

Sydney Olympic Park

Towards a Sustainable Future

Challenges and Opportunities

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Summary of Presentation

- **Environmental legacies - Sydney Olympic Park**
- **Sydney Olympic Park Authority**
- **Vision 2025 – Sustainable Township**
- **The “Green Economy”**
- **Brighter Future – Solar City at Sydney Olympic Park**
- **Challenges – Post Games**



Sydney 2000 Games

.....where to from here?

International Recognition

The Sydney 2000 Games were described as:

“ the best ever and the greenest or most sustainable Games ever.... Without question Sydney 2000 has set the bar high..... I am confident that your example has set new standards that not only other Olympics, but also other events, construction, infrastructure, urban redevelopment and suburban development projects will need to follow. ”

(Maurice Strong, Chairman Earth Council, Jan 2001)

Environmental legacies: Sydney Olympic Park

- **Urban renewal: remediation & restoration of 190 ha**
- **On-site treatment: scheduled chemical waste**
- **Creation of 450 ha of parklands**
- **High profile urban water recycling system (saves 1GL drinking water/year)**
- **High profile renewable energy installations**
- **Winner of over 70 national and international awards for environment, design, architecture and project m/ment**
- **Sustainable design excellence prioritised in all new developments – sustainable township**
- **Commitment to public transport**
- **Commitment to community infrastructure**

Lessons Learned

- **Strong value in establishing clear requirements for sustainable design – without prescribing specific initiatives**
- **Weighting a proponent’s response to sustainable design established a genuinely competitive process that challenged designers to prioritise sustainable design excellence and environmental innovation**
- **An integrated response to sustainable design delivers outcomes that flow from a building’s design, its construction and ongoing operation. This is evidenced in over 70 national and international awards for environment, architecture and design for venues and facilities at Sydney Olympic Park**

Sydney Olympic Park Authority

- ✓ Established 2001, manages open space, development areas, parklands at Sydney Olympic Park
- ✓ Strong commitment to environmental management
- ✓ Goals are to ensure that Sydney Olympic Park:
 - becomes an active and vibrant metropolitan centre
 - premier destination for culture, entertainment, recreation and sporting events
 - new development embodies excellence in sustainable design and best practice town planning standards
 - parklands are protected and enhanced

Our Aims:

- To optimise the legacy of the Olympic investment in terms of:
 - public use and enjoyment of facilities/assets
 - development utilisation of prime, high amenity location
 - place for major events
 - lasting Olympic memories
- To support the Government's long-term urban planning objectives for the Metropolitan area through the development of a new town.
- To reduce the cost to Government over time.

