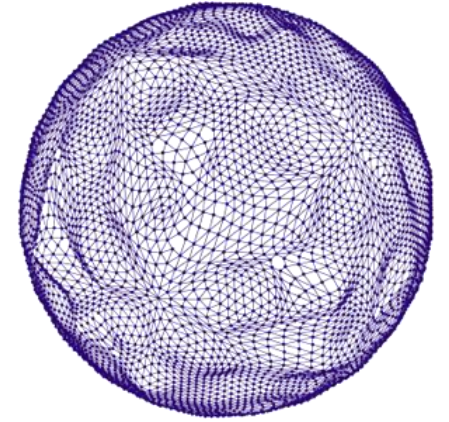
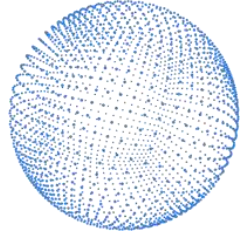
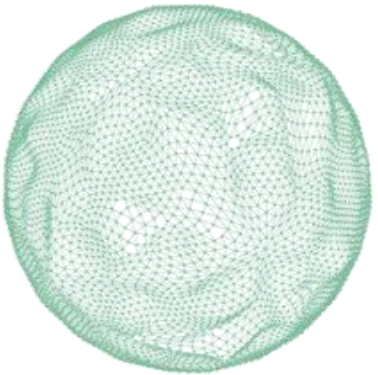
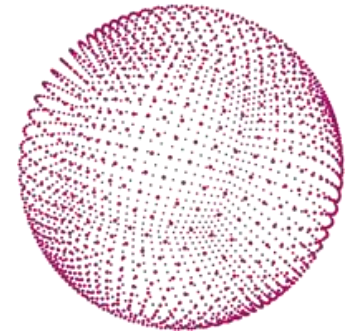




ATTRACT Socio-economic Studies

Summary

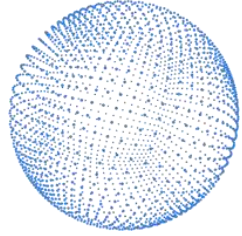


Evaluating the benefits of deep-tech for Europe's economy, specially investigate the micro and macro socioeconomic impact of ATTRACT in Europe

What it investigate and identify?

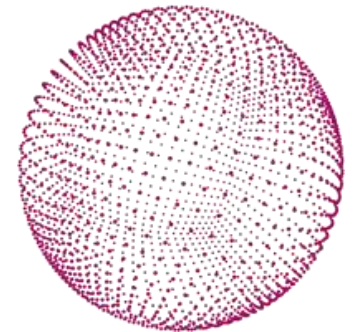
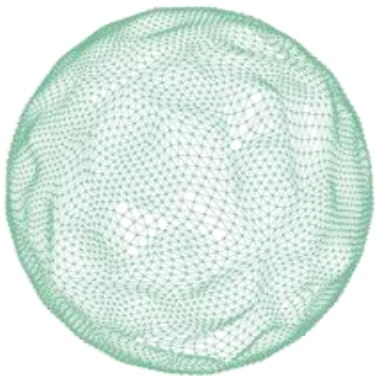
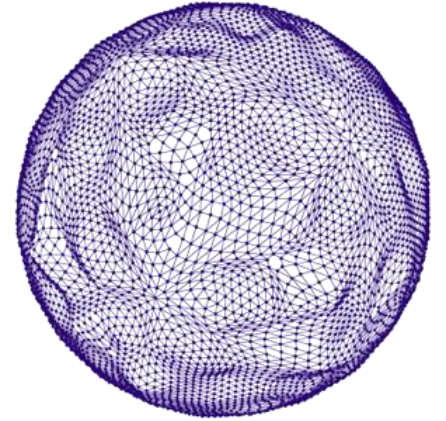
- **Critical factors** for vibrant innovation ecosystems.
- **Best practices** to embed the ATTRACT paradigm across the detection and imaging landscape.
- **Conditions** to turn technologies into drivers of social inclusiveness, gender equality, skills development and the reduction of geographical disparities.
- Provide **proof of the various effects from the construction and operation of research infrastructures** to policymakers, companies and public citizens.
- **Input for national and European policymakers** in the development of future research and innovation policies.

