

Innovation, Excellence and Relevance in Research and Education

Stephen Madigan
Key Program Manager
www.misa.net.au

Marine
Innovation
South Australia

MISA



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of South Australia

Overview



- Established September 2005 to support Seafood Food Plan 2005-2015
- State government funding for capability & infrastructure
- Balancing against state's capabilities
- Unincorporated 'umbrella' organisation
- Alliance between marine R&D, & E institutions & seafood industry



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Partners



- Seafood Industry
- SA Government – SARDI, PIRSA Aquaculture & Fisheries, DEH
- Universities – Flinders & Adelaide
- South Australian Museum

We are MISA participants



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Constellation SA

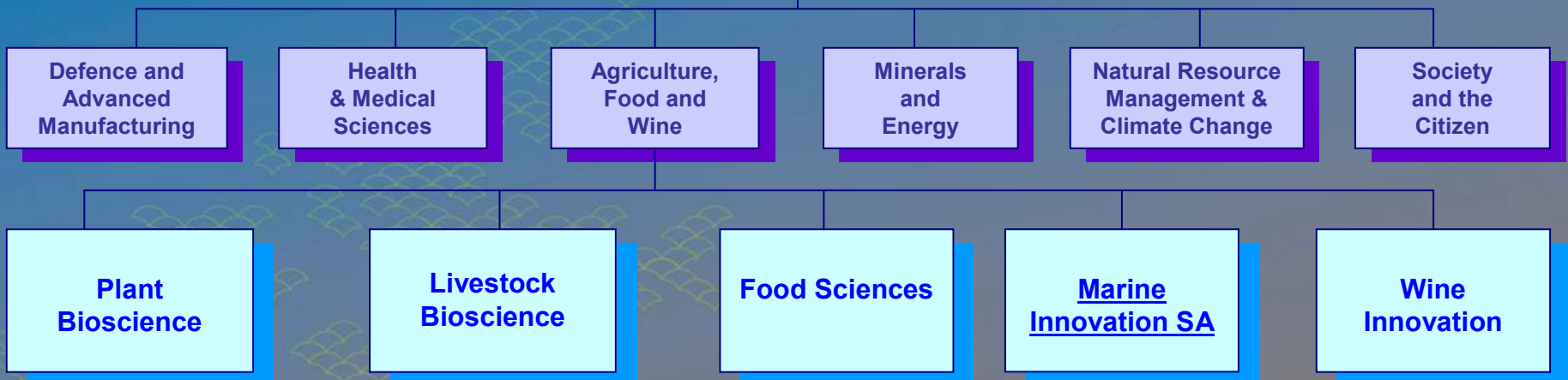


SSP / STI¹⁰ / PSRC

DFEEST / SI Directorate

CONSTELLATION SA

Alliances



Clusters



SSP = State Strategic Plan

STI¹⁰ = Science, Technology & Innovation Vision

PSRC = Premier's Science & Research Council

DFEEST = Department of Further Education, Employment, Science & Technology

SI Directorate = Science & Innovation Directorate



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Investment



- State government provided \$13.7 million:
 - \$6.9 million in infrastructure
 - \$6.8 million in capability
 - Fully spent June 2009
- \$2.4 million ongoing in capability funding
- Infrastructure co-funding from SARDI, FUSA & UoA



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Infrastructure



- Establishment of infrastructure to support
 - Innovation, incubation & technology transfer
 - Underpin delivery of world class research
- SAASC (SARDI)
- Lincoln Marine Science Centre (FUSA)
- Physical biological containment facility (UoA)



Governance Structure



Steering Committee

Advisory Committee

Project Extension Group

MISA governance includes stakeholder representation at all levels

Research Nodes

Ecosystem Services

Biosecurity

Aquaculture Innovation

Product Quality & Value-adding



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Capability



- 34 new staff @ 20 FTE
- Joint positions, leveraged
- eg 5 AS-CRC post-docs
- Research Nodes:
 - Ecosystems Services
 - Biosecurity
 - Aquaculture Innovation
 - Product Quality & Value Adding



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Ecosystem Services



- Marine ecology – pelagic, benthic, shark, cetacean
- Oceanography – physical & biological oceanography, ecosystem modelling
- Fisheries management & modelling
- Climate change & signal prediction
- SA Integrated Marine Observing System



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Biosecurity



- Focus on management & mitigation of risks to production systems
- Invasive species, fish health & disease, nuisance/toxic micro-algae
- R&D to support emergency responses
- Marine biocontainment facility (UoA)



Aquaculture Innovation



- Increase production (total value), pre- & post harvest quality (unit value)
- Develop new products
- Propagation & new species development
- Farming systems & technologies
- Nutrition
- Genetics, breeding & stock improvement
- SA Aquatic Sciences Centre



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Product Quality & Value Adding



- Focus on increasing unit value of SA seafood products
- Post-harvest capability
- Food technology, processing, food safety, residues & technical market access
- SA Food Centre



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Outcomes



- 80+ R&D projects
- Leveraging \$24.7 million
- Facilitates seafood industry engagement with R&D
- Collaborative platform for South Australian marine science capability and infrastructure project development
- Extension activities



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Future



- Improve extension
- New projects, infrastructure & collaborations
- Greater leverage & increased funding

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