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# Integrated Sustainability Assessment

## Flowerdale Community Expo

Climate Adaptation National Research Flagship

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CSIRO

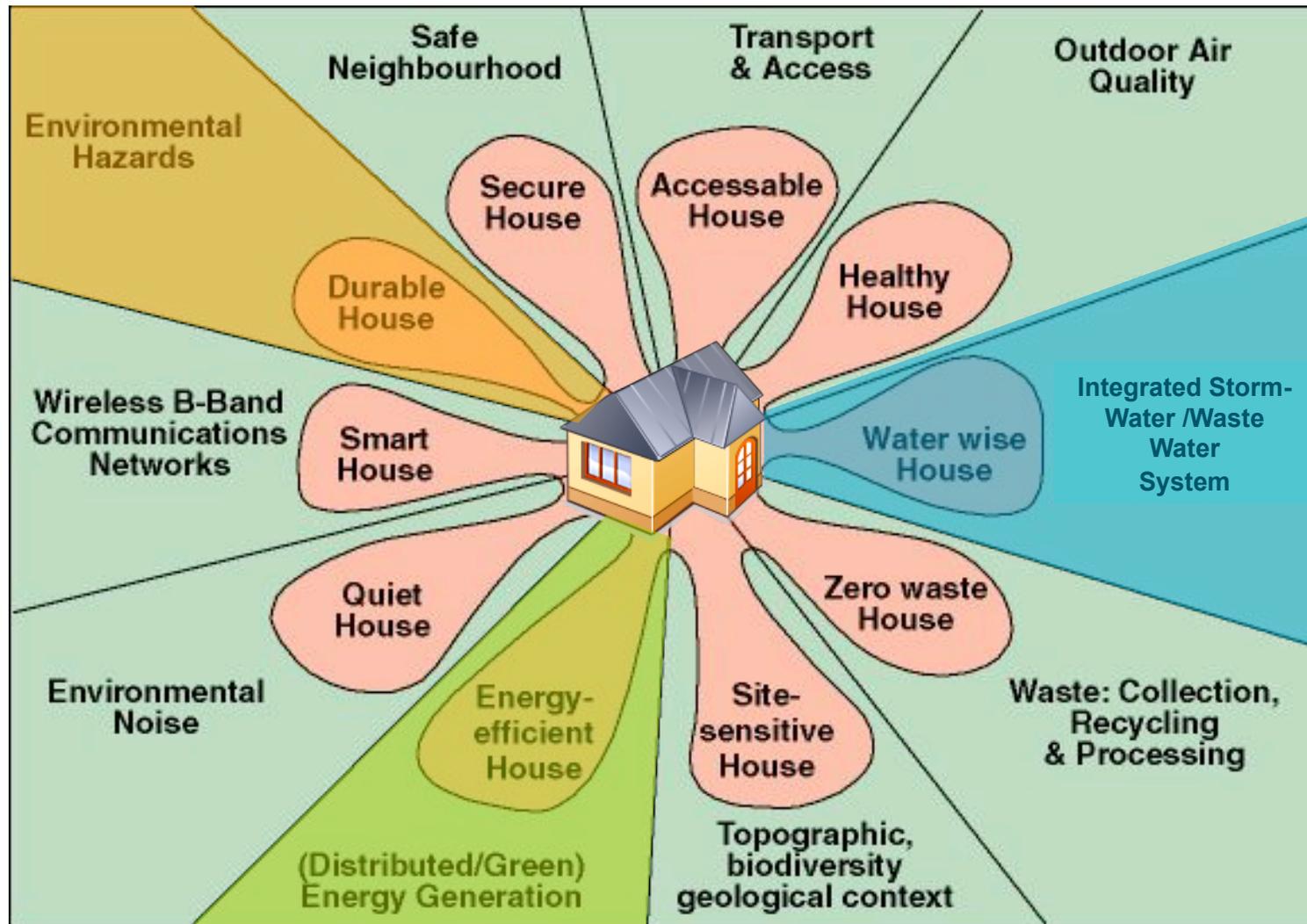
National Research  
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# Integrated thinking for a sustainable future