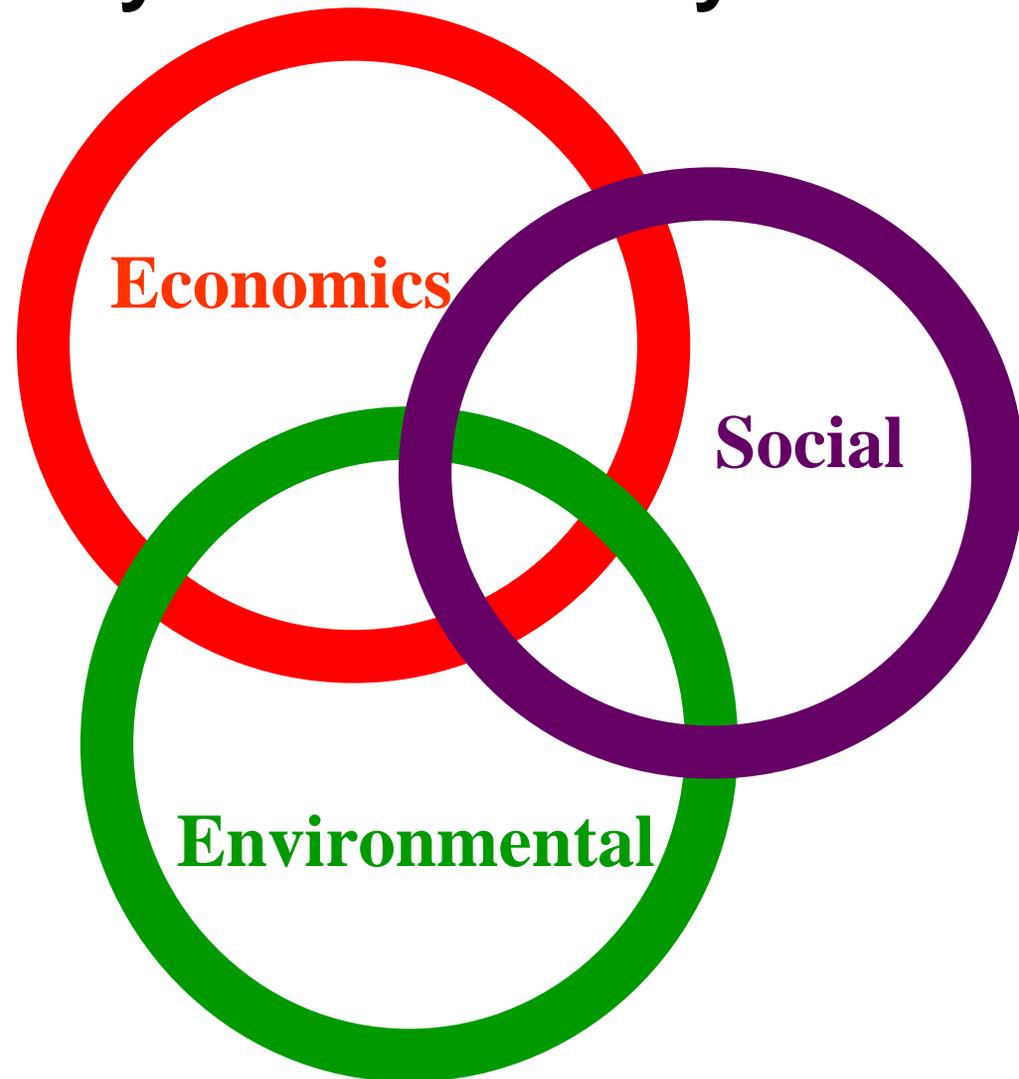






What do we mean by Sustainability?

- A holistic vision which embraces a 'whole of life' perspective rather than a 'short term' approach.
- Establish an equitable balance between environmental, social and economic strategies both now and into the future.



Sustainability challenges - Sydney

- **Sydney is a global city**
- **1000 people arriving each week**
- **Ageing population**
