EUROPEAN UNION

IHO European Network

Plenary Session

27th, French RP, Brussels

12.03.18

Decision Aid Tools, impact tools

Within SOLAS framework HO are familiar with cartographic deconfliction for safety aspects.

MSP resolution need significant amounts of data, HO's ones in particular.

As a consequence HO are in good position to interact in MSP process that try to manage both human activities, safety at sea and environmental recommendations.

Decision aid tools are now part of GIS tools, considerable progress have been made to use it in MSP projects. There are more an more user friendly IT tools that bring collaborative support for maritime decision making.

Next Steps ?

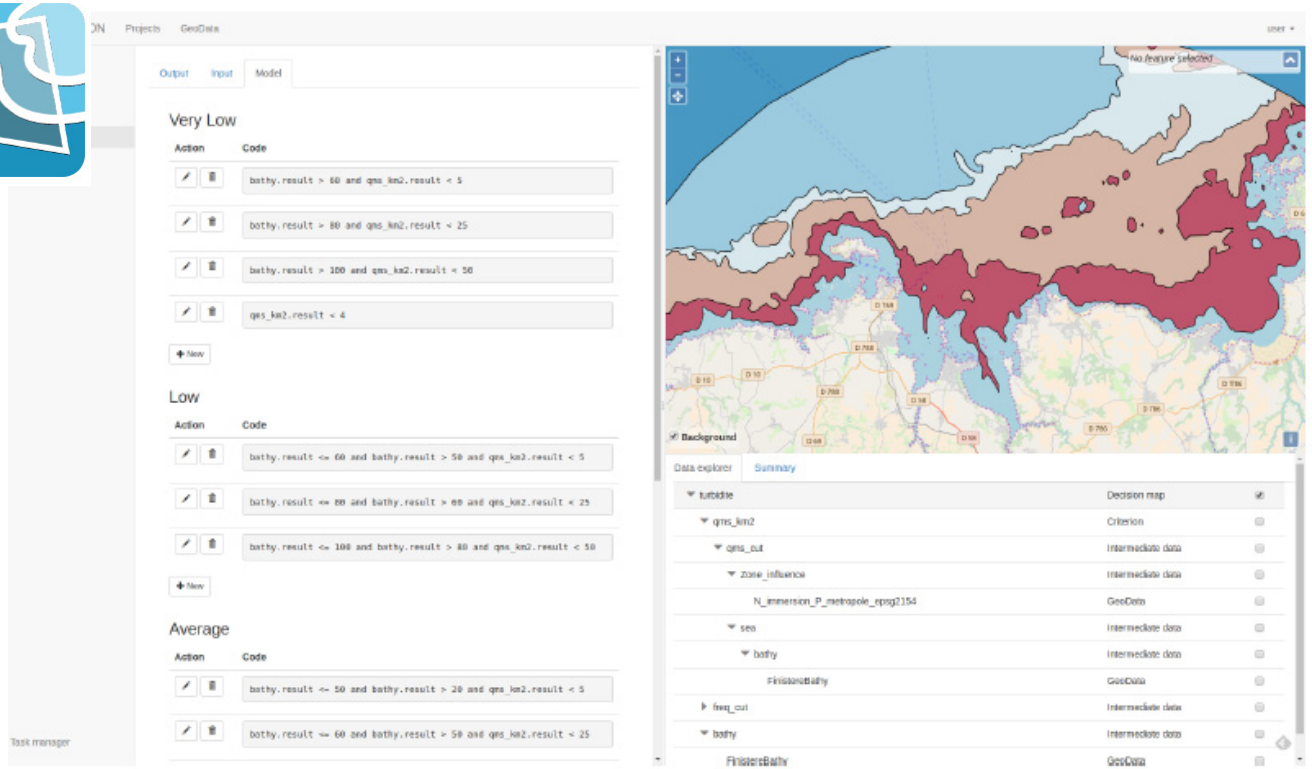
Decision aid tools usually mix experts rules through weighted average methods the results of which are sometimes obscure or uneasy to understand

