eGAFOR Project

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Challenges in Meteorology 6
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What is eGAFOR?

GAFOR (General Aviation FORecast) is a forecast of the state of previously defined routes for general aviation depending on horizontal visibility and low BKN/OVC cloud base.

CCL introduced GAFOR 2015.

eGAFOR will be an upgraded GAFOR.
What is general aviation?

General aviation (GA) are all civil aviation operations other than scheduled air services and non-scheduled air transport operations for remuneration or hire. General aviation flights range from gliders and powered parachutes to rotorcraft and corporate business jets.
Problem of (no) practicality
GAFOR – meteorological problems
Initial idea

- The users like GAFOR - offer them a similar, but upgraded product
- Harmonizing forecasts and criteria over a larger area, and creating a single product for multiple countries
- Introducing probability forecasts to the product
- Harmonizing of forecasting and product generation between different METSPs
- Use the obtained information for other products in the future
The Project

- Project idea reported to INEA through CEF Transport Call 2016
- The Project is approved and co-financed with 85% of the EU
- The Project started on 03.07.2017 and will end on 31.12.2020
The Partners

CCL (Croatia) - the initiator and the lead partner
ARSO (Slovenia)
BHANSA (BiH)
OMSZ (Hungary)
ROMATSA (Romania)
SHMU (Slovakia)
SMATSA (Serbia and Montenegro)
IBL (Slovakia) - an industrial partner
MET phenomena in eGAFOR

It was decided that the following weather phenomena hazardous for aviation would be forecast in eGAFOR:

- Low BKN/OVC ($\geq \frac{5}{8}$) cloudiness
- Visibility
- Turbulence
- CB cloudiness
- Freezing precipitation
Collaborative forecasting

- Simultaneous
- Harmonized
- Seamless on borders
How will all this be forecasted?

Polygons defined by:
- time interval
- severity of phenomenon (thresholds)
- probability of occurrence
Phenomena forecast $\rightarrow$ impact

To make a forecast understandable to the pilots, it must be adjusted to them.

That means, the meteorological forecast will be translated into the impact (state of the route) shown in „traffic-light" colors.
How will the user see the forecast?

Interactive web based product intended primarily for use on mobile devices

www.egafor.eu
Why stop here?
Thank you for attention