

Artificial Intelligence (AI) Literacy for Ocean Professionals is Needed for a Sustainable Future



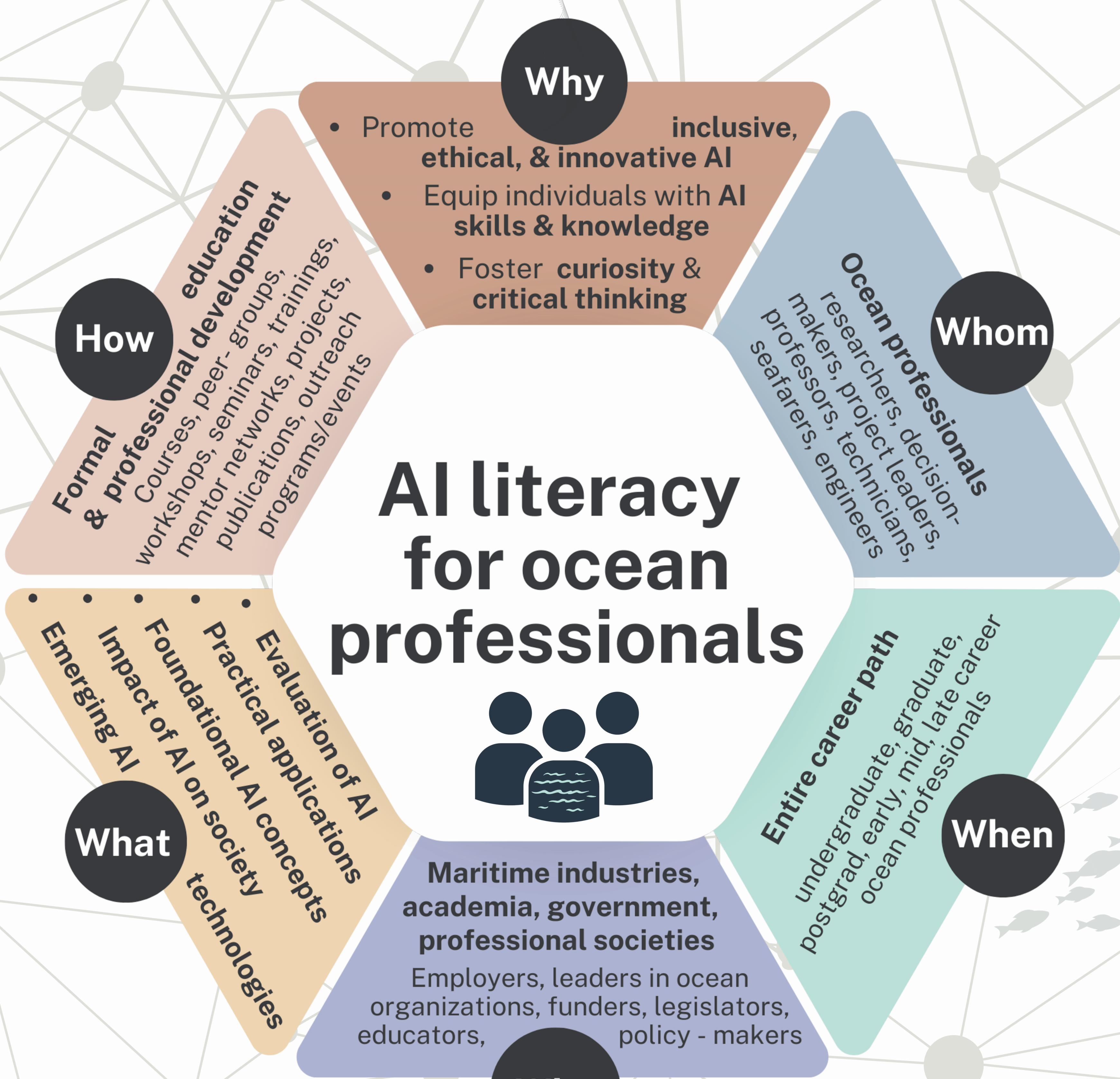
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• AI literacy in ocean professions •

Values, competencies, and knowledge – across ethical, social, technical, cultural, philosophical, and economic dimensions – needed to navigate in an AI-influenced field



Relevance of AI to ocean-related sectors

- Interest in AI-based tools has surged, with applications and use rapidly integrating into ocean-related sectors
- AI literacy is essential for ocean professionals at all career stages – helping them effectively use, trust, interpret, and develop AI tools
- Understanding AI fosters critical thinking, supports ethical applications, and mitigates potential job displacement effects in ocean sectors

Need for holistic AI literacy

- Current AI literacy literature emphasizes K – 12 and formal education
- Practical AI trainings for ocean professionals exist but rarely extend beyond technical skills
- An AI literacy framework for ocean professionals should include a holistic definition of AI literacy
- More efforts are needed to engage ocean professionals with diverse technical skills in AI literacy



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