

Dr Philippa Hammond, CSIRO, Australia

Philippa is a behavioural scientist working on innovation science, systems analysis, strategic design and evaluation for sustainability transitions at CSIRO. She has an academic background in Psychology and a PhD in Evolutionary Anthropology from the University of Oxford, UK. She has previously worked for Busara in Kenya, as a behavioural science consultant on international development projects across the Global South, including on the development of tools for participatory forest management and the building of regulatory policy around digital financial inclusion.



At CSIRO, Philippa works at the intersection of academic and applied science for development. Internationally, she is part of CSIRO's [Pacific Agrifood Futures Initiative](#), collaborating with Pacific partners on their action research priorities for building more resilient and sustainable food systems. Domestically, Philippa is part of CSIRO's [Towards Net Zero Mission](#) and works on participatory methods for regional transition, as well as evaluation of mission-oriented innovation to better inform how we design, implement, and scale decarbonisation efforts across Australia's hard-to-abate sectors.

With the TNZ team, she has developed a participatory systems modelling approach to help regional stakeholders build collaborative transition pathways in South Australia and Tasmania. Through her work on system-level evaluation, Philippa has developed and implemented an integrated Monitoring, Evaluation and Learning (MEL) framework for the TNZ Mission, and she works with industrial and regional stakeholders and networks to develop holistic MEL for navigating transformational change.

Mission-oriented innovation and MEL:

Olsen-Boyd, A., Cooke, A., Pring, R., McBride, C., & Battaglia, M. (2023). Convening missions: A playbook for collective implementation of mission-oriented innovation. https://www.csiro.au/-/media/Missions/CSIRO_MissionPlaybook.pdf

Hammond, P., Hall, A., Bruce, J., Mueller, S., Olsen-Boyd, A. Moallemi, E.A., & Battaglia, M., Hitting a Moving Target: Challenges and Lessons Around Evaluating System Change in Mission-Oriented Innovation. <http://dx.doi.org/10.2139/ssrn.5125251>

A place-based participatory systems approach for collaborative pathways development:

Regional transitions are driven by diverse and multi-faceted forces that cannot be effectively addressed by sections of the economy in isolation or by individual actors on their own. They require coordination across sectors and participation/collaboration across relevant stakeholder groups to harness the full spectrum of opportunities that transition presents. As a way to facilitate the foundational needs for coordination and collaboration, we have co-developed and piloted a planning framework that integrates place-based participatory and systems-focused approaches to serve two aims. The first is to understand, at a system level, risk-benefit trade-offs associated with industrial decarbonisation. The second aim is to bring parties together to co-design pathways that recognise future risks and seize opportunities through coordinated action. This approach enables regions to better understand local opportunities associated with a low emissions future, within the context of regional economic, societal, and environmental aspirations, thereby creating buy-in and legitimacy for action. We have piloted this approach in the Upper Spencer Gulf region of South Australia and the Tamar Valley region of Tasmania, alongside participation from key stakeholders across state and federal government, industry, and community and sustainability bodies.