

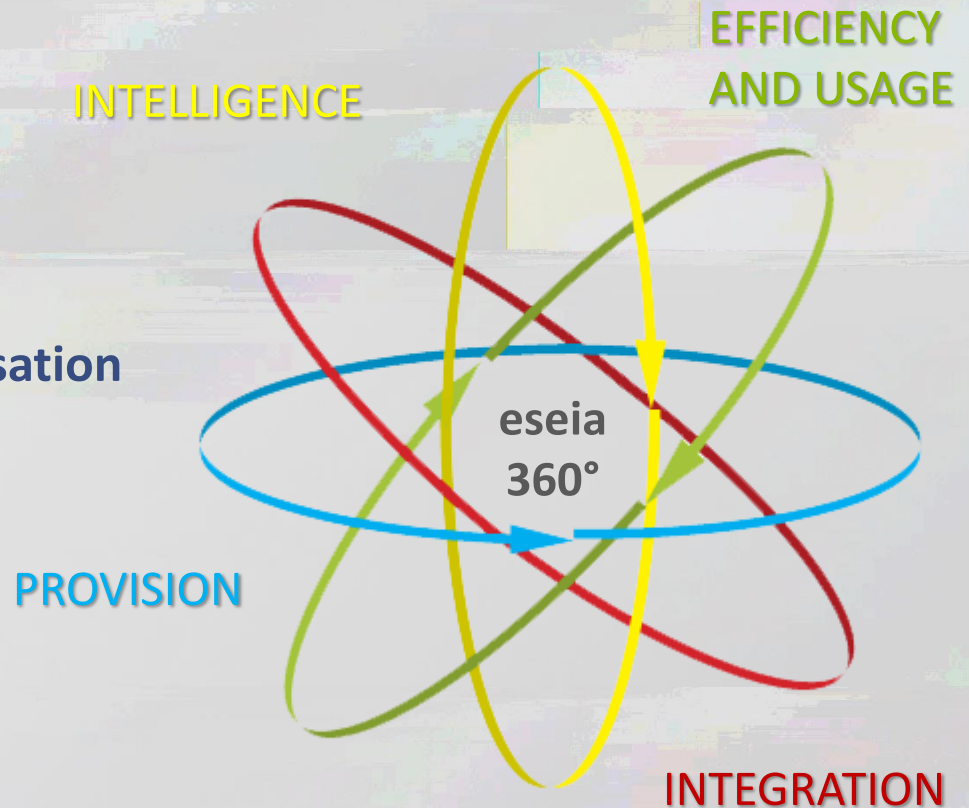
The European Sustainable Energy Innovation Alliance - eseia

*"Mit einem starken, internationalen Netzwerk
voller Energie zum Erfolgsantrag!,,*

22 September 2015



1. About eseia
2. eseia Strategy
3. Factors of Success in H2020
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About eseia

The European Sustainable Energy Innovation Alliance

eseia is a European non-profit association of leading research and innovation organisations in sustainable energy including **27 members** from **15 different** European countries.

The eseia umbrella covers **all relevant fields in sustainable energy** from energy provision to new technologies across research, academia, industry, and government.