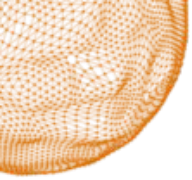




ABC4E

ATTRACT Behavioral Change 4 ERI scientists



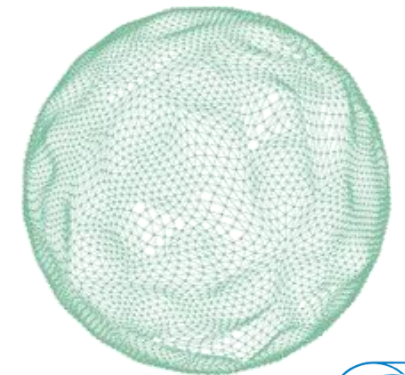


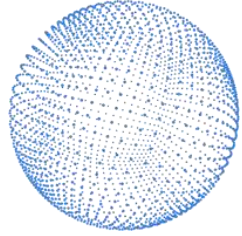
Aim

Enhance open innovation in science-driven projects through behavioural training based on Acceptance Commitment Therapy (ACT). By **fostering psychological flexibility among scientists**, the project aims to break down barriers to interdisciplinary collaboration and facilitate knowledge exchange.

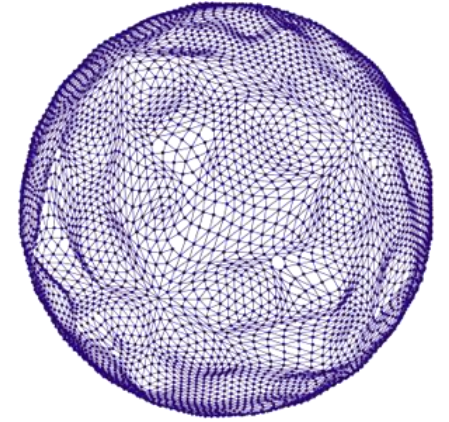
Future vision

Measure **psychological flexibility** and behaviours in big research centres and replicate the syllabus in an experiment with a control group without ACT, as well as to scale the course by KTO and ACT 'local' coaches and the training course of the ABC4E project.

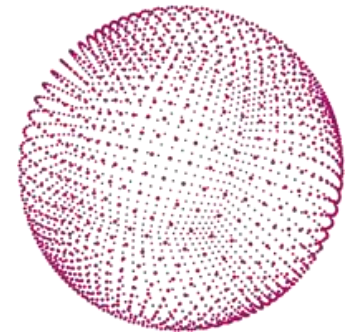
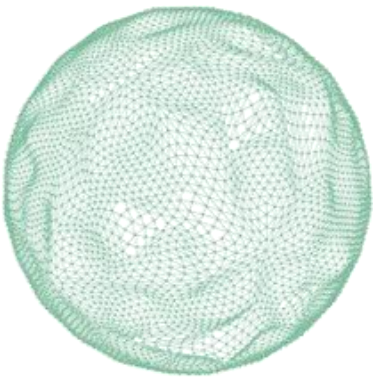


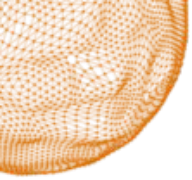


EMDOI



Entrepreneurial Mindset, Diversity
of Research Teams and Open
Innovation practices in ATTRACT
innovation ecosystems



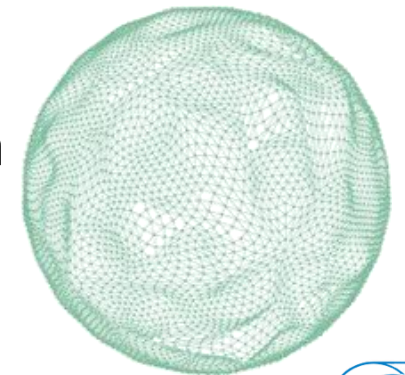


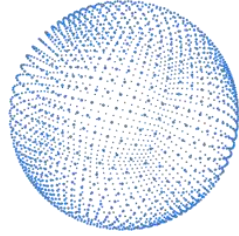
Aim

Explore the **influence of entrepreneurial mindsets, diversity** within research teams, and **open innovation** practices on the **commercialization** success of breakthrough technologies.

