

# DESTINATION EARTH

---

**Post-processing for wind energy production: added value of hectometric NWP forecasts with NWP wind farm parameterization and targeted machine learning**

Irene Schicker<sup>1</sup>, Evgeny Atlaskin<sup>2</sup>, Geert Smet<sup>3</sup>, Iris Odak<sup>4</sup>, Natalie Theeuwes<sup>5</sup>, Meier Florian<sup>1</sup>, Dieter Van Den Bleeken<sup>3</sup>, Joris Van den Bergh<sup>3</sup>

<sup>1</sup>GeoSphere Austria (Austria), <sup>2</sup>FMI (Finland), <sup>3</sup>KMI-RMI (Belgium),  
<sup>4</sup>DHMZ (Croatia), <sup>5</sup>KNMI (Netherlands)



Funded by  
the European Union

**Destination Earth**

implemented by





## Post-processing for wind energy with focus on extremes:

- What are extremes for the different sectors (energy providers, wind farm operators, etc.) and how can we align them?
- Needs high spatial and temporal NWP data able to “see” the wind flow within and across wind farms including wakes
- Needs metadata (location, type of turbine, wind farm layout, hub height,..) for both, NWP and post-processing for accurate depiction and predictions
- Needs training data but we can work with synthetic information based on metadata
- Needs to cover uncertainty





Funded by  
the European Union

Destination Earth

implemented by



# Want to know how we tackle that?

→ see us at the poster!

