



Transnet "Metropolitan Adelaide"





Transnet scheme "Metropolitan Adelaide — Kangaroo Island"

Australia Transnet Ltd offers highly efficient and hi-tech transport that connects Metropolitan Adelaide with a circular tourist route of Kangaroo Island.

Stage 1.

Construction of regional and local Transnet in Metropolitan Adelaide, from Town of Gawler in the north, through the Adelaide International Airport and to south of Selliks Beach. After that the trail is extended to Cape Jervis, from where ferries leave for Kangaroo Island.

Stage 2.

Construction of local Transnet on Kangaroo Island: from Penneshaw to Island Beach, then a closed loop trail around the island, passing through the Kingscote, Stokes Bay, Gosse, Karatta and back along the southern coast of the island.

Stage 3.

Construction of Transnet developing project 19 km across the Backstairs Passage: from Cape Jervis to Penneshaw.

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Main features of regional and local Transnet:

- speed of traffic in the city — up to 120 km per hour
- speed of movement between cities — up to 300 km per hour
- capacity of rolling stock (yunibus) — 20—100 passengers
- length of span — 30—50 meters
- height of the supports — 6—10 meters
- maximum slope — 15%
- cost of track structure (without the stations and rolling stock) — 1.5—2 million AUD per km

Local Transnet fits perfectly into the existing infrastructure of any city. Its stations can be combined with shopping centers, office space or residential buildings.



Local Transnet highway



Regional Transnet highway



Regional Transnet passenger station



Rolling stock for regional Transnet with capacity of 75 passengers

Stage 2.

Construction of local Transnet on Kangaroo Island: from Penneshaw to Island Beach, then a closed loop trail around the island, passing through the Kingscote, Stokes Bay, Gosse, Karatta and back along the southern coast of the island.





Local Transnet highway crossing the gulf

Stage 3.

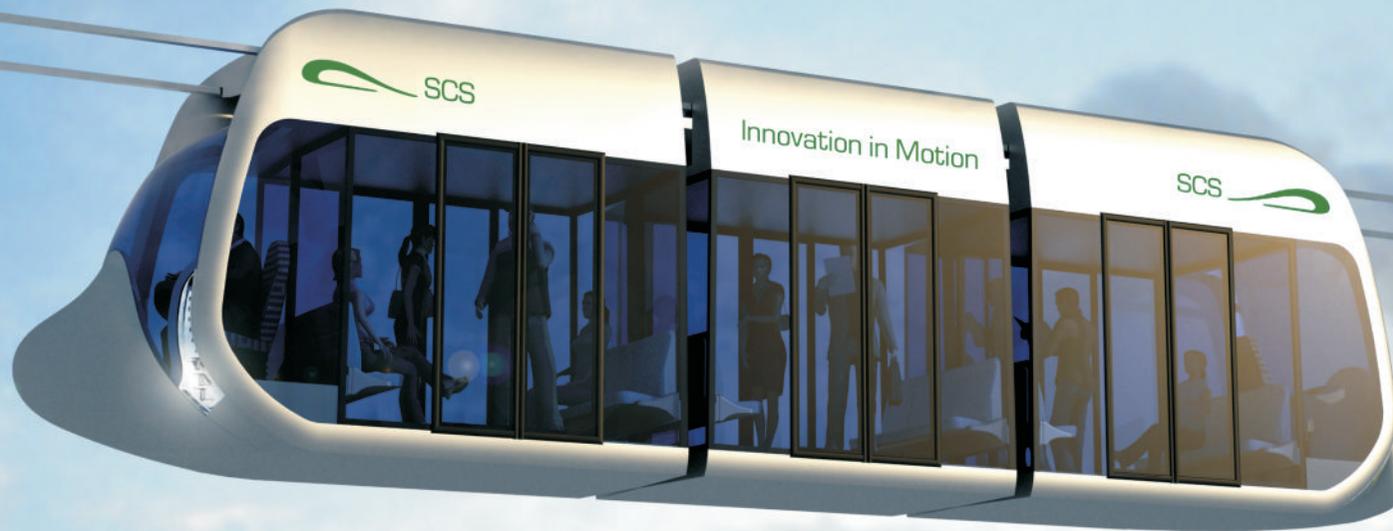
Construction of Transnet developing project 19 km across the Backstairs Passage: from Cape Jervis to Penneshaw.

Transnet trail is combined with multi-functional complexes "Island", which are located several kilometers away from each other.

