

# From Data to Deliberation - Rethinking Data Management for Sustainable Offshore Wind

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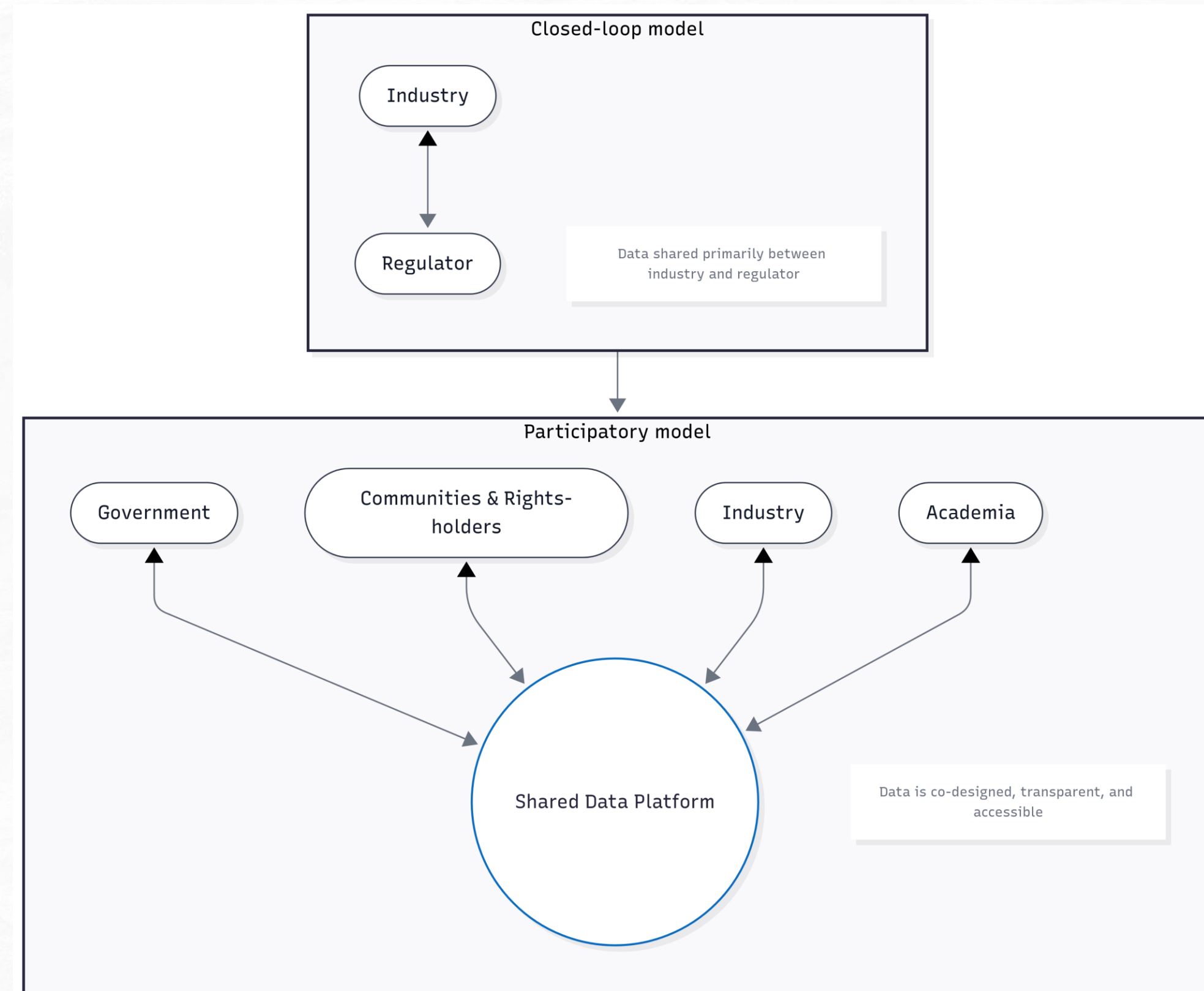


# The Problem

- Offshore wind development is moving fast, and speed creates risks
- Without a participatory approach projects face delays, duplication, and conflict
- Current data systems do not allow all parties to contribute or access information in meaningful ways



