

Infrastructure in South Australia: Government Perspective

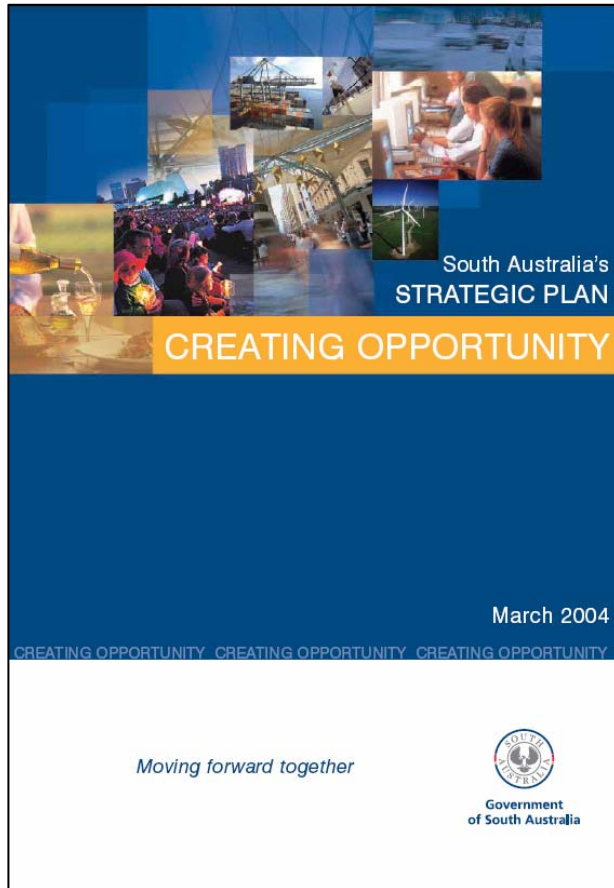
Rod Hook, Executive Director

Office of Major Projects and Infrastructure



BUILDING
South Australia

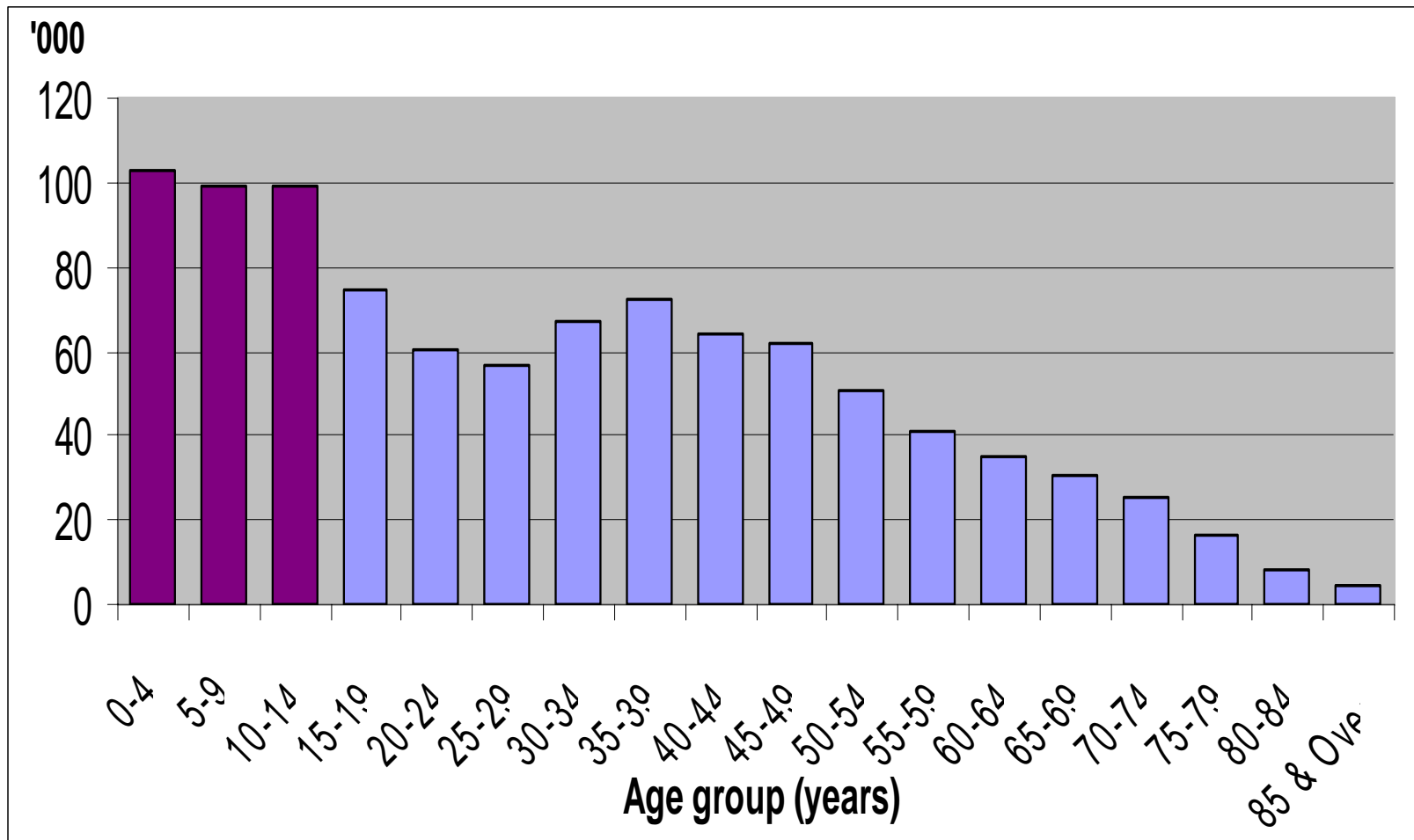
Objectives for Infrastructure:



- Timely and fit-for-purpose infrastructure
- Increased investment (SASP)

