

EXECUTIVE BOARD MEETING – November 17, 2025

Zoom: 14:00 – 16:45 CET (UTC +1)

Present:

Anne Socquet: (UGA)

Carine Bruyninx: (ROB) – Chair of EB

Holger Steffen: (LM)

Jean-Luc Menut: (OCA)

João Lima: (UBI/C4G)

Juliette Legrand: (ROB)

Luis Carvalho: (UBI/C4G)

Rui Fernandes: (UBI/C4G)

New Actions:

Action	Task	Responsible	Status
28-1	Contact NFO and VOLC TCS to appoint representative in UFG	R. Fernandes	
28-2	Ask UFG to elect second representative of the UFG to the consortium board	R. Fernandes	
28-3	Inform data providers about election of DPC co-chair	R. Fernandes	
28-4	Coordinate the writing of MYCA 2025 annual report	R. Fernandes	
28-5	Coordinate elaboration of the draft workplan 2026 by Dec.15 2025	R. Fernandes	
28-6	Issue call for participation for ECR attending to EPOS days	R. Fernandes	
28-7	Put GeodesyML v0.6 on the agenda of software group	J. Legrand	
28-8	Organise discussion within software group about software licenses	J.L. Menut	
28-9	Attend software meeting before next SCC meeting	H. Steffen	
28-10	Develop plan with proposals for webinars + dates, collaborate with EUREF	R. Fernandes, A. Socquet, H. Steffen	
28-11	Ask CB to provide feedback on new EPOS-GNSS web site	J. Lima	
28-12	Make doodle for the next EB meeting, weeks 6 & 7	J. Lima	

Agenda

- 1) Approval of the agenda

- 2) Approval of the minutes of 27th EB meeting

- 3) Governance
 - 3.a Election of co-chairs of the data providers committee
 - 3.b MYCA report
 - 3.c EPOS days 2026
 - 3.d KPI working group

- 4) Report of coordinators + review of action items
 - 4.a Station network coordinator
 - 4.b Node infrastructure coordinator
 - 4.c Product coordinator
 - 4.d Software coordinator
 - 4.e Outreach and communication

- 5) ICS-TCS activities
 - 5.a Information
 - 5.b Other

- 6) AOB

1. Approval of the agenda

The agenda was approved after Carine proposed adding a discussion point regarding the KPI working group as the final item under Section 3 (Governance). There were no objections from the members.

2. Approval of the minutes of 27th EB meeting

Carine asked the members if there were any final comments or objections regarding the minutes of the 27th EB meeting. As no comments were raised, the minutes were approved.

3. Governance

3.a. Election of co-chairs of the Data Providers Committee

Rui proposed Nikolay Dimitrov (Bulgaria) as the Co-Chair of the Data Providers Committee (DPC). Since there was no opposition from the data providers committee, Mr. Dimitrov was elected. Following this decision, Carine updated Action Item 27-2 as completed. Regarding Action Item 27-1, it was agreed that Jean-Luc will take over the task and include the Executive Board (EB) in CC when discussing items related to other Thematic Core Services (TCS).

Rui then provided an update on the status of the User Feedback Group (UFG) Chair and Co-Chair. The UFG membership was recently renewed. An email was sent to the existing members asking them to confirm their interest in continuing in the group. Jeff was re-appointed as the Chair and representative. Rui still needs to request the other TCS to confirm their respective representatives in the UFG, and the UFG must elect its Co-Chair.

New action item(s):

Action	Task	Responsible
28-1	Contact NFO and VOLC TCS to appoint representative in UFG	R. Fernandes
28-2	Ask UFG to elect second representative of the UFG to the consortium board	R. Fernandes
28-3	Inform data provider committee about election of DPC co-chair	R. Fernandes

3.b. MYCA Report

Rui began by confirming that the **2024 MYCA report** is completely closed.

