



Introduction of the ERIGrid 2.0 Lab Access Programme

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LABORATORY ACCESS IN ERIGrid 2.0

- **We offer from 2021 to 2024:**
 - Provision of access to research infrastructures ('labs') to researchers ('user groups') involved in the research and development of smart grids / smart energy systems concepts and configurations
 - Availability of a range of testing and simulation facilities within the ERIGrid 2.0 Consortium
 - Provision of technical support and expertise
 - Promotion of the experimental research results

- **... and it is free of charge (subject to ERIGrid 2.0 conditions):**
 - Lab operation and support of the hosting staff
 - Travels, subsistence and accommodation of user groups (expenses will be reimbursed)

ERIGrid 2.0 INSTALLATIONS

- ERIGrid 2.0 operates as a 'Joint Infrastructure' (integrated approach, methodologies and procedures) with physically distributed installations (21 labs in 13 European countries)



**National Smart Grid Laboratory
SINTEF, Norway**



**SmartEST Laboratory
AIT, Austria**

ERIGrid 2.0 INSTALLATIONS



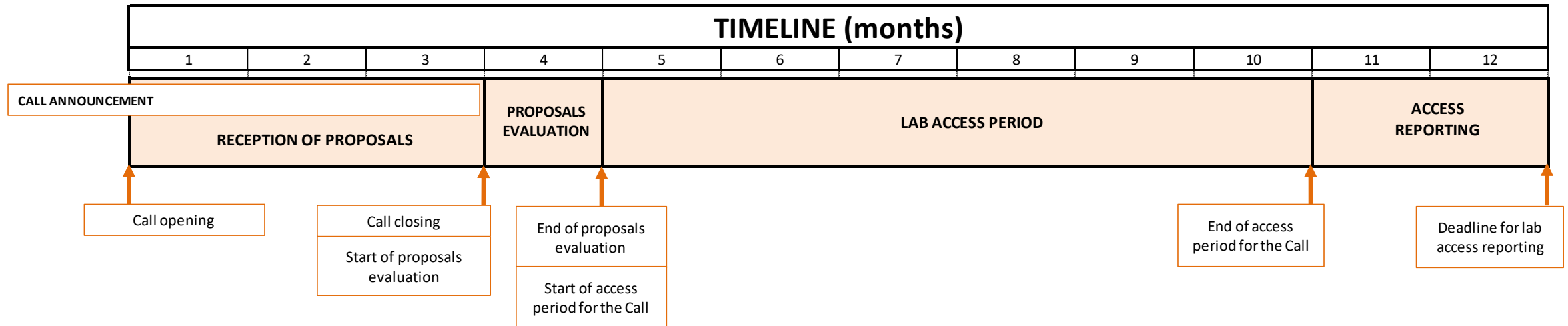
Flex Power Grid Laboratory, **KEMA, The Netherlands**



WHO CAN APPLY FOR LAB ACCESS

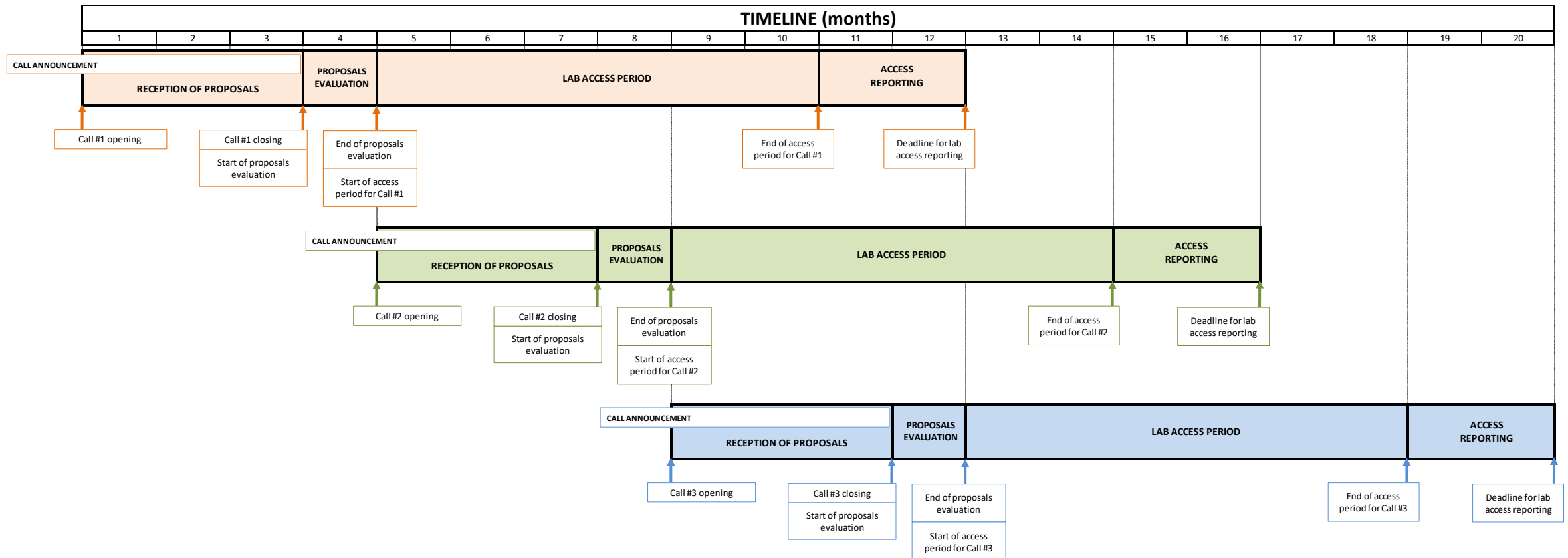
- Eligibility of the user groups:
 - One or more researchers
 - Universities, Research Centres, SMEs, large industries,...
 - Country of the lab must be different than the country of the user institution ('trans-national')
 - Able to publicly disseminate the results of the lab access project (except SME)
 - User organizations from the EU Member States and Associated Countries; however:
 - Limited access (20% of total ERIGrid access) for applicants from non-EU countries ('third countries')

