Australian Coastal Shipping

Stuart Ballantyne
CEO
SEA TRANSPORT CORPORATION

ICHCA Adelaide May 2015



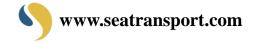




Shipping is international, competitive, unpredictable, risky, multi-facetted and fast.

The industry leaves its members little time for contemplation, and little margin for error, and has no sympathy for failure, no tolerance for the undecided, the stupid, or the weak

Stuart Ballantyne 1990





Present status- Coastal Shipping

- Carrying only 4.8% of the nation's cargo (globally it is 95%)
- Too many Regulators for too few ships
- Anti –shipping legislation, particularly fiscal policy
- Fear of unions with poor attitudes by all stakeholders
- Investors regard the Australian industry as "high risk"
- There is little or no port infrastructure suitable for modern roro tonnage, small bulkers or pallet carriers
- Lack of Government interest (av budget 60% roads, 30% rail and 10% ports)
- Lack of skilled people for ships, ashore or regulators



SAFETY-Sea Transport is Safer

- 1,193 deaths on the road p.a. (2013) against 34 at sea (mainly recreational craft and fisherman)
- Most road deaths involve trucks
- 18,000 Serious road injuries p.a. (higher cost to the community than deaths) Road Toll cost for Qld alone is \$3.5bn
- Sea Safety costs \$0.4bn p.a.
- An efficient coastal roro system, even with a subsidy, will surely reduce this appalling road toll
- The Media continues to beat the Marine industry up as our accidents are "more interesting"



ROAD MAINTENANCE Sea Transport is Cheaper

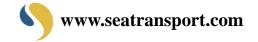


Road maintenance, predominantly for the perimeter highway in Australia amounts to \$8 billion per annum

It is agreed that most road damage is done by trucks, all states are behind in their road maintenance program.

An efficient coastal roro system, even with a subsidy, will surely reduce this road maintenance bill

The sea doesn't require any maintenance!!



Are Shipping Costs Competitive?

- 20 ft container one way Brisbane Cairns
 - -\$6000 by road Express 23 hours (source RTA)
 - -\$1000 by rail 96 hours (source Qld Rail)
 - -\$1900 by 40 kt ship 21 hours
 - -\$1200 by 28 kt ship 30 hours
 - -\$600 by 18 kt ship 48 hours (this is similar to sea freight rates Fremantle-Sydney) includes \$300 lift charge costs)**
- ** assuming an efficient operator with a fleet and good frequency

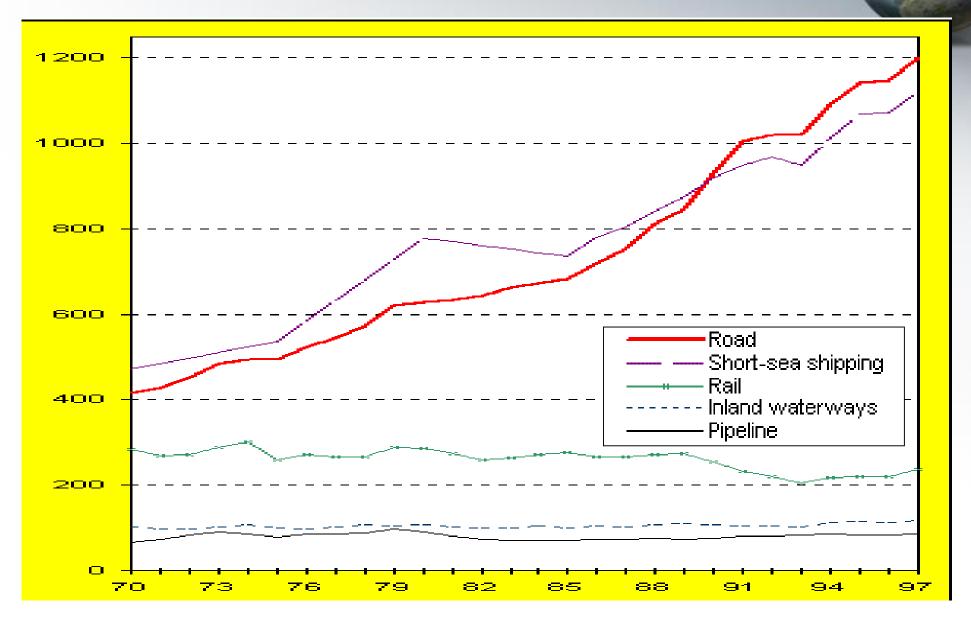
Can Shipping compete with the Road?