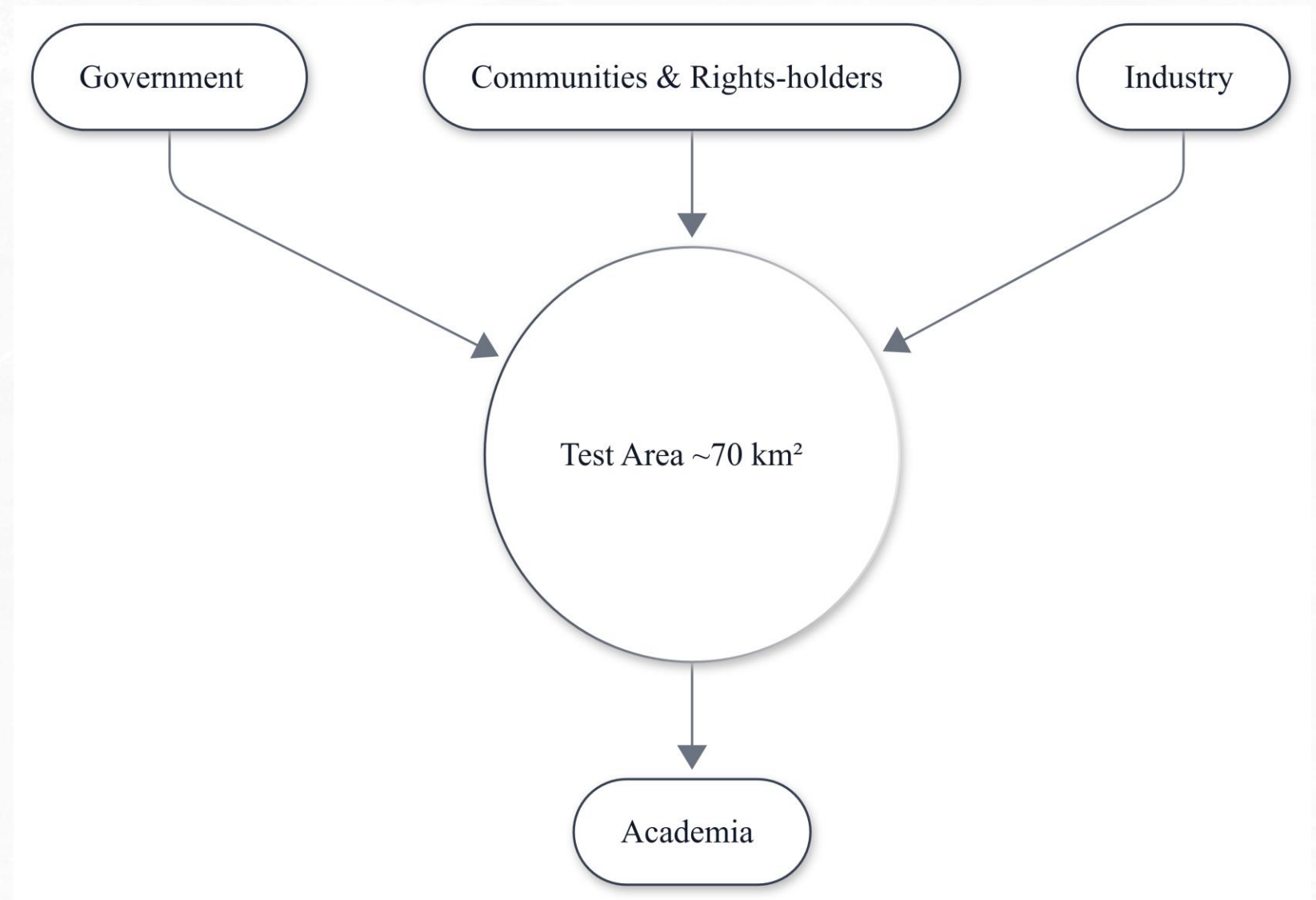
# Rethinking data management





# 70 km<sup>2</sup> test case

- Co-designed protocol defines what data is collected, where, and how
- Transparent methods and shared standards leverage existing capacities
- Data is shared in forms that are interoperable (for machines) and interpretable (for people)
- Information products support stakeholders in applying science to real decisions



# Interoperability vs. Interpretability

## Interoperable



- Machine-readable and standards-based
- Easily combined with other datasets
- Supports technical analysis and modelling