Issues: Population Pressures

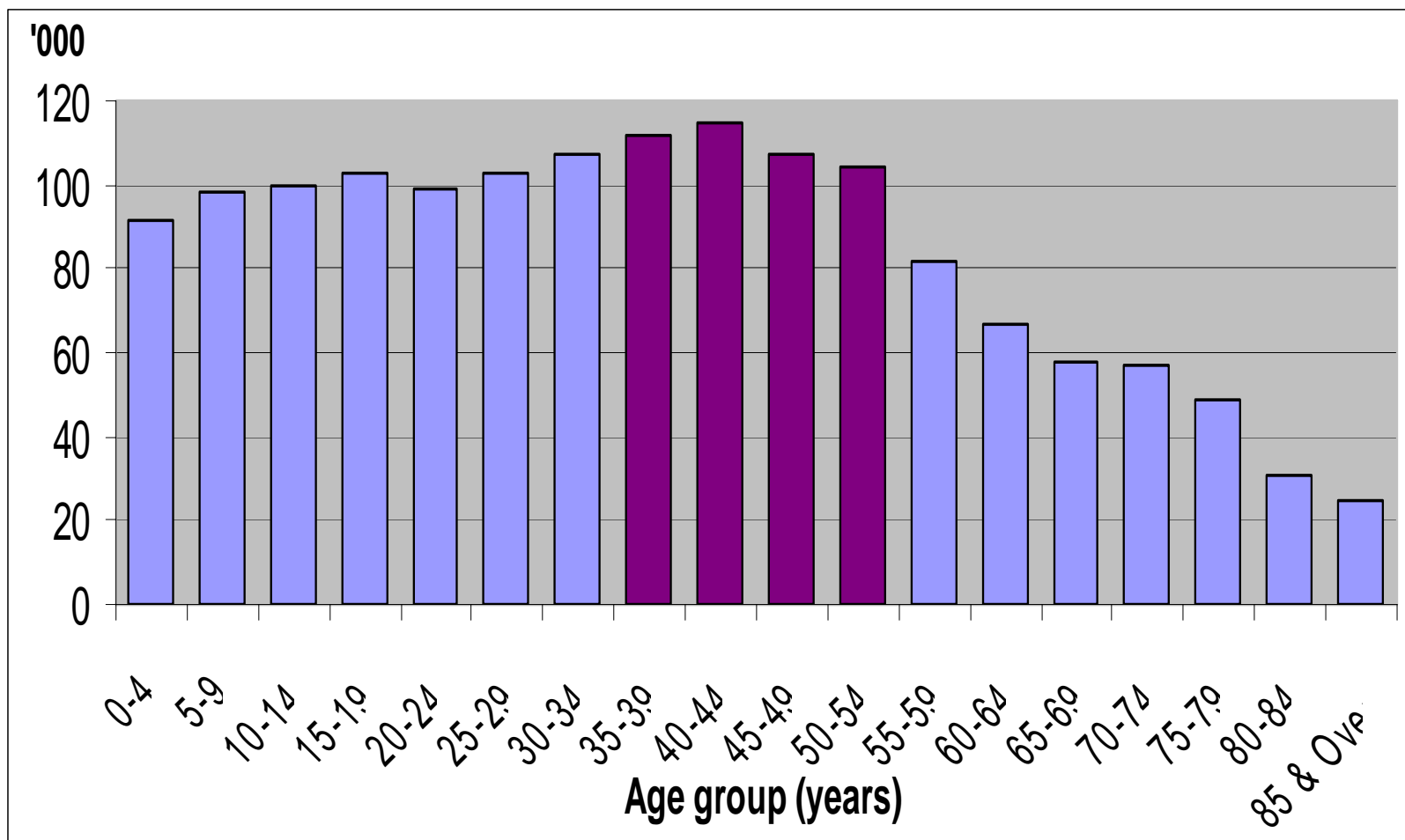
South Australia 1961



Source: ABS * 3105.0.65.001 Australian historical population statistics table 27

Issues: Population Pressures

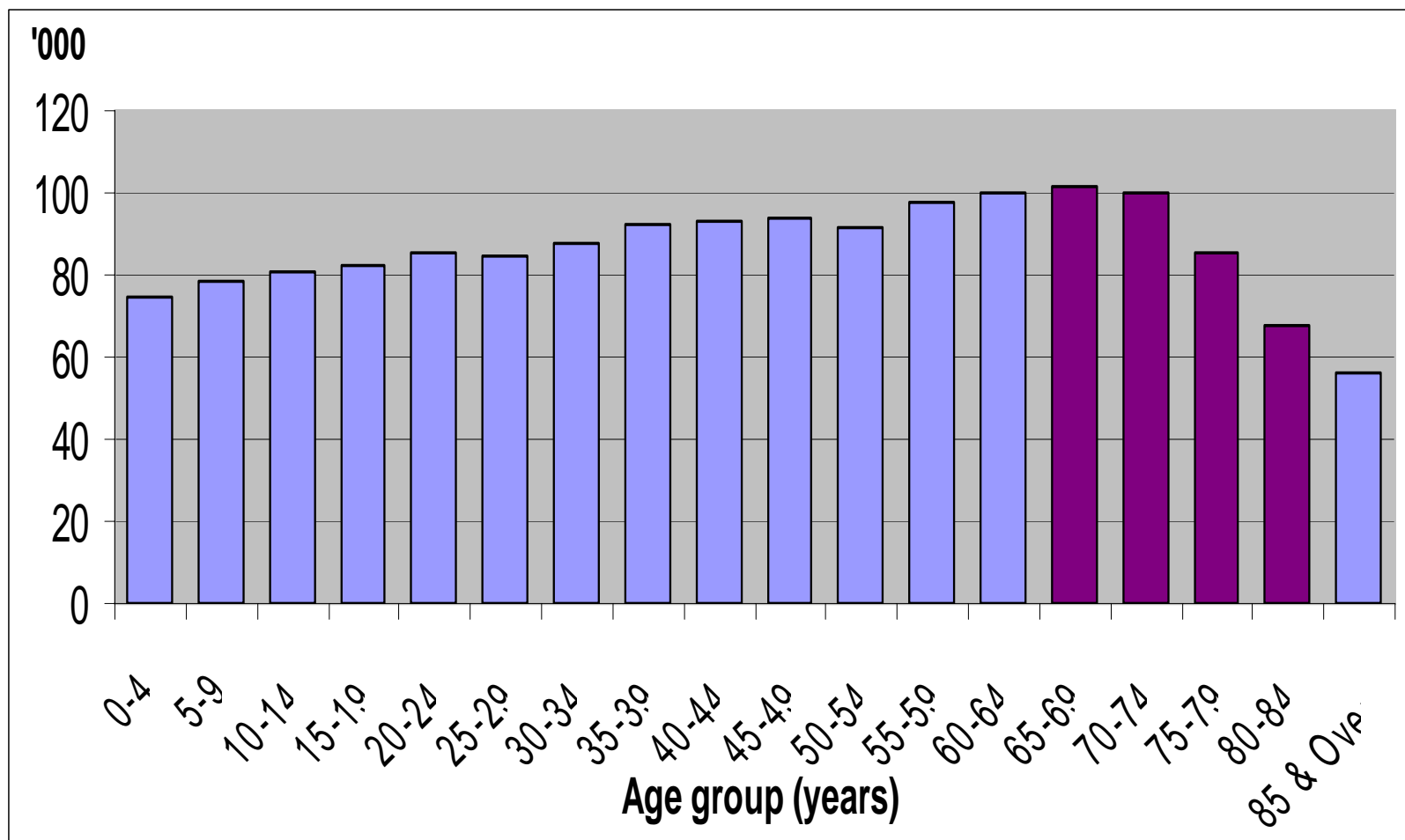
South Australia 2001



Source: ABS * Population Projection * 3222.0 * 1999 to 2101

Issues: Population Pressures

South Australia 2031



Source: ABS * Population Projection * 3222.0 * 1999 to 2101

Issues: Owners of Assets

Transport

- 9,253km Arterial Roads
- 2,735km National Highways
- 10,720km Local Roads

Office Accommodation & Employee Housing

- 340,000m2 Office Space
- 1,870 Houses

Public Housing

- 56,333 Houses

Health & Community Services

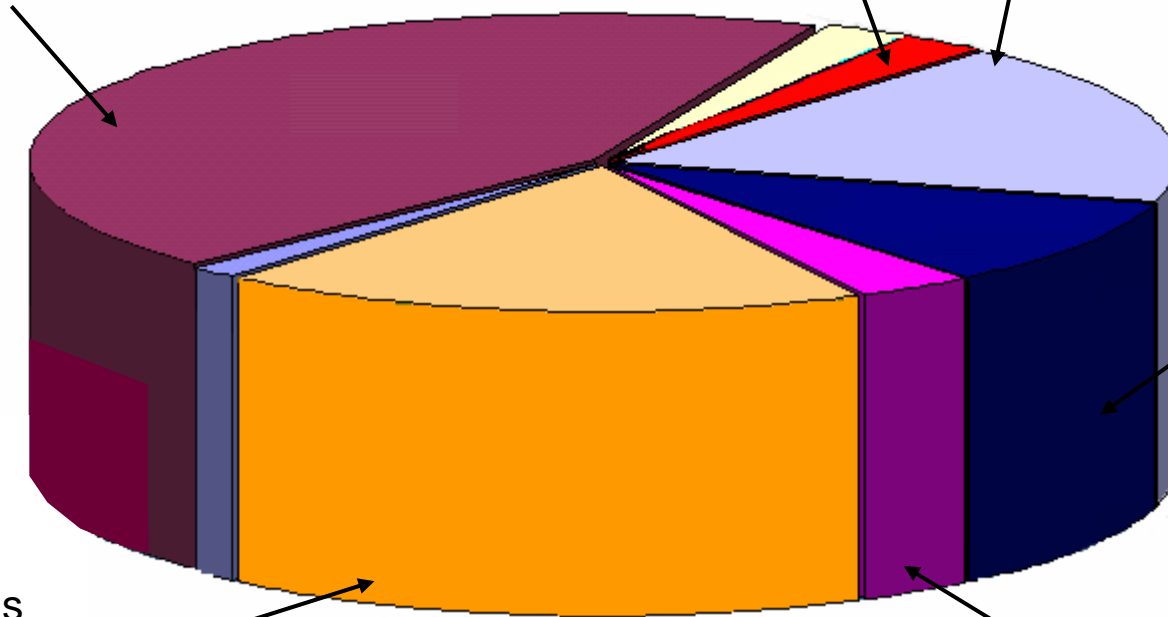
- 7 Metro Hospitals
- 68 Regional Hospitals
- 195 Primary Care Facilities