TIMELINE



- Lab access calls for proposals launched every 4 months. Each call remains open for 3 months
- Starting time and length of the user projects (accepted proposals) are flexible:
 - Maximum access duration: 3 months (typical access: 3-4 weeks)
 - Approved projects must be implemented during the next 6 months after notification to users
 - Access can be split into 2 parts, if needed
- Reporting of the experiments: within 2 months after the access

TIMELINE



HOW TO APPLY

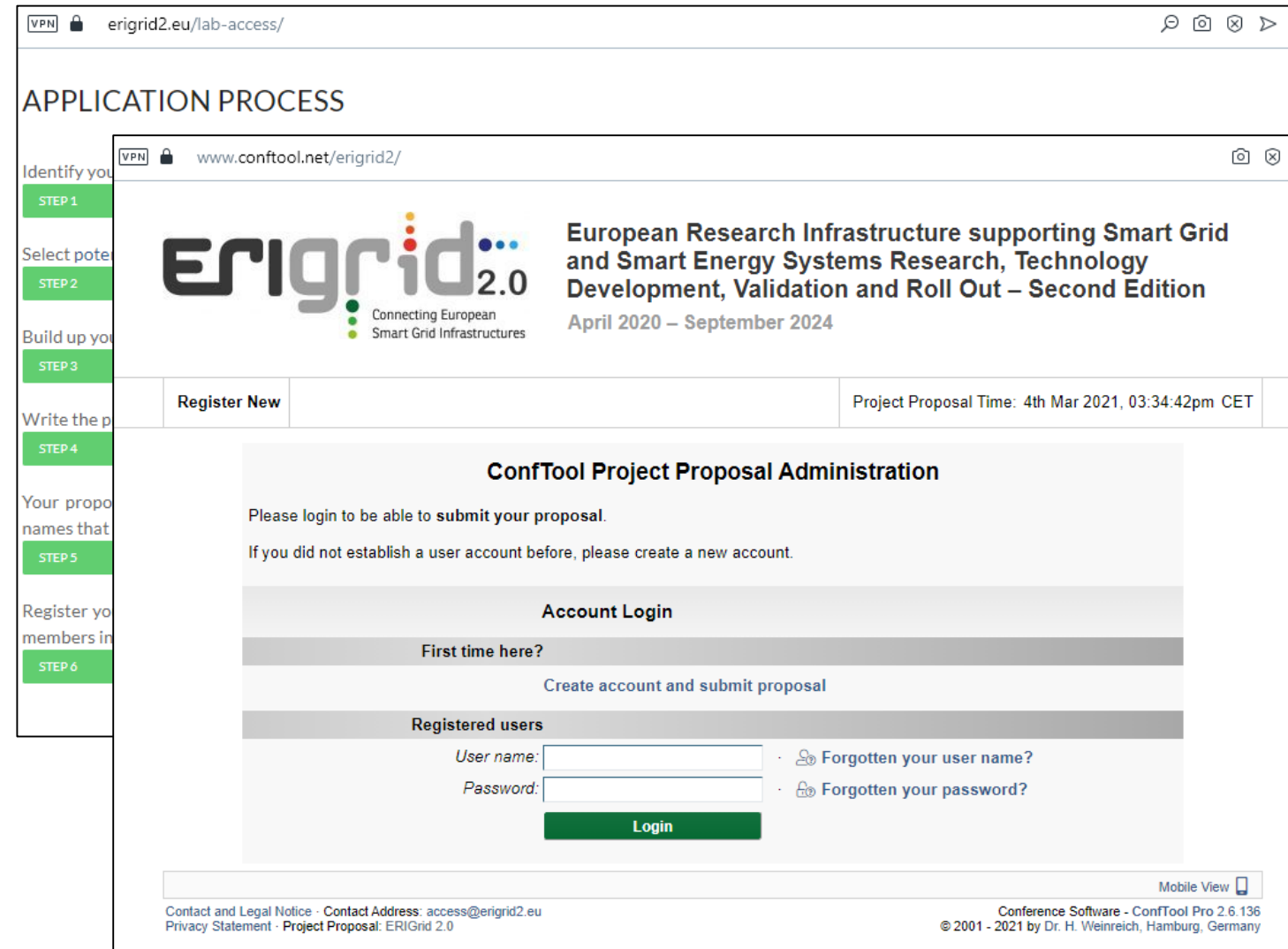
- Main reference: ERIGrid 2.0 website <https://erigrd2.eu/lab-access/>
 - Basic conditions, call information, application process, selection criteria, FAQ
 - **Description of the physical labs and virtual services**
 - User can contact the labs for clarifications and further details