## Interpretable



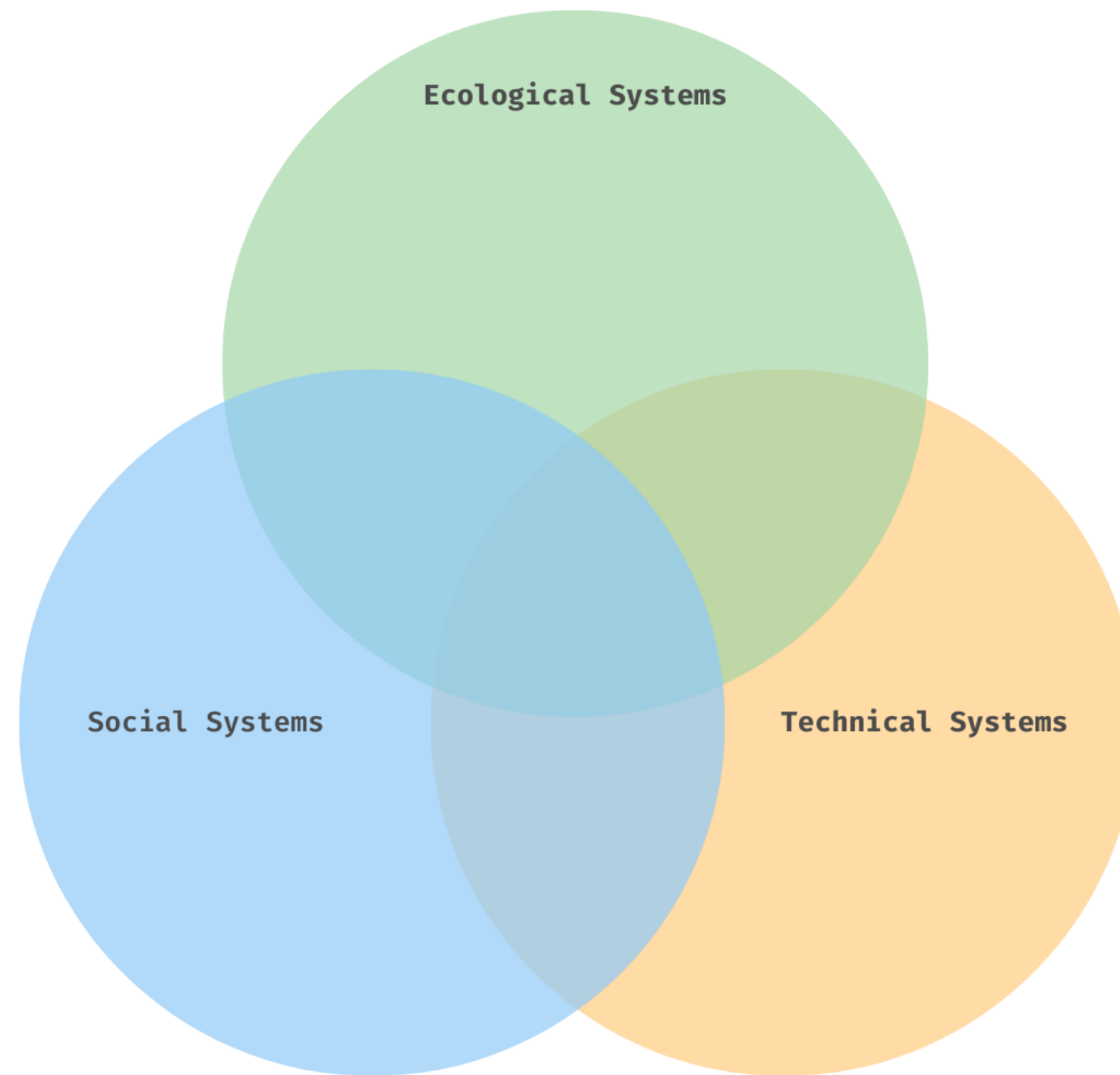
- Understandable
- Presented in accessible formats (dashboards, maps, summaries, infographics)
- Supports decisions by communities, policymakers, and industry