Justice Facilities

- 9 Correctional Facilities
- 29 Courts
- 34 Fire Stations

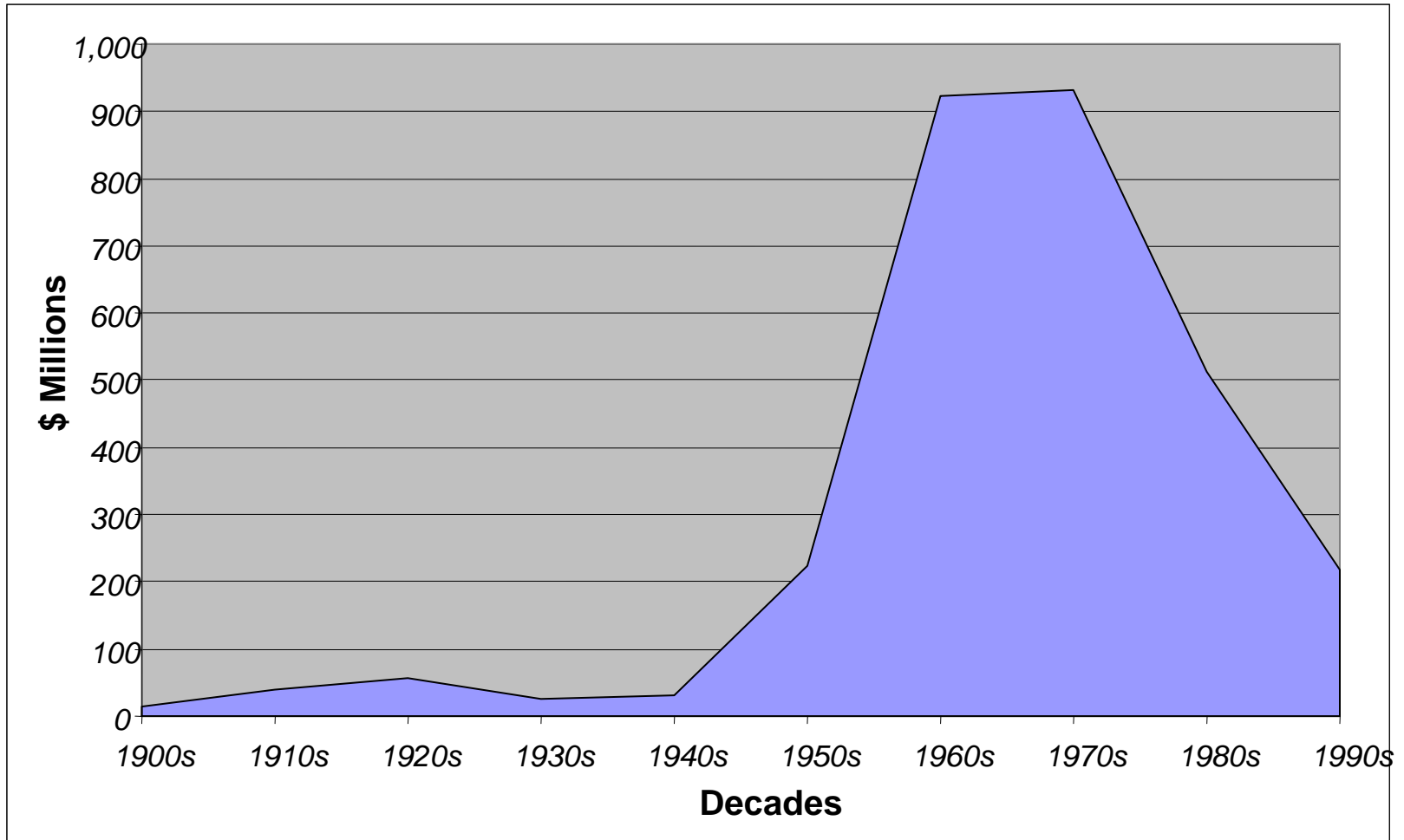
Education

- 607 Schools
- 416 Preschools
- 8 TAFE Institutes



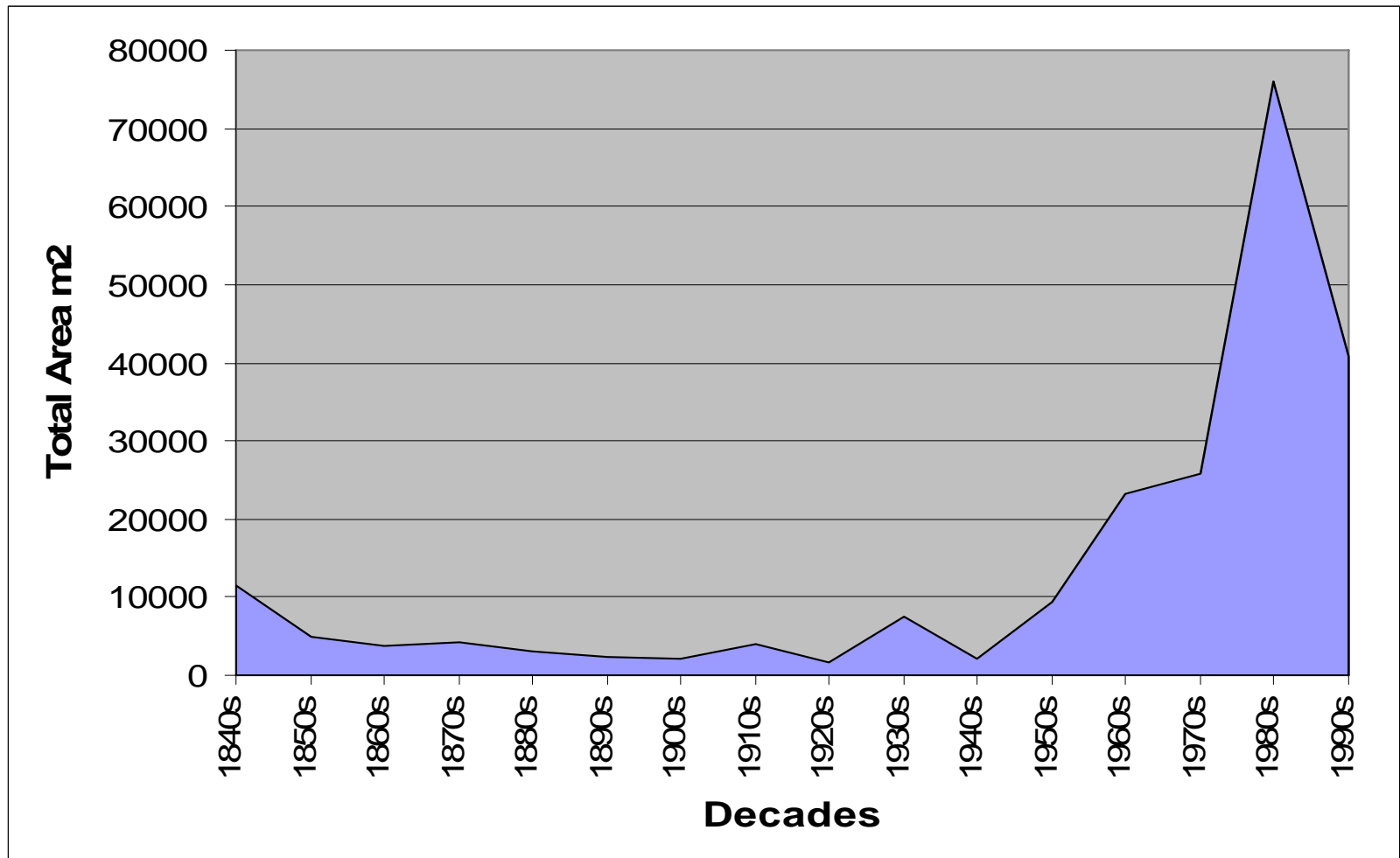
Issues: Age of Assets

Schools – built asset age profile



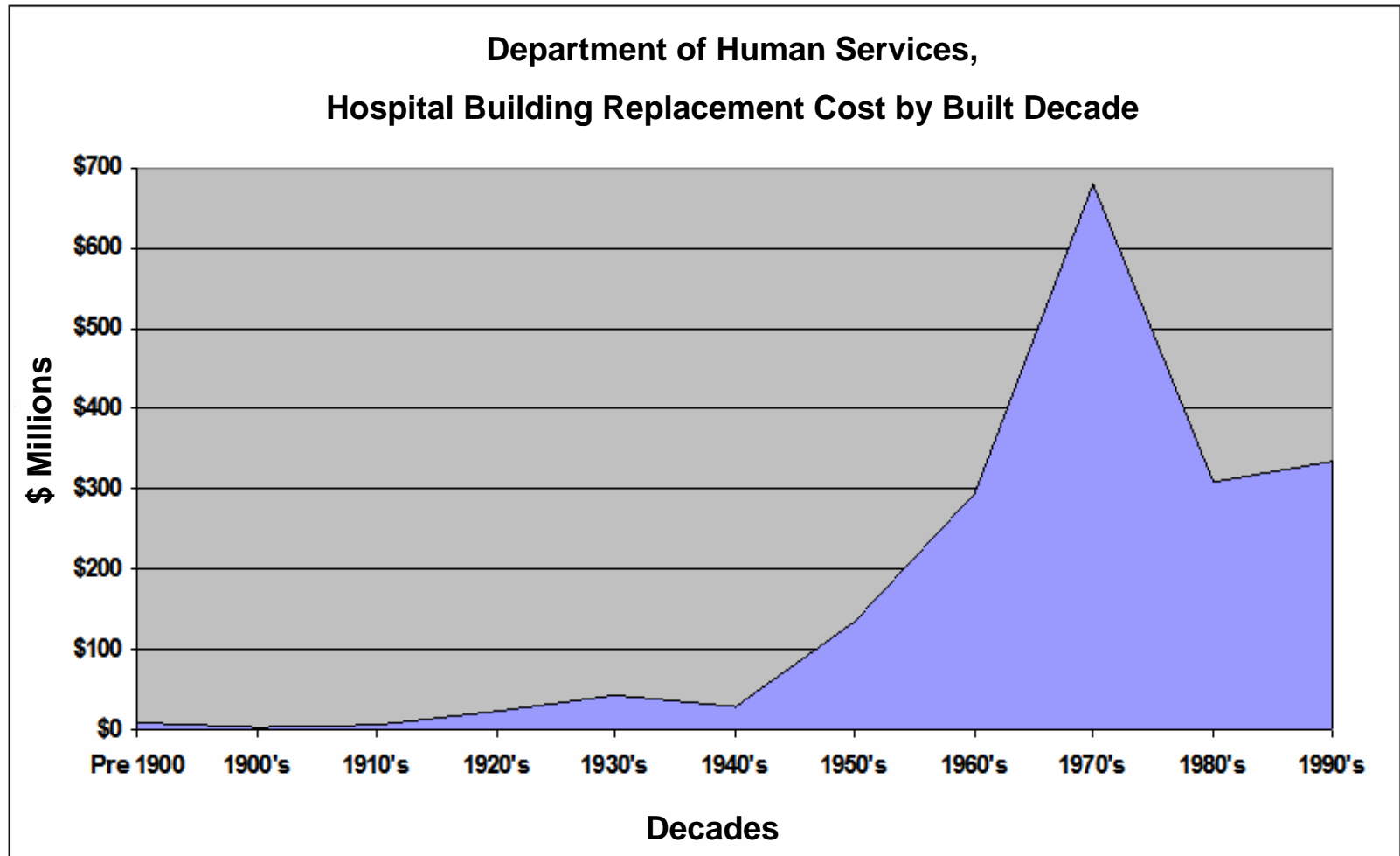
Issues: Age of Assets

Justice – built asset age profile



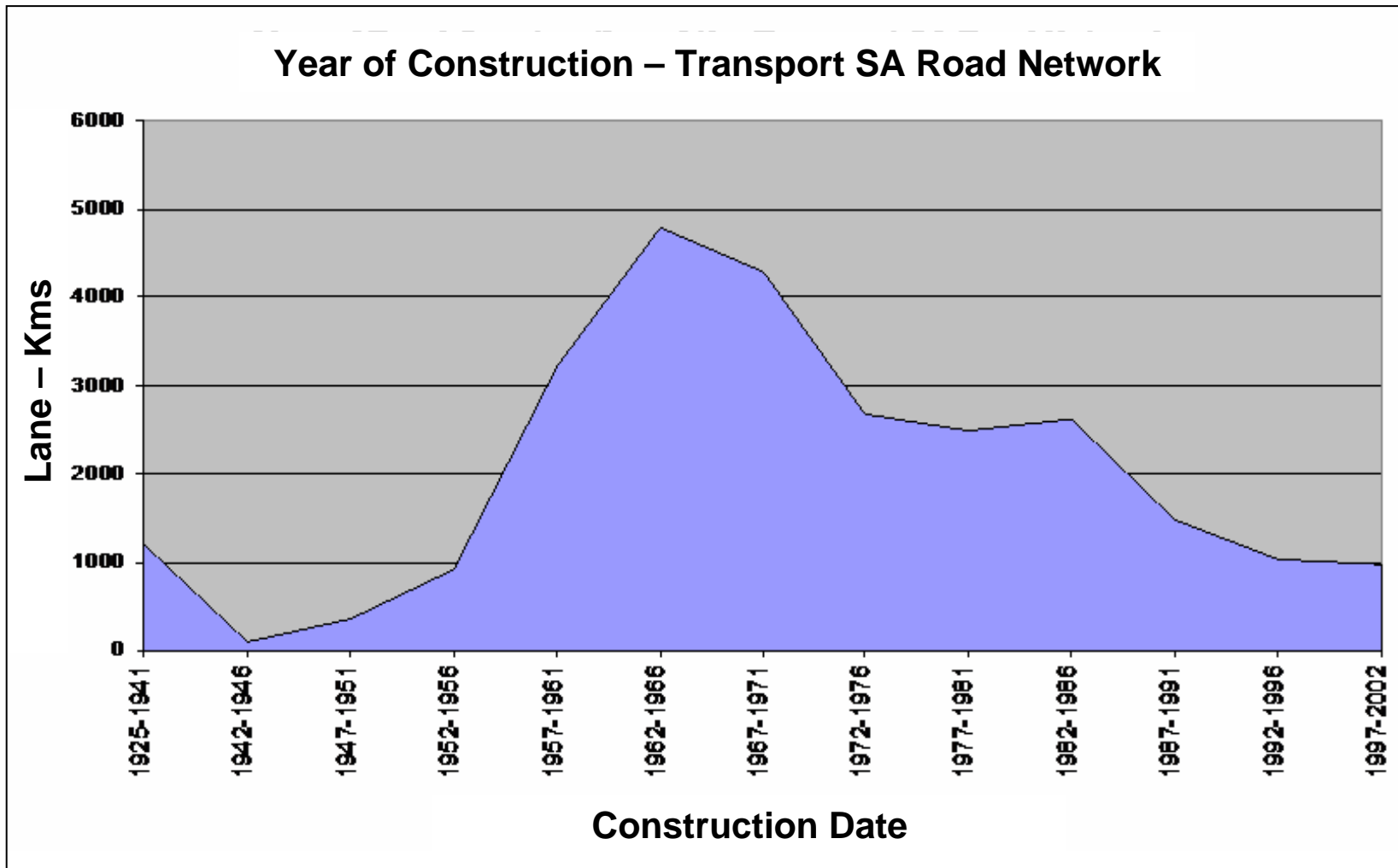
Issues: Age of Assets

Hospitals – built asset age profile



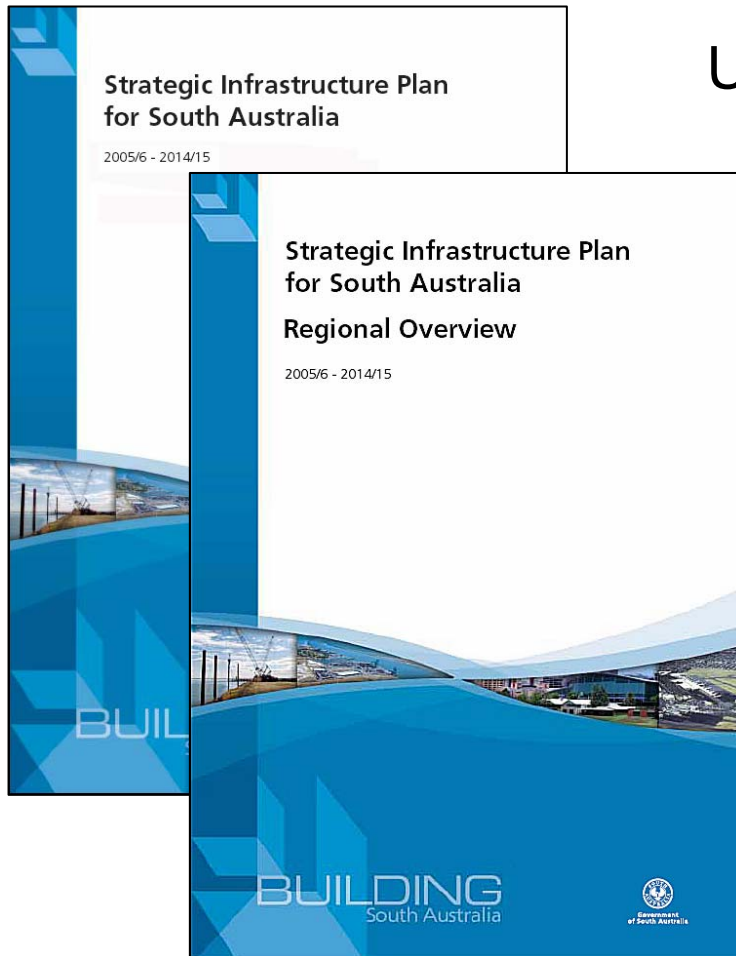
Issues: Age of Assets

Roads – built asset age profile



Strategic Infrastructure Plan for South Australia

Released April / May 2005



Understanding the Plan:

- Process
