Dear reader,

In this autumn issue of our newsletter in 2023, we present the key milestones and achievements of AnaEE-ERIC and its Research Infrastructure; and you may judge how rich this year has been. First, the AnaEE-ERIC Assembly of Members (AoM#3) last June approved our first Annual Report. This is an important milestone, which reflects all the activity and accomplishments of our ERIC in less than a year of existence. In addition, AgroServ, the flagship project coordinated by AnaEE-ERIC issued its first call for Transnational Access, and received more than 100 pre-proposals for evaluation, with many of them requesting access to our infrastructure’s services in this project. Notably, 2023 has been a rich year for AnaEE-ERIC in the annual harvest of infrastructure projects, as we are involved in 5 projects, demonstrating the central place of AnaEE-ERIC within the landscape of European Research Infrastructures; these projects are detailed in the following pages. Finally, AnaEE-ERIC is growing at a fast pace, as we are now 6 in the headquarters of Gif-sur-Yvette, and the discussions for the implementation of our three other service centres are well advanced. In this issue we introduce a section, “In the journals”, that reports on some nice results obtained using the platform network, underscoring the power and impact of an infrastructure devoted to experimentation on ecosystems on research in this field.

Best wishes,
Michel

Michel Boër, Director General of AnaEE-ERIC

1 avenue de la Terrasse
91190 Gif sur Yvette - France
A SOUGHT-AFTER PARTNER IN EUROPEAN PROJECTS

Between the life sciences and environmental domains AnaEE-ERIC straddles a unique position in the Research Infrastructure landscape

AnaEE-ERIC partnered key European consortia in Horizon Europe INFRA calls in the winter of 2023 and we are extremely pleased to share with you that the expertise of the ERIC, and platforms across all members of the RI, will be shared with the larger community via four INFRA projects in 2024.

**AquaServ**  
Research Infrastructure Services for Sustainable Aquaculture, Fisheries and Blue economy, coordinated by Centro de Ciencias do Mar do Algarve (from EMBRC ERIC). Three AnaEE-ERIC installations from our Finnish and French national nodes offers TA/VA via AquaServ further enhances the opportunities for collaboration, knowledge exchange, and advancement in sustainable aquaculture and fisheries practices.

**IRISCC**  
Integrated Research Infrastructure Services for Climate Change risks coordinated by Luonnonvarakeskus (LUKE) represents a concerted effort to harness research infrastructure and expertise in tackling the complex challenges posed by climate change. The collaboration and offering TA/VA among 22 AnaEE-ERIC installations from our Belgian, Bulgarian, Czech, Danish, Finnish, French, and Italian national nodes underscores the significance of international cooperation in advancing our understanding of climate change risks and developing effective strategies for resilience and adaptation.

**FHERITALE**  
Food, Health and Environment Research Infrastructures to tackle emerging priorities coordinated by Consorzio Interuniversitario Risonanze Magnetiche di Metallo Proteine (from INSTRUCT-ERIC), where AnaEE-ERIC will provide a perspective on the impact of environmental pollutants, specifically micro- and nano-particles, on soils, plants, and ecosystems, including agro-ecosystems. AnaEE-ERIC’s position at the juncture of the life and environmental sciences gave us a place in the call topic for the “Preparation of common strategies for future development of RI technologies and services within broad RI communities” and the project’s interdisciplinary nature of the cluster of identified technologies will connect health, food, and environment research, constituting one of the first examples of practical application of the “One Health” approach.

**Microbes4Climate**  
Microbial services addressing climate change risks for biodiversity and for agricultural and forestry ecosystems: enabling curiosity-driven research and advancing frontier knowledge coordinated by MIRRI ERIC. Offering TA/VA via 18 AnaEE-ERIC installations from our Belgian, Bulgarian, CIHEAM, Finnish, French and Italian national nodes represents a concerted effort to advance scientific understanding of microbiome-mediated processes in terrestrial ecosystems and their relevance for climate change responses.

AnaEE-ERIC and AnaEE RI  
A sought-after partner for its services in both the life and environmental sciences.
This section summarises upcoming Horizon Europe Pillar II calls within the scope of AnaEE. AnaEE-ERIC will be happy to support potential participants from our community, and help them build their proposal, if of common interest, and to find partners. Please do not hesitate to contact us.