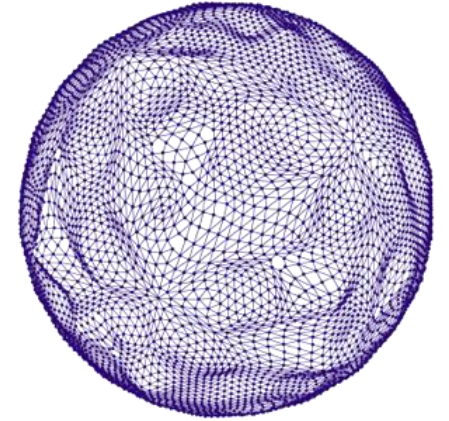
Future vision

Compare their findings in the ATTRACT ecosystem to the processes inherent in other funding frameworks to assess whether the ATTRACT scheme was more or less successful in both, achieving commercialization of breakthrough technologies as well as achieving inclusive innovation outcomes that consider the diversity of human beings.

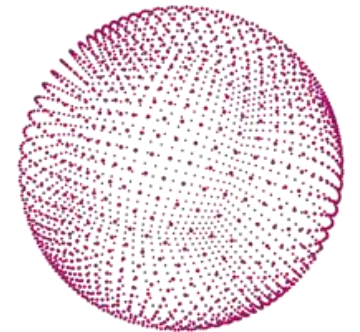
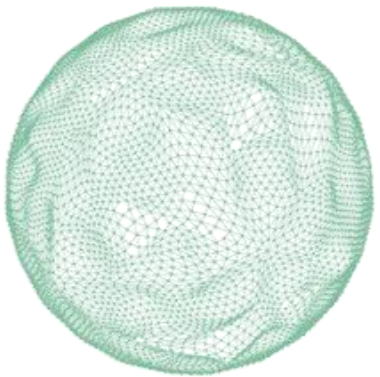


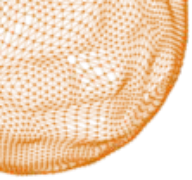


CASEIA



Comparative analysis of socio-economic impact in two particle accelerator case studies



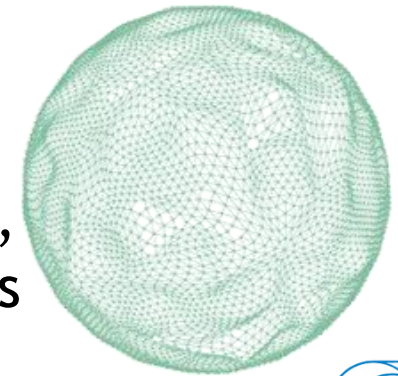


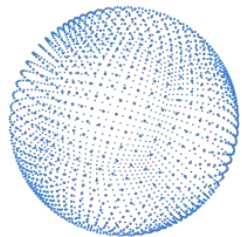
Aim

Comparative analysis to better understand how the support offered through ATTRACT phase 1 has led to impacts such as strengthened innovation ecosystems, commercial applications of innovation, skills development, and broader social goods. It aims to measure ATTRACT through three case studies plus a toolbox to measure the impact of big science beyond econometrics.

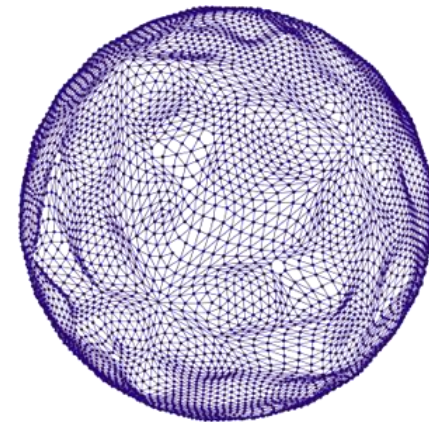
Future vision

Expanding the application of the analytical framework to a broader set of projects, **enhancing its robustness and relevance** across diverse contexts. Refine the framework's ability to generate comprehensive and actionable insights. In parallel, establish a robust monitoring, evaluation, and learning system for ATTRACT-type interventions, ensuring continuous improvement and alignment with objectives.