The screenshot displays the website erigrd2.eu/lab-access/. The main heading is "PHYSICAL LABS AND VIRTUAL SERVICES". Below this, a paragraph states: "Access to physical labs can be on-site or remote, depending on the conditions of specific laboratories. To know if remote access can be organised in your case, please contact the laboratory staff through corresponding subpages below." There are four filter tabs: "ALL", "ON-SITE AND REMOTE TRANSIENT POWER SYSTEM DYNAMICS AND CONTROL VALIDATION", "ON-SITE AND REMOTE SMART ENERGY SYSTEMS INTEGRATION AND VALIDATION", and "VIRTUAL FACILITIES". The "ALL" tab is selected. Below the filters, there are ten lab cards, each with a photo and a caption:

- National Smart Grid Laboratory (SINTEF)
- Smart Grid Technologies Lab (TECNALIA)
- SYSLAB and Energy Systems Simulation Lab (DTU)
- Demonstration & Experimentation Unit (OCT)
- Dynamic Power Systems Laboratory (UST)
- Power Networks Demonstration Centre (UST)
- Electricity Meters Laboratory (HEDNO)
- Smart Electricity Systems and Technologies Laboratory (AIT)
- Electric Energy Systems Laboratory (ICCS-NTUA)
- Distributed Energy Resources Test Facility (RSE)

HOW TO APPLY

- Main reference: ERIGrid 2.0 website (<https://erigrad2.eu/lab-access/>)
 - Supporting documentation:
 - Lab Access Guide
 - Proposal Template
 - Proposal Submission System: **ConfTool**



The screenshot shows a web browser window with the URL erigrad2.eu/lab-access/. The page title is "APPLICATION PROCESS". On the left, there is a vertical navigation menu with six steps: "Identify you" (STEP 1), "Select pote" (STEP 2), "Build up yo" (STEP 3), "Write the p" (STEP 4), "Your propo" (STEP 5), and "Register yo" (STEP 6). The main content area features the ERIGrid 2.0 logo and the text: "European Research Infrastructure supporting Smart Grid and Smart Energy Systems Research, Technology Development, Validation and Roll Out – Second Edition April 2020 – September 2024". Below this, there is a "Register New" button and a "Project Proposal Time: 4th Mar 2021, 03:34:42pm CET" timestamp. The main content area is titled "ConfTool Project Proposal Administration" and contains the following text: "Please login to be able to submit your proposal. If you did not establish a user account before, please create a new account." There are three main sections: "Account Login", "First time here?" (with a "Create account and submit proposal" link), and "Registered users". The "Registered users" section includes input fields for "User name:" and "Password:", a "Login" button, and links for "Forgotten your user name?" and "Forgotten your password?". At the bottom, there is a "Mobile View" button and footer information: "Contact and Legal Notice · Contact Address: access@erigrad2.eu Privacy Statement · Project Proposal: ERIGrid 2.0" and "Conference Software - ConfTool Pro 2.6.136 © 2001 - 2021 by Dr. H. Weinreich, Hamburg, Germany".