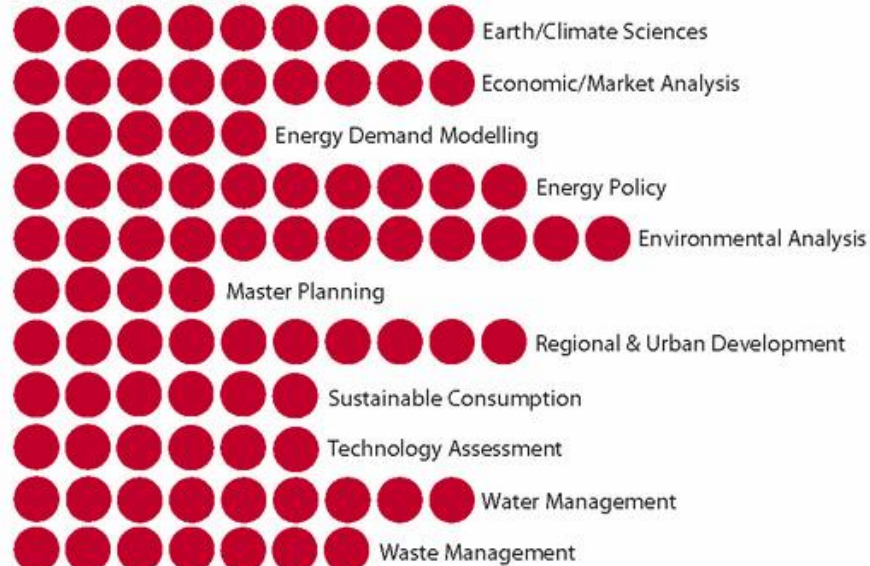
eseia Matrix

eseia's platforms & field of expertise

ENERGY INTELLIGENCE



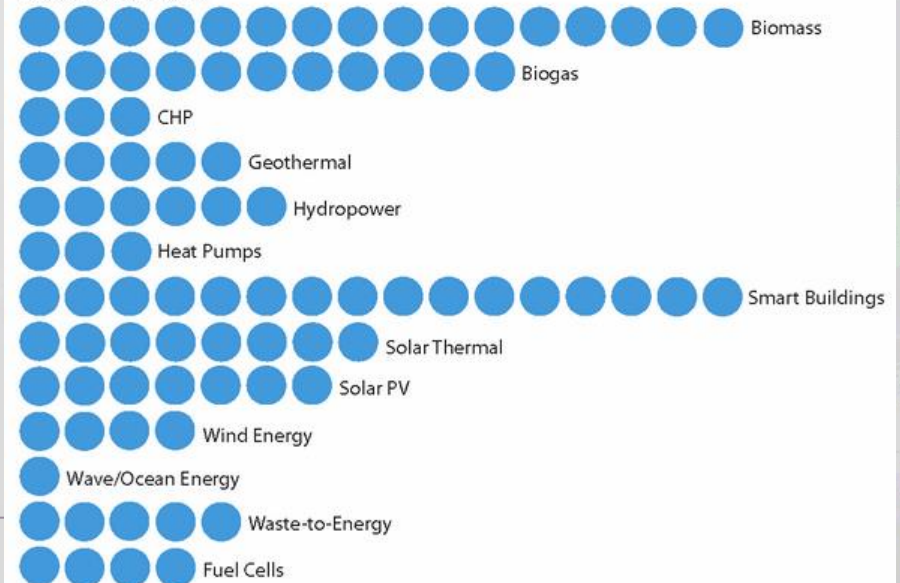
ENERGY INTEGRATION



ENERGY EFFICIENCY & USAGE



ENERGY PROVISION



*“eseia is the premier European Address
for
Renewable Energy Innovation”*

1. To set the agenda for future **energy innovation** in Europe
2. To accomplish excellence in **capacity building**
3. To increase the relevance of the Alliance as a European **international organisation**



Excellence

Setting the agenda for future energy innovation in Europe: eseia experts bring their knowledge to discuss the necessary innovations focusing on the **EC SET plan**, Key Enabling Technologies (KETs), bioresources, smart building as well as the changes necessary to the **European education system**.

Current Project:

BioEnergyTrain: The project brings together **15 partners** from **six EU countries** in Consortium of HEIs, research centres, professional associations, and industry encompassing the whole value chain of bioenergy.

Implementation of two European Master Curriculum:

- Biorefinery Engineer
- Bioresource Value Chain Manager

Coordinator: eseia





Funding: H2020-LCE-2014-2: Call for competitive low-carbon energy

Topic: The human factor in the energy system

Period: 48 months, 2015 – 2019

Volume: 3,7 Mio EUR

Coordinator: eseia

Objectives:

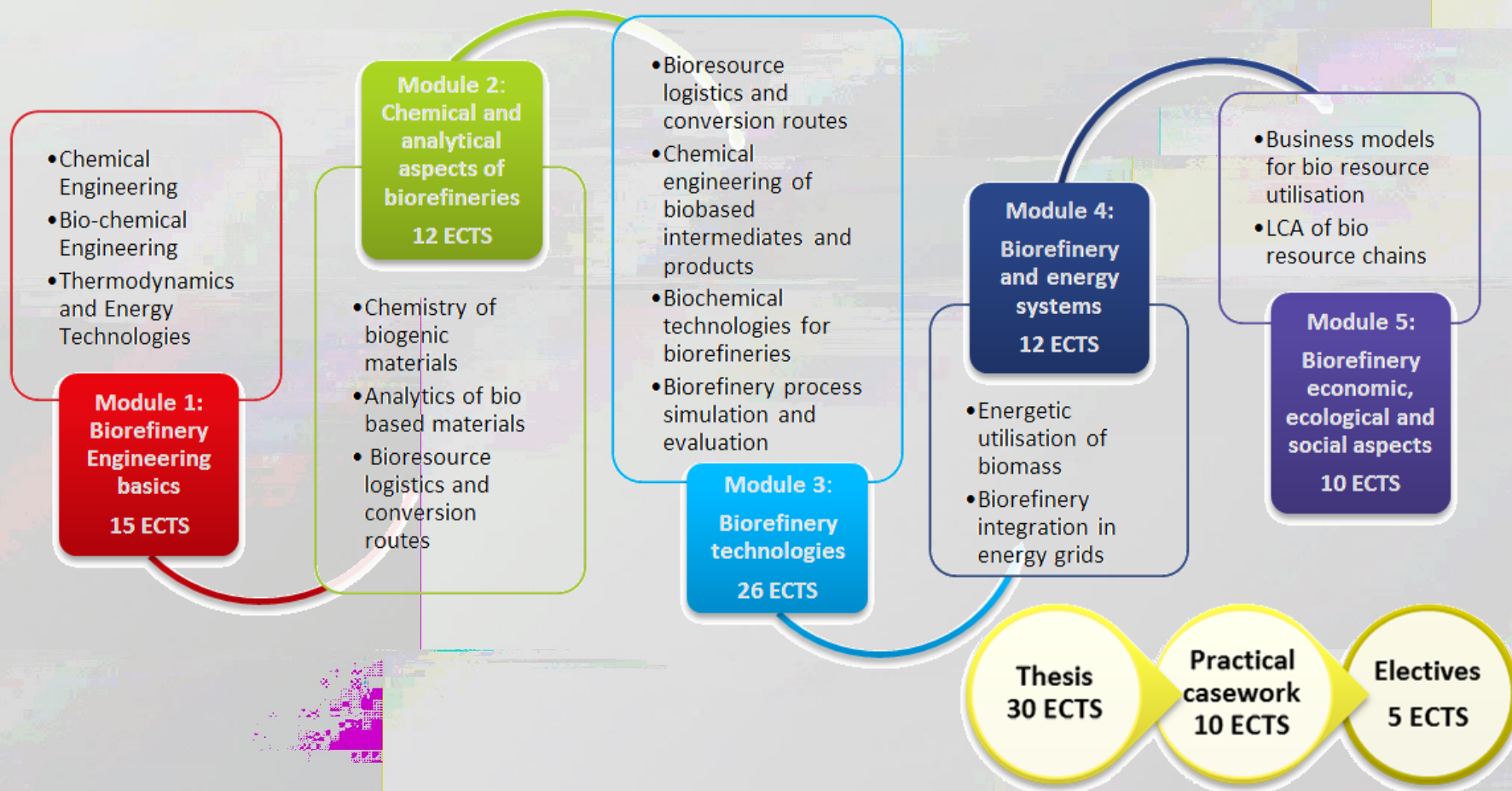
- Two New post-graduate level curricula, namely the Biorefinery Engineer and the Bioresource Value Chain Manager;
- A Network of tertiary education institutions, research centers, professional associations, and industry stakeholders encompassing the whole value chain of bioenergy.