- Priorities
- Projects



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of South Australia

Process: Infrastructure Planning and Delivery Framework

Strategic Infrastructure Priorities Approved

Project Defined for Investigation

Project Substantiated & Business Case Approved

Project Funding Method & Appropriation (if any) Approved

Decision to Proceed

1. Strategic Analysis & Identification of Infrastructure Need	2. Outline of Case for Change and Project Scoping	3. Project Planning and Substantiation	4. Funding Method & Resource Allocation	5. Delivery of Project
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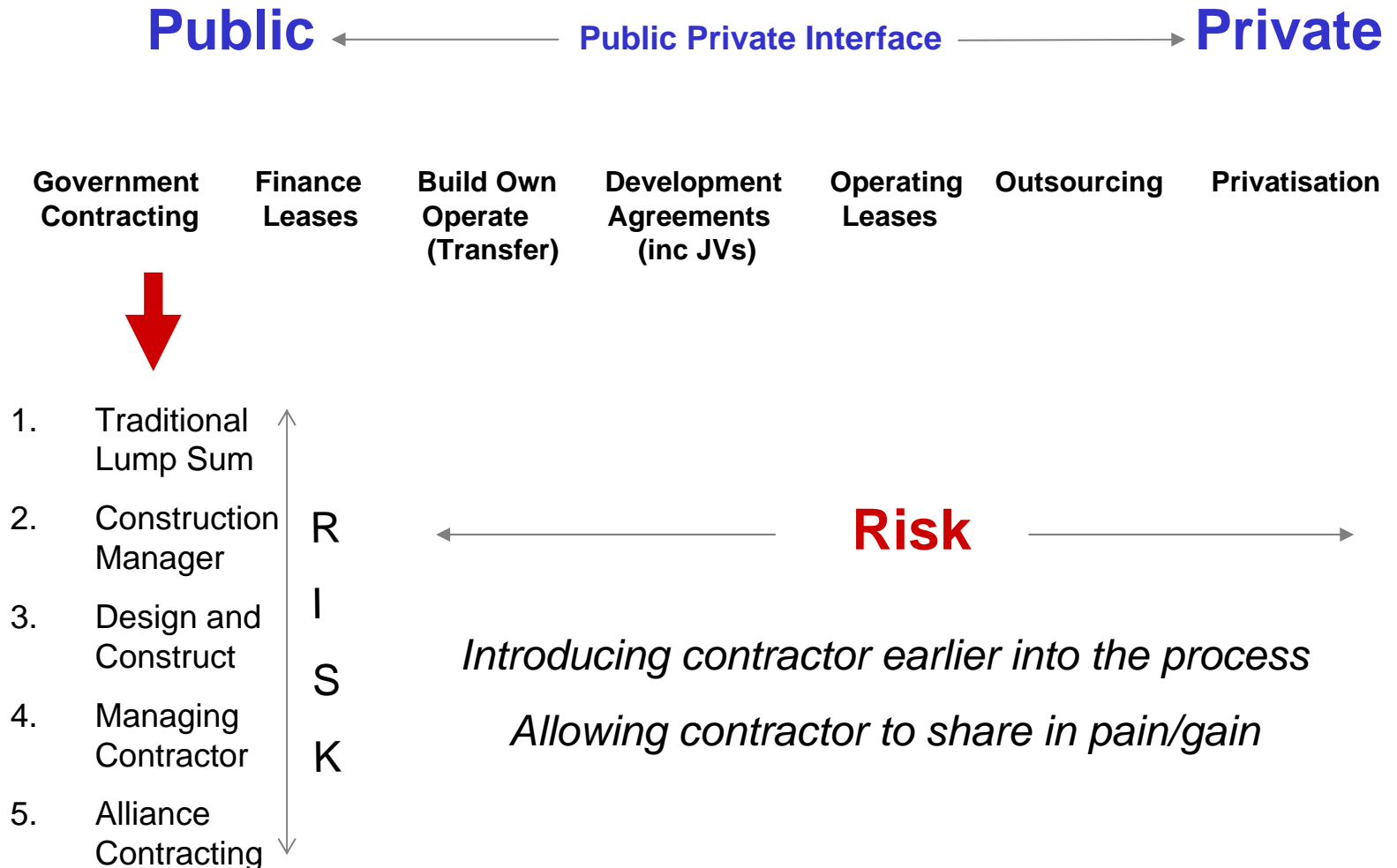
← Strategic Level → ← Project Level →

