Kraken - a scientific and commercial data meta-platform for wind energy resources

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Several international and national initiatives allow access to data from wind measurements, e.g. NREL wind prospector or the international wind atlases. But there is no adequate platform for combined commercial and scientific needs.

Kraken realizes open data concepts for scientific access combined with corresponding licenses for commercial use. To this end, we offer all users to provide links and a possibility for direct upload of wind-related data. Information on data provenance and usability concepts should be provided. This way, we can collect and provide data of different quality (possibly not to scientific standards) and for different use cases. Scientifically, this may allow access to, e.g., wind park data which would otherwise not be accessible. Commercially, an access to the enormous data bases is possible at one place, a problem that often is underestimated.

On the long run, automatized intelligent analysis of the data will be implemented and the corresponding reports may be published, depending on the licenses related to the underlying data. The whole project is intended to be community-based and extensible to all kind of renewable energy data.

In a first attempt, a website has been launched with limited functionality, now we are trying to involve as many as possible data sources. In addition, we welcome the open implementation of analyses as already offered by other sites (site characterization, feature engineering, improved weather parameterization).