

Climate Adaptation National Research Flagship

National Research
FLAGSHIPS
Climate Adaptation

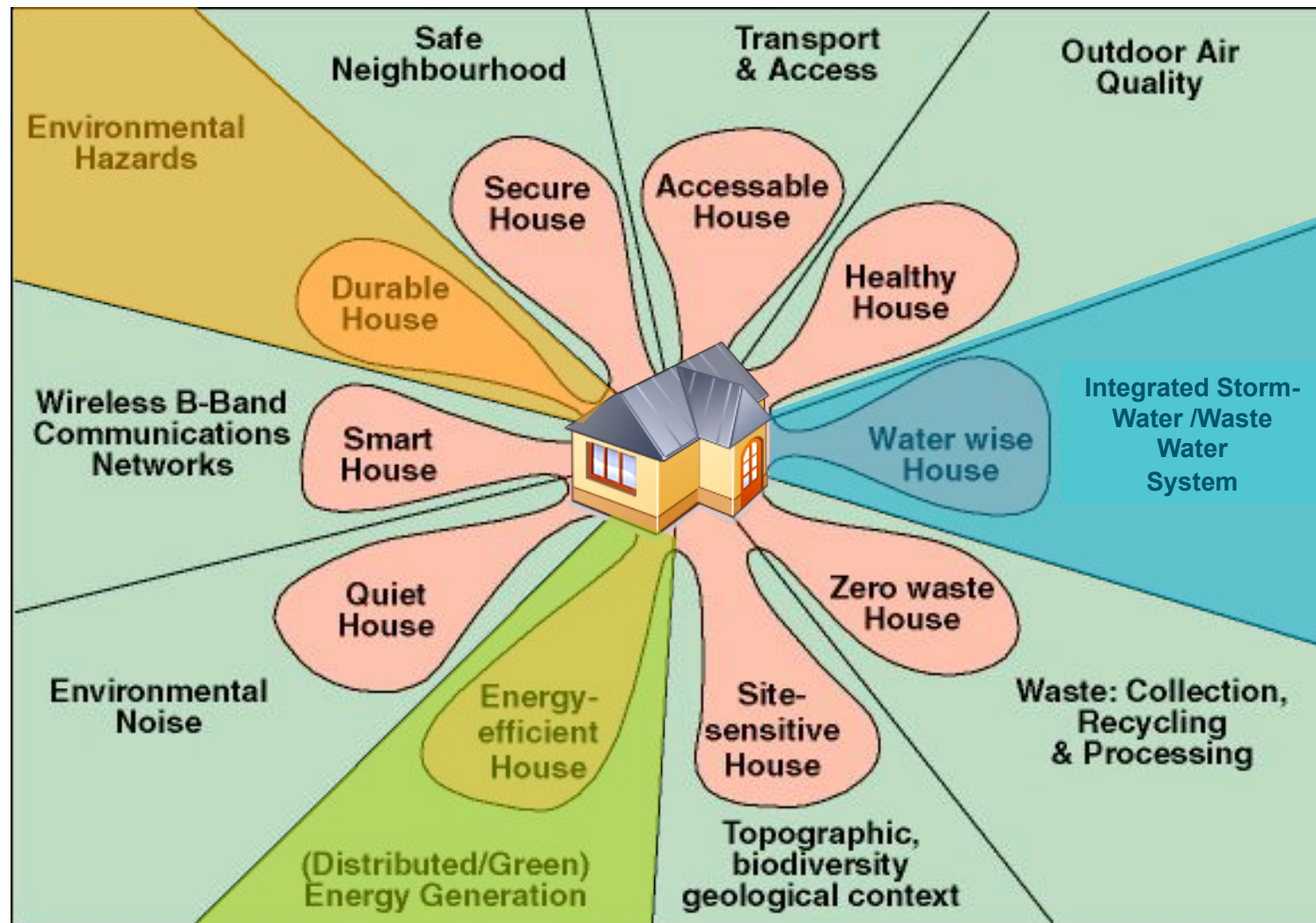
 **CSIRO**



Integrated thinking for a sustainable future

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

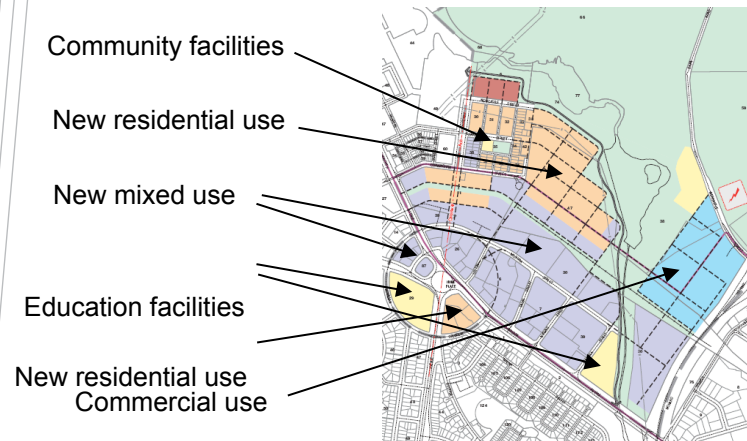
Setting boundaries



Context for the East Lake Urban Renewal

Planning Features of East Lake

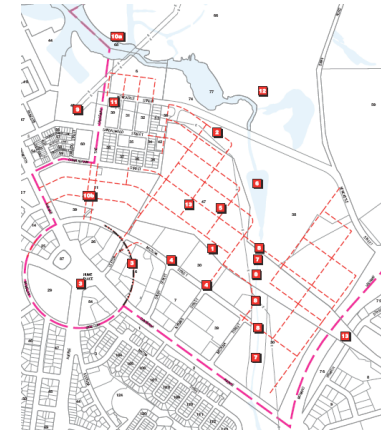
New Land Use



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”

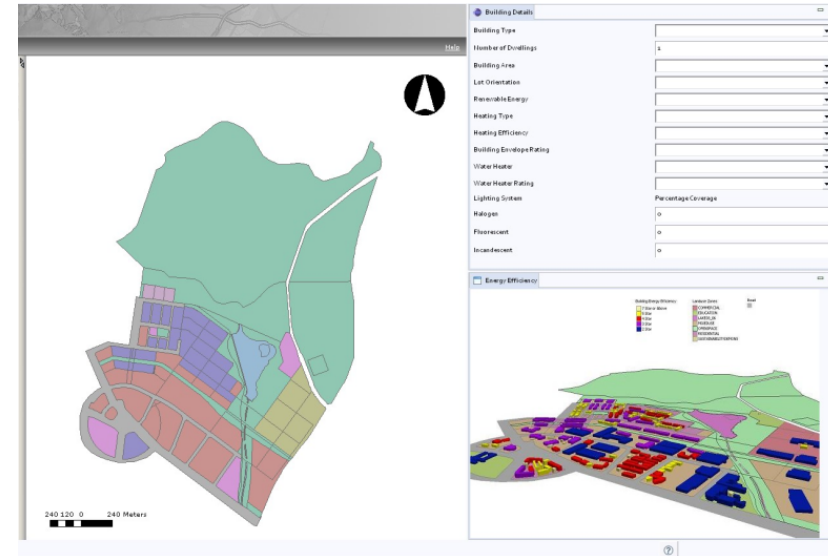
Top Ten

- 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

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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