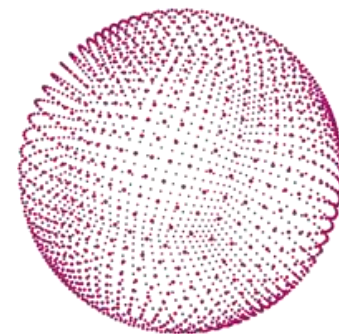
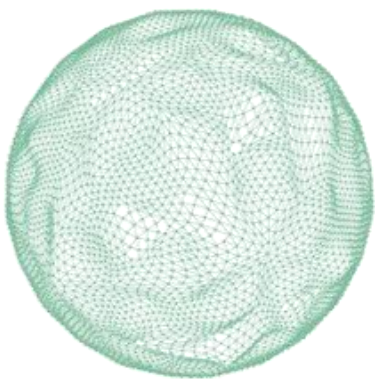


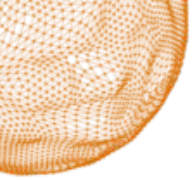


COMPUTE IMPACT



The impact of data/ computational technologies produced by ERI-IE in industry: The case of life science





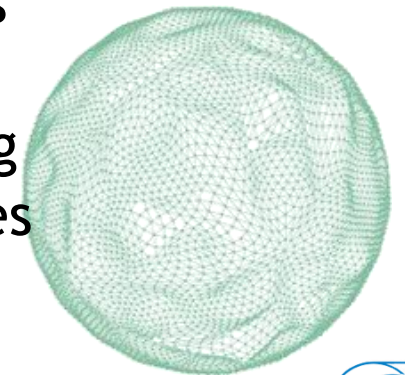
COMPUTE IMPACT

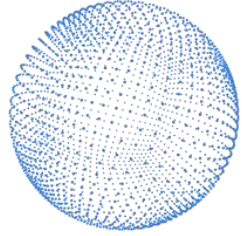
Aim

Investigates **how industrial partners benefit from ERI-IEs computational tools and datasets**, particularly in life sciences like bioinformatics. Focused on initiatives such as AlphaFold under the European Molecular Biology Laboratory (EMBL), the study aims to understand and measure the specific value these Research Infrastructures (RIs) bring to industry.

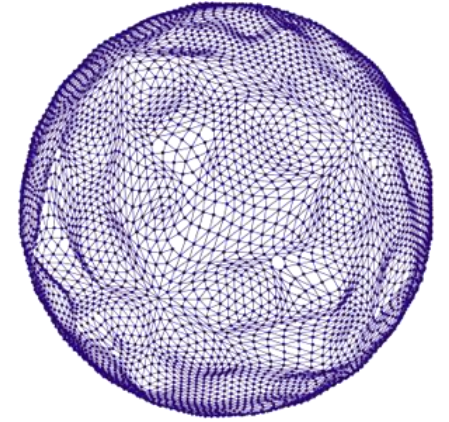
Future vision

Deepen their understanding of the **role of data and data infrastructures in science and innovation**. They plan to engage with the industry by recruiting companies rather than individual researchers and are exploring a partnership with an AI healthcare company to study data infrastructures and develop a holistic framework for assessing the impact of research infrastructure data.

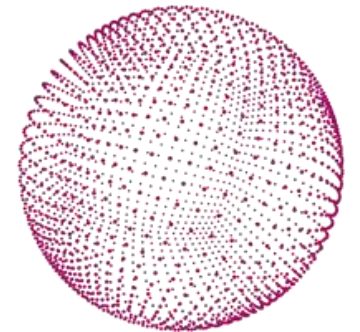
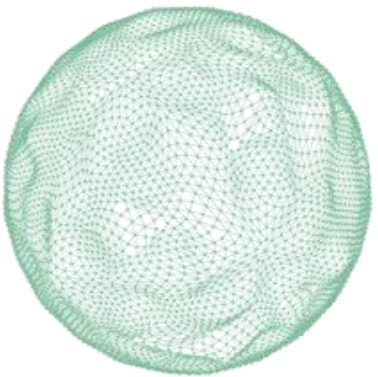