The guidelines for the next generation tools could be :

- Activity vs Environmental considerations solved though compatibility matrix with underlying conditions, veto and weak preferences included
- Temporality of activities taken into account to reach consensus and to optimize space
- Partial (rather total) cumulative tools for better awareness of antagonistic point of view
- Model of the full bottom-up decision circuit (from expert views to high level policies)
- Keep human in the loop (public interest enquiry, expert elicitation, recommendations)
- Backtracking, transparency and traceability all along the processes (storyboard, replay)

E.g. DeSEAsion

A collaboration between Shom & Scientifics (IMT Atlantic / LABSTICC)



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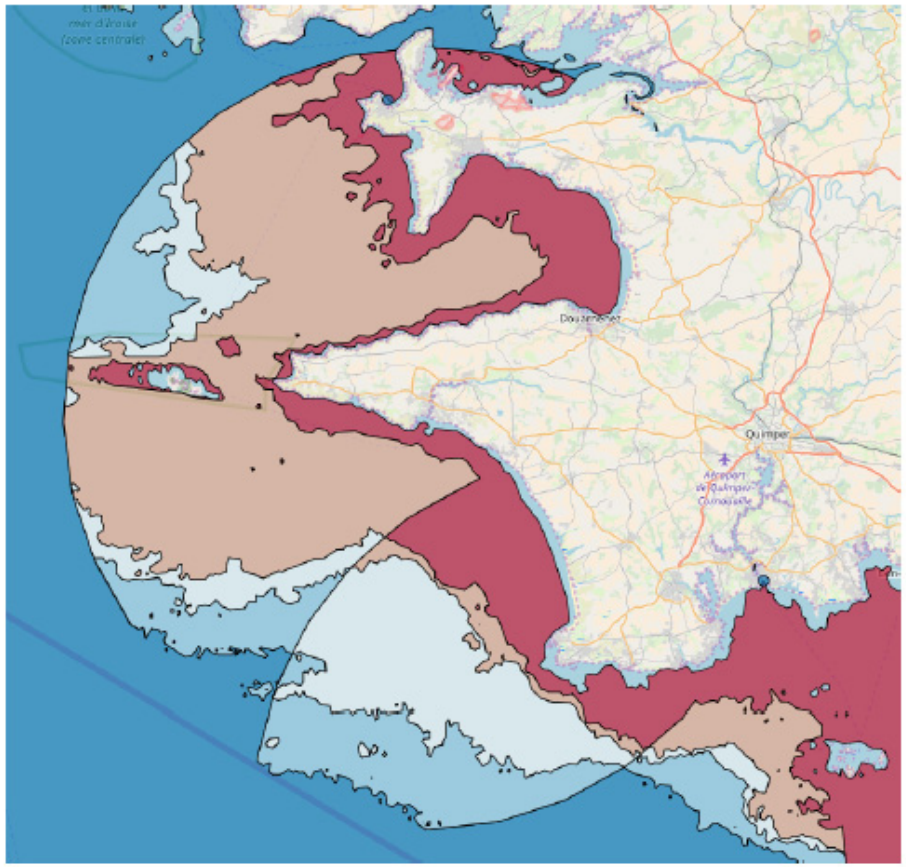
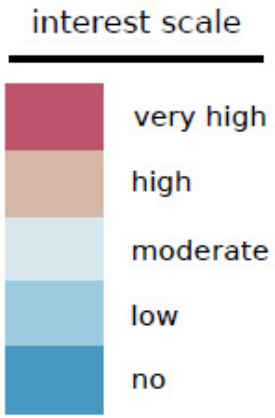
E.g. DeSEAsion