- **Physical health and wellbeing issues (obesity, diabetes, heart disease)**
- **Resource issues – water, energy**
- **Increasing pollution: waste generation, vehicle transport**
- **Impact of climate change**

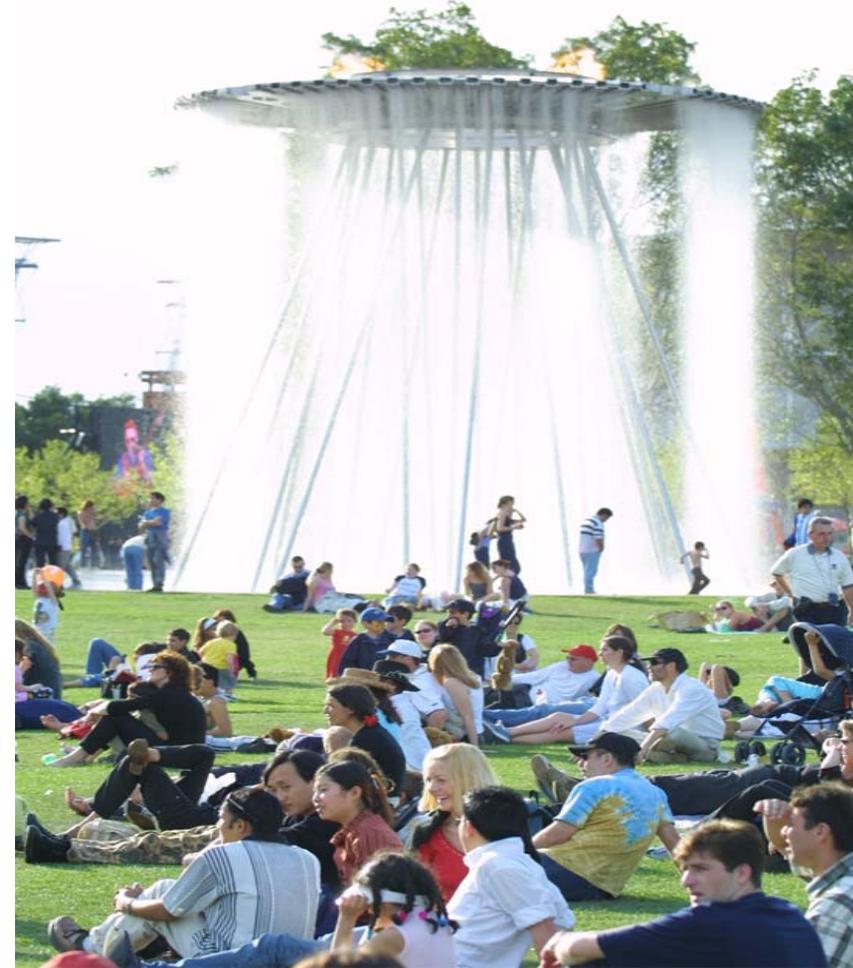
Urgent need for metropolitan Sydney to respond to these pressures – Future urban planning needs to adopt an holistic view of sustainability (social, economic, environmental)