Strategic Infrastructure Plan	Agency Plan	<ul style="list-style-type: none"> - Objectives clarified - Required serviced identified 	<ul style="list-style-type: none"> - Whole-of-life costings - Sustainability targets - Design development 	<ul style="list-style-type: none"> -Need for state capital allocation 	<ul style="list-style-type: none"> -Detailed design
	Agency Plan	<ul style="list-style-type: none"> - Preliminary costs/ timeframes 	<ul style="list-style-type: none"> - Revenue opportunities 	<ul style="list-style-type: none"> -Local Government role 	<ul style="list-style-type: none"> -Expression of interest
	Agency Plan	<ul style="list-style-type: none"> - Strategic asset review/ implications 	<ul style="list-style-type: none"> - Financing options - Procurement options 	<ul style="list-style-type: none"> -Australian Government subsidies 	<ul style="list-style-type: none"> -Tenders
	Agency Plan	<ul style="list-style-type: none"> - Opportunities for asset redevelopment and/or disposal 	<ul style="list-style-type: none"> - Consultation - Benefit to government 	<ul style="list-style-type: none"> -Role for InfraCorp 	<ul style="list-style-type: none"> -Approvals/ Consents/ reports
	Unsolicited Proposals	<ul style="list-style-type: none"> - New project identified & scoped - Initial affordability/ budget impact - Broad prioritisation 	<ul style="list-style-type: none"> - Triple bottom line - Consents required - Hurdle rate (if relevant) - Analysis of prioritisation - Affordability/budget impact 	<ul style="list-style-type: none"> -Commercial project -Opportunity for PPP, BOO, BOOT, DA, other 	

SOUTH AUSTRALIA'S STRATEGIC PLAN

- Growing Prosperity;
- Improved Wellbeing;
- Attaining Sustainability;
- Fostering Creativity;
- Building Communities;
- Expanding Opportunities

Public – Private Continuum



Strategic Infrastructure Plan for South Australia

Priorities of the Plan:



- Invest in transport infrastructure
- Invest in advanced technologies
- Invest in skills and innovation
- Manage our built assets well
- Match our health and social services to community needs
- Ensure our energy, water and land supplies are sustainable



Plans

- Invest in Transport Infrastructure:
 - Develop Outer Harbor and the Port of Adelaide
 - Upgrade the North-South transport corridor
 - Develop and maintain regional freight networks
 - Increase use of Public Transport
 - Manage our Built Assets well

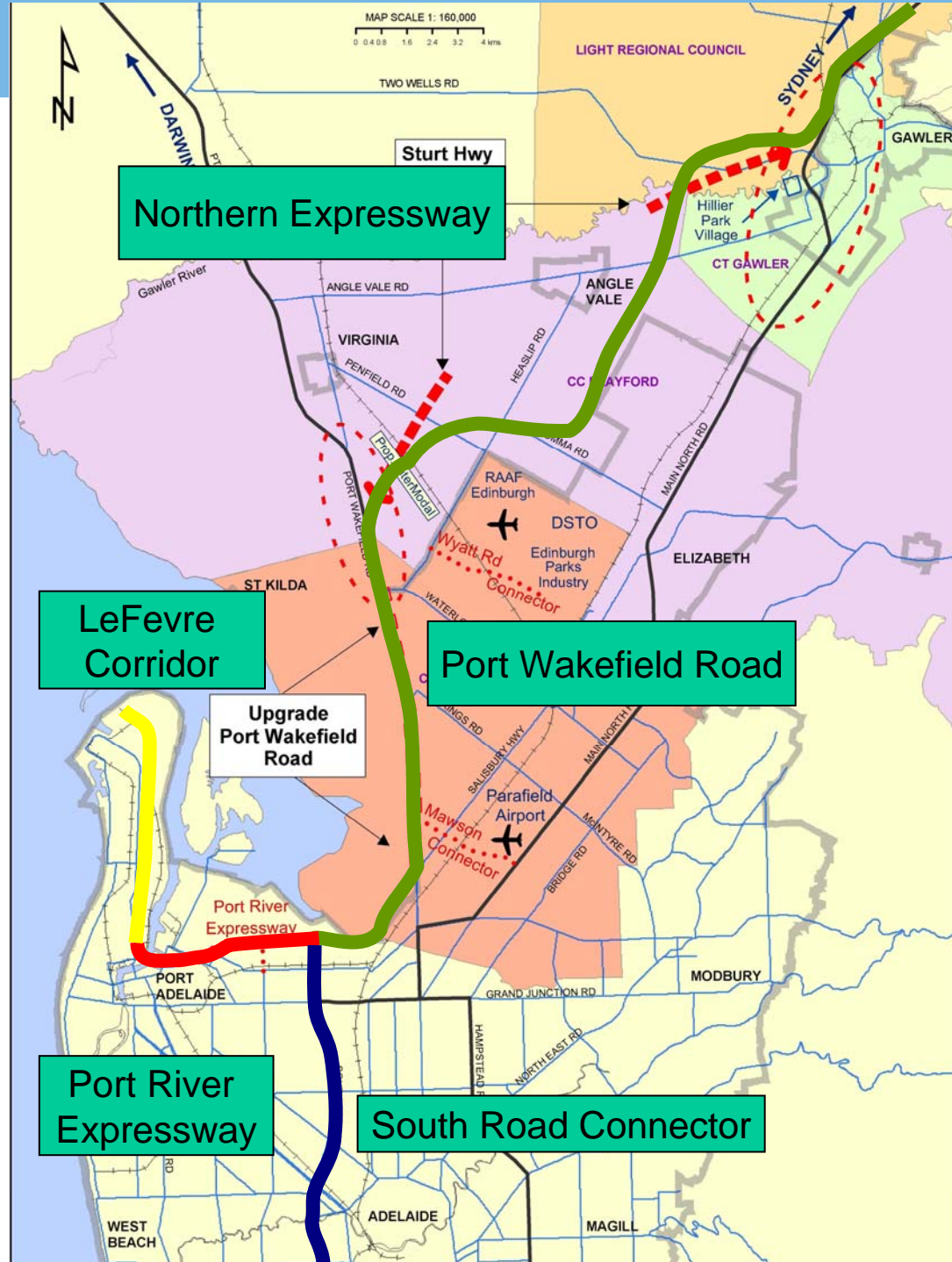


Invest in Transport Infrastructure

Develop Outer Harbor and the Port of Adelaide

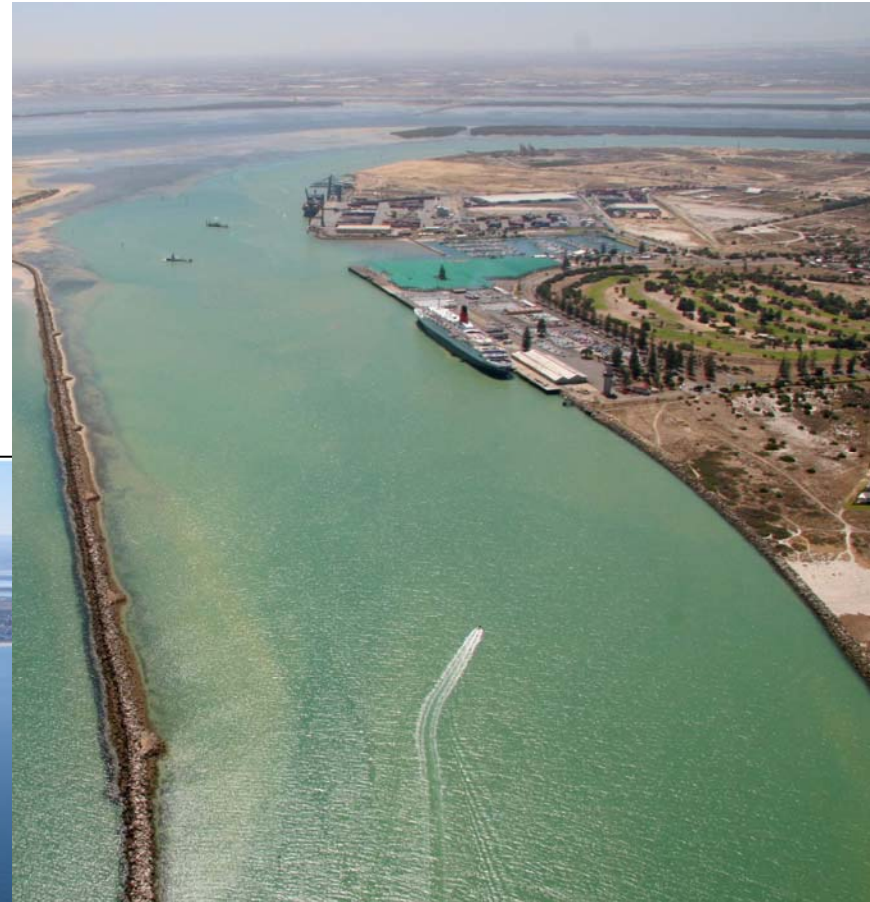


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Invest in Transport Infrastructure