- "We can transport a container from Italy to Spain at the same cost of a truck's fuel and toll charges"......
-"Each terminal handling fee is 15 euros (A\$26) for a trailer, or 50 euros (A\$85) for a prime mover and 12m trailer"

Dr Paul Kyprianou Grimaldi Lines, Italy Roro Conference Belgium May 2009

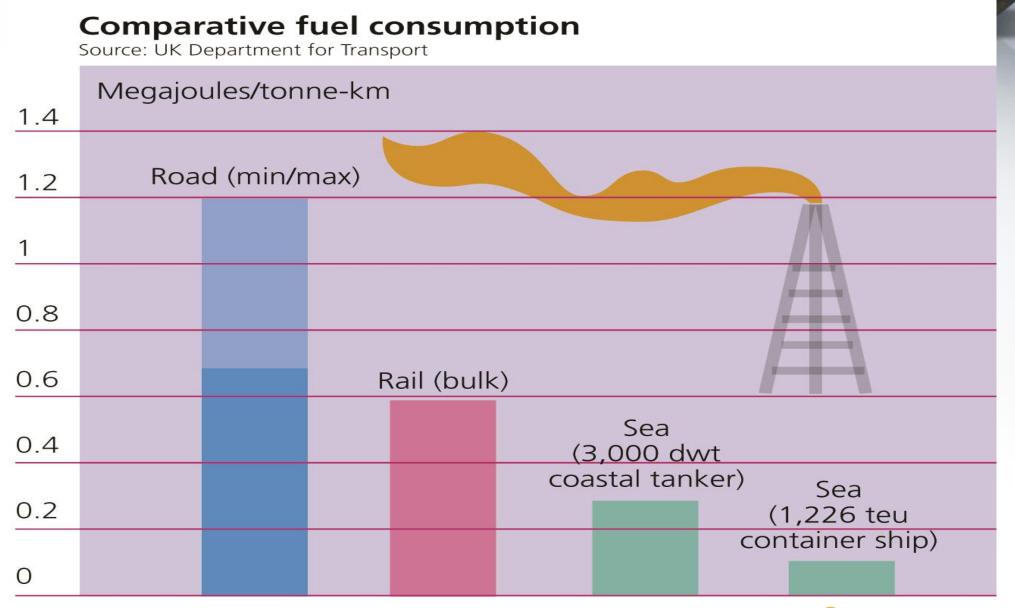


Should Australia invest in Rail?? Let's look at Europe



Note - Rail cannot increase freight volume, so why pour more money into it??

Shipping's spectacular environmental performance





Infrastructures -The Good (European standard)



Infrastructures -The Bad and Ugly (third world standard)

Toondah Harbour – Brisbane, Queensland, 2013, no progress for over 20 years because of environmental constraints. A National disgrace for a harbour that carries 200,000 vehicles & 900,000 passenger (many tourists) p.a.

There are NO RORO facilities in any State except Vic and Tas suitable for modern roro and ropax vessels









INFRASTRUCTURE SOLUTIONS - STL FLOATING HARBOUR TRANSHIPPER (FHT)



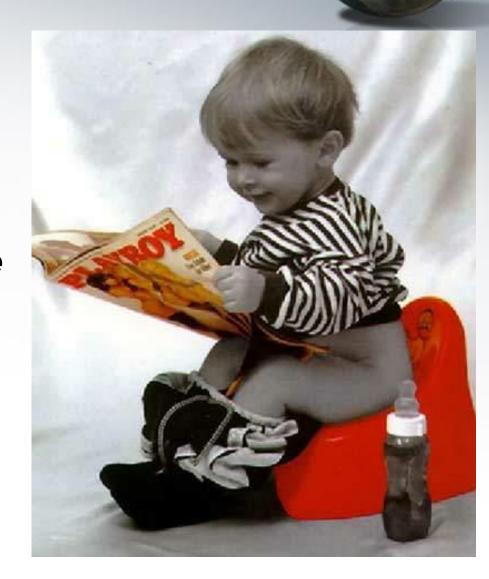
Standard alongside feeder position can lose up to 90 days p.a. Plus stevedoring damage (up to \$400k p.a. each feeder)



