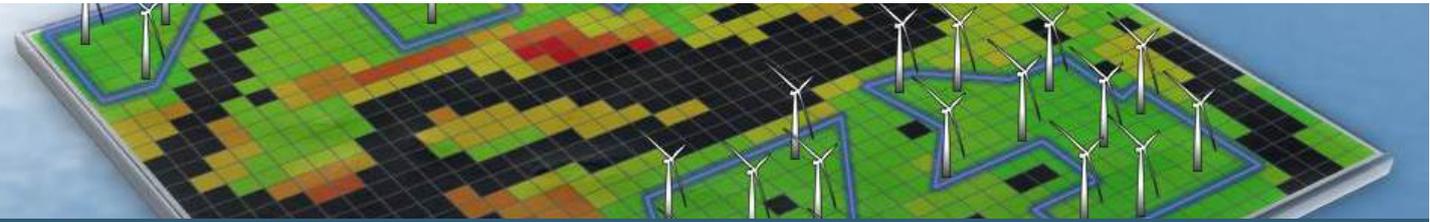


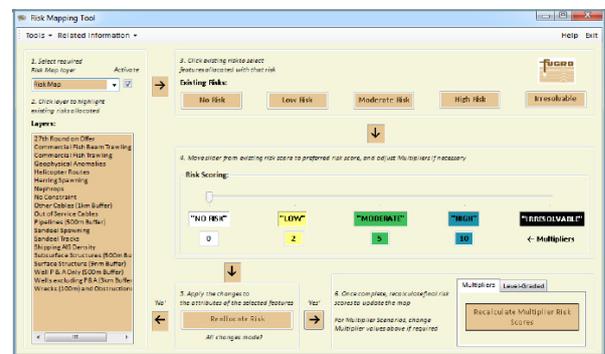
GIS - Site Selection and Risk Mapping



From concept to consent – identifying sites for development and the risks to consent.

Site Selection, Feasibility and Risk Mapping

The most appropriate site for any development is crucial, from identifying developable areas at regional scale to understanding the constraints and issues at a local level. Fugro EMU Limited's Consultancy and GIS groups have integrated the environmental and permitting knowledge with spatial analysis methodologies to support developers throughout this process.



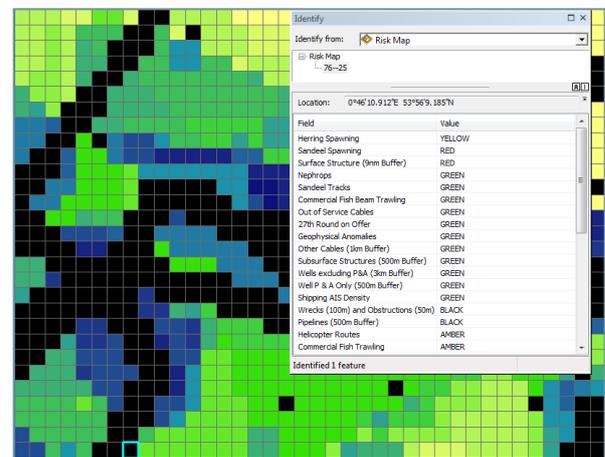
The risk mapping tool

Site Selection and Constraints Mapping

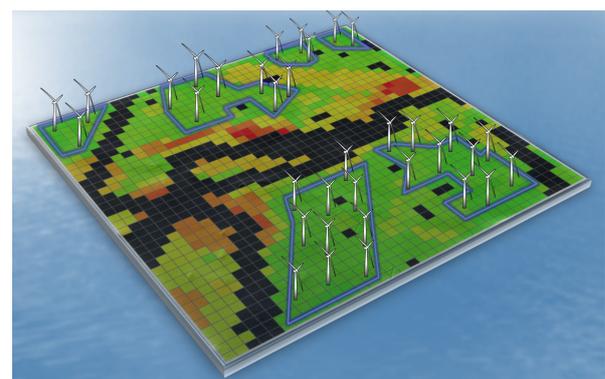
Fugro EMU works closely with clients in various sectors to inform development area site selection studies. By integrating physical, ecological and socio-economic sensitivities, we are able to support the decision-making process using our extensive knowledge of marine and terrestrial data sources in order to identify and characterise key development areas for project types including.