Checklist for sustainable cities

- **Less than 500m to public transport**
- **Accessible paths of travel (wide enough for wheelchairs)**
- **Less than 500m to shops**
- **Less than 30 minutes by mass transit to employment, education, social and cultural opportunities**
- **Safe walking/cycling paths to primary, secondary schools**
- **Mix of housing types with different price points**
- **Best practice sustainable design prioritised**
- **Good indoor and outdoor air quality**
- **Sense of community in the neighbourhood**
- **Tolerant and safe environment**

Vision 2025 – A Sustainable Township

- Next evolution of Master Plan
- Integrated as part of broader Metro Strategy for Sydney
- Mixed use community residential / working / visiting population: ~ 40,000/day
- Annual visitation: ~ 7-10 million

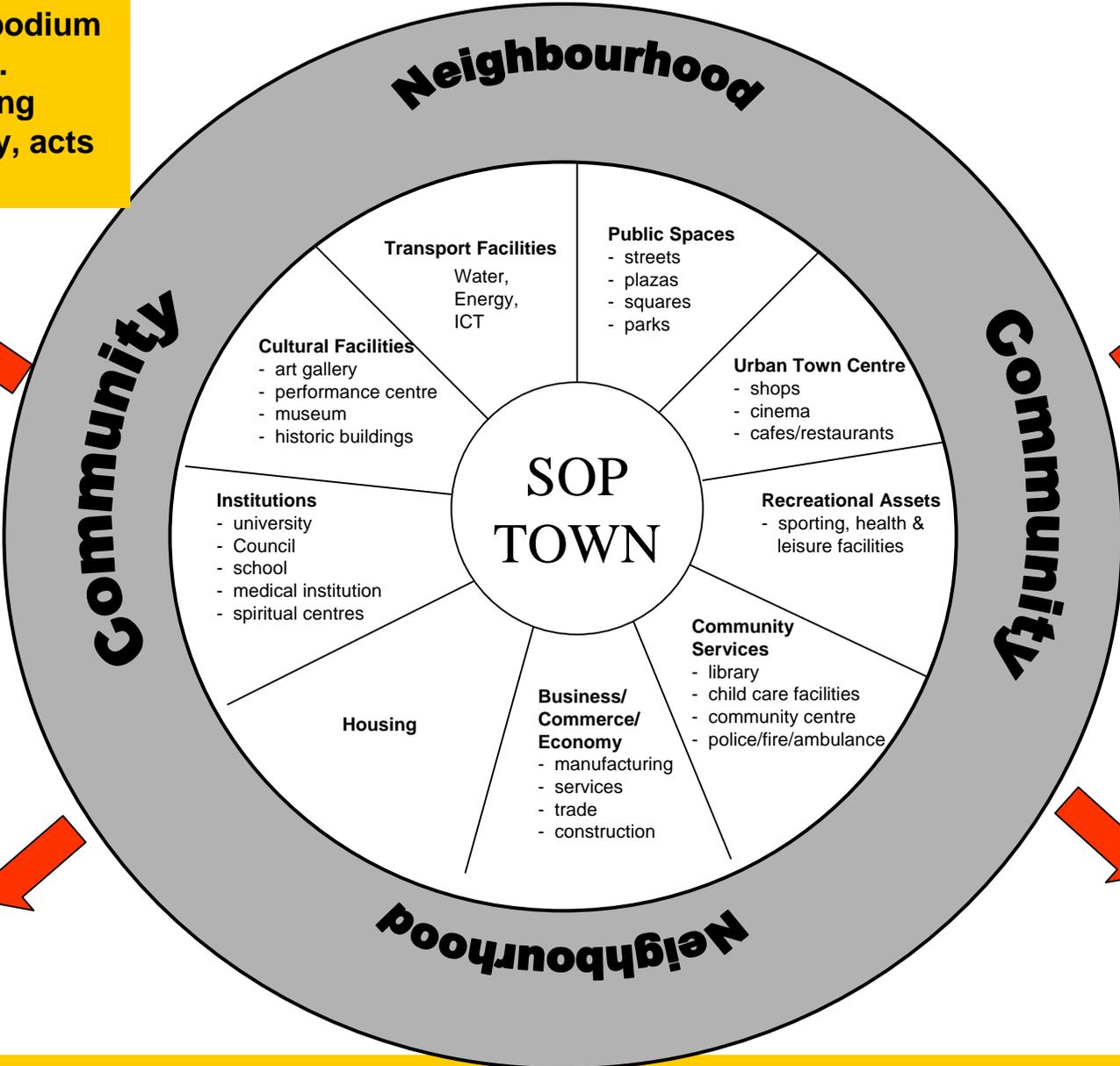


Vision for a sustainable town

- **A new model for sustainable urban development reflecting a unique economic system; a vibrant and inclusive society and strong commitment to ecologically sustainable development**
- **a ‘*city within a city*’ model, offering residents, workforce, students and visitors living / working / learning opportunities in a self-sustaining environment**

GLOBAL TOWN
 - international podium
 - seeks int. std.
 - outward looking
 - thinks globally, acts locally