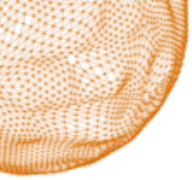


CORE



Capability development for Open and Responsible innovation Ecosystems



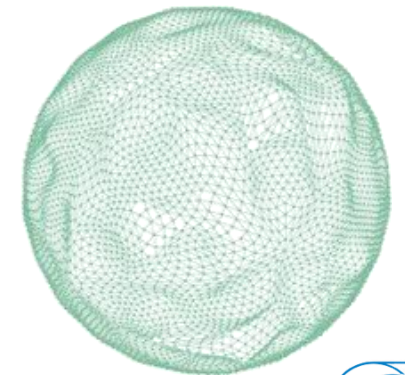


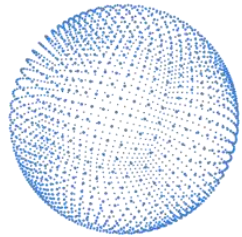
Aim

Explore the intricacies of European Research Infrastructure innovation ecosystems. Fundamentally, the project seeks to unravel **how social connections and knowledge dissemination fuel effective collaboration**, laying the groundwork for transformative innovation.

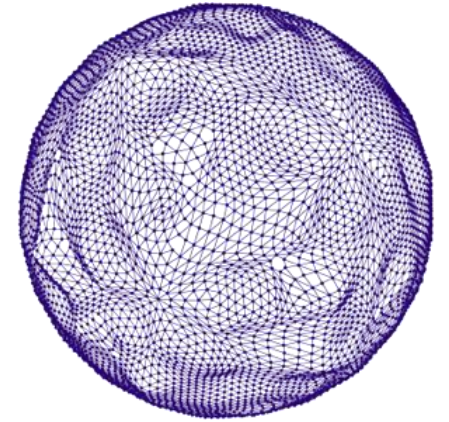
Future vision

Acknowledge the need for facilitating and supporting RDIs in their collaboration attempts beyond their consortia to create systemic value, address network-level challenges they have identified through design interventions, test their findings and tools in other ecosystems that experience similar issues, amplify good practices, among others.

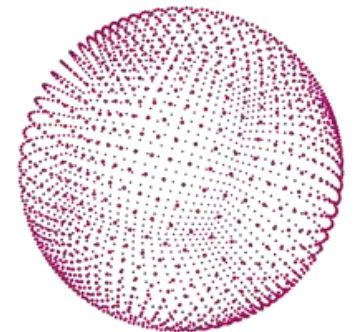
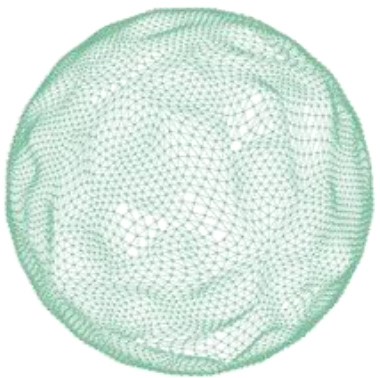


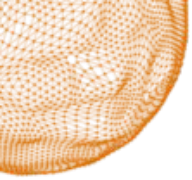


ExSACT



Enable State Administration to be
an Active Contributors in process of
risk absorption and risk reduction
Through IPR and state aid



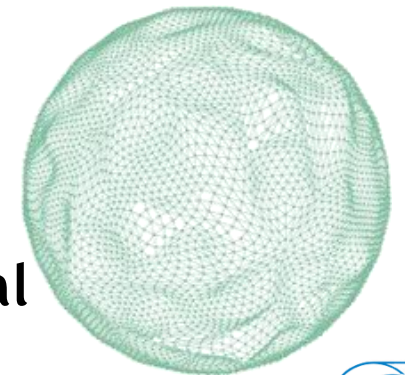


Aim

Simplify and optimize public investments in research and technology infrastructures while navigating state aid regulations. It focuses on improving industry-academia collaboration within ERIs by addressing complexities in intellectual property rights (IPR) transfer and funding allocation.