UBI plans to complete the **2025 MYCA report** in January 2026 for submission to ECO. Carine asked whether Rui would prepare the draft for the 2025 MYCA Report for the whole group, or if he would provide a blank template for everyone to write

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their sections. Rui responded that both approaches are acceptable, especially since the structure of the 2024 MYCA report is not expected to change significantly.

Concerning the **MYCA 2026 Work Plan**, Rui will start preparation, but he said it is necessary to obtain the final budget and task list from the ECO first. Rui mentioned that he does not expect significant changes in the tasks for 2026. He plans to distribute the first iteration of the Work Plan as soon as the final TCS budget is known. Carine informed Rui that the list of MYCA 2026 tasks was already distributed on 8 Oct. 2025 and that he can already start to fill on the 2026 Work Plan.

Carine commented that she send the final invoice for 2024 to UBI already before summer 2025, but that this invoice was paid just recently. According to the MYCA rules, these invoices have to be paid within the one month. Regarding the payment of the 70 % prefinancing for the 2025 MYCA, Rui Coutinho requested the partners in Nov. 2025 to submit their invoices, a request to which INGV and ROB have already responded. Carine noted that the request to send the invoice for the 2025 pre-financing only arrived in November 2025 and she suggested the process should be faster next year. The proposed solution is that as soon as UBI receives the funds from EPOS-ERIC, it should immediately notify partners, prompt to send their invoices straight away, and pay invoices within one month after reception.

Rui acknowledged the issue, noting that the payment of the final 30% of 2024 should have occurred before the final closure of the 2024 accounts. He committed to discussing the matter with Rui Coutinho. Rui emphasized that once UBI receives the money from EPOS ERIC, the group needs assurance that UBI will not be responsible for delays and will pay each invoice within one month.

New Action Item(s):

Action	Task	Responsible
28-4	Coordinate the writing of MYCA 2025 annual report	R. Fernandes
28-5	Coordinate elaboration of the draft workplan 2026 by Dec.15 2025	R. Fernandes

3.b. EPOS Days

Rui initiated a discussion regarding a call for Early Career Researchers to participate in the EPOS Days 2026 and asked specifically whether the call should include participants from outside the Consortium Board partners. It was noted that the TCS is expected to send ideally at least three people, and funding is available to cover the expenses for one participant from an organization that is not a partner of the EPOS ON project. Carine confirmed that the Royal Observatory of Belgium (ROB) will send one ECR and cover their expenses.

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Rui suggested calling upon other members from the Consortium Board (CB) (who are not a partner of EPOS ON) to nominate ECR to attend EPOS Days. If this internal nomination process does not yield enough candidates, the strategy proposed is to launch an open call targeting individuals outside the CB who are users of EPOS-GNSS services. Carine agreed with the possibility of launching an open call.

Rui confirmed he will send out an email regarding the open call for ECR participation in the EPOS Days 2026.

New Action Item(s):

Action	Task	Responsible
28-6	Issue call for participation for ECR attending to EPOS days	R. Fernandes

3.b. KPI Working Group

Carine informed the Board about the creation of a working group within the EPOS Service Coordination Committee (SCC) dedicated to defining the future usage statistics. The GNSS TCS was invited to submit a candidate for this working group as soon as possible.

Carine noted that while the Seismology TCS proposed three people, she was unsure if submitting more than one candidate would be acceptable. However, she suggested that ideally, the TCS should nominate two representatives: one focusing on the strategic point of view, and another on the technical point of view. The candidate should be someone technically capable of coordinating such an effort.

Jean-Luc volunteered to take on this role and Carine will propose him to the SCC as the GNSS TCS representative in the KPI Working Group.

4. Report of coordinators + review of action times

4.a. Station network coordinator

Carine gave an update on the station network, confirming that the TCS has received several proposals to incorporate new GNSS stations. Since the last EB meeting, 14 stations have been integrated, and 51 are proposed for future inclusion. A remaining task is the manual checking of data availability for remote stations to determine if they can be included in the EPOS network.

