

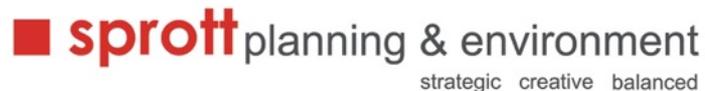
Port Planning & Sustainability: Integrating Environmental and Societal Values into Policy Development

Global Ports Forum
Singapore, September 2016

Jason Sprott

My Background

- 22+ years planning & development industry experience in Australia including:
 - 15 years+ in the port sector:
 - 10 years with the Port of Brisbane - Strategy & Planning
 - 5 years running own private practice
- Awarded *Sir Winston Churchill Fellowship* by the National Board of the Sir Winston Churchill Memorial Trust allowing research at the global port cities of Singapore, Shanghai, Rotterdam, London, New York, Seattle, Vancouver and Los Angeles



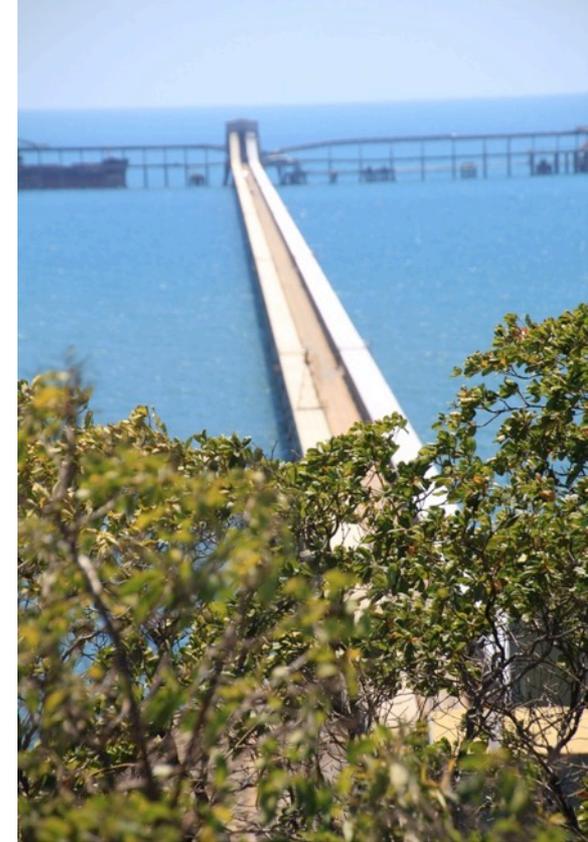
- Land Use, Master, Precinct, Spatial Planning
- State / Commonwealth Project Approvals
- Sustainability Plans & Sustainable Development Codes/Guidelines
- Advocacy Work for National Association 'Ports Australia'
- Authored key industry publications on Port Master Planning & Port/Supply Chain Protection