Global Outlook



Global Outlook



Global Outlook



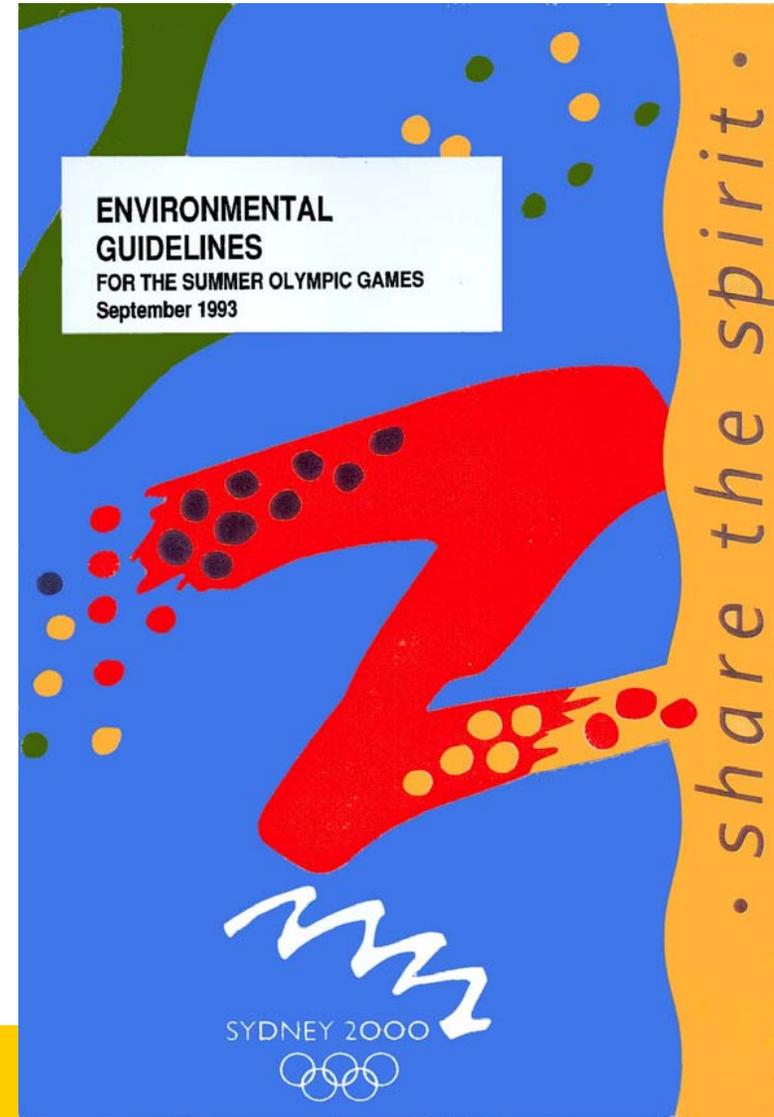
Global Outlook



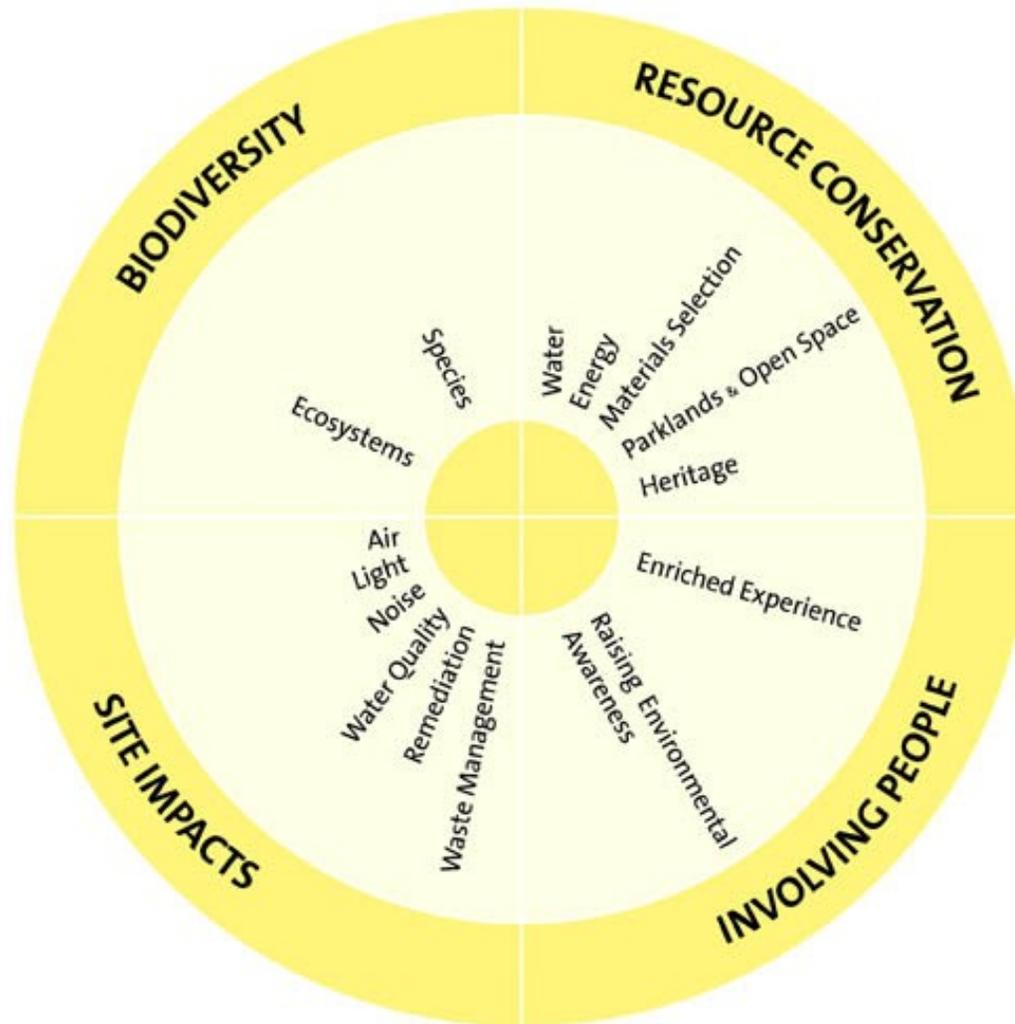
Environmental Guidelines (1993)

Part of Games Bid, under SOPA Act 2001, the Guidelines still apply to SOPA's actions at Sydney Olympic Park. Outlines ESD in terms of:

- Protecting biological diversity;
- Energy conservation;
- Water conservation;
- Waste avoidance & minimisation;
- Protecting significant natural and cultural environments