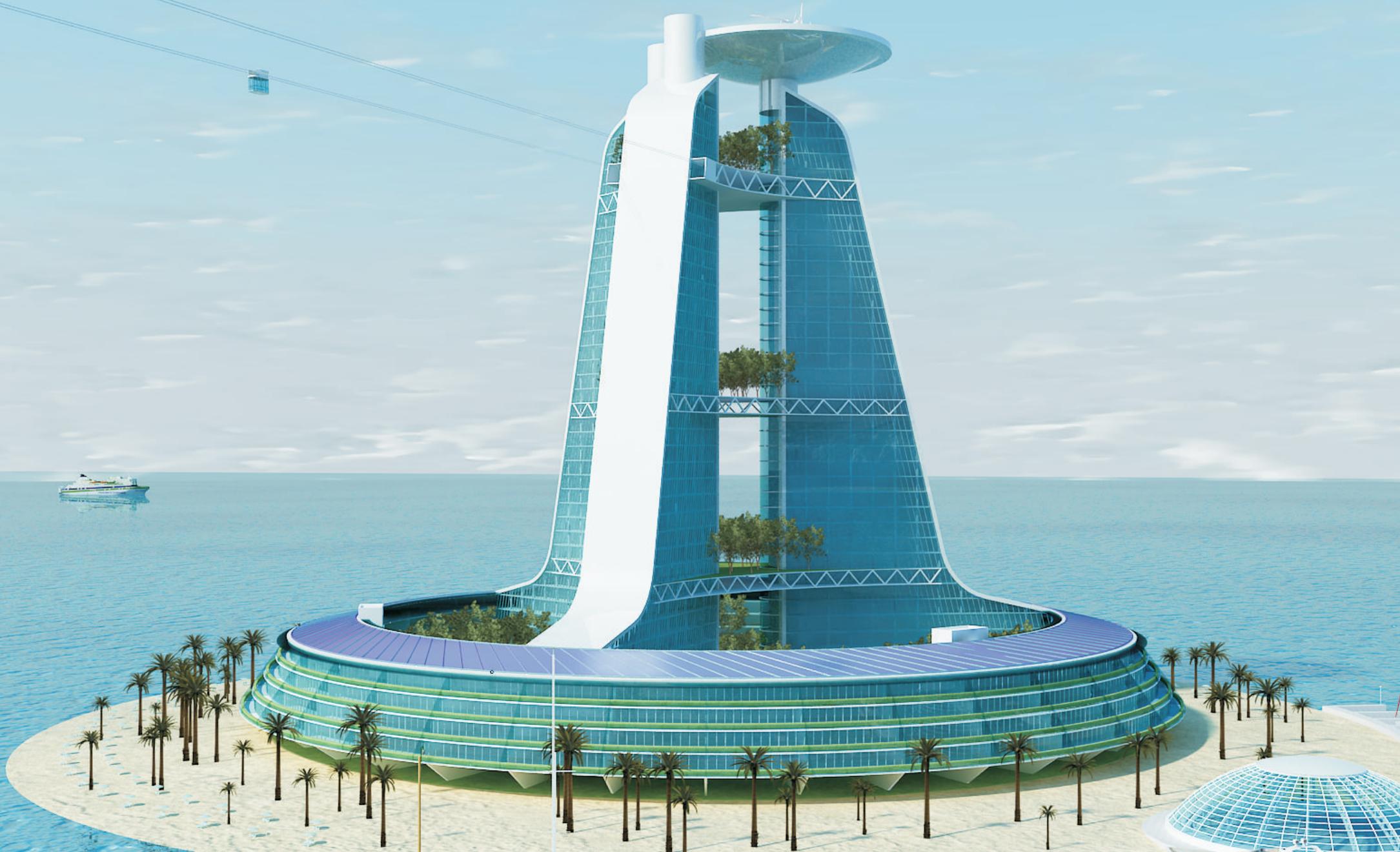
Multifunctional high-rise complex "Island" is three-beam high-rise building (height 178 m), surrounded by low-rise housing with diameter of 240 m. Complex is located on an island with diameter of 350 m and has yacht club, marina, beaches, swimming pools, helipad, and high-altitude Transnet station.

Island square — 97 hectares, building area — 40,000 square meters. Total square of buildings — 158,000 sq. m, including ground — 135,000 sq. m. and underground — 23 000 sq. m. The estimated construction cost — 250—300 million AUD.

