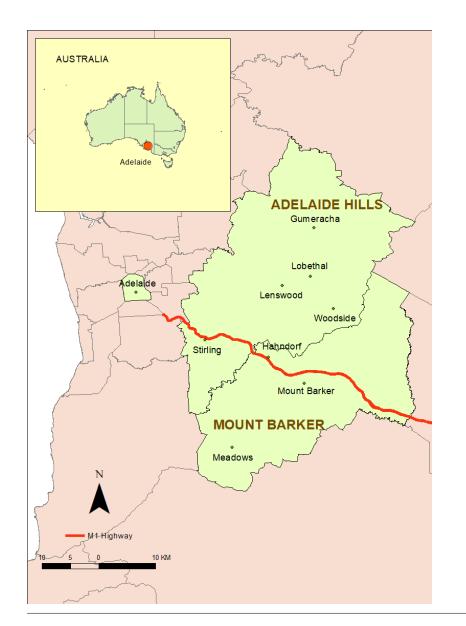


CRICOS PROVIDER 00123M

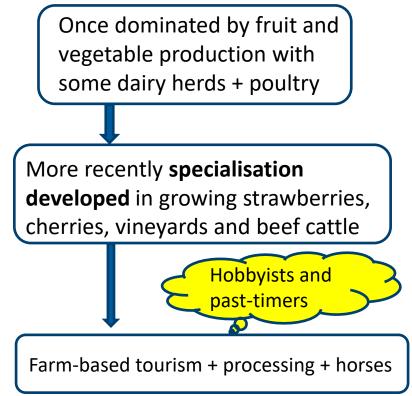
Dr Bingjie Song

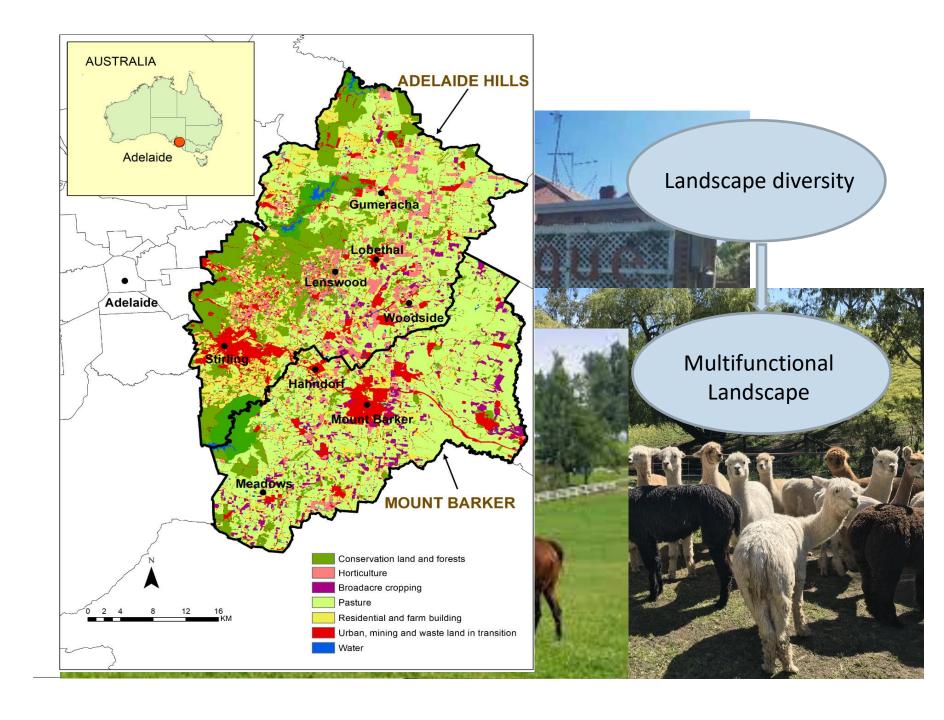
adelaide.edu.au seek LIGHT



### The Adelaide Hills

Comprising the administrative districts of Adelaide Hills and Mount Barker





**Multifunctional agriculture** (MFA) = Farms producing more than just traditional crops and livestock.

This occurs through

→ Enterprise diversification by farms: e.g.

..... Farm-based processing,

Tourism and recreational activities,

Direct sales to customers,

Generation of environmental outputs, and

Contributions to rural community.

→ Generating multifunctional landscapes

Farm diversification

Multifunctional Agriculture

**Horticulture** is the dominant enterprise, with wine grapes, apples and cherries, the principal enterprises of full-time farmers.

Cherries are the main crop of the part-timers while hobbyists pursue a range of horticultural activities, but often focus primarily on environmental management.

For all farmers, the average age group is >65 years of age, highlighting a problem apparent across the developed world and also some developing countries, that of an **aging population of farmers**.

### **MULTIFUNCTIONAL AGRICULTURE**

#### **AGRI-ENVIRONMENT**

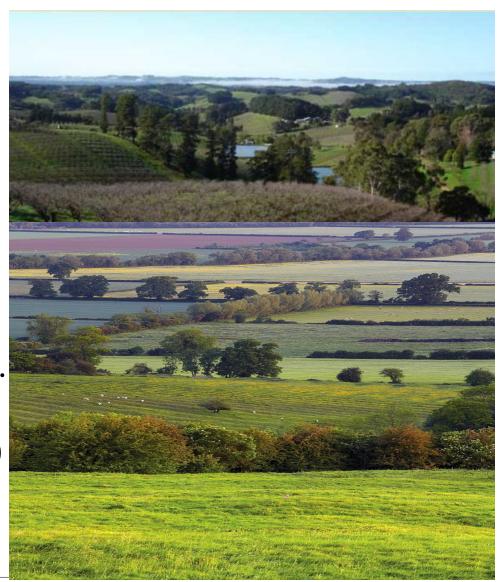
### **Major Contributors:**

Most hobby and some parttime farmers intentionally participate in various proenvironmental activities.

