# ORAI4M WP2

Harsha’s note

# Initial Interview with AI for Mission projects

**Q1. What is your role on the AI4M project?**

**Nagur – Lead - oceanography – AI expert**

**AI4M – Method – climate land ocean coastal water**

**Forecast – industry and spacial bio managers**

**Q2. Which industry sector is your AI4M project targeted at?**

1. AI in Health (includes aged care and disability services)
2. AI in Mining
3. AI in Law
4. AI in Finance (includes insurance and superannuation)
5. AI in Agribusiness (includes natural resources and environment management) - first
6. AI in Cyber Security
7. AI in Education
8. AI in Defence
9. AI in Infrastructure (includes transportation, energy and water services, telecommunications, waste management and smart cities)
10. AI in Manufacturing
11. AI in R&D or Innovation (includes any ground-breaking, new and emerging AI process or technology in additional fields not mentioned in the above industry sectors) – a little bit
12. AI in Environment
13. Other
14. AI for Government

**Q3. Which business areas does your AI4M project target?**

1. Accounting and finance
2. Customer service
3. Human resources
4. IT
5. Legal, risk and compliance
6. Supply chain
7. Marketing
8. Operations
9. Manufacturing
10. Research and development
11. Sales
12. Strategy
13. Other – government departments – aqua watch – business units – data61 – Federal/state government – Aqua culture – Blue economy – eventually

Oyster farmers – by product

**Q4. What types of AI system are you developing?**

1. Recognition systems
2. Language processing
3. Automated decision making
4. Recommender systems
5. Computer vision
6. Other

**Quality forecasting – Ocean forecasting**

**Purely based on AI based**

**Physics involved NN -**

**Then combined these two approaches**

**Land and ocean – 4 people – hydroogist – satalite – observation – land temperature vs ocean temperature**

**Wind direction – oyseter farms – Ereefs – time takes**

**Satellite based observation – minimal resources – 72 hours – 5 years**

**Physics --> management**

**Existing data models – predictions -**

**Great barrier reef model**

**Q5. Can you describe the problem the AI system will help to solve?**

**Government – export – reduce resources on complience**

**Farmers – to check their animals (cattle owner) - abnormal behaviour can be detect earlier**

**Aperture – Inspect all cattle – Vet is sick – Remote access for the vet – well-being of the vets**

**Q6. Who are the key stakeholders of this AI system?**

**Q7. Who are the end users of this AI system?**

**Q8. What is the relationship between people and the AI system in your project?**

1. *Assistive* (provides information) — AI assists human decision making by performing basic processes, requiring significant input by people. – New milk
2. *Advisory* (presents options) — AI augments human decision making by performing complex processes, requiring some input by people.
3. *Autonomous* (makes decisions without human direction) — the machine operates independently, making decisions with real world impacts and requiring no input by people. – make follower protein rich – New milk
4. *Discovery* (doing a novel or new task, eg. In pattern recognition that could not be achieved by a human alone) – R&D
5. other

**Q9. Can you describe an example of a Responsible AI practice?**

**Q10. Which of the** [**8 Australian AI Ethical Principles**](https://www.industry.gov.au/publications/australias-artificial-intelligence-ethics-framework/australias-ai-ethics-principles) **is the most relevant to your project?**

**Q11. How has your project assessed and analysed the ethical risks associated with the AI system?**  
 **- Did you use a risk analysis methodology to do this assessment?**

**Q12. What type of data does your project use for the AI system or component you are developing?**

1. Historical data
2. Synthetic data – there is a component – doing tailored experiments
3. Other

**Q13. What type of data management processes are you involved in?**

1. Data collection
2. Data cleaning
3. Data processing
4. Data analysis
5. Data integration
6. Data governance
7. Data design (eg. Database design)
8. Merging of data sources
9. Dealing with hybrid data (eg. From more than one source or type)
10. Dealing with missing data
11. Other

**Q14. What sources of uncertainty exist in the data that could impact the success of your AI system?**

1. Missing data
2. Accuracy of measurements
3. Inconsistent data
4. Incomplete data
5. Biased data
6. Other

**Q15. How does uncertainty influence quality and reliability of AI decisions?**

**Q16. How will you monitor the output of your AI system for inaccuracies, biases, or outcomes that are not intended?**

**Q17. Have you used or do you plan to use the CSIRO Research Data Planner?**

**Q18. Have you used or do you plan to use the CSIRO Enterprise Risk Consequence table?**

**Q19. Do you think you sufficiently understand the Australian AI Ethical Principles to do a self-assessment of your AI/ML project?**

**Q20. How do you think Responsible AI practices could help your project achieve its desired objectives and research impact?**

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