

Cost-efficient planning for port expansion in Australia

Using an integrated approach to reduce dredging costs and improve operational management

Photo © Port of Brisbane



Reduction of dredging costs

in excess of 50% compared to conventional methods



Improved risk-management

of operational safety through navigational channels and at berth



Decision support tool

for cost-efficient planning of future activities

Challenge

Port of Brisbane Pty Ltd (PBPL), Australia, was considering options to expand capacity to provide access to larger, deeper drafted vessels.

Initial estimates of capital dredging costs were very high.

In addition, it was a concern that larger passing vessels would result in excessive moored vessel motion at key berths.

Solution

Implementation of DHI's Port Expansion Solution .

Solution highlights

- Integrated numerical modelling approach
- Detailed hydrodynamic and wave modelling
- Cutting-edge channel capacity and under keel clearance assessment
- Time-domain moored vessel analysis



'NCOS has been a game-changer for the Port of Brisbane. By boosting the Port's capacity to handle larger vessels without compromising safety, we have added value to our customers and maximized efficiency for all Port users.'

Roy Cummins,
CEO, Port of Brisbane



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