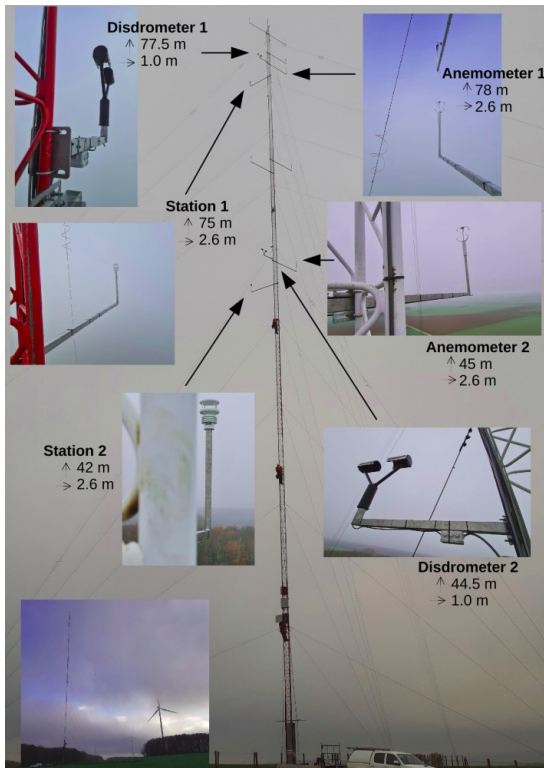


A pilot site : the wind farm of Pays d'Othes



4 turbines (totalling 8 MW of power production) operated by **BORALEX**

With a 86 m instrumented meteorological mast:



HM&Co Team :

Coordinator:

Auguste Gires
auguste.gires@enpc.fr



Daniel Schertzer
Ioulia Tchiguirinskaia



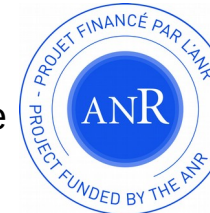
RW-Turb

Rainfall Wind Turbine or Turbulence

Funding:

2019-2022

The project is funded through the JCJC (for young scientist) scheme of the French National Research Agency



Partners :

Involvement of a wider academic and industrial consortium :



Ernani Schnorenberger

Sandrine Aubrun



Joachim Peinke

Paul Veers



<https://hmco.enpc.fr/portfolio-archive/rw-turb/>

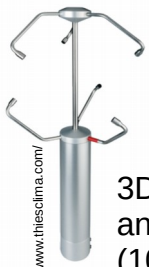
What RW-Turb is about ?

RW-Turb relies on the expertise of HM&Co in measurement and modelling across **wide range of spatio-temporal scales** of atmospheric **turbulence and rainfall** to quantify the impact of the latter on **wind power production**.

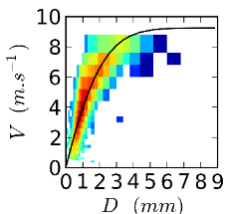
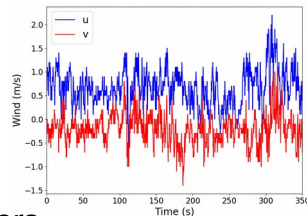
This project benefits from an industrial partnership with Boralex, a wind power producer.

RW-Turb will open new paths to improve **nowcasts of power production**, a major challenge in a framework of increasing use of **renewable energies** in France and Europe.

High resolution instruments :



3D sonic anemometers (100 Hz)



Disdrometers (size and velocity of falling drops)



+ T(°), humidity and pressure sensors.

Outline of the project