Addressing European needs for jobs and growth:

- more skilled and innovative workforce across the whole bioenergy value chain
- practical education integrating industry needs
- bridging the gap between European stakeholders from all levels and sectors

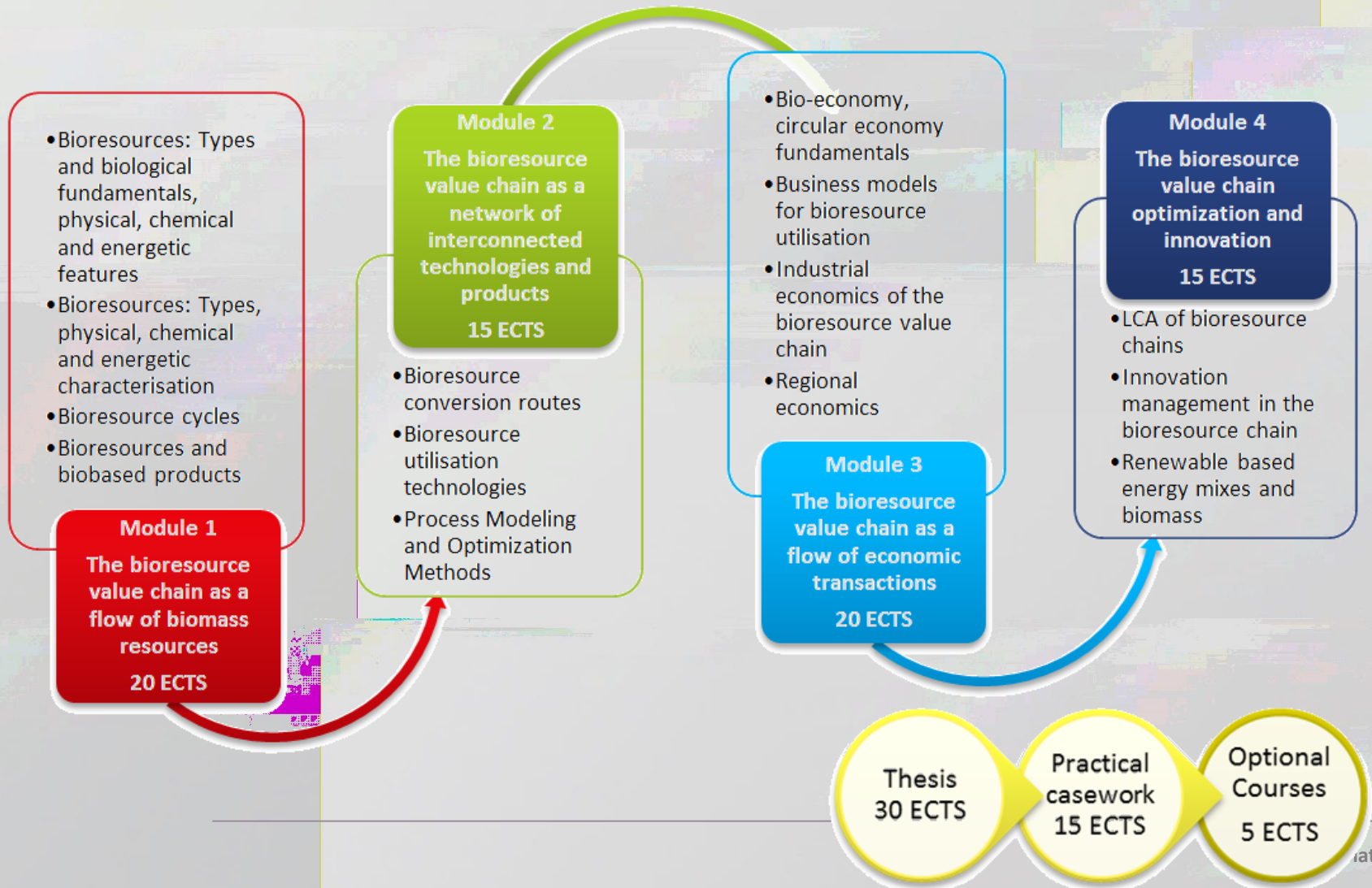
Master in Biorefinery Engineer

TU Graz pilot implementation



Master in Bioresource Value Chain

Utwente pilot implementation



Capacity Building

In order **to accomplish excellence in capacity building**, tailored to the needs and expectations of all stakeholders eseia continued to develop its **Education and Training Programme**. eseia international summer schools, international professional training courses, staff exchanges, twinning exercises, and brokerage events were offered in Europe and abroad.

Current Projects:

SUPREME: Address networking gaps between research institutions of the low performing Member States and Regions and internationally leading counterparts at EU level.