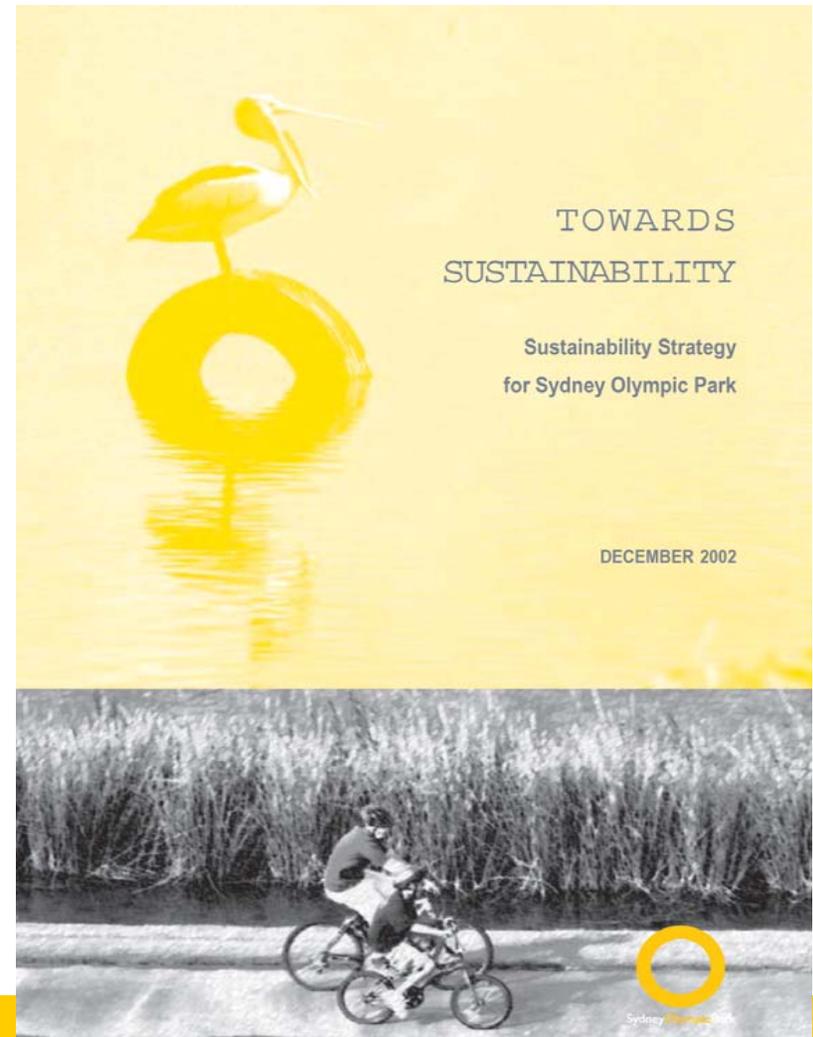


Environmental Performance Areas



Sustainability Strategy

- A “roadmap” for sustainability
- Establishes four key Environmental Performance Areas
- Address the ESD principles described in SOPA’s Sustainability Policy and the Environmental Guidelines.



Sustainable Development at Sydney Olympic Park

- **ESD weighting in all development proposals**
- **Detailed Environment Management Plans (EMP): Design, Construction, Operation**
- **Minimum 4.5* energy efficiency rating**
- **Mandatory connection to water recycling system (WRAMS)**
- **Maximise opportunities for environmental innovation (especially in relation to renewable energy)**
- **Minimum 5 Greenstars for new commercial office**
- **Additional Greenstar tools to be adopted at a 5 star minimum in SOPA's new Masterplan**



Economic Sustainability

Themes:

- Science and Technology
- Education
- **Environment**
- Sport
- Culture, the Arts, Food & Entertainment
- Health, Recreation and Well Being



What is a “Green Economy”?

“The Environment Economy covers a range of activities which are dependent on the regions’ natural and historic built environment or which are involved in protecting or improving the environment.”

(East Midlands Development Agency, 2002)

Local Context:

- **The Australian sustainability sector is projected to be worth \$40 billion/year by 2012.**
- **Sydney Olympic Park is well positioned to take a lead role in promoting further investment in Sydney’s and Australia’s sustainable business industry.**



“Green Economy” - Sustainable Partnerships

Sydney Olympic Park will become Australia’s premier destination for sustainability businesses; attracting national and international organisations who are, or aspire to be, a part of the “green economy”:

- Research organisations**
- Development companies**
- Businesses**
- Financial institutions**
- Educational partners**

Stakeholders who champion innovation and creative thinking to realise a more sustainable future

What is 'Solar Cities'?

