

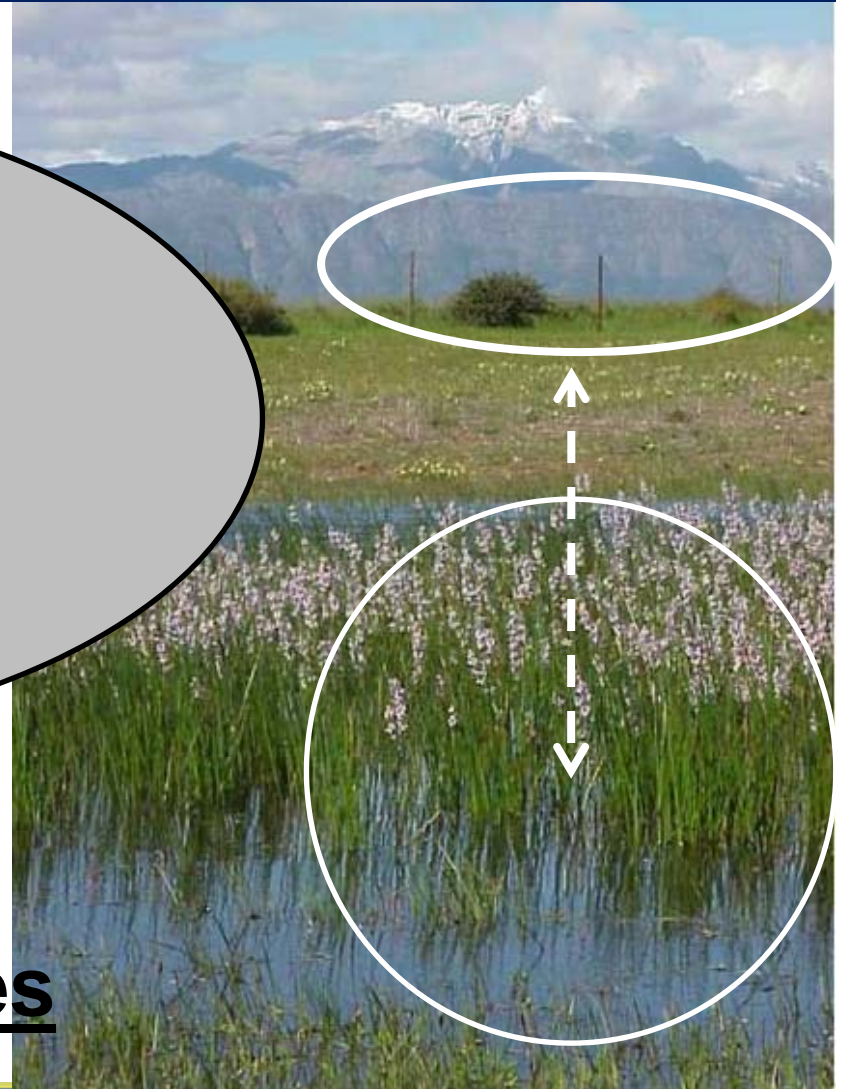
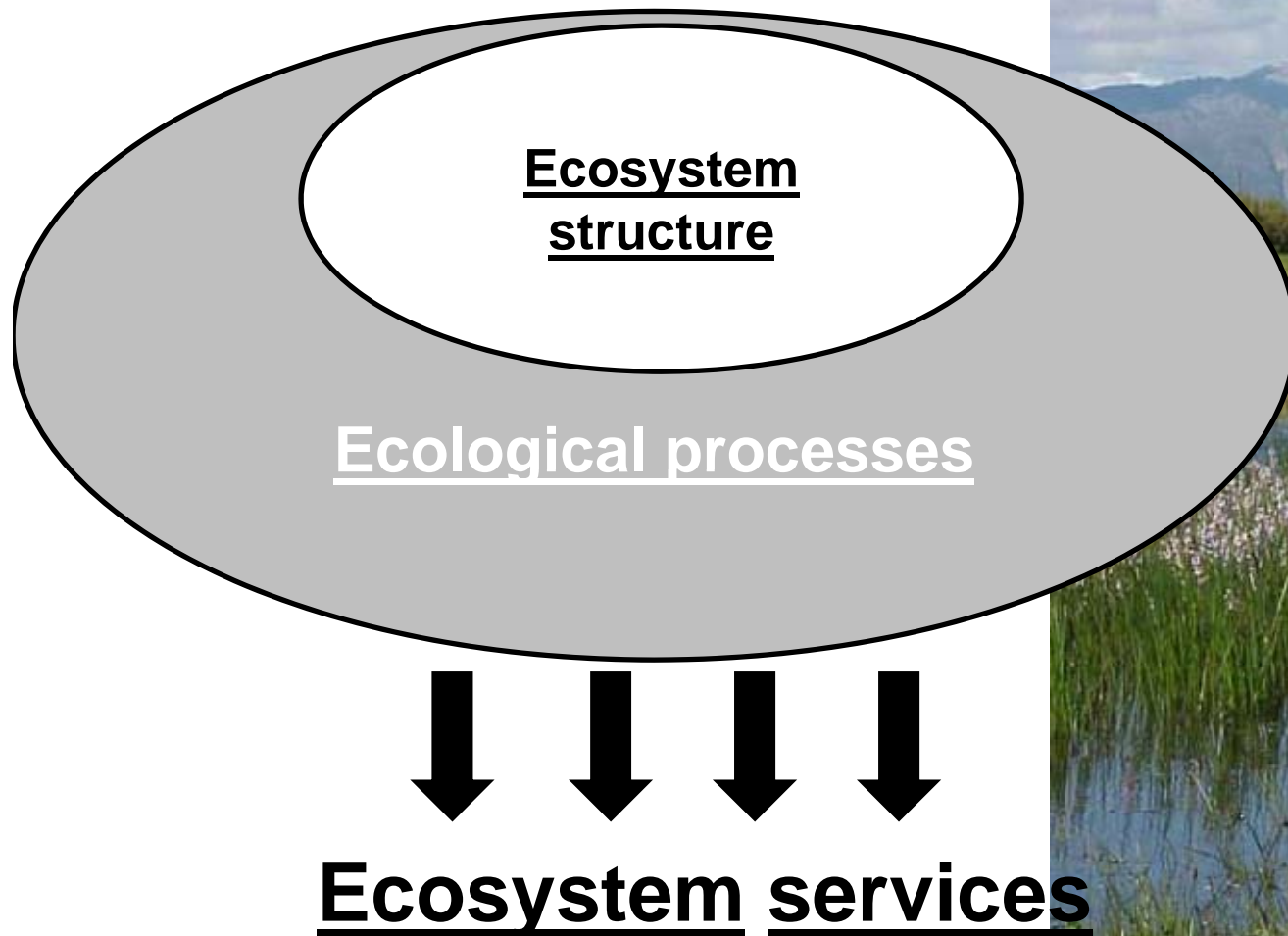