Future vision

Review other national legislation whether they use the differentiation ‘economic/non-economic activity’ or ‘market activity/public service’, discuss with the Slovenian Ministry of Finance about replacing the differentiation ‘market activity/public service’ with ‘economic/non-economic activity’. **Find good practices for the valuation of intellectual property as a financial asset of a spin-off company, among others.**

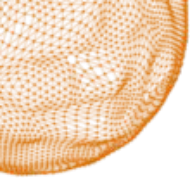




NEXT

Using novel experimental
approaches to boost science
commercialisation success: A Pilot
Study



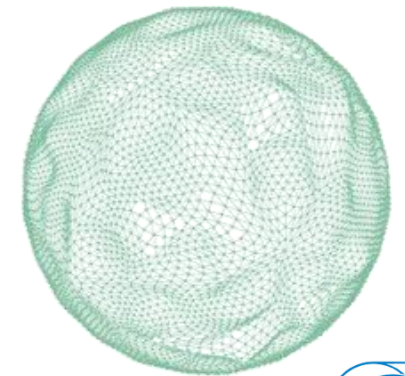


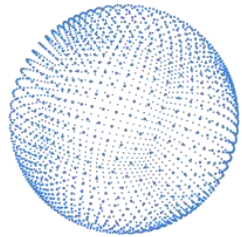
Aim

Use **experimental methods to evaluate and improve science commercialisation** initiatives, addressing the lack of experimentation in this area of innovation policy.

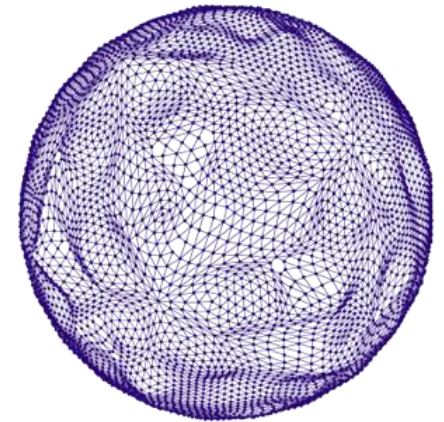
Future vision

Take advantage of the **handbook of Experimentation in Science Commercialisation** they are preparing to **create new programmes** bringing researchers, agencies and other stakeholders to the table, replicate Accelerator to **expand the use of experiments**, and work to better understand barriers, and enablers and other key challenges (e.g. with XFEL/ESRF).

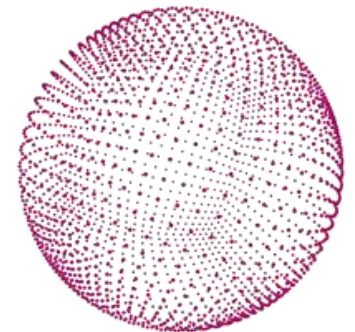
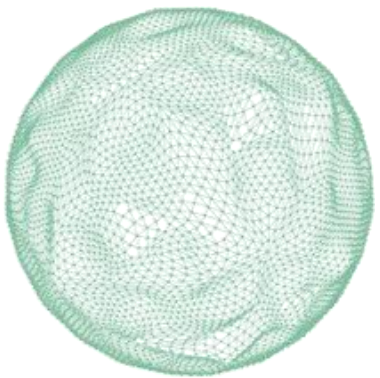


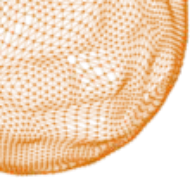


NEXTGEN- TECH-ED



Educating the next generation of
tech entrepreneurs: Science-based
Entrepreneurship Education as a
means for university-industry
technology transfer





NEXTGEN- TECH-ED

Aim

Focus on **leveraging Science-based Entrepreneurship Education (SBEE)** within ERIs to **foster knowledge circulation in innovation ecosystems**.

Through case studies at academic institutions and research projects like ATTRACT, it seeks to understand SBEE's impact on entrepreneurial ecosystems and technology transfer.

Future vision

Developing didactical design principles can be deduced from the current initiatives in science-based entrepreneurship education, improved Science facilities with recognized importance across the EU, and an **assessment tool/design schemes for effective entrepreneurship education**, among others.