Coordinator: Polish Academy of Science

RISE like a Phoenix: Research and Innovation Staff Exchange linking key actors in academia, business and the public sector to develop and improve innovative solutions for bio-economy based on non-conventional bio-resources.

Coordinator: eseia

SuPREM 



SuPREME

TWINNING FOR A SUSTAINABLE, PROACTIVE RESEARCH PARTNERSHIP IN DISTRIBUTED ENERGY SYSTEMS PLANNING, MODELLING AND MANAGEMENT

Funding: Horizon 2020 LCE 20 – 2014: Call for competitive low-carbon energy

Objective: Twinning for knowledge transfer in integrating energy technologies to create a long lasting and effective partnership that will have a very significant impact on Poland's energy systems infrastructure.

Period: 36 months, 2016-2018

Volume: 1 047 551 EUR

Coordinator: Polish Academy of Science, The Szewalski Institute of Fluid Flow Machinery



- Energy systems scenario design and simulation
- Integration of building level and community level
- Experimental set-up and the operation
- Advanced energy systems analysis
- Electrical control methods
- Test bed facilities

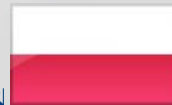


- Knowledge transfer and Connecting IMP-PAN with RES stakeholders
- Providing networking access to its entire membership expert base

UNIVERSITY OF TWENTE.



- Transition Management and Legal Issues
- Building Collaboration in Energy Research Evaluation of Energy Technologies
 - Human-Technology Systems.
 - ICT control for Smart Grids



Twinning one of Poland's best energy research centres, the Instytut Maszyn Przepływowych Im Roberta Szwalskiego Polskiej Akademii Nauk with needed expertise for excelling in Integrated energy management systems

Phoenix

PEOPLE FOR THE EUROPEAN BIO-ENERGY MIX

Funding: H2020-MSCA-RISE-2015 Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE)

Topic: Promotion of international and inter-sector collaboration through research and innovation staff exchanges, and sharing of knowledge and ideas from research to market.

Period: 4 years, 2015-2019

Volume: € 1 377 000 EUR

Coordinator: eseia



Bring together **6** of Europe's key players from academia, **6** business partners and **2** international research partners to develop and improve innovative solutions for a European bio-economy based on **non-conventional bio-resources** using targeted staff exchanges and joint **innovation and training** activities.

The Phoenix project will set up secondments for a total of **62 researchers** from **11 countries** covering **306 PMs**, of which two-thirds are cross-sectorial and one-third are international.

Internationalisation

In order **to increase the relevance** of the Alliance as a European international organisation, eseia forged new **international strategic partnerships**.

eseia participate in capacity building activities in the Eastern Partnership countries of Armenia, Belarus, Georgia, and Moldova in the framework of the EC FP7 INCO ENEr2i project.

In addition, eseia established a partnership base with emerging and energy influential economies of China and India.

Current Project:

Ener2i: Energy Research and Innovation

Reinforces cooperation with Eastern Partnership countries on bridging the gap between energy research and energy innovation

Coordinator: ZSI



Ener2i

RESEARCH TO INNOVATION

Funding: FP7

Topic: Energy to Innovation - Reinforcing cooperation with ENP countries on bridging the gap between energy research and energy innovation

Period: 36 Months, 2013 –2016

Volume: 1 Mio. EUR

Coordinator: Centre For Social Innovation



Expected Impact

- **4 reports** on the research and innovation landscape and on players in EE/RES in EaP countries
- **4 local brokerages in EaP countries** and **4 brokerages in EU countries**
- **8 training workshops** on various aspects of innovation
- **Staff exchanges/study visits** – 24 experts exchanged in the frame of a twinning scheme
- **24 innovation vouchers**, allocated to start-ups and businesses in the EaP countries



Factors of success

1. Brussels Presence
2. Strong full innovation cycle partnership
3. Perseverance over time



H2020 Professional Proposals

Do's

- Present an Innovative idea
- Rely on a strong existing network
- Strong and committed anchor persons
- Good Methodology: Do the finances first, including overheads
- Good Communication
- Leadership
- Pay attention to the details
- Understand the EC Evaluation system and requirements
- Create a balanced consortium with relevant, engaged and necessary actors