### Pillar II - Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment

<table>
<thead>
<tr>
<th>Call ID</th>
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<td>22/02/2024</td>
<td>Single</td>
<td>RIA</td>
<td>Promoting pollinator friendly farming systems</td>
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<td>RIA</td>
<td>Demonstrating Nature-based Solutions for the sustainable management of water resources in a changing climate, with special attention to reducing the impacts of extreme droughts</td>
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<td>Invasive alien species</td>
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<td>Minimising climate impact on aquaculture: mitigation and adaptation solutions for future climate regimes</td>
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<td>Single</td>
<td>MGA</td>
<td>EU-African Union cooperation on agroforestry management for climate change adaptation and mitigation</td>
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### 3rd ANAEE-ERIC ASSEMBLY OF MEMBERS - May 2023, Prague, CZ

The third AnaEE-ERIC Assembly of Members (AoM#3) took place in the impressive headquarters of the Czech Academy of Sciences. The meeting commenced with a welcome presentation by representatives of the Czech Ministry for Science, and by the Vice-President of the Academy. As the host country, the AnaEE Czech Republic node gave us an overview of its impressive range of activities and implication in Research Infrastructures.

This was followed by presentations from AnaEE-ERIC detailing its different actions and activities, following which the delegates approved the first Annual Report of AnaEE-ERIC, including the financial report for 2022.
Using AnaEE RI’s platforms for your research
The power and impact of an infrastructure devoted to experimentation on ecosystems

**Functional responses of two Mediterranean pine species in an ozone Free-Air Controlled Exposure (FACE) experiment**

To better understand the responses of conifer species to long-term, realistic ozone (O₃) exposure, an innovative Free-air O₃ eXposure (FO3X) experiment was carried out on seedlings of P. halepensis and P. pinea. The different functional responses of the two species to O₃ demonstrated a potential species-specific resilience in O₃-polluted Mediterranean pine forests.

*Tree Physiology*, Vol 43, Sep 2023 [https://doi.org/10.1093/treephys/tpad068](https://doi.org/10.1093/treephys/tpad068)

**Impacts of ground-level ozone on sugarcane production**

The impact of O₃ exposure on sugarcane production was modelled to understand the potential risks on this bioenergetic crop, and the broader implications of air quality on tropical food production, and potential repercussions for food security in the region.


**Interacting effects of vegetation components and water level on methane dynamics in a boreal fen**

The role of vegetation components, sedges, dwarf shrubs, and Sphagnum mosses, was investigated in methane fluxes of a boreal fen under natural and experimental water level drawdown conditions, at the Lakkasuo-Silkanen peatland complex of the University of Eastern Finland. Vegetation and hydrology are important controlling factors in peatland methane dynamics, and the response of fen peatlands to changing climatic conditions are the major projected impacts of climate change on northern peatlands.


**Long-term rain exclusion in a Mediterranean forest: response of physiological and physico-chemical traits of Quercus pubescens across seasons**

The impact of projected aggravated summer drought in the Mediterranean region was studied by comparing the functional response of a drought-resistant deciduous oak species to long-term amplified drought and natural drought. This species appeared to be highly resistant to drought, across seasons and drought conditions, but could suffer significant losses of antioxidant defences and photo-protection under amplified drought. The results demonstrate the powerful insights that can be gained from the long-term field experiments, such as this 10 year long partial rainfall exclusion one, carried out at the AnaEE O3HP platform.

The effect of elevated CO2 on photosynthesis is modulated by nitrogen supply and reduced water availability in Picea abies

The interactive effects of [CO2], nitrogen supply and water availability on the physiological, morphological and stoichiometric traits of Norway spruce (Picea abies) saplings were studied in the Cultivation Domes of the Bily Kriz experimental platform in the Czech Republic. The responses of the saplings indicated the limited effects of elevated [CO2] on carbon uptake in temperate coniferous forests when combined with naturally low nitrogen availability and intensifying droughts during the summer periods, which has an impact on terrestrial carbon sequestration and forest growth in the future.

Tree Physiology, Vol 43, Jun 2023  https://doi.org/10.1093/treephys/tpad024

Basalt addition improves the performance of young grassland monocultures under more persistent weather featuring longer dry and wet spells

The effectiveness of soil basalt application to improve forage grass responses to altered precipitation variability was tested experimentally in the FATI platform (University of Antwerp, Belgium). Basalt improved aboveground plant productivity (+14%) under increased weather persistence, without negatively affecting plant quality.


Higher N2O emissions from organic compared to synthetic N fertilisers on sandy soils in a cool temperate climate

First estimates of nitrous oxide (N2O) emission factors for synthetic and organic fertilisers in Danish agriculture were determined at the two platforms Foulumgaard (Aarhus University) and Hejbakkegaard (Copenhagen University), as well as two other sites. The N2O emission factors observed in this two-year multi-site study, with screening of 11 nitrogen sources (synthetic N, liquid manure, digestates) in spring campaigns and monitoring in experimental crop rotations throughout the year, were strikingly different from the recently revised IPCC emission factors.

