

OES-Environmental Webinar: Planning Ahead to Address Environmental Effects of Marine Renewable Energy

Marine Energy Environmental Toolkit for Permitting and Licensing

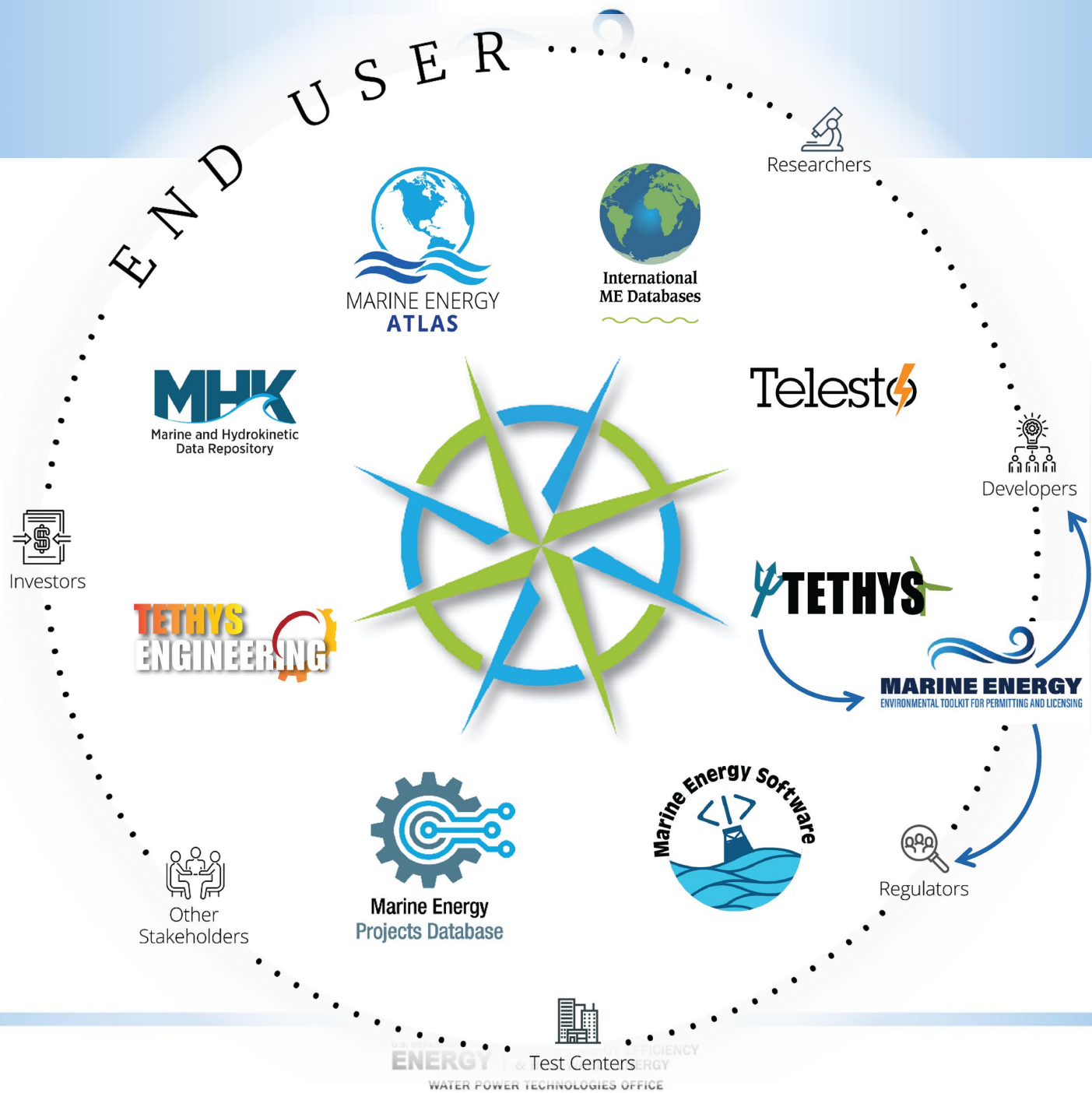
January 19th, 2023



Sandia National Laboratories is a multi-mission laboratory managed and operated by National Technology and Engineering Solutions of Sandia, LLC., a wholly owned subsidiary of Honeywell International, Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525. This paper describes objective technical results and analysis.

