

# Wind-PIA

## Wind farm planning and IT architecture

The process of planning a wind-farm takes 3 to 5 years. During this time the amount of data and information regarding the wind farm increases and changes continuously.

Several experts from different disciplines using different software-tools (GIS, CAD, WindPRO, etc.) are involved in the planning process. Questions, decisions, analysis results and other information resulting from rough and detail planning, environmental impact assessment, cost-effectiveness analysis, contract management etc. have to be continuously aligned and combined to deliver an homogeneous picture and solid planning result.

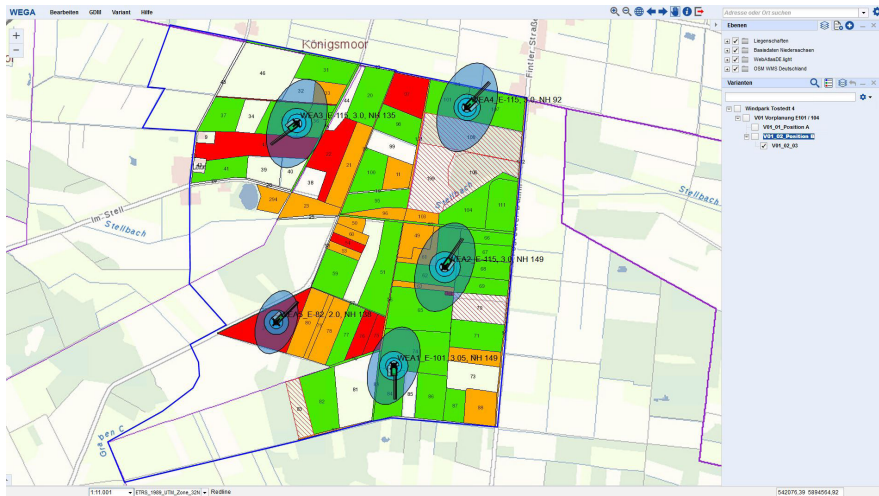
Until one can apply for a license for implementing a wind-farm, rejection of planning situations and reactivation of older planning situations are daily business.

Wind-PIA supports the efficiency of these processes by managing the different layouts and ensuring transparent access to the different versions of data and information.

At the same time Wind-PIA provides an overview of all the different ongoing plannings. Using Wind-PIA can increase the performance of the whole planning process up to 20% and the reliability of each step in the process.

Wind-PIA covers the following features:

- **Central, consistent and homogeneous information model**  
All information related to the process such as different layouts, geo-information and their attributes, contracts and survey data are managed in a homogeneous data model.
- **Web Client**  
Using the integrated Web Client browser based access to data and information, working results, different layouts, etc. from every PC or mobile device is ensured.
- **Integration with specialised applications**  
Wind-PIA integrates and manages the intermediate and final results generated by the specialised planning applications (such as AutoCAD, GIS, WindPro, other) and provides continuously an up-to-date view on the planning status.
- **Role based user concept**  
Role based user access-, view- and modification-rights can be defined for planning locations and layouts on the one side and type of information (geo-data, contracts, surveys etc.) on the other side.
- **Property management**  
Easy and intuitive update and administration of land-property objects and information
- **Contract- and survey management**  
Wind-PIA includes an efficient management of contractual and survey documents including annotations and effective search mechanisms supporting the search for context, time and location of the documents.
- **Integration into existing IT environment**  
Wind-PIA uses standard interfaces to co-work with existing Elements of your individual IT-environment such as ERP, CRM, DMS, etc.



mapping: WEGA Wind WebGIS Klient

### Your benefits from Wind-PIA are:

- Central overview on all ongoing planning activities
- Intuitive, homogeneous and full access to different layouts of the wind-farm planning process and related informations
- Increased security and robustness of data-, information and processes
- Less efforts for data conversion, -exchange and -transformation
- Consistent and controlled management of duties and rights on data and processes
- Less redundancies in data and data update processes
- Standard based exchange of data and information
- Quick and effective synchronisation of planning status between employees and their disciplines

Increasing-Motivation  
 Increasing-Transparency  
 Time-Profit  
**Increasing-Efficiency**  
 Increasing-Value  
 Cost-Reduction  
 Decision-Safety

**„Using Wind-PIA, each wind-farm-project gets a professional structured digital twin supporting the rise of data quality while information are collected and managed during the planning process.“**

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