IN THE JOURNALS ...

**Changes in organic molecular marker signatures in soils amended with biochar during a three-year experiment with maize on a Fluvisol.**

In this study we determined the signatures of organic molecular markers in soil following the incorporation of 5 and 10 t/ha biochar in a Fluvisol, cultivated with maize at the experimental field Tsalapitsa of the ISSAPP “N. Poushkarov” institute in Bulgaria. The possible link between tree ring-derived intrinsic water-use efficiency (iWUE) and calcium availability was studied in five central European forest sites, by examining the carbon isotope ratio in tree rings at the Laboratory of metabolomics and isotope analyses. The increasing iWUE being directly modulated by acid air pollution in conjunction with soil Ca concentration has important, yet unrecognized, implications for the plant physiological upregulation of carbon and water cycles. https://doi.org/10.1038/s43247-023-00822-5

Contact: Maya Benkova majaben@abv.bg
Lyuba Dimova lyuba_dimova@abv.bg
Irena Atanassova i.d.atanassova@abv.bg

Find out more about the Tsalapitsa platform
https://isia.cnrs.fr/platform/read/96

**Hydroclimatic Controls on the Isotopic (δ18 O, δ2 H, d-excess) Traits of Pan-Arctic Summer Rainfall Events**

The Pan-Arctic Precipitation Isotope Network (PAPIN), now comprising 28 sampling stations spanning key tundra, subarctic, maritime, and continental climate zones across the Arctic, quantified the spatial-temporal patterns of precipitation isotopes across the Arctic from rainfall events collected in summer 2018. This study, which included the Oulanka platform from University of Oulu and the Kevo platform from University of Turku, provided new insight into the controls on pan-Arctic isotope variability, and an empirical framework for interpreting summer paleo-precipitation isotope data in climate archives. Front. Earth Sci., Sec. Hydrosphere, Vol 9, May 2021 https://doi.org/10.3389/feart.2021.651731

Find out more about the Oulanka platform
https://anaee.fi/platform/ecoclimate/

Contact: Riku Paavola, riku.paavola@oulu.fi

Find out more about the Kevo platform
https://anaee.fi/platform/kevo-research-station/

Contact: Otso Suominen, otso.suominen@utu.fi

**Calcium availability affects the intrinsic water-use efficiency of temperate forest trees**

The possible link between tree ring-derived intrinsic water-use efficiency (iWUE) and calcium availability was studied in five central European forest sites, by examining the carbon isotope ratio in tree rings at the Laboratory of metabolomics and isotope analyses. The increasing iWUE being directly modulated by acid air pollution in conjunction with soil Ca concentration has important, yet unrecognized, implications for the plant physiological upregulation of carbon and water cycles. https://doi.org/10.1038/s43247-023-00822-5

Find out more about the Laboratory of metabolomics and isotope analyses

Contact: Otmar Urban, urban.o@czechglobe.cz

EVENTS AND MEETINGS

- **7th DRMKC (Disaster Risk Management Knowledge Centre) Annual Seminar**
  Moving knowledge into action: a Roadmap to Disaster
  https://drmkc.jrc.ec.europa.eu/events-news/drmkc-annual-seminars/7th-drmkc-annual-seminar
  21 November 2023
  Brussels - BE

- **EC-ESA Joint Earth System Science Initiative Joint workshop**
  Science for a Green and Sustainable Society
  https://essi2023.esa.int/
  22 – 24 November
  Frascati - IT

- **European Geosciences Union (EGU) General Assembly**
  The EGU General Assembly brings together geoscientists covering all disciplines of the Earth, planetary, and space sciences.
  https://www.egu24.eu/home.html
  14 – 19 April 2024
  Vienna - AT and online
**ANAEE BELGIUM**

The AnaEE-Belgium platforms have had a busy year running diverse experiments and being involved in multiple projects.

At the University of Antwerp, the Mesodrome (ECOSPHERE) ran stress exposure experiments on Atlantic salmon at its experimental ponds; studied “winners and losers” under different nitrogen loads in a freshwater ecosystem in the mesocosms; studied the effects of currents on olivine dissolution, CO2 sequestration, and trace metal release at its raceway, and hydrodynamics and optimal bank morphology for tidal marsh restoration projects at the large flume.