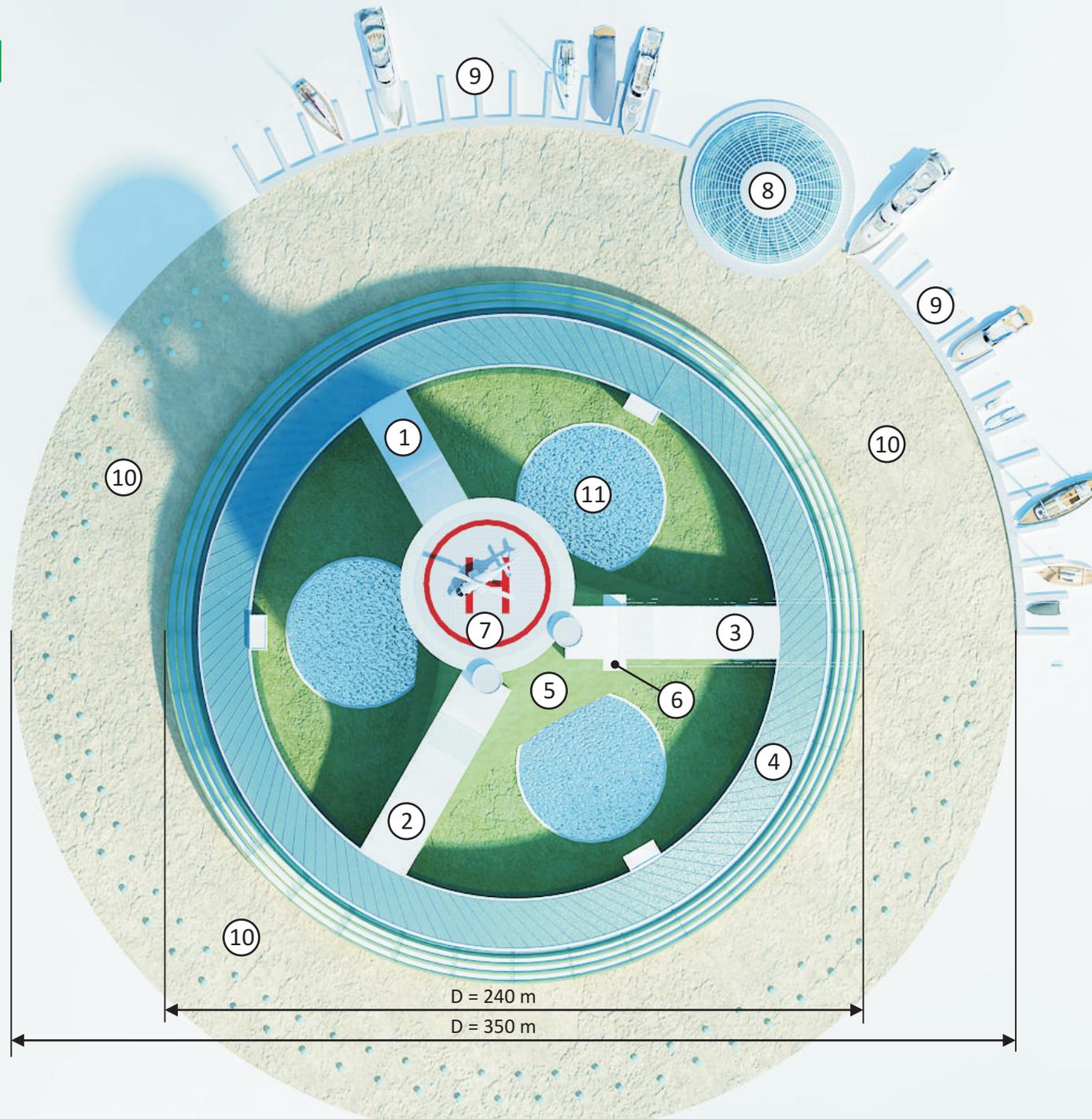
In multifunctional high-rise complex "Island" a maritime hotel on 5—10 thousand people can be placed (in pure water, half of which will always be protected from the waves, regardless of wind direction), sports and entertainment and business center.



Rolling stock for development Transnet with capacity of 75 passengers



General view of multi-residential living complex "Island"



Explication:

- 1 — high-rise building No. 1
- 2 — high-rise building No. 2
- 3 — high-rise building No. 3
- 4 — low-rise building No. 4
- 5 — operational roof of a technical storey
- 6 — TSY station
- 7 — helipad
- 8 — yacht-club
- 9 — mooring
- 10 — beach
- 11 — swimming-pool

Technical and economic indices:

Area of the site — 9 ha

Built-up area — 40,000 m²

Ground area — 135,000 m²

- building 1 — 26,000 m²
- building 2 — 26,000 m²
- building 3 — 26,000 m²
- building 4 — 56,000 m²
- winter gardens — 1,000 m²

Underground area — 23,000 m²

Total area — 158,000 m²

Diameter in plan — 240 m

Maximal mark — 178 m

Cost of construction* — AUD 250 million

Cost of design* — AUD 10 million

* It is approximate cost. The estimations were made on the basis of a simplified scheme not including the cost of the off-site works, the cost of land and activities associated with design and construction of a string transport system. The cost of TSY will amount to 5–7% of the total cost of the complex.

Aerial view of multi-residential living complex "Island"