUSLatam, KIT alumni Club Chile.

**Register to our IECO Newsletter to stay informed and contact the coordination teams with your ideas and enquiries.**





Join the community and  
shape IECO with us !

[www.ieco-institute.com](http://www.ieco-institute.com)