Hindrances to Coastal Shipping - Policy makers with little knowledge

"It was evident from the beginning that one of the major problems is how little knowledge policy makers have about freight transport"

Tony Slatyer, Director BTRE ATRE Forum Oct 2002





Hindrances to Coastal Shipping— Environmental over-regulation Quotes from Ports Conference Bris Nov 2005

 "The Tragedy of (EPA) regulations is preventing port expansion, export and job opportunities"

Warren Truss, Federal Transport Minister

 "The torturous path of EPA regulation is a hindrance to our port and cost competitiveness"

Vincent Tremaine CEO Flinders Ports

- "There is no pleasing them"
 Paul Clauson, (ex Qld Attorney General)
- Anti- shipping infrastructure obstruction by fringe groups funded by U.S. Rockefeller and Pew Foundation

Des Houghton Editor Courier Mail March 2015 "Who is pulling the strings?"

This was reflected by every Port CEO from all States, evidenced today by ships at anchorages www.seatranspor

COASTAL SHIPPING - Fear of Unions



 There is still a fear of unions by the finance institutions, owners and operators.

Project Group should address:-

- Recognise that all unions are not the same: each is a product of the mindset of the employees it represents
- Required; people with a work-ethic: aspire, accountable, contribute

Possible Solution!

- To compile the entire crew with a single union officers & officer-trainees
- This all-officer crew would need to move totally away from the low low-skill, low-productivity mindset. Potential to re-shape industrial landscape.
- No closed shop



Fiscal policy - MILITARY & EMERGENCY RESPONSE

- Re-allocation of funding for many expensive non-redeployable military vessels. Focus on:-
- Investment allowances for owners of new tonnage who will incorporate military requirements on to commercial ships (helipads/rescue equipment / medical centres)
- Strengthens the Nations Defence and emergency response capability at a much lower capital cost

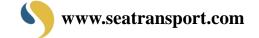






FISCAL POLICY - COASTAL SHIPPING

- Focus on :-
- Investment allowances for shore infrastructures and new ships
- 2nd Registry tax incentives
- Total Fuel tax exemption for coastal shipping
- Truck subsidies for using the sea instead of road –Oz Mos



The key issue of Environment.



- Sea transport has no noise pollution or congestion problems
- Sea transport has only 2-10% emissions per tonne/mile of cargo compared to road transport
- Greater environmental achievements can be made by Australia if we adopt a Sea Transport mentality
- Sea Transport unlike road &rail, does not require land resumption
- Due to the huge contributions to the environment available from Coastal Shipping, it should be supported by all environmental groups, if they are indeed serious about the environment



ENVIRONMENTAL ISSUES

there has to be a status elevation for this industry.