M³G saw key developments, including the successful publication of GeodesyML 0.6 by the IGS. New features include expanded sections for documentation, form information (to capture chronological changes), and associated documents. New attributes for associated documents now cover Keywords, License, Owner, Publisher, and Date. Furthermore, the introduction of GeodesyML 0.6 in M³G in

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2026 will proceed in two phases, starting with the establishment of a new API for GeodesyML 0.6 and a new directory on the FTP. She explains that the practical details of the transition to GeodesyML 0.6 will be dealt with in the software group. New DOI-related web services have also been created (station, network, node DOIs), and the initial results from a new M³G user feedback survey are currently being analyzed.

Regarding the DQMS, Carine reported on its activity between 27/03/2025 and 13/11/2025. The service sent 28 alarm-related emails. Specifically, 22 emails addressed data quality issues across 25 stations, resulting in 76% of those issues being resolved. Resolved issues included replacing antennae/cables, solving bad links, and updating firmware. An additional 6 emails dealt with availability and synchronization alarms, which are 100% resolved. Finally, 18 emails were sent concerning DQMS discussions and feature guidance.

New action item(s):

Action	Task	Responsible
28-7	Put GeodesyML v0.6 on the agenda of software group	J. Legrand

4.b. Node infrastructure coordinator

Jean-Luc, while overseeing the transition for Mathilde's replacement at OCA, started by noting he is fully available again after a period of limited availability. He requested that members should not hesitate to follow up with him on important administrative and organizational matters, even if his response is delayed. A meeting is planned for December between OCA and Géoazur to discuss the replacement of Mathilde, with recruitment anticipated at the end of the month.

The node system, as of November 17, 2025, holds 2165 stations (a 1.4% increase over the last 6 months) and approximately 9.3 million files (a 7% increase). The system currently integrates 12 local nodes and maintains 99-100% availability. The system population has reached approximately 9.3 million files since March 2020.

Regarding specific nodes, it was concluded that there will be no dedicated Bulgarian node, with the stations data instead being hosted at the NOA node. The French Node will begin distributing data via http/https, with node population expected to start in early 2026 using RINEX 2 files to avoid double reprocessing. The Romanian Node continues its slow batch population process. The Iceland Node, following contact and meetings, is requesting a VPN link between the DGW and their node, which Jean-Luc is investigating with his IT service.

Jean-Luc raised questions about Consortium Board Action Items. Concerning the Naming of Bulgarian Stations, the next step is to coordinate with the NOA node on

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renaming the metadata and archived data. Carine confirmed that the new station names must be used, which might require the renaming of some RINEX files at the NOA node. The issue of Software Licensing was also raised, requiring a discussion to define categories (Acquired, Contributed, and Generated Software) and proceed with open-source distribution principles for generated software. All of Jean-Luc's questions were addressed during the discussion.

Action	Task	Responsible
28-8	Organize discussion within software group about software licenses	J.L. Menut

4.c. Product coordinator

Anne reported that Action Item 23-8 is currently in progress with no new update, and Action Item 27-7 is completed. She provided an update on the Jupyter notebook with use case sent to ICS, noting that it can be adapted to any other case. This notebook allows for time series analysis of geodetic position data through several steps, including downloading time series and offset data from the EPOS-GNSS portal, downloading site log files from the M3G portal, and comparing offset values.

Regarding the EPOS ERIC SRA (Sponsored Research Activity), Giuseppe Puglisi is aiming to provide the Advanced Deformation Service (AdeS), which seeks to develop a new service allowing users to combine the EPOS ground deformation products.

The AdeS project has three Specific Objectives: (1) Characterization of current services for ground deformations, which includes implementing specifications for new TCS SAT InSAR products; (2) Implementation of the new service in the ICS-D, which centers on a Jupyter Notebook for referencing LOS velocity maps using GNSS data; and (3) Testing on selected use cases such as volcanoes, earthquakes, and mining activity.

