

#### Introduction

- This discussion provides an overview of the practice of land use planning and identifies the aspects that are of benefit to natural resource management, and the limitations in existing practices.
- The Australian state of Victoria is used to illustrate the points made.

RMIT

Geospatial Science, and Social Science and Planning

2

### Natural Resource Management Issues

- Australia's landscape is not suited to many of the current land management practices.
- Much of our dryland agriculture is economically marginal and causes both on-site and off-site degradation to land and water.
- We need to develop sustainable land use and land management practices that minimise further harm to natural resources and biodiversity, and that maintain viable rural communities.

RMIT

Geospatial Science, and Social Science and Planning

#### Land Use Planning

- In Ancient Rome industries posing a nuisance were located across the River Tiber.
- As a regulatory system its origins in 19<sup>th</sup> C in England during the industrial revolution, with impacts on property rights.
- Much of the core legislation regarding land use control in the Commonwealth & U.S. was introduced in the first half of the 20th Century.
- Prior to this the common law was used for land use control.

RMIT

Geospatial Science, and Social Science and Planning

### Land Use Planning

- Balancing the rights of the landholder with rights to set policy and the right of community consultation.
- In the 1980's the British government created incremental changes to the planning system eroding the ability to control land use.
- Normal participatory rights in the planning process were often removed.
- The result was a framework within which market forces and developers could more easily operate.

RMI

Geospatial Science, and Social Science and Plannin

### Land Use Planning in Victoria

- The planning system was initially derived from British town planning practice, although there has been considerable later influence from the U.S.A.
- The planning system operates in accordance with the *Planning and Environment Act 1987*.
- This Act requires freehold land to be subject to a planning scheme and administered by a municipality.
- Planning schemes regulate the use or development of land.

RMIT

Geospatial Science, and Social Science and Planning

#### Land Use Planning in Victoria

- Planning schemes include strategic policies, statutory guidelines consistent with the strategies, zones, overlays, and local policies.
- In
- ] 1996 the British model of planning reform became the blueprint for Victoria.
- This reform included council amalgamations, standardisation of planning schemes and some centralisation of control.

RMI

Geospatial Science, and Social Science and Planning

HD.

## Opportunities for planning to impact natural resource management

- Land use control is central to natural resource management.
- The community consultation involved in strategic planning is a good model for developing catchment strategies.
- Strategic policies could include catchment management issues and objectives.

RMIT

Geospatial Science, and Social Science and Planning

## Opportunities for planning to impact natural resource management

- Strategies could identify the areas in which land use change is required.
- State policies could require the adherence to industry codes of practice.
- There are opportunities to create environmental zones or overlays to control changes in land use or land development.

KIVIII

Geospatial Science, and Social Science and Planning

## Planning schemes and Regional Catchment Strategies

- Victoria has implemented catchment authorities to implement integrated catchment management.
- Both planning and catchment management legislation provide for catchment issues to be included in planning schemes.
- These issues could include floodplain or waterway management, biodiversity, salinity management, land management practices, and control of pests, plants and animals.

RMIT

Geospatial Science, and Social Science and Planning

10

# Limitations in institutional capacity

- Catchment authorities are immature institutions with limited power to enforce land use change.
- Local government does have the power to control land use and the local government legislation requires that environmental issues be considered.
- However, most councils have limited resources for natural resource management.

RMIT

Geospatial Science, and Social Science and Planning

11

#### Statutory limitations

- Planning is largely a reactive discipline and only controls proposed changes to land use.
- Much of the State policy framework is general and difficult to specifically apply.
- The zoning structure is not suited to the protection of natural resources.
- Overlay controls do not provide for protection of a broad range of habitats, the quality is variable, and their use by councils is discretionary.

RMIT

Geospatial Science, and Social Science and Planning

- 1

### Poor access to natural resource information

- There is a lack of knowledge of ecosystem functions and biodiversity in council staff.
- Local government decision-making about land use is hampered by limited access to natural resource information.
- Decisions about land use are based more on economic than environmental considerations.
- · Limited modelling of the impact of land use.

RMIT

Geospatial Science, and Social Science and Planning

13

#### Recommendations

- Planning system is not geared for extensive natural resource management decision-making, and the tools provided will not lead to widespread improvements.
- Develop a whole-of-government policy
   framework that considers land use sustainability.
- Undertake capacity building of local governments and catchment authorities.

RMIT

eospatial Science, and Social Science and Planning

14

#### Recommendations

- Improve the knowledge of natural resource issues in planning decision-makers.
- Improve the information available to local government on the condition of natural resources, areas subject to degradation, priority and risk areas, and the impact of land management practices.
- The community consultation aspects of strategic planning provide an opportunity for public debate on natural resource issues, and policy.

RMIT

Geospatial Science, and Social Science and Plannin

15