**Outer Harbor Channel
deepened to accommodate
Panamax class vessels**



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Invest in Transport Infrastructure: Outer Harbor

Container Terminal



Grain Wharf



Grain Terminal

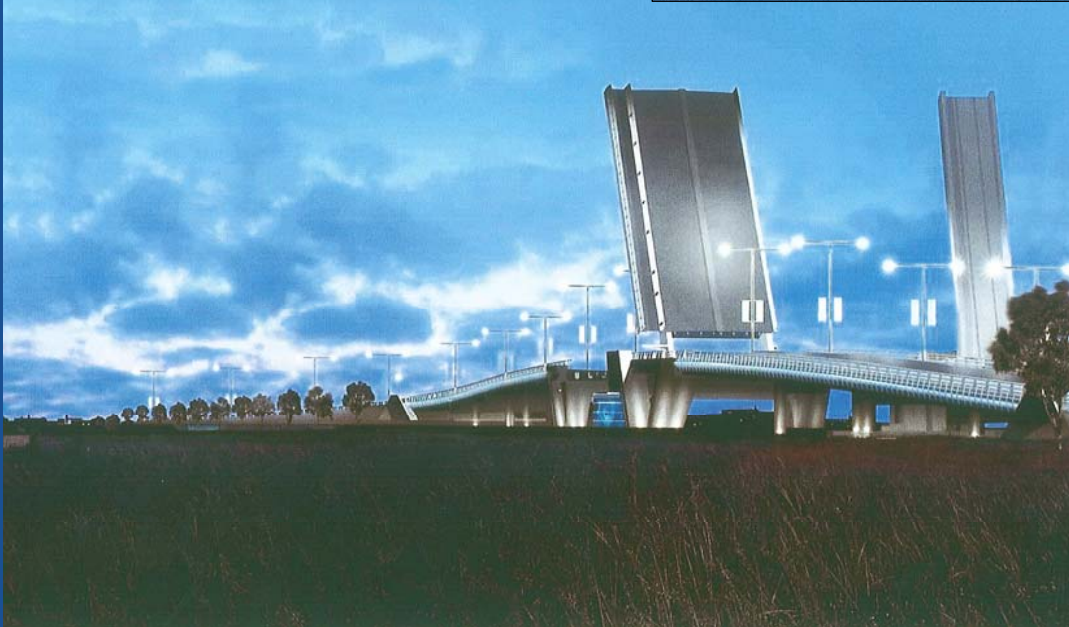


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Port River Expressway – Stage 1



Port River Expressway – Stages 2 and 3



Port River Expressway – Stages 2 and 3



South Road – Anzac Highway Underpass

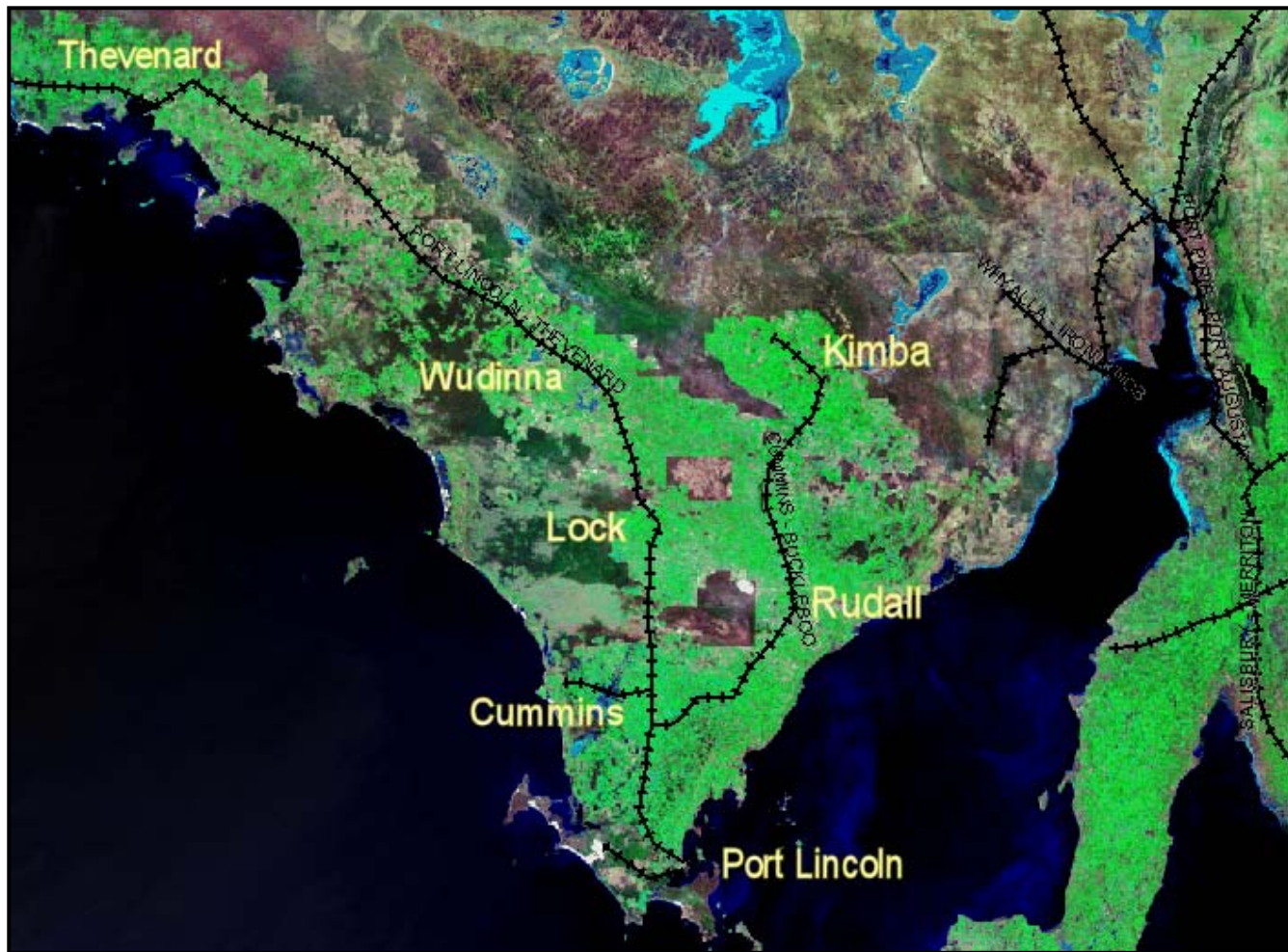


**Bakewell Underpass:
expected to be open
to traffic by end of
2007**





Eyre Peninsula Grain transport upgrade commenced



South East / Limestone Coast Freight Study

*A Plan for Freight Transport for the South East /
Limestone Coast Region of South Australia*



Prepared for the South East Freight Logistics Task Force
July 2006



Government of South Australia
Department for Transport,
Energy and Infrastructure



Invest in Transport Infrastructure

- **Public Transport**
 - **Mawson Lakes**
 - **Tram Upgrade**
 - **Marion Interchange**



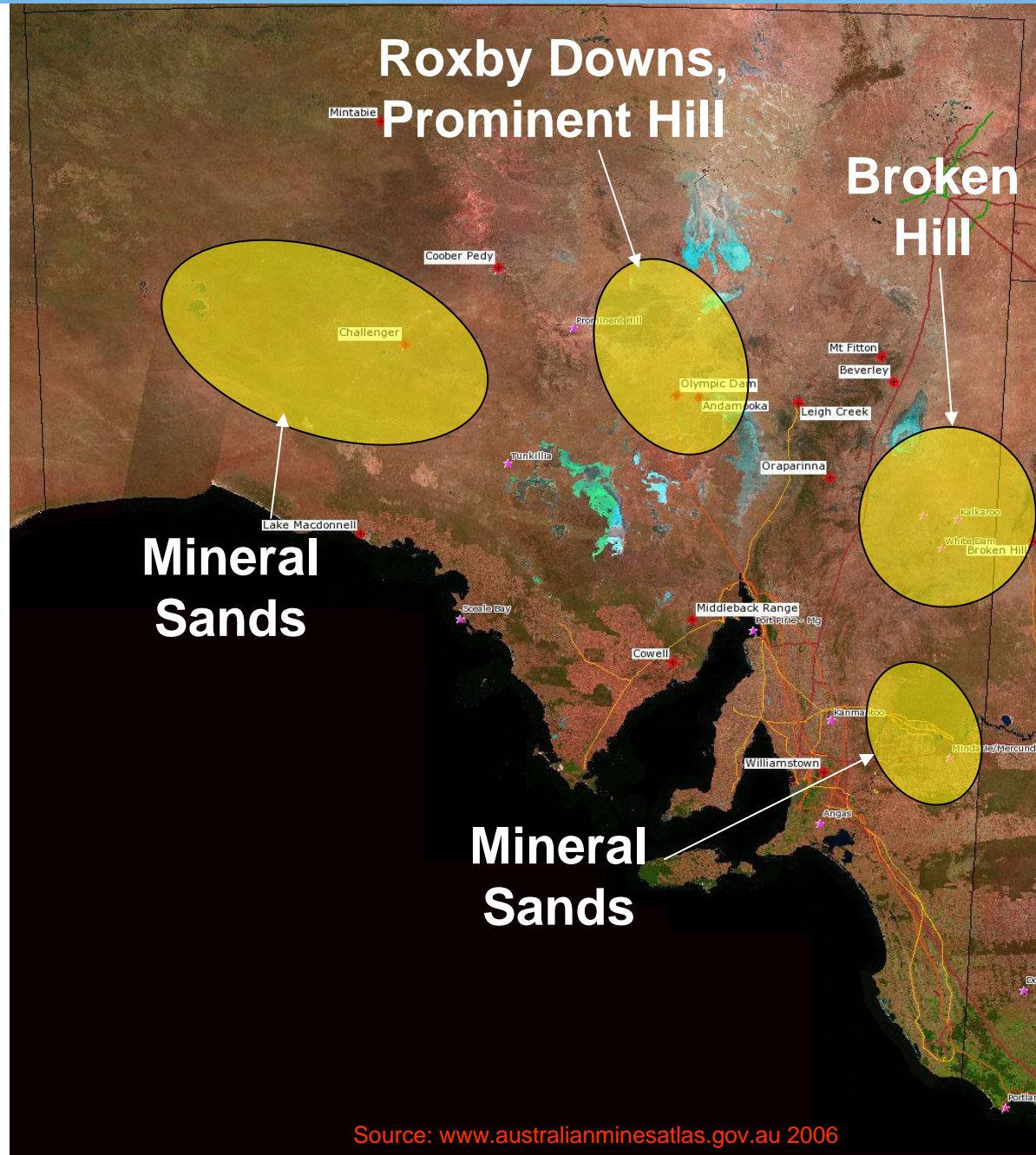
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Invest in Transport Infrastructure