Focus on:-

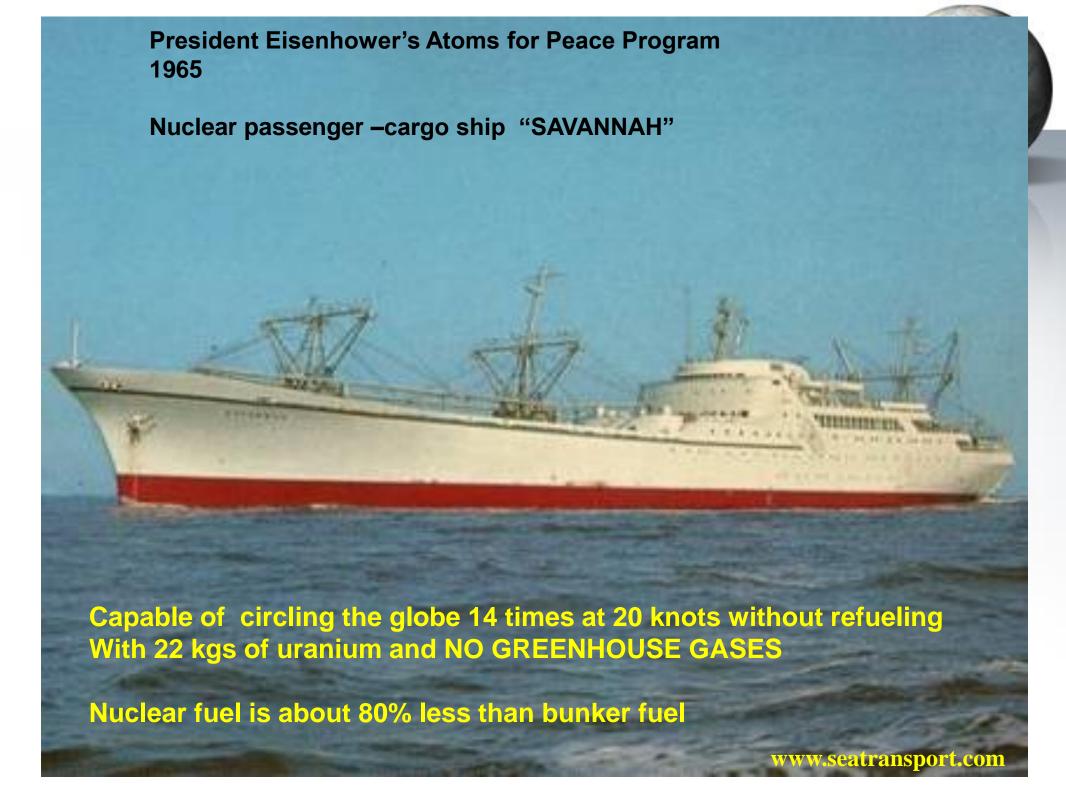
Elimination of the torturous and expensive regulatory procedures for:-

- Dredging
- Berth expansion
- Berth installation

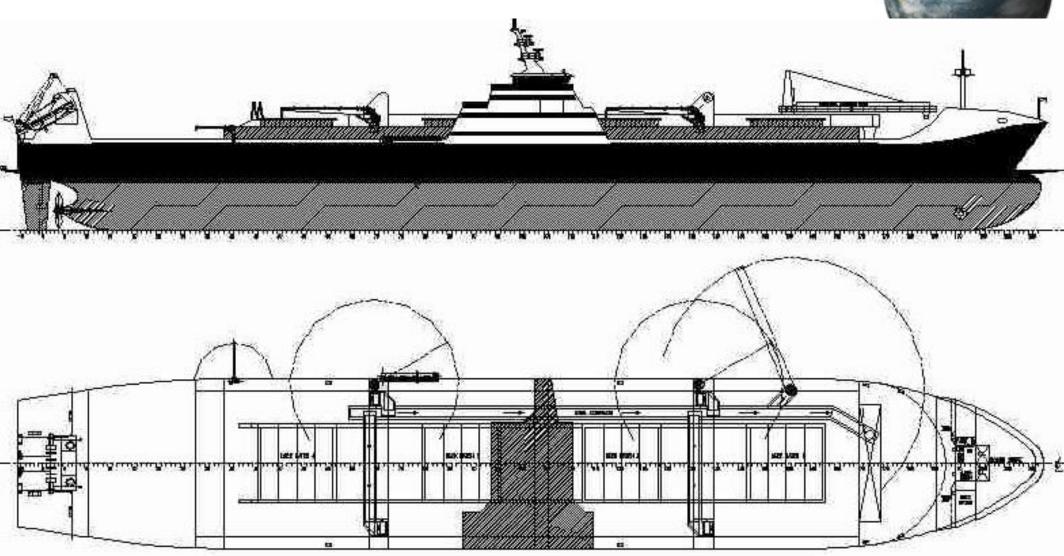
 and if we are really serious about reducing or eliminating green house gases....we must look to:-

Use of LNG - from our vast gas reserves
Use of Methanol – from our vast coal reserves
Use of Nuclear power – from our vast uranium reserves





Alternative Energy- Fuel cell / nuclear?



www.seatransport.com

Australian Crew cost \$7.5m p.a. Nuclear Fuel cost ~\$1m p.a. Total \$8.5m Foreign Crew cost \$4m p.a. Conventional Fuel \$5m p.a. Total \$9m Reducing pollution and freight costs while employing locals are compelling reasons to at least discuss such a strategy

Energy - Nuclear

"LIKE IT OR HATE IT, NUCLEAR IS CLEANER"

R Bromby The Australian 9th June 2007

"Australia has the highest reserves of uranium and Thorium and we should develop the technology instead of exporting materials"

Bob Hawke PM 1993

Developing nuclear technology within Australia is better done with a ship as it is the only transport mode that is secure from public access, due to ISPS



Cosco Shipping – Worlds Largest Shipping Conglomerate Owner of 800 ships

CEO Captain Wei Jiafu "We are investigating the use of Nuclear Powered Container ships, if submarines can have nuclear Power, Container ships should have the same"

Senior Maritime Forum 3rd December 2009



ACTION PLAN!!

