

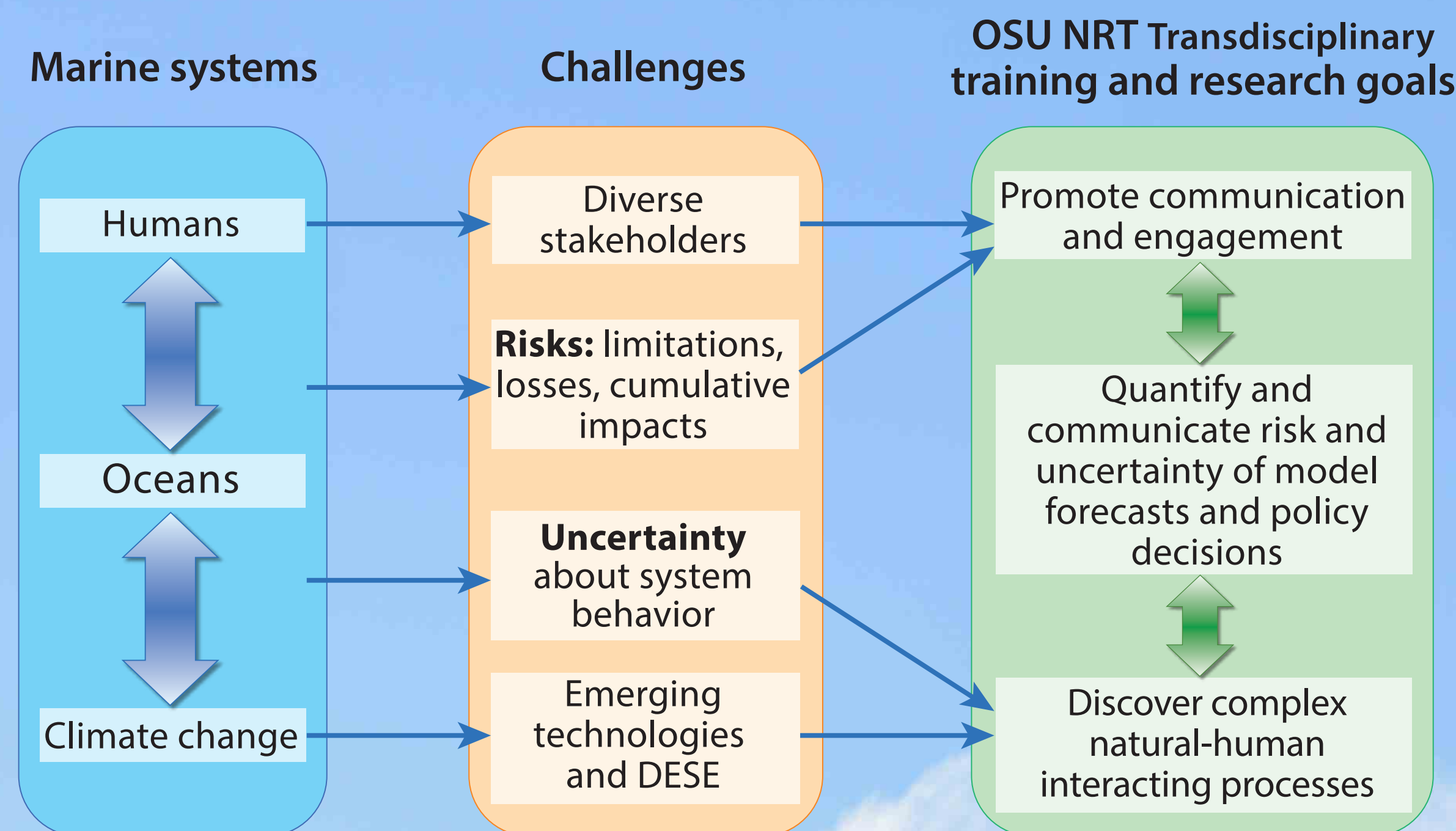
# Risk and Uncertainty Quantification and Communication in Marine Science and Policy



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Engaging graduate students in transformative research, education, and professional experiences to address the effects of human actions and climate change on marine systems.