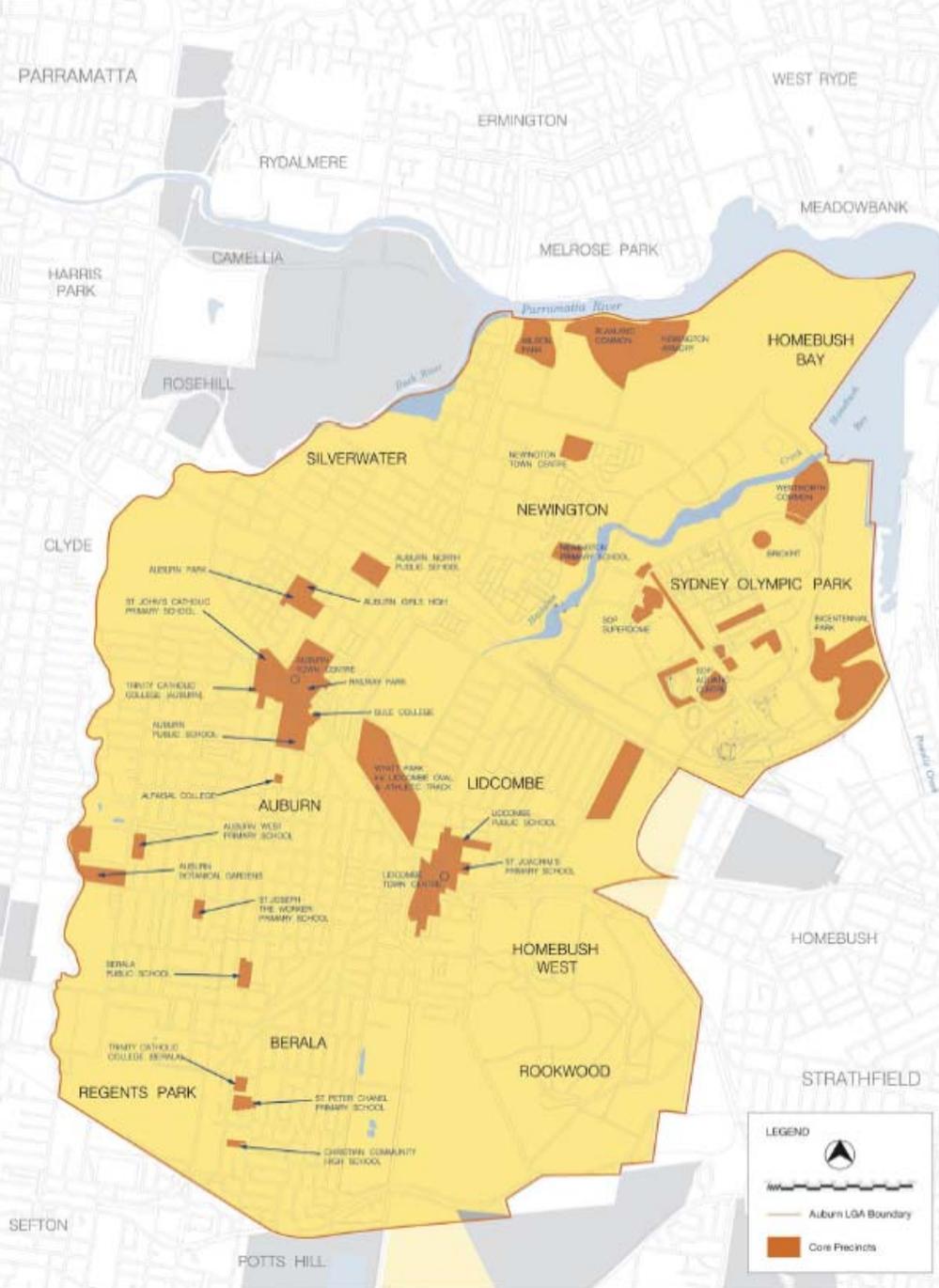
A \$75 million Australian Government program to support at least four trials in urban Australian locations that:

- Provide a critical mass of local penetration of solar energy technologies;
- Assist to improve energy efficiency in commercial and residential buildings;
- Test innovative approaches to energy markets that deliver more effective signals to energy users & modify peak demand and investment profiles; and
- Enable economic and environmental costs & benefits to be monitored and reported on an ongoing basis.