EVALUATION OF USER PROPOSALS

- **Pre-screening:**
 - First check of the **technical-economic feasibility** of user project by the three selected labs
 - If the project is not feasible in the three selected labs, the proposal will be circulated to the rest of labs for prescreening
- **Evaluation by the User Selection Panel (USP):**
 - USP: panel of **113 international voluntary experts** from academia, research institutes and industry
 - Full assessment by 3-5 experts per proposal
 - Evaluation results available within 1 month after call closing
 - USP evaluation in *ConfTool*: scores, comments, potential improvements, etc.
 - **Evaluation criteria:** general quality, scientific/technical merit, improvement of lab capabilities, compliance with EU policies

ACCESS TO THE LAB

- After the proposal acceptance user group and host lab must agree the access details:
 - **Access period** (from ... to ...): normally within the next 6 months to the user notification
 - **Signature of a contract** (which covers crucial issues like safety, liability and confidentiality, and includes a **technical annex** coherent with the approved proposal)
 - **Responsible Person** appointed by each host lab for each user project (supervision and support for administrative, technical and logistic issues)
 - At the end of the access: signed **Declaration of Use** of infrastructure by the user group: days of access and days of stay by each member of the user group

REPORTING OF PROJECT RESULTS

- General condition: **project results must be publicly available**
- **Mandatory reporting** according to EC conditions and access contract:
 - **On-line questionnaire**: user feedback to the European Commission
 - **Technical Report** (except SMEs):
 - General information of the user project.
 - *Executive summary*.
 - Research motivation. Objectives. Scope.
 - Brief State of the Art/Technology.
 - Tests and experiments executed.
 - Results and conclusions.
 - Open issues and suggestions for improvements.
- **Further publications**: reference to journal papers, conferences, etc. where access results are disseminated

LAB ACCESS ALTERNATIVES

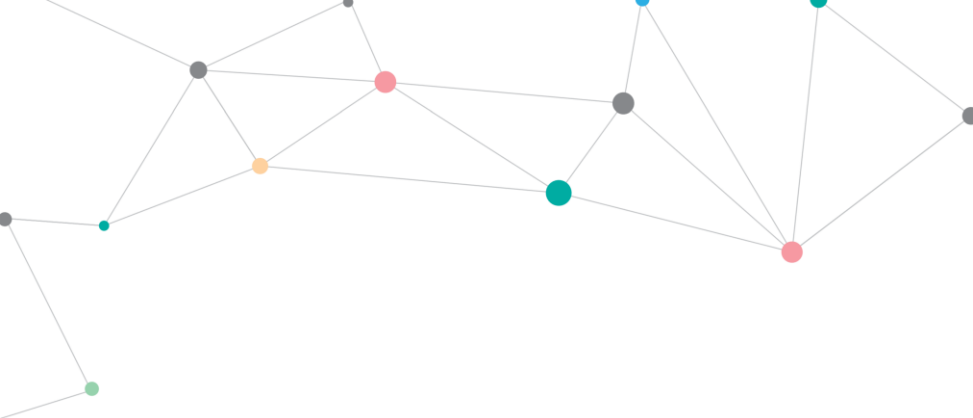
- **Physical lab access:**
 - Conventional on-site access: user in the lab during the experiments, jointly with the lab staff
- **Remote lab access:**
 - **User is not present in the lab** during the project implementation
 - Experiments performed by host lab staff
 - User supervises the experiments remotely (phone call, videoconference, remote SCADA, etc.)
 - **Advantages:** no safety implications for the user, lower access expenses (no expenses linked to travel, accommodation, insurances, etc.); **convenient solution during the COVID-19 situation**
 - **Contract** still needed (confidentiality, liability, intellectual property issues, etc.) and **mandatory reporting** still applicable

LAB ACCESS CALLS

- 3 calls for user proposals per year (10 calls during the course of ERIGrid 2.0):
 - 1st Call: 1 October 2020 – 31 December 2020 (closed: 11 proposals received)
 - **2nd Call: 1 February 2021 – 30 April 2021 (open)**
 - 3rd Call: 1 June – 31 August 2021
 - ...

**DO NOT MISS THE ERIGrid 2.0
LAB ACCESS OPPORTUNITY!**

<https://erigrd2.eu/lab-access/>



www.erigrd2.eu



@ERIGrid 2.0 Project

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