Extend the
Glenelg to
Adelaide Tramline



Mining prospectivity



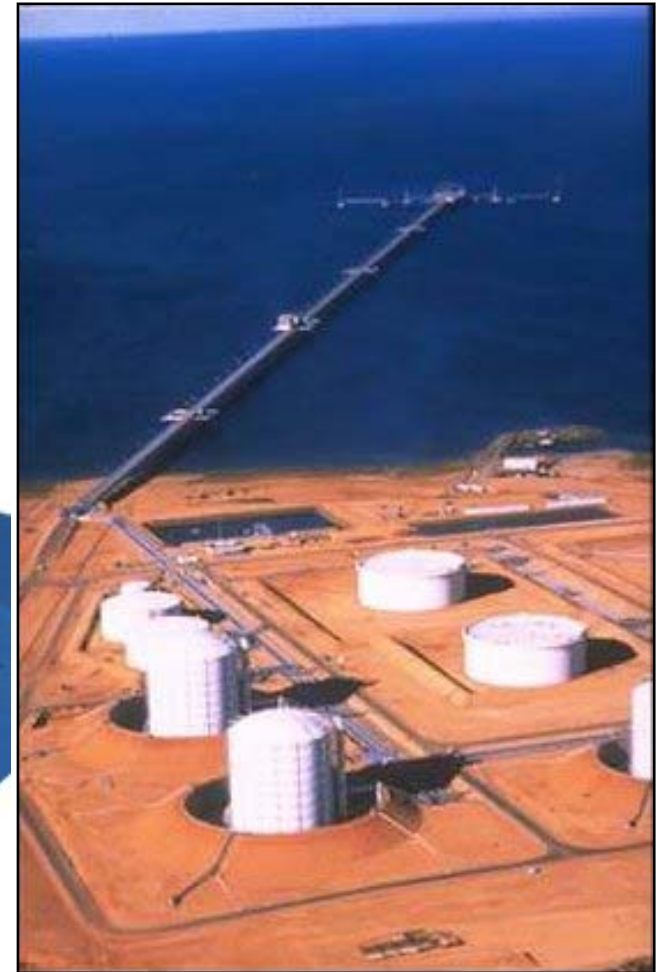
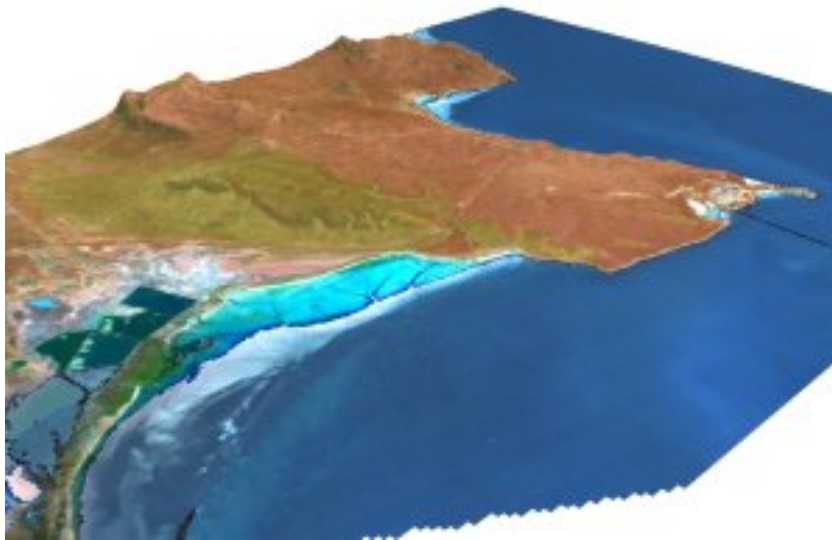
Major Mineral Resource Projects

DEPOSIT	OWNER	COMMODITY	LIKELY CAPEX (\$ MILLIONS)
Olympic Dam Expansion	BHPB	Cu / U / Au / Ag	5,000
Prominent Hill	Oxiana	Cu / Au	775
Project Magnet	OneSteel	Fe	355
Mindarie	Aust Zircon	HMS	80
Angas	Terramin	Zn	42
Honeymoon	sxrUranium1	U	40
Beverley Extension	Heathgate	U	S
White Dam	Exco	Au	S
Cairn Hill	Goldstream	Fe/Cu/Au	M
Kanmantoo	Hillgrove	Cu/Au	M
Jacinth / Ambrosia	Iluka	HMS	L
Beltana Zinc	Perilya	Zn	S
Portia	Havilah	Au	M

Mineral Resource Projects at Pre-development Stages


DEPOSIT	OWNER	COMMODITY	LIKELY CAPEX (\$ MILLIONS)
Kalkaroo	Havilah	Cu / Au	M
Mutooroo	Havilah	Cu / Co	S
4-Mile	Heathgate	U	M
Bird-in-Hand	Maximus	Au	S
Menninnie Dam	Terramin	Zn	M
Carrapateena	Teck Cominco	Cu / Au	L
Mt Gee	Marathon	U	S
Peculiar Knob	Western Plains Minerals	Fe	M
Arckaringa CSM	Altona Resources	CSM / Diesel	L
Wilgerup	Centrex	Fe	M
Crockers Well / Mt Victoria	PepinNini	U	S
Oban Uranium Project	Curnamona Energy Ltd	U	S
Kingston Coal	Kingston Energy Pty Ltd	Coal	L