- Setting boundaries
- Developing a shared vision
- Exploring the future

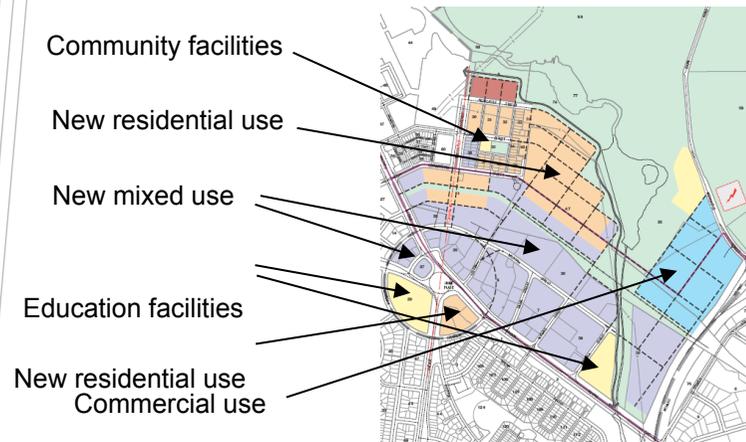
# Setting boundaries



# Context for the East Lake Urban Renewal

## Planning Features of East Lake

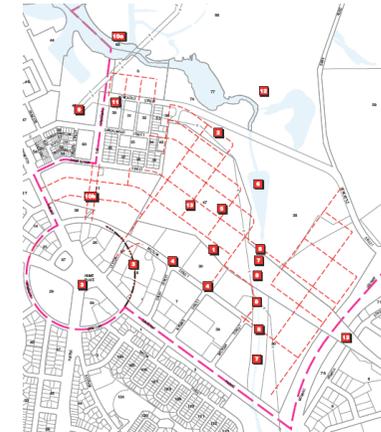
New Land Use



New Built Form and Density



New Street Network



## Target of Sustainability

## Selection of Indicators to be Used

## Performance Assessment: Water, Energy, Transport and Urban Health

# Develop a shared vision

Engage with stakeholders to:

- Make the planning process more transparent – seek views, feedback and input
- Raise awareness and build capacity for sustainable urban renewal
- Create a growing sense among participants of belonging to a “community of interest”

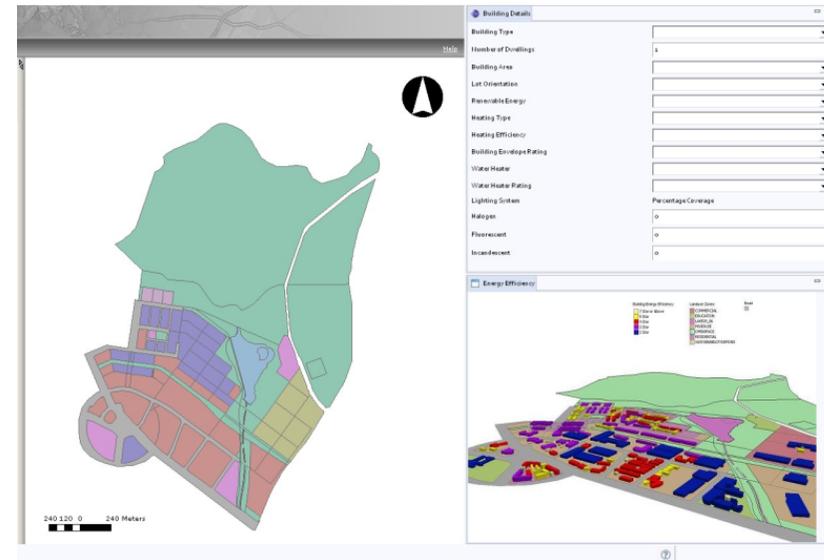
# Top Ten

- Ecological value
- Providing affordable accommodation
- Consequences and challenges of location
- Improving access and connectivity
- Managing heritage
- Showcasing sustainability
- Development costs
- Roles and responsibilities of stakeholders
- Diversity within the community
- Sustaining the economics

# Exploring the Future

## Examples of Variables

- Land use
- Density
- Built form
- Connectivity
- Use of natural systems  
(e.g. solar access, natural ventilation)
- Network of road, cycling and walkways
- Water and energy efficient building designs



# Movie

See [www.csiro.au/science/Integrated-Assessment.html](http://www.csiro.au/science/Integrated-Assessment.html)

# Three Big Challenges for Urban Sustainability

- Adapting our urban way of life to living with less oil in car-dependent cities and suburbs
- Rejuvenating our existing buildings and urban infrastructure to reduce resource use per person by 20% by 2020
- Planning and design for improved health in safe, attractive and secure urban environments

**Design Challenge: How do we achieve more quality of life from less materials and energy?**

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Thank you

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