The Antwerp FATI (PLECO) platform investigated whether increasingly persistent precipitation regimes induced ecological memory in agricultural grassland monocultures by influencing ecosystem functioning (productivity, forage quality and stress responses) in the following year. The Meso-scale Ecotron (PLECO) ran experiments on potato production and quality during drought, focusing on the impact of irrigation timing, in collaboration with the research center for potato cultivation (PCA).

At Hasselt University, the Macro-scale Ecotron is used in QPEAR, a 4-year project financed by VLAIO, in collaboration with VCBT and PCFruit to assess how pear quality will be affected by climate change. The ecotron is also involved in a study on the effects of climate change on heathland ecosystem services, involving an international and interdisciplinary consortium of over 40 scientists.

The TERRA-Ecotron (Gembloux Agro-Bio Tech) at University of Liège ran experiments on root development and adaptation of microbial populations in winter wheat subjected to different levels of heat and water stress as part of BIOFAIR funded by the European BIODIVERSA call. The TERRA-ecotron is also foreseen to expand next year with two new chambers.

**ANAEE BULGARIA**

The two Open-Air platforms of AnaEE Bulgaria, at Bozhurishte and at Tsalapitsa, were occupied with various experiments and saw them included in numerous projects.

Ongoing, and completed, experiments at the Open Air Platform at Bozhurishte in 2023 include, crop rotation to increase yields and save soil properties, optimization of nutrition as a function of different rates of fertilisation and different fertilisers, and weed control and tillage practices. Additionally, CO2 and N2O emission measurements, from the soil and from plants, in different vegetation phases, especially in cereals, are also carried out at Bozhurishte.

Meanwhile, the Open Air Platform at Tsalapitsa, is in the fifth year (2023) of experimentation on the effects of biochar on wheat, sans the addition of nitrogen fertiliser, were monitored. In parallel, a new field experiment was carried out on wheat at higher biochar utilisation rates (10 and 15 t. ha-1), with background fertilisation of nitrogen and phosphorus. The experiment was set up in 2022, and this year, in addition to the monitored agrochemical, physico-chemical and microbiological indicators of soil samples and yield of cultivated produce, we also measured CO2 and N2O gas emissions during the field experiments with biochar.
**ANAEE CZECH REPUBLIC**

The AnaEE RI platforms of Czechglobe (Global Change Research Institute CAS) the sole member of the Czech National Node have been implicated in a number of experiments and experimental and analytical services will be exploited in the framework of the AdAgriF - Advanced methods of greenhouse gases emission reduction and sequestration in agriculture and forest landscape for climate change mitigation - co-funded by the European Union.

The **Experimental station Domaninek** - Open top chamber facility - has undergone extensive upgrades and technical reconstruction, and during the next experimental season will be verifying the effect of regenerative agriculture practices (species rich cover crops, no-till technologies, intercropping) under conditions of expected climate change (elevated CO2, drought). The **Cultivation Domes of the Billy Kriz platform** evaluated the biochemical and physiological response within the multi-year experiment to measure the interaction of elevated CO2 concentration, drought and nitrogen deposition on forest tree species (spruce and beech) and understory vegetation (Calamagrostis villosa).

While in the Grassland drought experimental site of **Billy Kriz** a multi-year multifactorial experiment on the effects of drought, increased temperature and management (mowing and removal of aboveground biomass vs. mulching) continued. The Fytoscopes - Growth chamber facility has been busy with different experiments including the effect of light spectral composition on the response to subsequent drought stress and high temperature, and evaluating differences between C3 and C4 plants in response to elevated CO2 concentration under conditions of high temperature and reduced water availability.

**ANAEE FINLAND**

University of Helsinki’s **Lammi Biological Station** is co-host of the new Research Council of Finland and EU funded research infrastructure ‘Wild Animal Phenotyping’ (WildAP). The infrastructure aims to fill a gap in the Finnish research infrastructure by providing state of the art wild animal phenotyping equipment, services, training and expertise.

With funding until the end of 2025, the infrastructure has already renovated the station’s existing three invertebrate enclosures and added a fourth one. The 25 X 30 m enclosures can also be further partitioned to facilitate strongly replicated research designs. WildAP has also purchased a Dual energy x-ray absorptiometry (DEXA) device for the estimation of vertebrate lipids and bone structure. With a short 25 second scanning time, it will enable a giant leap forward for research that requires accurate estimations of body condition for many individuals. At the moment, we are also assembling a prototype for rodent research that will allow us to track the individual movement of wild voles and rats using PIT tag scanners that are encased in temperature controlled housing.