Don'ts

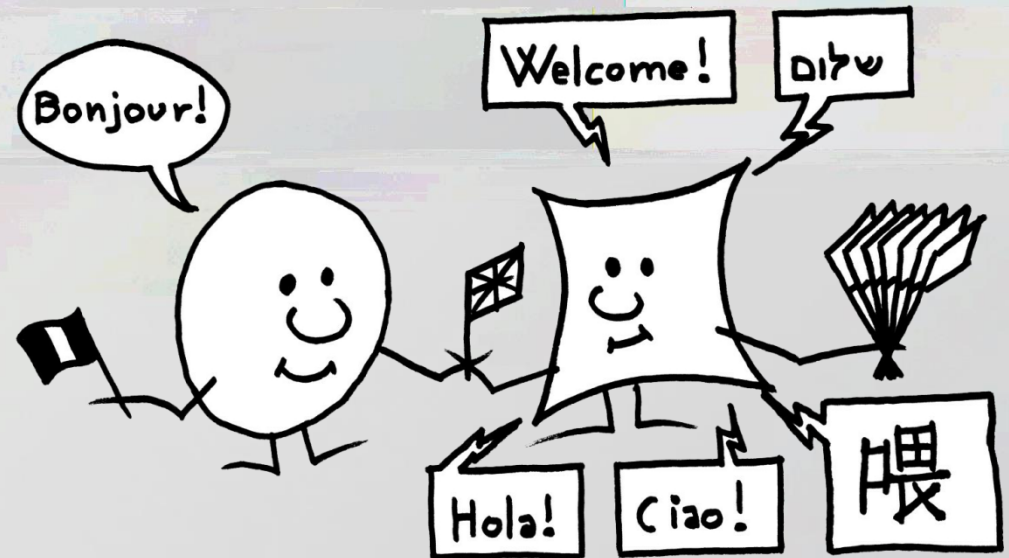
- Retrofit an old, failed proposal for another call
- Be vague or unclear
- Promises unrealistic or unspecific outcomes
- Underestimate your explanation concerning methodology, solutions, or implementation
- Assume too much background knowledge from the reviewers
- Rely on your server!
- Change your consortium composition at the last minute

Added Value

The Added value of Internationalisation

Examples:

- Intercultural dialogue
- Sharing best practices
- Development of Competencies
- Transfer of knowledge
- Exploitation of Results
- Correcting competences in a system view
- Networking, Knowledge transfer and Collaboration
- Research and Innovation
- Strategic alliances
- Competitiveness Improvement
- Quality label



Services

1. Coordination of large scale proposal preparation and management, from consortium building, brokerage and call intelligence to submission support and management;
2. Involvement of eseia experts in EC policy-making and programme implementation; **eseia Brussels hub**
3. Joint eseia Thematic Projects and Strategic Initiatives: **eseia Creator of opportunities;**
4. Access to news from the grapevine and first hand know-how of EC funding policies and programmes as well as on national and regional levels; **In Depth knowledge about EC Evaluation and Requirements**
5. Information sharing among eseia members on joint innovation projects
6. Cooperation with international partners working in the area of renewable energies: **Covering the full value chain;**
7. Dissemination and exploitation of project results, **eseia always open for international collaboration**

Upcoming Events

ener2i eseia Innovation Training Workshop

1 - 2 October 2015, Yerevan, Armenia

ener2i Twinning activity at Bergischer Abfallwirtschaftsverband

19 - 21 October 2015, Engelskirchen, Germany

BET Student Camp in RIC-BRP

22 - 26 February 2016, Gunskirchen, Austria

TU Graz – eseia Conference on Smart and Green Transitions in Cities and Regions

4 – 6 April 2016, Graz, Austria

eseia International Summer School 2016

18 – 29 July 2016, Lisbon, Portugal

A banner for the eseia International Summer School 2016. The top half has a white background with blue text. The bottom half has a dark blue background with white text. On the right side, there is a photograph of a historic town with red-tiled roofs and a church spire, set against a blue sky with clouds.

THINK OUT OF THE BOX
eseia International Summer School 2016
Integrating Bioresources and Waste in Urban and Rural Energy Systems

18 – 29 July 2016
Lisbon, PORTUGAL
LNEG and UNL Campus

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Thank you!