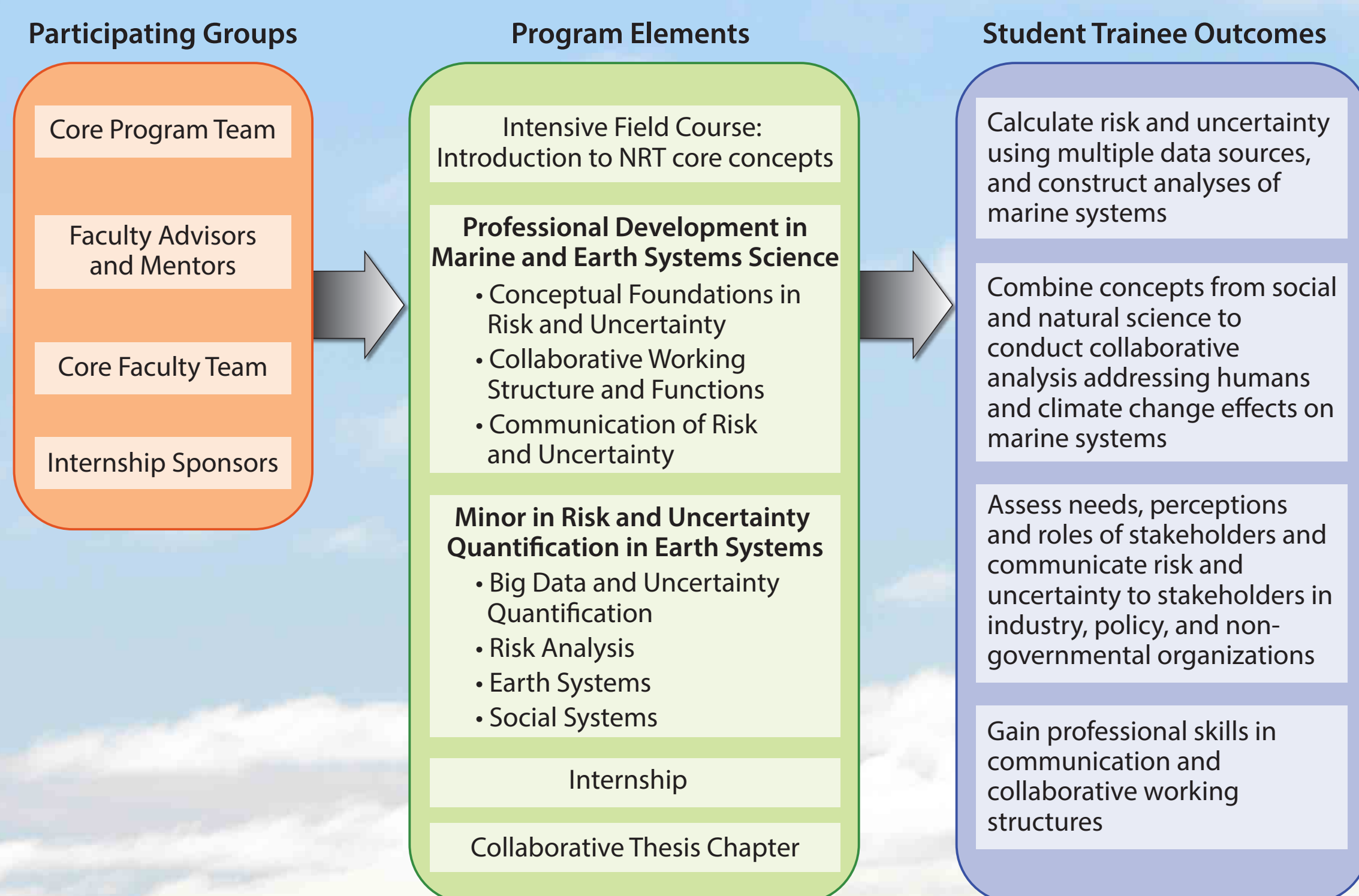
OSU NRT Programmatic Research and Training Goals

Research teams of OSU-NRT program

Project title	Project goals	Disciplinary expertise
Ocean condition forecasting	Predicting and communicating uncertainty of ocean condition forecast	<ul style="list-style-type: none"> <li>Sociology</li> <li>Oceanography</li> <li>Geovisualization</li> </ul>
Tsunami forecast and warning systems	Developing tsunami warning systems	<ul style="list-style-type: none"> <li>Mathematics</li> <li>Statistics</li> </ul>
Marine Renewable Energy	Validity and value of deployable wave energy converters as coastal emergency generation	<ul style="list-style-type: none"> <li>Mechanical and Electrical Engineering</li> <li>Social Science</li> </ul>



## OSU NRT Program Model



## Educational priorities of the OSU-NRT program

- Build a shared conceptual foundation across students from different disciplines. In our program core concepts include: coupled natural-human marine systems, risk and uncertainty analysis and communication, and big data
- Train teams of students to identify and address challenges to collaborative inter-disciplinary and trans-disciplinary research, including epistemic, philosophical, and interpersonal challenges
- Teach communication skills to engage with outside stakeholders including partners, clients, management agencies, policy makers, industry, and the general public
- Build in time for students to converge on mutually agreed research questions, to design a collaborative approach and to follow it through its implementation
- Provide diversified mentoring in professional skills and in disciplines reflected in the team
- Foster social interactions among team members