"OZ-MoS"

Australian Motorways of the Sea



Objectives of Oz-MoS Project (Australian Motorways of the Sea)

- Based on the highly successful Europe "MoS"
- Secure massive modal shift of road freight to sea
- Reduce road transport externalities:
 - Deaths and serious accidents
 - Congestion
 - Pollution
 - Road damage
- Reintroduce large-scale coastal shipping system
- Significantly expand national stock of trained seafarers and training programs

MoS services operating throughout Europe have shifted millions of truck movements off







Key MoS infrastructure

The ship – which is "infrastructure mobile", essentially an extension of the national highway



Key MoS infrastructure

The Terminal – sea/land interface – a parking lot



Motorways of the Sea (MoS) Basics



- Daily frequency to attract "Just in Time" warehousing
- Timed for industry (e.g. 1800 sailings / 0700 arrivals)
- Day A departure e.g.Melbourne/ Day C arrival e.g Sydney (urgent cargo still moves by road)
- RoRo ship offers total carrying flexibility:
 - Semi Trailers and Containers
 - Autos
 - Outsize and heavy lift cargo
- Large capacity ships 4,000 lane metres (250+ large semi trailers)
- Superior economies of scale relative to road and rail
- Medium speed ships = low fuel cost/low emissions

Schedule Option Example: Melbourne-Sydney MoS



- Daily service each way = 4 ships
- Annual capacity 182,500 trailers
- Seafarers required 180-200

Other Oz-MoS services



- Brisbane-Sydney (daily service / 4 ships)
- Melbourne-Adelaide (daily service / 4 ships)

Or, each ship does a complete multiport roundtrip:

- Brisbane-Sydney-Melbourne-Adelaide-Melbourne-Sydney-Brisbane (12 ships)
- 12/ship 3-corridor capacity = 547,500 trailers/year
- 12 ships requires 500-600 seafarers
- Plus port employment additional to this
- MoS extensions to West Australia and Northern regions

Market research required

- Traffic volume assessment for Oz-MoS routes
- Customer logistics requirements
- Port/terminal locations and infrastructure analysis
- MoS service cash flow projections estimate the subsidy level required –THE KEY QUESTION can the Oz MoS project be subsidised by savings in road accidents, road maintenance pollution, and savings to Navy fleet capability capex? (the answer of course is YES, but Treasury needs the details)
- Outline MoS tender process to procure MoS

Implementation of MoS



- Joint state and federal management including the investment in RORO terminal infrastructure approvals and funding
- Instigate international tender to market Oz-MoS opportunity
- Offer 6-8 year MoS contract plus options
- Select MoS supplier
- MoS supplier procures ships and employs seafarers
- Investment in Seafarer training
- Allocate MoS operating subsidy
- OZ MoS service commences!

Local Shipping Solutions – Self Dischargers



Innovative Australian
Designs which can load
and discharge at
2000 tonnes per hour

Minimal port facilities

Shallow draft and no dredging required!!

"Wunma" carrying 5300 tonnes of lead zinc on 3.9m draft, Exporting 1 million tonnes p.a. and unsinkable in cyclones



Local Shipping Solutions

(Remote area of Scotland)



One man and his Lieberr 934 loaded this 1200 tonnes of logs (80 truck loads!) in 8 hours

He also was:The linesman
The agent
The wharf cleaner
(the 5 crew members are
in the contract team)

This strategy should be replicated throughout Australia















The container, roro or bulk cargo can be handled easily in this mooring arrangement during normal tidal flows

The SLV's low hinge point ensures a minimum access angle and full width between ramp horns facilitates rapid cargo operations.





Coastal Shipping

"There is no industrial issue with more profound implications for Australia's role as a trading nation"

Christopher Pearson The Australian May 26th 2007