These ‘rodent boxes’ can be placed in the field for experimental studies focussing on rodent zoonoses.
ANAEE FRANCE

The French National Node has been actively engaged in enhancing its platforms and ensuring their sustainability under the ambit of the AnaEE France research infrastructure, which is not restricted to the AnaEE RI platforms. This encompassed a variety of actions such as, an audited pricing system, the development of the ISIA information system for project and platform management, and several technical training workshops (see e.g. the summer school on the theme of microclimates in ecology. Renovations and upgrades included the domes and online measurement capacity at the Montpellier terrestrial macrocosms and new experimental equipment at the Lautaret alpine research station.

Among the many different projects that the French NN’s platforms have been implicated, there’s been the national FAIRCARBON PEPR programme involving Ecotrons and long-term experimental forest sites such as Puéchabon, the start-up of a new ERC project on terrestrial communities hosted by the Terrestrial Metatron facility, the launch of the TREC-EMBL program in collaboration with Ecotron IleDeFrance, and the CNRS Gold Medal awarded to Sandra Lavorel for her research on alpine ecology and ecosystem services at the Lautaret site.

The national infrastructure also supported two research projects on environmental DNA aimed at standardising protocols to assess soil and water biodiversity in continental ecosystems. On the data side, as part of the national Gaia Data project there will be a second-generation catalog for data sharing and access with operational tools to study continental surfaces and living organisms set to be available by 2024.

Read more about the French NN platforms at the AnaEE France website where you can find a complete mapping of services, a portal for accessing devices and up-to-date information on its national activities and publications.

ANAEE ITALY

AnaEE Italy is deeply involved in the Italian project ‘Italian Integrated Environmental Research Infrastructures’ (ITINERIS - https://itineris.cnr.it), which will focus on the observation and study of environmental processes in the atmosphere, marine domain, terrestrial biosphere, and geosphere, and providing access to data and services.

In addition, ITINERIS aims to create a system of Virtual Research Environments (VREs) providing services to harmonise the work of different RIs through the sharing of information and data. AnaEE-Italy leads the Crops, plants and pests (CPP) VRE, and contributes to the national access policy of ITINERIS compliant with the guidelines produced by the ENVRI FAIR project, with the first concrete step to create a distributed common authentication system between the Italian and European Research Infrastructures.

The Italian platforms have recruited new temporary-contract personnel and upgrading platforms with new equipment, such as gas exchange analysers, new workstations and cloud services, nitrogen analysers, a new lab of leaf and wood anatomy, XY’LEM plus for xylem conductivity assessment, PCR and next-generation sequencing system.
AnaEE is a distributed European-wide research infrastructure for experimental research on managed and unmanaged terrestrial and continental aquatic ecosystems.

### National Node contacts - 2023

**MEMBERS**
- **BULGARIA**: IRENA ATANASSOVA, ISSAPPNP
- **CIHEAM BARI**: CLAUDIO BOGLIOTTI, CIHEAM
- **CZECH REPUBLIC**: KAREL KLEM, CZECHGLOBE
- **DENMARK**: KLAUS STEENBERG LARSEN, UNIVERSITY OF COPENHAGEN
- **FINLAND**: SÄDE VIRKKI, LUKE AND JANNE RINNE, LUKE
- **FRANCE**: JEAN-FRANÇOIS LE GAILLARD, CNRS
- **ITALY**: ELENA PAOLETTI, CNR

**OBSERVERS**
- **BELGIUM**: IVAN NIJS, UNIVERSITY OF ANTWERP

### AnaEE-ERIC Centres

- **CENTRAL HUB - FRANCE**
  - MICHEL BÖER, CNRS
- **DATA AND MODELLING CENTRE - ITALY**
  - MARCELLO DONATELLI, CREA
- **INTERFACE AND SYNTHESIS CENTRE - CZECH REPUBLIC**
  - KAREL KLEM, CZECHGLOBE
- **TECHNOLOGY CENTRE - DENMARK**
  - KLAUS STEENBERG LARSEN, UNIVERSITY OF COPENHAGEN

### Find out more

[Website](https://anaee.eu) and follow us [LinkedIn](https://www.linkedin.com/company/anaee-analysis-and-experimentation-on-ecosystems/)

### ANAEE’S NETWORK OF FACILITIES

- **Open-air ecosystem platforms**
  - Cover various land uses; Transect Europe’s climatic zones

- **Enclosed ecosystem platforms**
  - Enables higher level of environmental controls and measurements

- **Analytical platforms**
  - Perform advanced analyses for deeper insight and robust conclusions

- **Modelling platforms**
  - Provide models to improve analysis; make reliable predictions

**BROWSE THE ANAEE-ERIC PLATFORM CATALOGUE**