These hobbyists – provide habitat and landscape & causing growing fragmentation.

Other hobbyists (horse owners)

– proliferation of invasive
weeds; conversion to pasture.

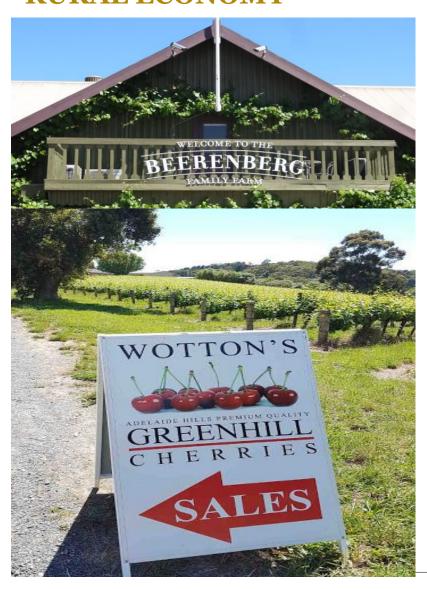




### **Main Contributors:**

Commercial farms – many have diversified over a long period (stable diversifiers).

Greater farm diversification on full-time farms – wine grape growers (tourism activities + on-farm processing)



### **Main Contributors:**

Commercial farms -- largescale family farms focused on production (productivist)

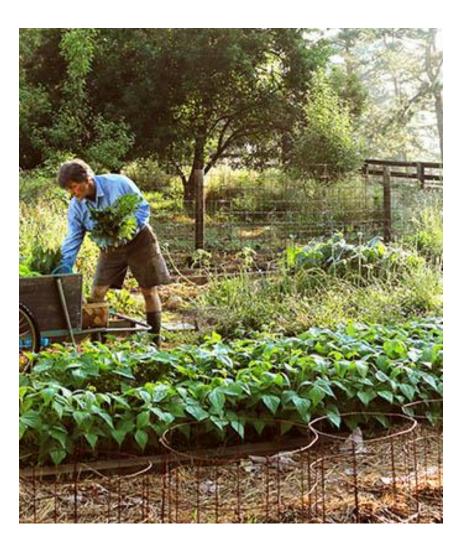
Highly productivist - mainly horticulturalists + orchardists & diversified wineries

Succession?



Orchards contribute to rural economy – largely long-established family businesses whilst some viticulture is associated with more recently created enterprises.

Locked-in?



Compared with the commercial farmers, most hobbyists generated limited income from the land.

40% of hobbyists' farms
--- no income

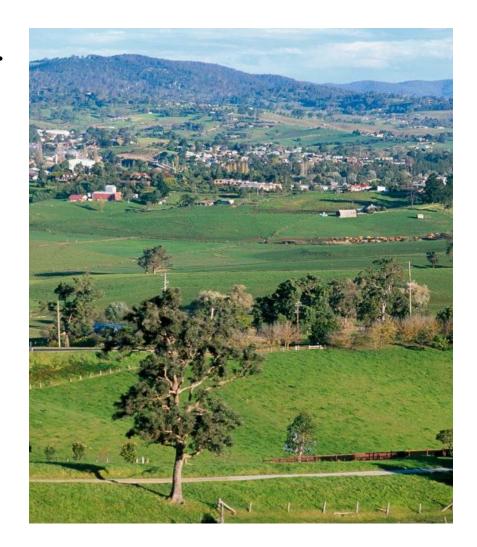
30% --- <5% income

## MULTIFUNCTIONAL AGRICULTURE SOCIAL-RURAL COMMUNITIES

Providing local employment.

Food supply and food security

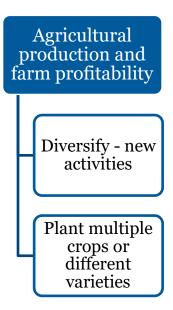
Cultural heritage and education





Climate Change – drought/heat,

storm/hail/bushfire





Pests and diseases-Lead to a decline in the quality and quantity of produce



Applying new or upgrading agricultural technology





Organic farming

Cost of labour and other inputs

- Most produce is consumed in local areas, but cost-price squeeze.
- Competition from stable markets of wholesalers, processors and supermarkets

Aging farmers

Stable diversifiers: Trusted or familiar contractors; Agricultural machinery

Large-scale productivists: Local communities; Family members during slack times

# Economic downturn, oversupply and other market risks

- External marketing environment (e.g., unstable international trade)



Alternative markets and networks

Online and direct sales; farmers' markets



**Tourism activities** 

Family orchards: Pick-Your-Own activities

Wine-making viticulturalists: opening cellar doors



Processing

Jam, chutney, ice-cream and ciders relying on fresh apples, pears and cherries grown in the Hills

# REVISITING MULTIFUNCTIONAL AGRICULTURE IN THE ADELAIDE HILLS

- Apart from intensive farming, other activities, including farm-based tourism, processing, alternative food networks and amenity lifestyles become the main features of the multifunctional landscape.
- Less— and non-commercial farming showcases a strong vitality through diversified on-farm activities, and they prioritise outputs such as socio-cultural values with a less production-oriented focus.

# REVISITING MULTIFUNCTIONAL AGRICULTURE IN THE ADELAIDE HILLS

### MORE ISSUES TO BE SOLVED....

- Growth of hobby farming can lead to high-quality farmland being replaced by non-economically productive activities (horses, fragmented environment)
- Population growth has led to new settlements being built on high-quality farmland.
- Fragmentation
- Declining number of farms because of the economics of farming (lack of scale economies → farm amalgamations)