Port Bonython Masterplan underway for protection of environment



Ensure our Energy, Water and Land supplies are sustainable

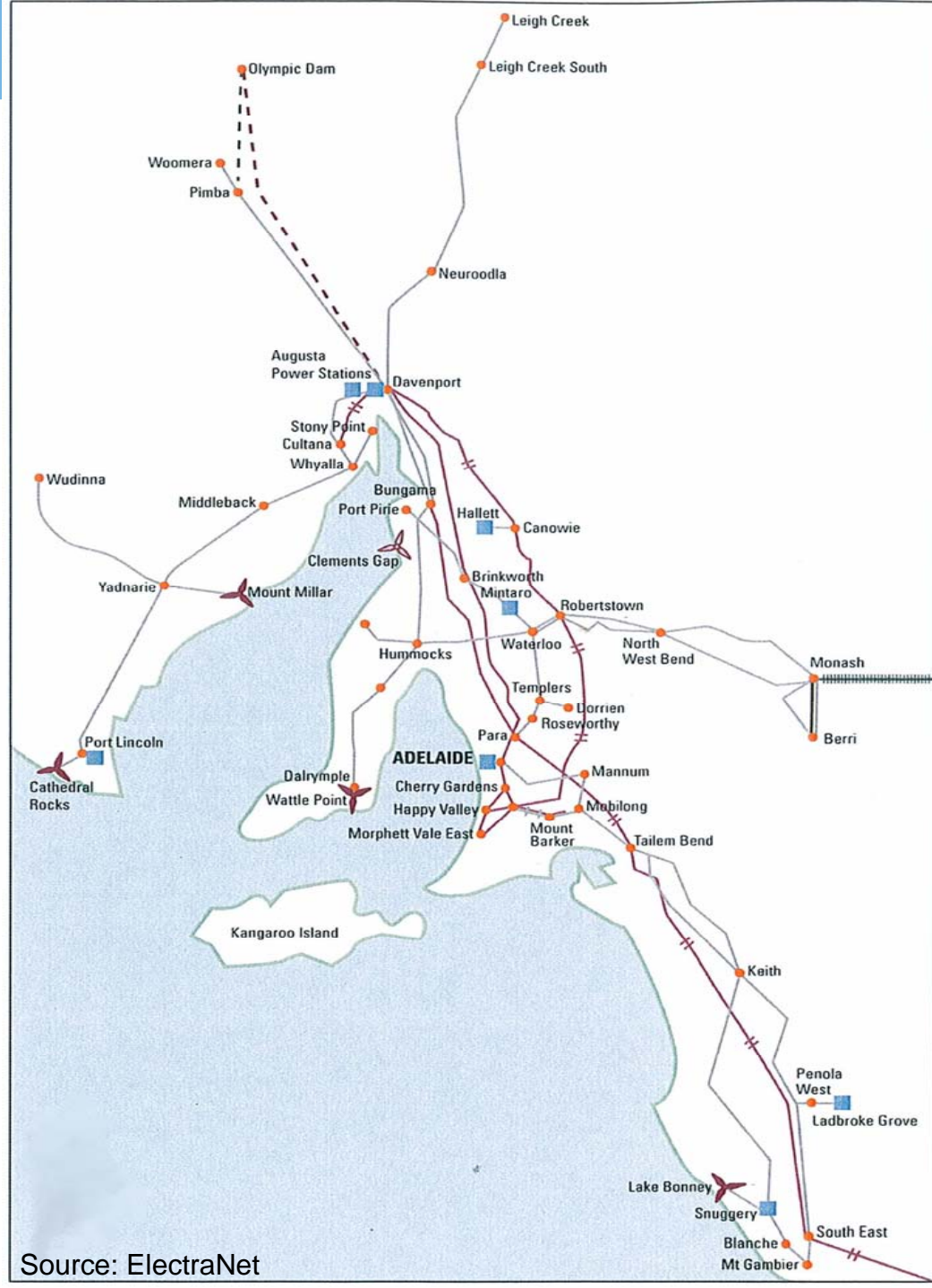
 **Wind Farms Proposed**
Clements Gap

 **Wind Farms**
Lake Bonney Cathedral Rocks
Wattle Point Mount Millar

 **Power Stations**

 **Substations**

 **Transmission Lines**



Source: ElectraNet

Ensure our Energy, Water and Land supplies are sustainable

Stage 2 of the Lake Bonney Wind Farm development underway



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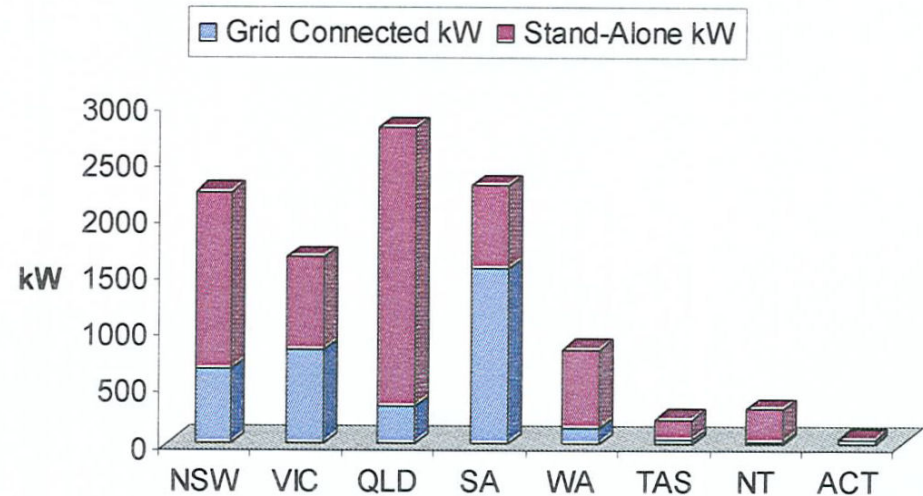
**Ensure our
Energy, Water
and Land
supplies are
sustainable**

**Renewable
Energy
capability:
national
comparisons**

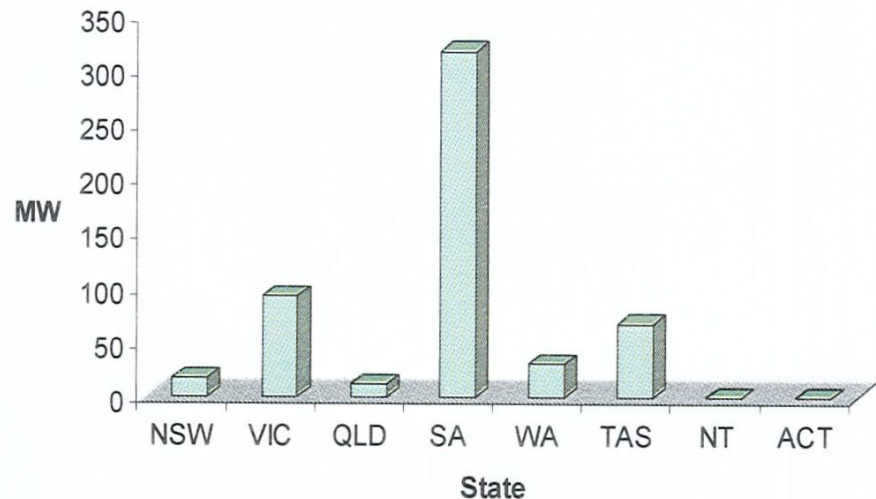


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Total Photovoltaic-installed systems to May 2005



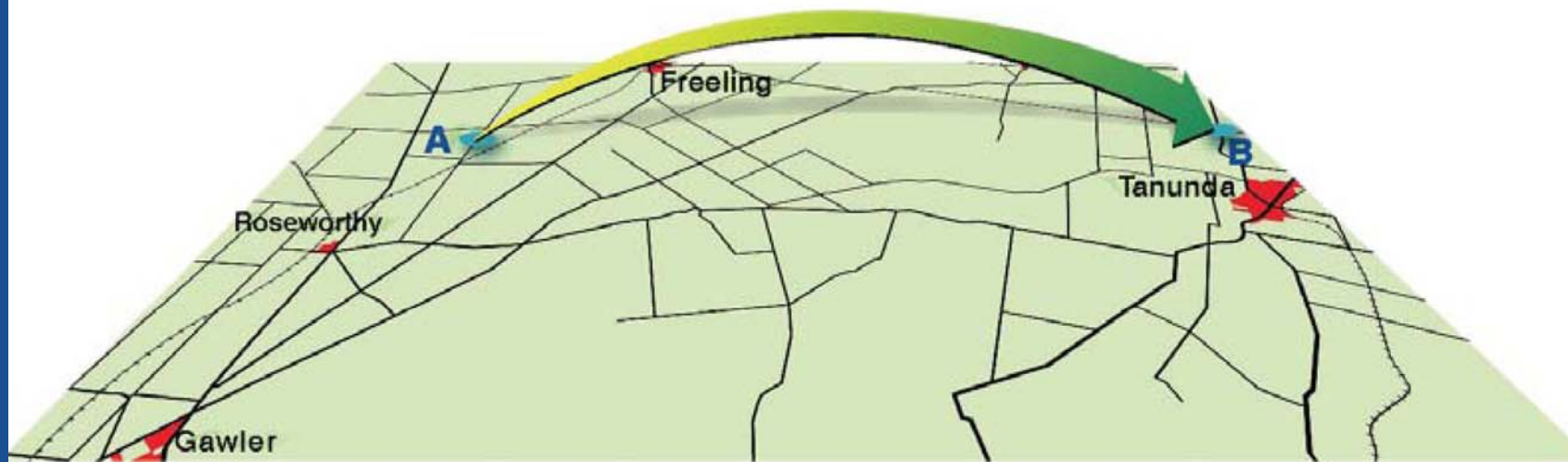
Installed Wind Capacity to June 2005



Ensure our Energy, Water and Land supplies are sustainable

New 132 kV line to the Barossa Valley – energised

Other line / substation upgrades proceeding



Indicative route of transmission line

Ensure our Energy, Water and Land supplies are sustainable

Murray-Darling Basin initiatives

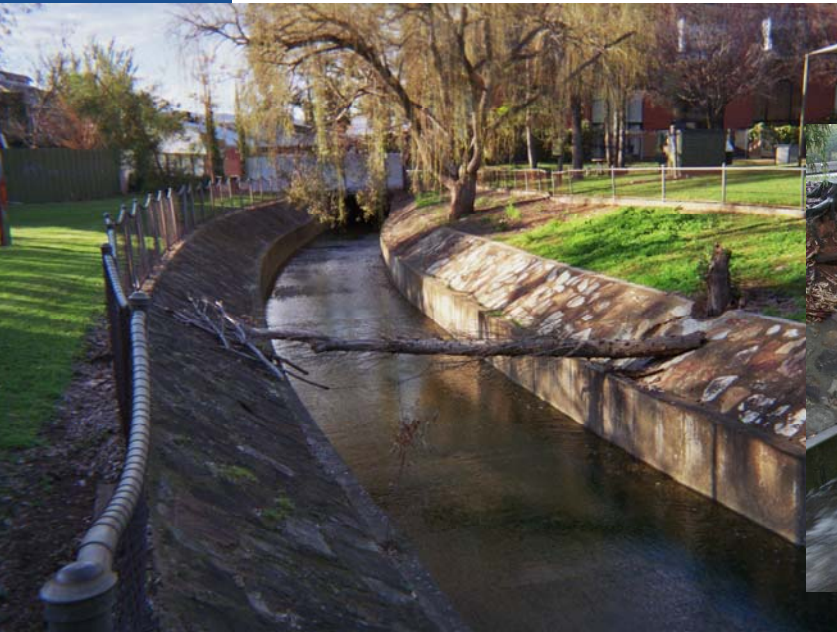
Additional salt interception schemes



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Ensure our Energy, Water and Land supplies are sustainable

Stormwater Management upgrades



Ensure our Energy, Water and Land supplies are sustainable

Desalination investigations



Thank you



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