



**European
Commission**
European
Climate,
Infrastructure
and
Environment
Executive
Agency (CINEA)

WP3 Final Report

Reporting period: 01/07/2019 – 31/05/2021

1. INFORMATION ON THE ACTION

Grant Agreement N°	INEA/CEF/TRAN/M2016/1352262
Action number	2016-EU-TMC-0075-S
Action title	eGAFOR

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2. INFORMATION ON THE PROGRESS OF THE ACTION

Overview of progress in the reporting period

The overview should include a description of the actual progress in the reporting period, referring to the main issues, milestones and events that affected progress.

Work package 3 – WP3: eGAFOR system development

The aim of this activity was the development of a system for the eGAFOR in agreement with the MET experts of the other project partners. This Work Package depended on WP2 because the requirements for the eGAFOR prototype were defined in WP2. It was also interdependent with the WP4 because the live testing and validation were done in parallel with forecasters training.

Deliverables:

D3.1 Technical acceptance protocol and report on eGAFOR prototype drafted and approved by all partners (milestone 12)

D3.2 Technical acceptance protocol and report for the testing and validation of the eGAFOR system prototype approved by all partners (milestone 13)

Meetings:

1st review meeting, Bratislava, 20/08/2019

2nd review meeting, Bratislava, 22/10/2019

3rd review meeting, Bratislava, 09/01/2020

WP3/WP4 joint training, Bratislava, 26/02/2020

Final WP3 review meeting, Bratislava, 27/02/2020

The online final meeting, 17/05/2021

Milestones:

M3.1 eGAFOR prototype system production

M3.2 Testing and validation of the prototype

Date of reaching milestone:

M3.1 27/02/2020.

M3.2 17/05/2021.

Short overview of the progress:

This activity includes the following tasks, as defined in the grant agreement:

- Producing the prototype system
- Testing and validating the prototype

Producing the prototype system

Together with the beginning of WP3, IBL started the implementation of the prototype of the eGAFOR solution based on WP2 reports and technical specifications. It was decided that the eGAFOR system prototype will consist of two main parts:

- eGAFOR Editor – an application on which forecasters will create eGAFOR forecast
- eGAFOR Viewer – an application on which the forecast will be displayed for the end-users

On the consequent review meetings in Bratislava IBL presented development stages of the prototype of eGAFOR Editor and collected comments and suggestions from the partners. Based on those discussions, requirements were modified and a few new ones were added.

At the beginning of 2020 IBL implementation team was fully focused on the preparation of the prototype version capable for purposes of the WP3/WP4 joint training at the end of February 2020.

During the joint training, all the main functions of the eGAFOR Editor prototype were trained and a simple version of the viewer was presented. The version presented during the training used only ad-hoc temporary backend/middleware service and the connection to the final backend was not completed. IBL collected useful feedback from many participants.

At the final WP3 review meeting the eGAFOR Editor prototype was tested against functional requirements by all partners participating in the meeting and the acceptance protocol was prepared and approved. The protocol was prepared with noting that the development of the prototype will continue during the rest of the year 2020. After the fruitful discussions, few requirements were modified and updated.

After the final WP3 meeting, implementation was focused on the connection of the eGAFOR Editor prototype with the final backend service, improvements of the backend/middleware. Unfinished

must/should requirements were implemented and multiple improvements based on the user feedback were implemented too. eGAFOR Viewer prototype was fully redesigned and implemented according to the functional requirements.

Before spring 2020 the eGAFOR Editor prototype was enhanced to allow usage on WP4 national level workshops organised by partners. Development was focused on fixing the major bugs and stabilising the prototype. The prototype was deployed at the IBL testing environment and published for partners' training purposes. Due to the pandemic and the consequent project prolongation, the duration of the WP3 was extended to 31/05/2021 as well. The partners have decided that additional time in the WP3 will be used for the implementation of some of the would/could requirements.

Before December 2020, in accordance with milestone 13, M3.2 Testing and validation of the prototype (due 30/11/2020) all the musts requirements (except an administration portal) were implemented. The prototype was successfully verified during the partners' national level workshops.

In 2021 implementation was focused on unfinished must/should requirements and multiple improvements based on user feedback. The eGAFOR Viewer prototype implementation was finished according to the functional requirements. eGAFOR Administration part was implemented as well.

Testing and validating the prototype

IBL prepared a testing environment for partners at the beginning of the year 2021 and regularly provided new updates there. Functionality was discussed regularly via ad-hoc phone calls and discussion over the IBL Slack channels.

Partners started with regular testing issuance of forecasts after 1 March 2021, including the Joint level workshop, where the pre-operational use of the prototype has been tested and validated. All the reported issues were implemented by IBL.

The final testing of the prototype was held on 14 May 2021. During the final meeting on 17 May 2021, all partners participating in the meeting reviewed the requirements and the acceptance protocol was prepared.

Conclusion

Due to the pandemic and the consequent project prolongation, the duration of the WP3 was extended to 31/05/2021 as well, and the deadlines for delivering the milestones were rescheduled accordingly.

The milestone 3.2 was reached two weeks ahead of the schedule, because it was required for the operationalization of the eGAFOR that took place on 20/05/2021.

All the partners actively participated in all activities and tasks scheduled in the WP3 of the Project. Thanks to that, all the goals in the WP3 are achieved.