- Offshore wind farm zone, subzone and layout selection studies
- Cable and pipeline routeing
- Wave and tidal projects
- Any other offshore project

For any given project, Fugro EMU has the in-house capabilities to produce comprehensive reporting and data product outputs through the application of innovative site selection procedures.



Identify risks associated within a grid cell



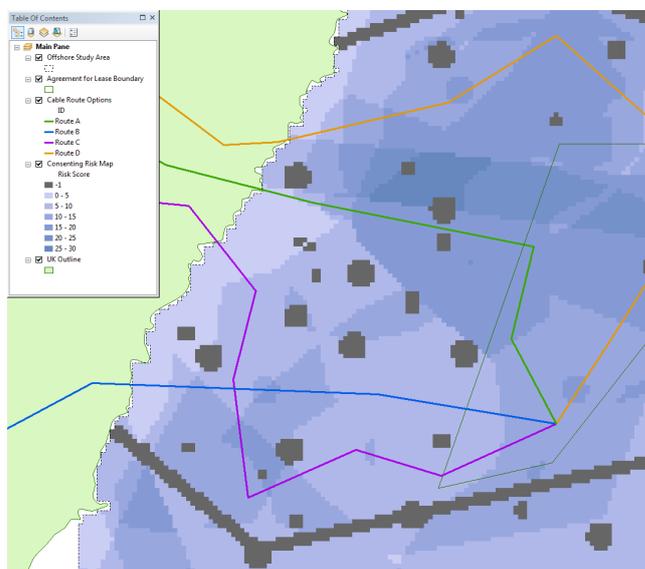
Identifying subzones within a development region

GIS - Site Selection and Risk Mapping

Feasibility and Risk Mapping

Through our experience of site selection and environmental characterisation projects, Fugro EMU has developed a GIS-based risk mapping methodology. Incorporating multi-criteria analysis of all constraints to a development - informed by Fugro EMU's marine consultants – the methodology enables an evidence-based approach to the site selection process, bespoke to each project.

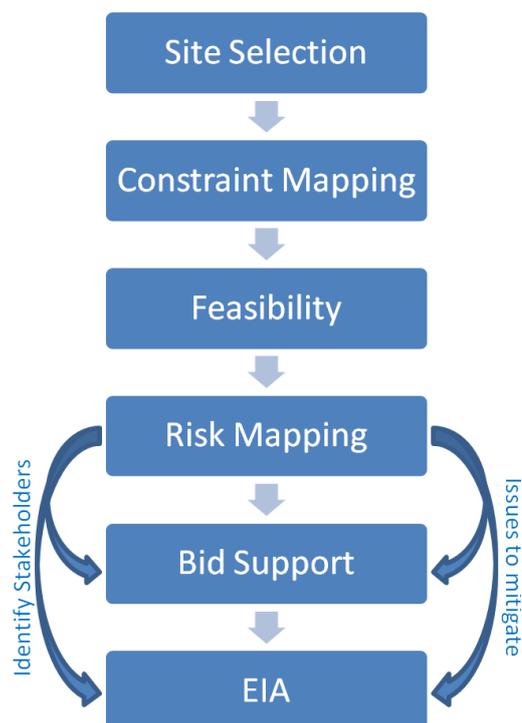
In support of this, Fugro EMU can also produce cost of development models allowing the developer to compare and assess the commercial viability of project locations or choice of technology.



Decision Making Tools

In combination with the risk mapping methodology, Fugro EMU's expert GIS team have developed a customised risk mapping tool. For use in ESRI's ArcMap software, the tool allows end-users the flexibility to amend GIS risk mapping outputs based on their changing and evolving understanding of the impact constraints may have on the consenting of a development project.

These tools are adapted on a project-by-project basis and can be integrated with cost of development mapping outputs to provide developers with a bespoke system with all the information required for locational decisions.



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