**A data system for offshore wind must be both machine-ready and human-ready**





# Place-based Knowledge Co-Production



# Key Takeaways

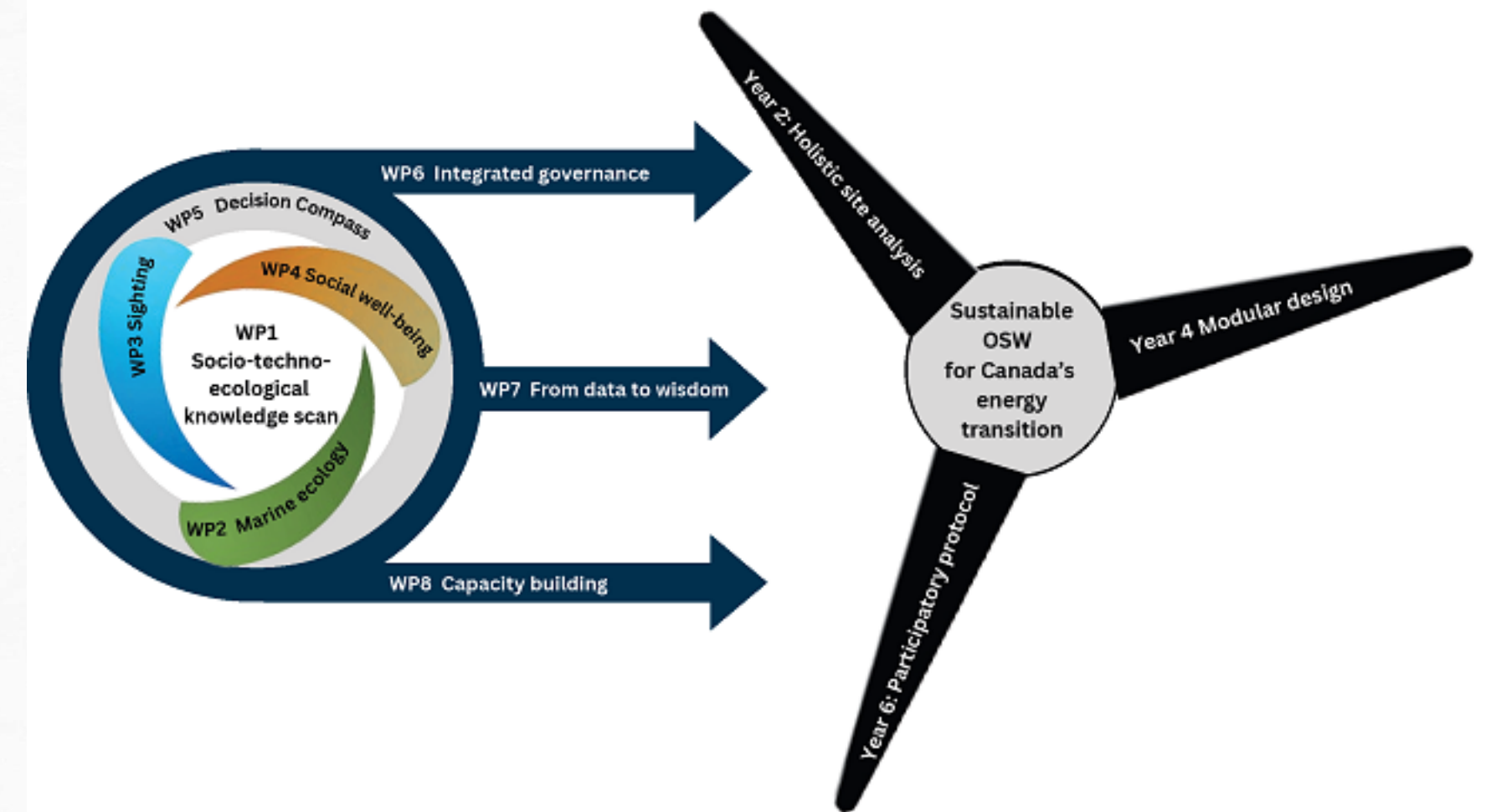
- Urgency requires speed, but speed without participation risks delays and conflict
- Data is not just technical infrastructure, it's social and political infrastructure
- Effective data systems must be both interoperable (for machines) and interpretable (for people)
- Participatory, transparent data governance builds trust and enables sustainable offshore wind





# The Consortium: Minding (more than) the Gaps

- Multi-national, multi-institutional collaboration led by Dr. Michelle Adams (Dalhousie) and Dr. Ian Stewart (King's)
- Eight interconnected work packages spanning ecology, technology, and society
- **Shared goal:** deliver sustainable offshore wind as part of Canada's energy transition
- Our role: developing the participatory data management protocol (WP7) to ensure transparency, trust, and whole-of-society engagement





**Done right, data can make offshore wind in Atlantic Canada  
not just an energy project, but a model for democratic  
climate action.**





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