The expected outcomes include delivering a beta-version of a service based on a Jupyter notebook, available from ICS-D, which allows users to check the suitability of GNSS data and integrate ground deformation products to obtain a 3D measurement. The outcomes also involve the documentation of the service and making a selection of generated products available to users for training purposes.

4.d. Software coordinator

Juliette provided an update on Action Item 27-5, confirming it is completed. However, she noted that the implementation, which occurred during the summer, was unfortunately not successful; the defined feature appears randomly at the ICS level and does not display as intended. She expressed hope that this issue will be

solved soon, emphasizing that the goal is to improve the service. Action Item 27-8 was discussed earlier in the meeting and remains ongoing.

4.e. Outreach and communication, training

Rui introduced the action item from the Consortium Board (CB) meeting to organize webinars and short meetings on scientific and technical topics. He suggested the first webinar could take place by the end of January, although no specific topic or presenter has been invited yet, and asked for suggestions on who to invite.

Carine, noting that the draft of the renewed MoU with EUREF has been finalized and sent to Lilli, proposed including webinars in this MoU and organizing them collaboratively with EUREF. Rui expressed concern that if the initiative is done in full collaboration with EUREF, the effort might be diluted, and people might not recognize the initiative as coming from the TCS. Carine suggested a dual approach: webinars organized by EPOS with EUREF collaboration, or separate webinars led by EPOS-GNSS only. Rui acknowledged that approaching EUREF for collaboration would lead to a broader discussion, meaning the decision regarding when and where to hold the webinars would no longer be solely theirs.

Anne suggested that the webinars should focus either on something specific to GNSS with scientific impact, or technical tutorials on how to download data. Carine proposed creating a small working group to discuss and decide the theme of the webinars. Anne expressed interest in participating in this group. Rui agreed to create the taskforce. Holger also joined the taskforce.

Action	Task	Responsible
28-9	Attend software meeting before next SCC meeting	H. Steffen

Regarding the TCS web site, João provided an update on the site changes and asked the CB to provide feedback on the new EPOS-GNSS website.

New action item(s):

Action	Task	Responsible
28-10	Develop plan with proposals for webinars + dates, collaborate with EUREF	R. Fernandes, A. Socquet, H. Steffen
28-11	Ask CB to provide feedback on new EPOS-GNSS web site	J. Lima

5. ICS-TCS activities

5.a. Information

Regarding training, Luis noted that while it was proposed at EPOS Days that each TCS should create training sessions on the use of the EPOS portal in relation to the

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services they provide, nothing has been done so far. It is necessary to design and create online training on the use of the ICS Platform, including the use of the TCS services, which could also provide good ideas for the creation of Jupyter Notebooks, and vice versa.

The Backoffice is still being actively developed and worked on.

For Services, the new GNSS station metadata service has been moved to the Facilities (currently temporary in DATA). Improvements to the information provided by the services are ongoing, and the team is reviewing how to best utilize the Linking Services. A new service, the EPOS GNSS Position Time Series Offsets from INGV, is being prepared, and they are working on a new way to show these offsets.

Regarding DOI/FAIR assessment of service metadata, it is now possible to see some results from the TCS in the staging environment. Luis noted that the team will analyze what is missing to improve the overall FAIR score. Carine suggested that the team should ask the ICS to show the FAIR results in a reserved area for the TCS, which would not be visible to all users.

On Linking Services, this option will only be fully available by the end of 2026, but a testing link has already been provided. The TCS needs to provide a clear description of how it intends to link its services together.

Finally, Carine requested that Luis ensures Holger is kept informed about discussions pertaining to the ICS. Holger will make sure to attend the software meeting just before his first SCC meeting.

6. AOB

Regarding the next meeting, the Executive Board should look at dates within week 6 and week 7. João will create a Doodle poll to confirm the exact date for the next meeting.

New action item(s):

Action	Task	Responsible
28-12	Make doodle for the next EB meeting, weeks 6 & 7	J. Lima

End of meeting.