

## THINKING AHEAD: THE TECHNOLOGY OF THE SCIENCE WE WILL NEED FOR THE OCEAN WE WANT

New Developments in Big Data Approaches

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- Technology is no longer a limiting factor in monitoring remote systems
- Sensor technologies, communications technologies, cloud computing, all reaching global scale
- The challenge now is deriving meaning from the deluge of data to inform timely decision making





## To power enforcement and compliance to protect the ocean's ability to provide for human wellbeing

OCEANMIND IS AN IMPACT-ORIENTED, NOT-FOR-PROFIT ORGANISATION

## HOW OCEANMIND WORKS









- Data gathering (specialised)
- Edge analysis (standardised)
- Data ingres (standardised)
- Data storage and indexing (standardised)
- Data management (standardised)
- Data aggregation and analysis (specialised nature, standardised infrastructure)
- Data visualisation and dissemination (specialised nature, standardised infrastructure)





- Save resources, leverage existing systems
- Cloud computing systems provide most of the system
- Focus on areas of specialism:
  - sensors/data gathering
  - analysis



- Machine learning is not magic, better, it's maths
- No amount of data science circumvents the need for domain expertise
- But expertise in maths is also mandatory
- Multidisciplinary teams are essential, data scientists with domain experts
- Think global, train local



- Exciting times, so much tech and data available
- Specialise in your domain, use existing platforms and data
- Partner to form multidisciplinary teams for best results