

# Landscape Science Cluster

## A new collaborative focus for NRM in SA

**Wayne Meyer**

Professor, Natural Resource Science

Wayne.meyer@adelaide.edu.au



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Slide Number 1

# The big picture context of NRM in SA

- Despite good NRM legislation the condition of resources continues to persistently decline
- The problems for regional Natural Resource Management:
  - limited resources
  - multiple demands
  - an uncertain and changing future
  - What basis can be used to prioritise and what evidence is there that we are likely to make a scrap of difference anyway?

If this is true, how can research help improve NRM outcomes?

NRM management decisions have multiple constraints

and objectives and should consider whole of system consequences.

We have called this holistic systems consideration – “Landscape Science”

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# Landscape science developing in SA

- Terrestrial Ecosystem Research Network proposal beginning in Feb 07 showed it was possible to develop a SA collaborative approach
- Concept of Natural Resource Science Centre V1 – 30Mar07
- Landscape Science and Mgmt Living Lab workshop – 19Jul07
- Landscape Science Cluster formed
- Landscape Science Cluster core group and executive are developing a science and business case for “integrated landscape science” – developing a research and outreach capability that
  - focuses on an NRM region and works with the implementers,
  - uses models within GIS layers to project possible change in space and time,
  - develops new engagement methods to change what people do and how they visualise their future landscapes

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# The SA state scene

- State Strategic Plan
  - “Attaining sustainability”
  - Grand science plan STI<sup>10</sup>– “Constellation SA” with Alliances, Clusters and Precincts
- SA Natural Resources Management Act 2004
  - Natural Resource Management Council
  - 8 NRM regions with Boards
- State NRM Plan of 2006
  - *Landscape scale management ...adaptive to climate change*
  - *Prosperous communities ...within ecologically sustainable limits*
  - *.. Capability...to manage natural resources in an integrated way*
  - *Integrated management of biological threats*
- Regional NRM Board
  - A healthy living landscape meeting the social, environmental and economic needs of the community and ensuring the wellbeing of future generations

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# The SA NRM scene – operations and research

- SA Natural Resources Management Act 2004
  - Commonwealth NRM through DEHA, DAFF
  - DWLBC (DEH, PIRSA, EPA)
  - Natural Resource Management Council
  - 8 NRM regions with Boards
- Research Providers
  - Commonwealth – CSIRO, BRS, ...
  - SA – DWLBC, DEH, SARDI
  - Universities – UA, FU, UniSA, occasional contracts with CSU, UQ
  - Private consultants
- Research Funders
  - Research providers
  - RDC's
  - Bilateral agreements NHT, NAP through CNRM → NRM RA
  - Regional NRM Boards

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# Landscape Science Cluster

- Builds on learnings, experience, capacity of LMLF
- Mission –

***In partnership, develop and apply world-leading landscape-scale science supporting planning and policy for natural resource management to achieve sustainable regional systems in Australia***

- Key partners
  - CSIRO
  - SA DEH, DFEEST, DWLBC, SARDI
  - SA Regional NRM Boards
  - Universities: Adelaide, Flinders, SA
- Several workshops held and core group established

