

Photo thanks to Dr Ashley Sparrow

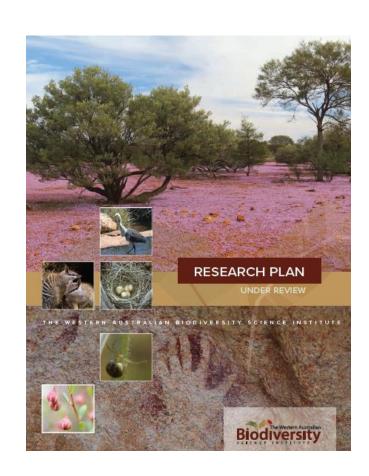
Restoration and Ex-Situ Conservation

Guy Boggs 26/07/2017

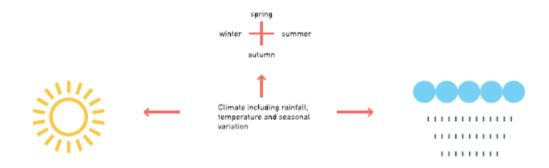


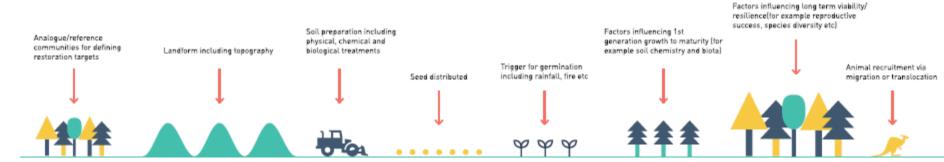
WABSI Restoration Node Priorities

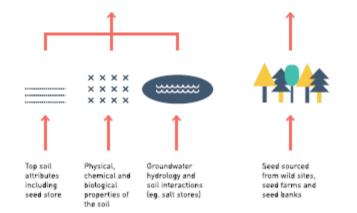
- Develop and facilitate the adoption of cost effective and scalable strategies and tools for the restoration and reconstruction of Western Australian ecosystems and the reintroduction of threatened plants and animals.
 - Defining Criteria for Restoration Success
 - Restoration Technologies
 - Criteria for Species Reintroduction
 - Reintroduction Technologies
- Priorities shaped by End Users (sector based) and Researchers

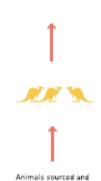












translocated from

host communities

Mining

Erosion Rates Risk Assessment:

- Pilbara Rehabilitation Group Initiative
- Four Pilbara Mining Companies
- Working with Landloch

BIF Research Integration

- Publishing Grey Literature Reports 2 special issues
- 2 Review Papers:
 - BIF Species Distribution, Genetics & Ecology
 - Restoring Ecosystems in Rocky Landscapes

State Completion Criteria Framework

 Joint initiative with 8 Mining Partners, Regulators (DMP &OEPA) and WABSI Research Partners





Completion Criteria Project

- An independent report analysing state and international rehabilitation research and informed by industry consultation and leading experts to provide a framework and information for developing site-specific completion criteria and associated monitoring for Western Australian mine site closure and relinquishment.
- Key Feedback from Consultation Process
 - **End Land Use** significant disconnect in process between end land use considerations and regulator approved/industry developed completion criteria
 - Large **variation in standard** of completion criteria and associated monitoring, and relatively poor understanding across WA geographies
 - **Imbalance** between research driven 'ecological completion criteria' & implementation risk profile (including relationship with other major drivers of closure criteria)
 - Outcome must include a framework



June 2017 to July 2018



Urban

- Rehabilitating Roe 8
 - Supporting Rehabilitating Roe 8 Working Group
 - 10 year Rehabilitation Plan in Development
 - Engaging Community in Ecosystem Restoration Processes and Outcomes
- Perth Urban Restoration Scientific Advisory Committee
 - Evolving Network of Scientists Engaged in Restoration Research
 - Social, Economic and Biophysical Research
 - Integrating across biodiversity to green infrastructure research for cumulative biodiversity outcomes
- Banksia Woodland Restoration
 - Focus on long term trajectories
 - Linking existing restoration knowledge hubs/sites



Agricultural Landscapes

South West Agricultural Land Research Strategy

- Muresk End User Workshop (Aug 20/21st)
- Achieving 'at-scale' restoration:
 - Landscape Planning
 - Enhancing Economic Drivers
 - Implementation
 - Outcomes assessment

Dongolocking Project

- ECU/SWCC/DPaW/GAWA project
- Evaluating outcomes from focal species restoration > 15 years old
- Birds as focal species, with non-target birds, mammals & invertebrate assessment

ARC LIEF Critical Zone Observatory

- Integrating above and below ground processes in cleared, restored and uncleared landscape
- National Experimental Restoration Guidelines & Network
 - CSIRO Initiative with DoEE
 - Identifying opportunities to link research with restoration implementation