Brighter Future brings together fifteen leading Australian organisations



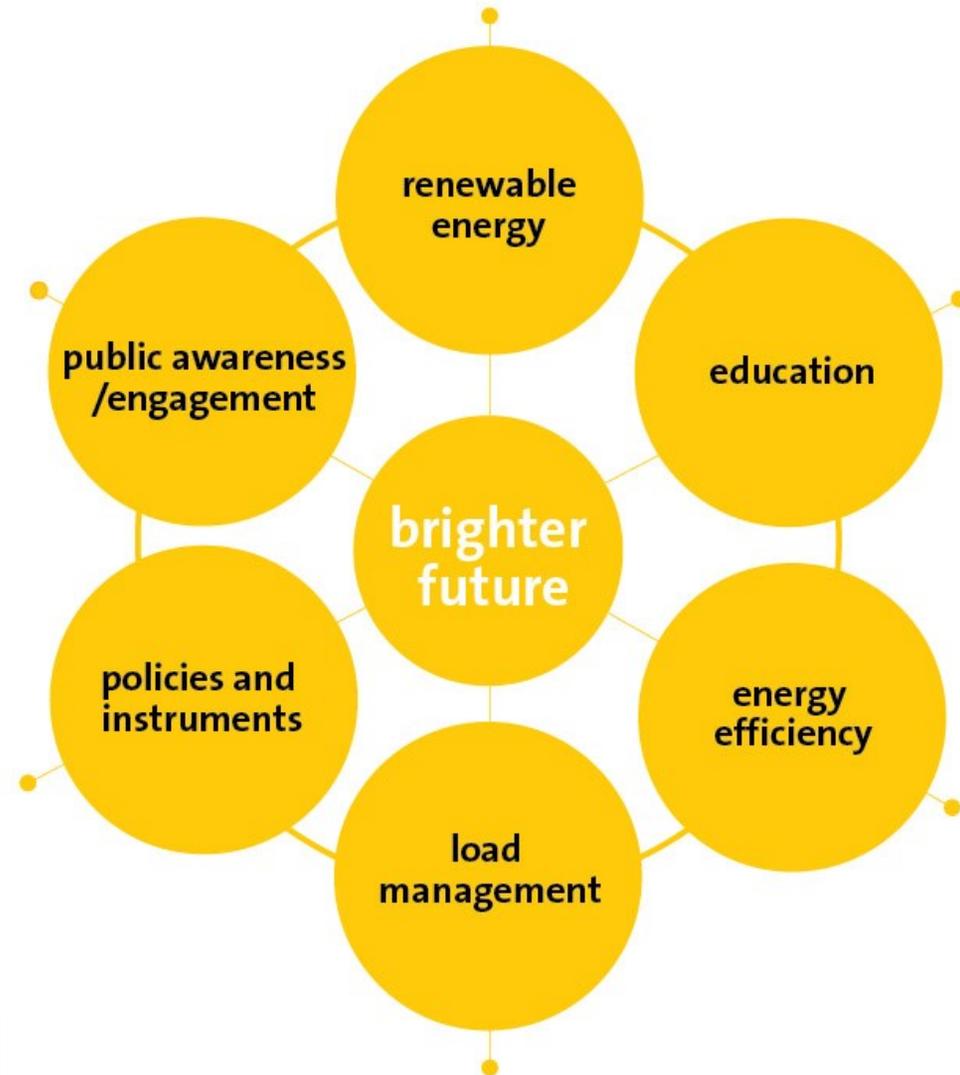


The footprint of Brighter Future covers the 31km² of the Auburn Local Government area

Sydney Olympic Park/Auburn Council Solar City Brighter Future Core Precinct

Brighter Future: Sydney Olympic Park / Auburn

- \$39M program
- 30 inter-related projects
- \$15M Federal funding
- \$24M In-Kind



Challenges – Post Games

- **Public awareness of Sydney Olympic Park as multifaceted precinct - not just for elite sports**
- **Maximise economic returns to Govt: Securing high profile major events, major investment and development**
- **Integration of Sydney Olympic Park as part of broader urban planning strategy for metropolitan Sydney**
- **Expansion of water recycling infrastructure**
- **Maintaining relationships with NGO's, other agencies**
- **Maintaining sustainable procurement strategies with venues and major corporate sponsors – other major events**
- **Securing Govt. funding for expanded environmental programs (State and Federal)**

Towards a Sustainable Future

- **Recognise and value existing environmental legacies**
- **Continue to build sustainable partnerships: governments, business, environmental and community organisations.**
- **Sydney Olympic Park a key destination for organisations that aspire to best practice environmental, social and economic sustainability**