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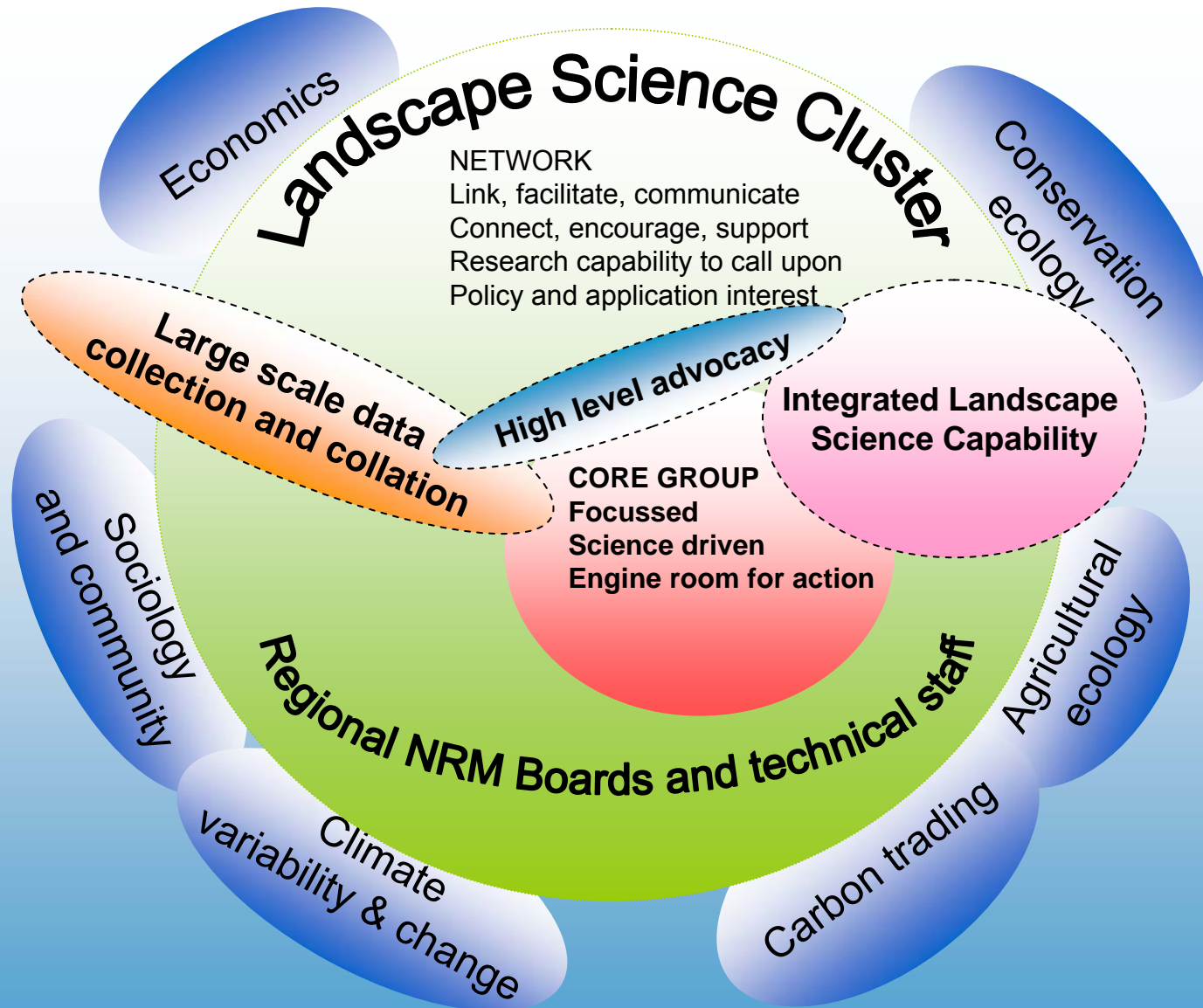
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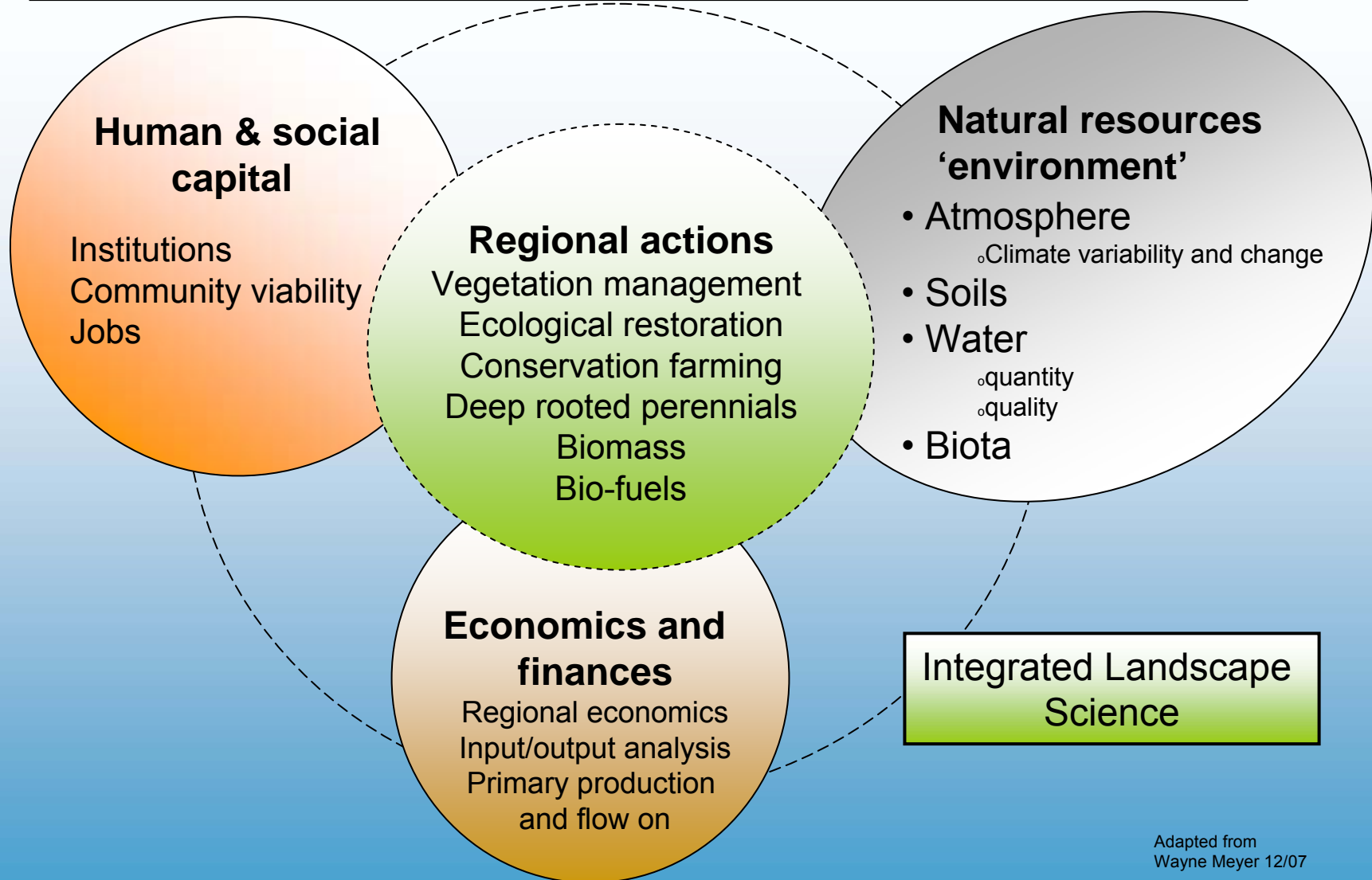


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# Regional NRM – operating in the triple bottom line domain



Adapted from  
Wayne Meyer 12/07

# What is possible for SA Integrated Landscape Science and its application?

The Vision:

SA has an internationally recognised Integrated Landscape Science and Education capability that

- Is trans-disciplinary – environment, economy and community
- Is relevant, applicable and connected to regions
- Trains the next generation of NRM researchers, managers and technical advisors
- Fosters quantitative landscape systems representations through data, models, visualisation and people
- Attracts national and international researchers
- Influences regional and state policy

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# Integrated Landscape Science Capability

Before we get carried away with our own perceptions - let's check and see what others have done!

What can we learn from the experiences of others in “integrated landscape science”?

Hence this forum which aims to:

- Share information on emerging science and tools
- Identify improved NRM outcomes from new developments in integrated landscape science
- Explore what SA can do to better its own capability in integrated landscape science
- Hear about what makes for successful clusters of activity in this field

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