Evaluate maritime zones according to multiples perspectives





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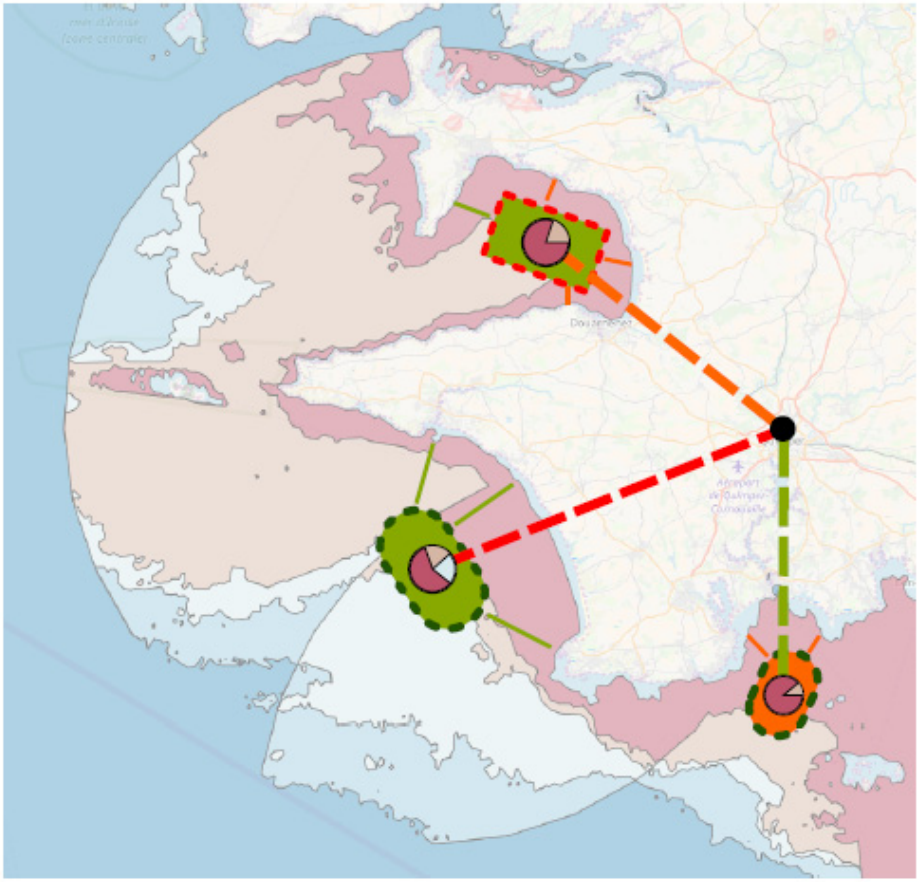
E.g. DeSEAsion

Generate recommendations for MSP



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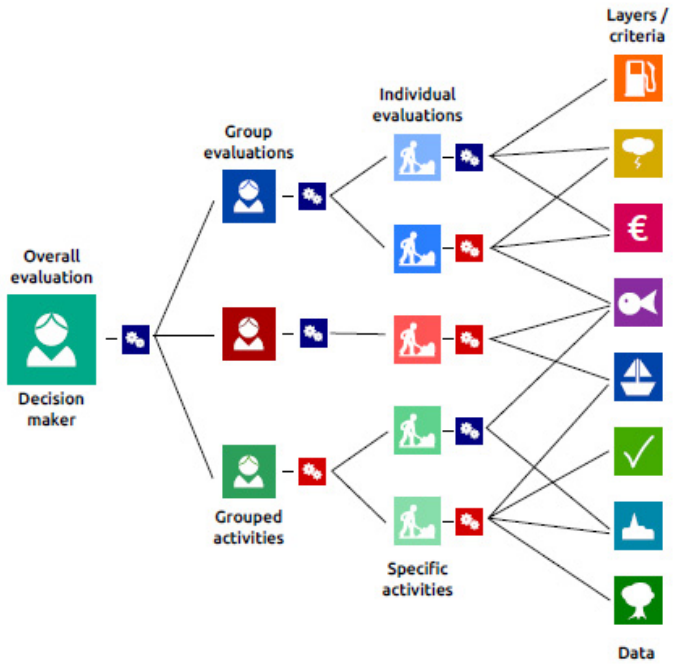
E.g Deseasion

Features

- **Hierarchical** structuring
- Multiple **objectives**
- Multiple **stakeholders**
- **Traceability** and **justification** of the decision recommendation



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