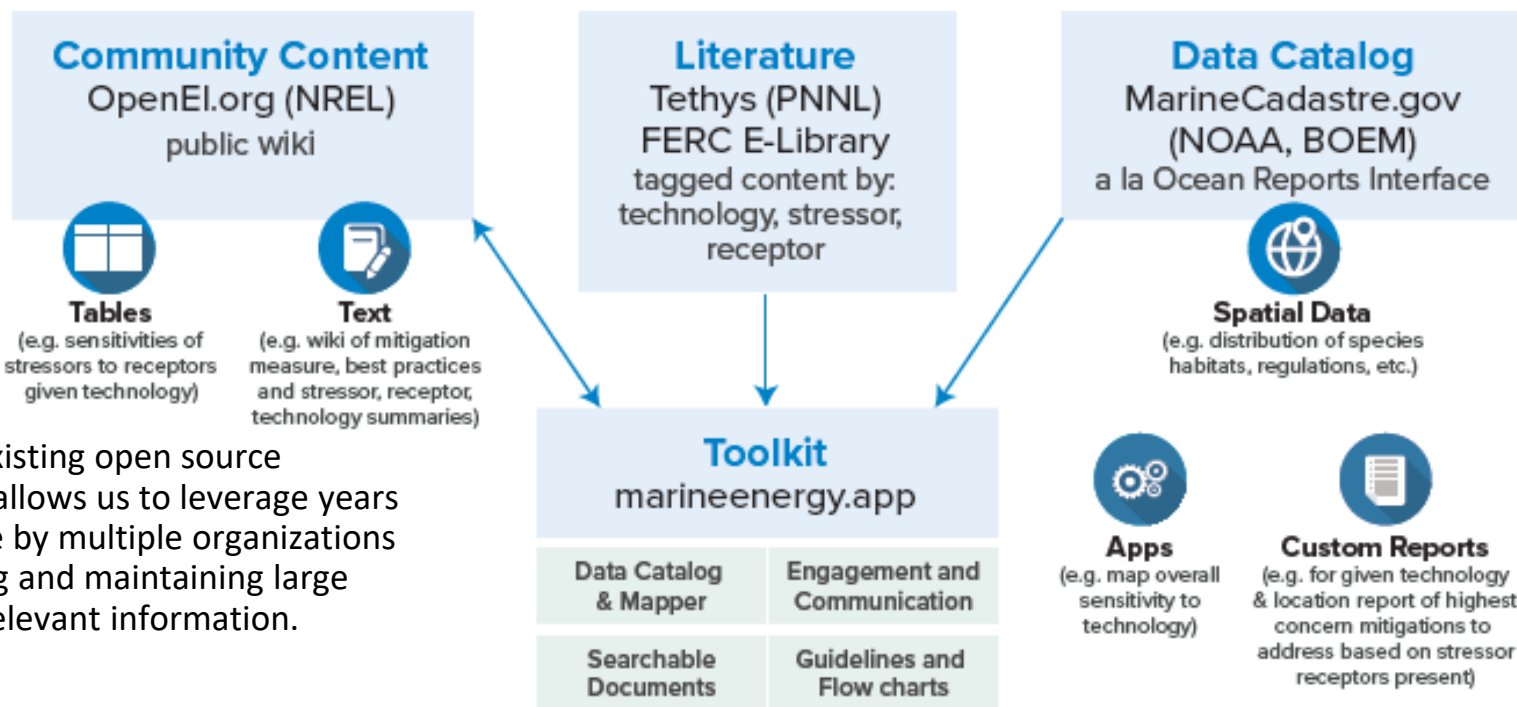
END USER





Toolkit Concept

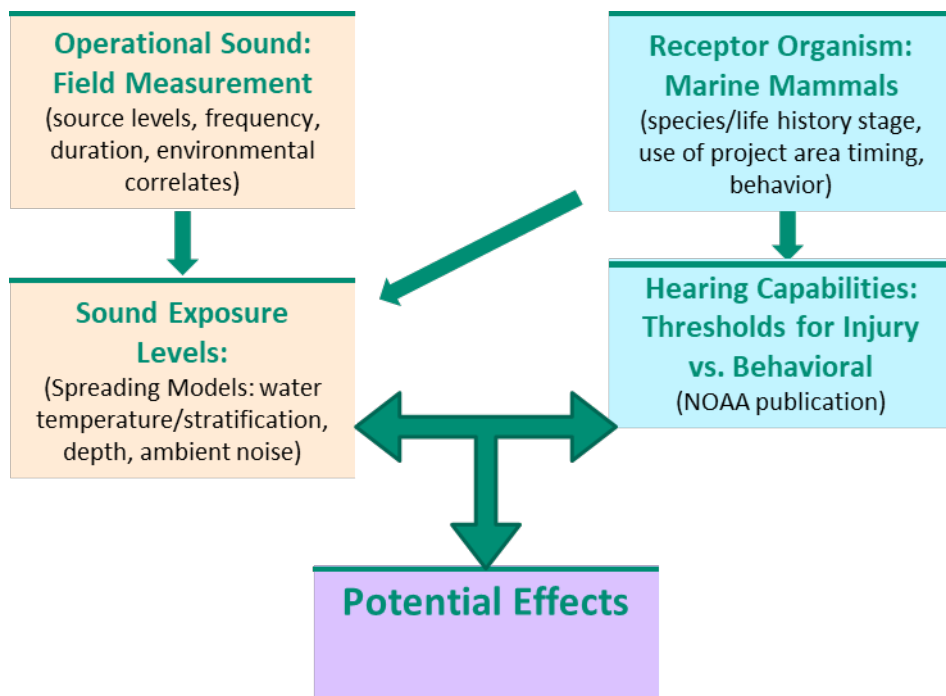
DATA SOURCES



Relying on existing open source information allows us to leverage years of work done by multiple organizations in completing and maintaining large catalogs of relevant information.

OpenEI
Tethys
FERC
MarineCadastre

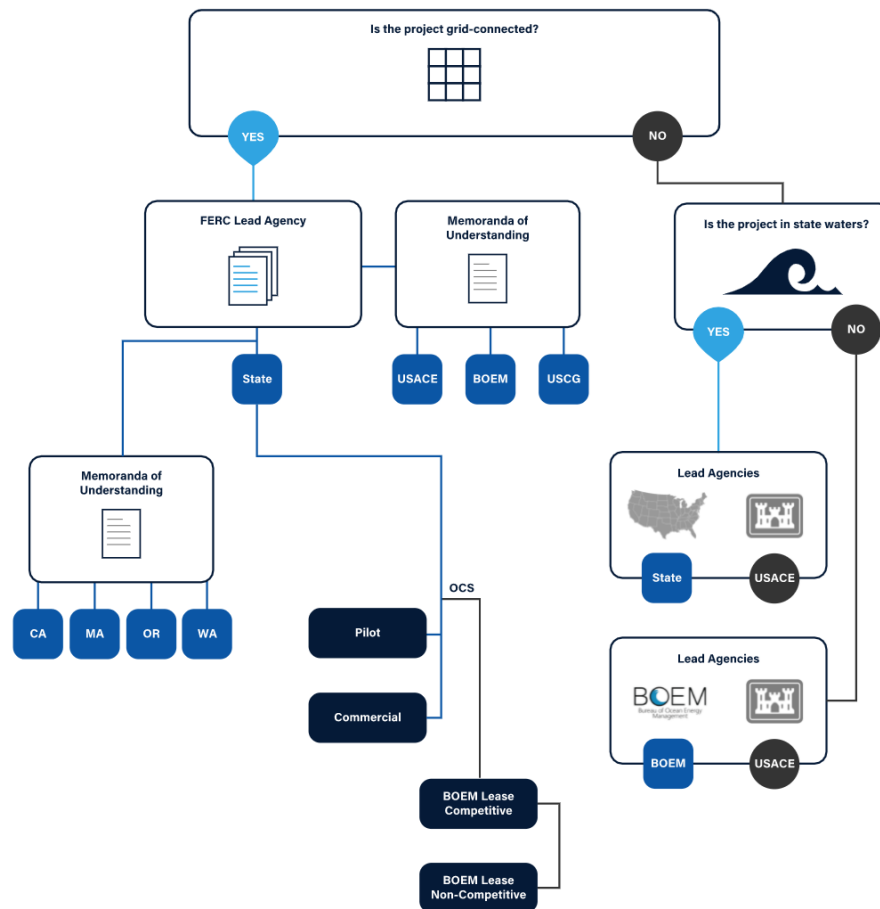
Data Synthesis (Conceptual Model)



Use same terms as Tethys, so that the information in Tethys can be used to inform interactions in the Toolkit

Data Synthesis (Regulations)

- Compilation of online resources from federal and state agencies for required permits.
- Delineation of regulatory requirements for less experienced developers using a flow diagram and key questions about their project.





MARINE ENERGY
ENVIRONMENTAL TOOLKIT FOR PERMITTING AND LICENSING

Demonstration

Closing Thoughts

- Based on the pilot testing process, this Tool helps facilitate various phases of developing a marine energy project.
- The Toolkit's framework for aggregating disparate sources of information can help reduce the use of several tools and organizes information for user needs.
- The application to other jurisdictions outside the U.S. can help efficiently and effectively permit marine energy.
- If you're interested in learning more about the Toolkit or would like to share your feedback, please email Zach Barr at zbarr@kearnswest.com