Establishing Climate-Resilient Landscapes through Connectivity Corridors and Protected Area Integration

Nik Sekhran, Principal Technical Adviser, Biodiversity



A Landscape Approach aims to Maintain Functioning Ecosystems



Why a Landscape Approach?

Focus on maintaining functioning ecosystems

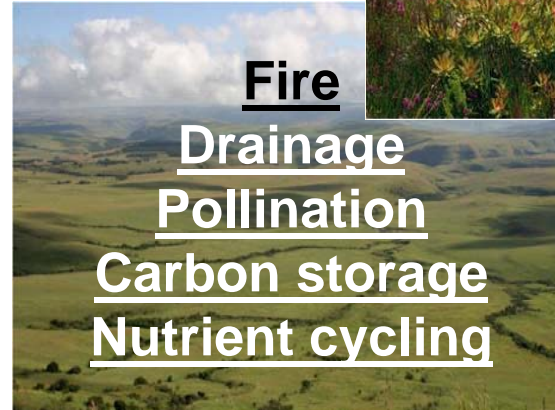
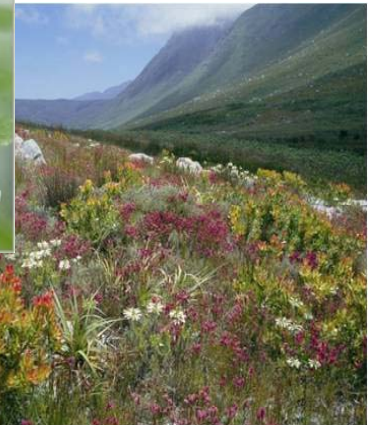
This requires:

Maintaining biodiversity
pattern and
ecological processes across
landscapes



Pattern

What you
can see



Fire

Drainage
Pollination

Carbon storage
Nutrient cycling

Process

Functions

Features of the Landscape Approach



A landscape approach recognises that:

A conservation “vision” for a landscape needs to co-exist with other “visions”. These might include:

Cultural values, current land-use types, laws, land ownership, economic drivers, political will.....



The Landscape Approach and Ecosystem Resilience:

Ecosystem Resilience

The properties that enable an ecosystem to absorb expected and unforeseen change, yet retain its character and remain functional



The Landscape Approach and Ecosystem Resilience:

Important Concepts

- Thresholds – tipping points and regime shifts resulting from tipping points
- Functional connectivity - *corridors*
- Systems displaying functional diversity are more resilient to undesirable change
- Ecosystem-based adaptation



The Landscape Approach and Ecosystem Resilience:

Managing Landscapes to ensure Ecosystem Resilience

Identify priority areas aligned with landscape features that increase resilience to undesirable change

Avoid further fragmentation of priority areas

Maintain landscapes in as connected a design as possible



The Landscape Approach and Ecosystem Resilience:

Managing landscapes to ensure Ecosystem Resilience

Minimise threatening ecosystem-specific processes

Control aggressive invasive alien species

Maintain diverse systems, conserving pattern and process



The Landscape Approach and Ecosystem Resilience:

The Landscape Approach

- provides a framework for real adaptive governance
- enables planners to strengthen resilience of production systems and natural ecosystems
- facilitates ecosystem-based adaptation
- reduces vulnerability to the negative impacts of climate change



Adopting a Landscape Approach...

CONSERVATION GOALS

- Conserve Biodiversity Pattern
- Conserve Ecological Processes
- Ensure Ecosystem Resilience
- Address socio-economic objectives



Work **beyond the boundaries of protected areas** as well as **within**

The Landscape Approach: a Mosaic of Land Uses