Today

Facts, Figures & Observations

Critical Elements & Behaviours

The Future

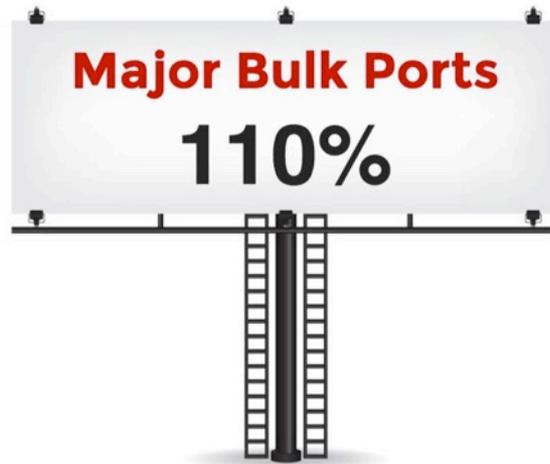


Facts, Figures & Observations - Australia



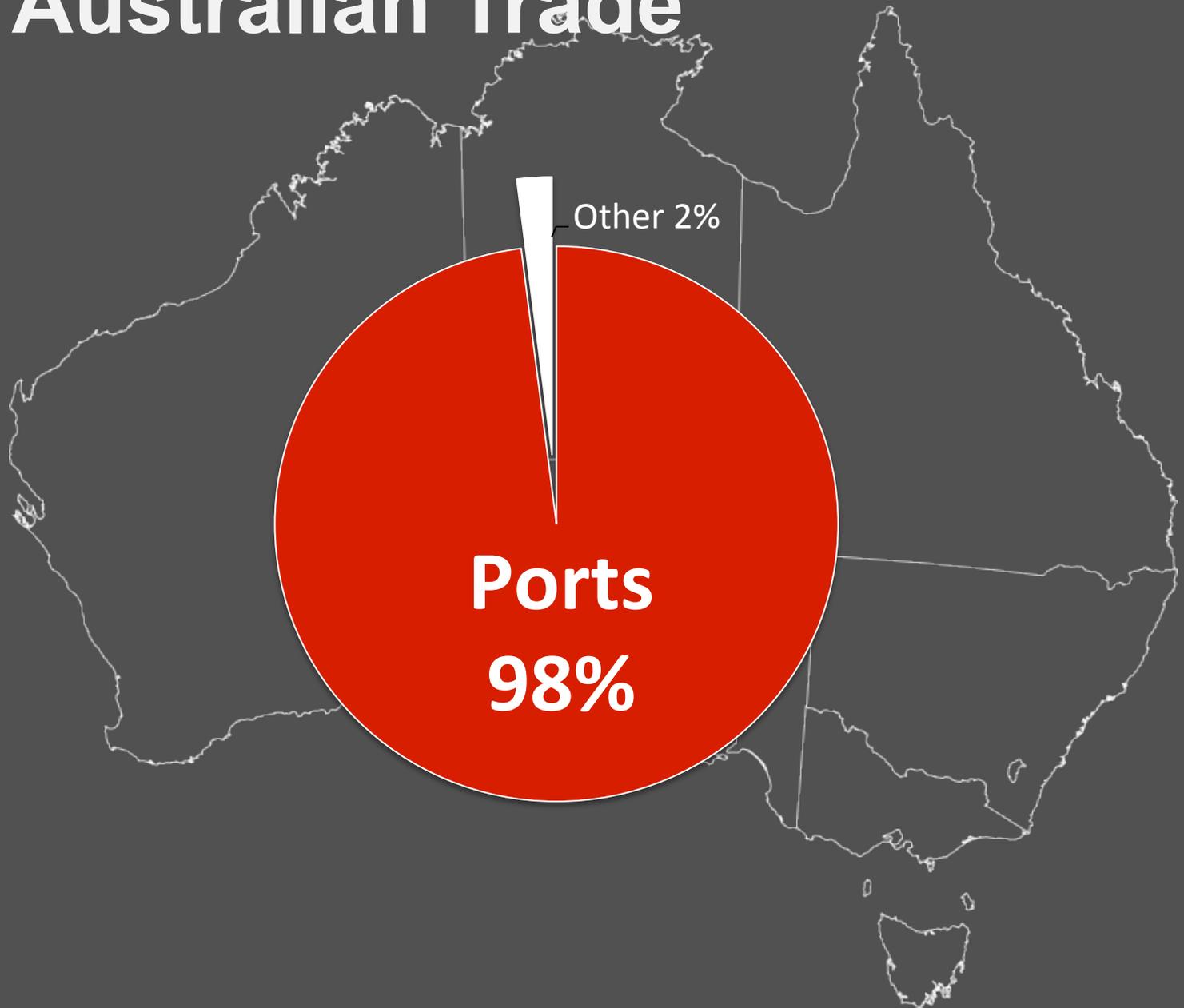
Trade Growth
2003-2013

83%



Trade Growth 2003-2013

Total Australian Trade



Observations

Political Uncertainty over last 5-6 years – Commonwealth & State Governments – ‘changing politics’

Extremely active ‘interest groups’ lobbying against port developments

Various state reviews of port legislative frameworks

Disposal of capital dredge material **banned** in Great Barrier Reef World Heritage Area despite compliance with London Protocols and rigorous scientific examination of impacts





Australian Government

Great Barrier Reef
Marine Park Authority

Great Barrier Reef Marine Park



AREA

344,400 km²

LENGTH

2300 km long

70 million
football fields

Roughly the
same area as...



ITALY



JAPAN



GERMANY



MALAYSIA

3000



coral reefs

600



continental islands

1625



types of fish

133

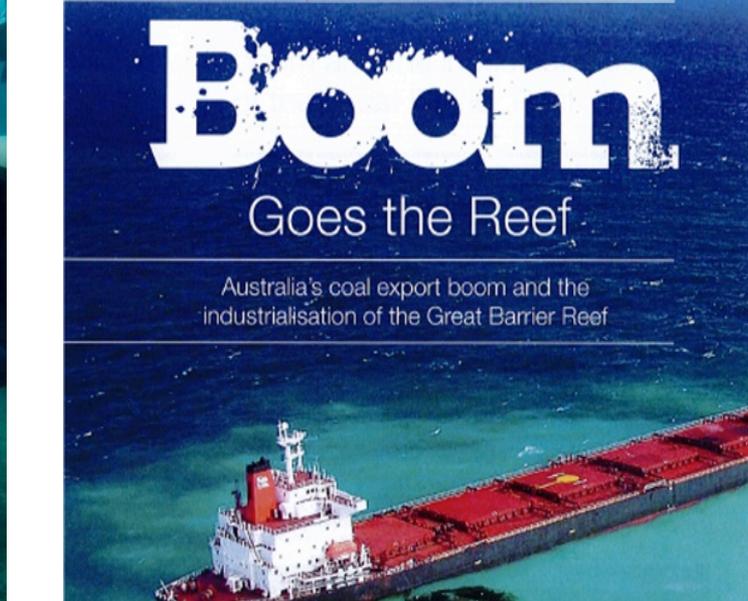


varieties of
sharks and rays

600



types of soft
and hard corals



Boom

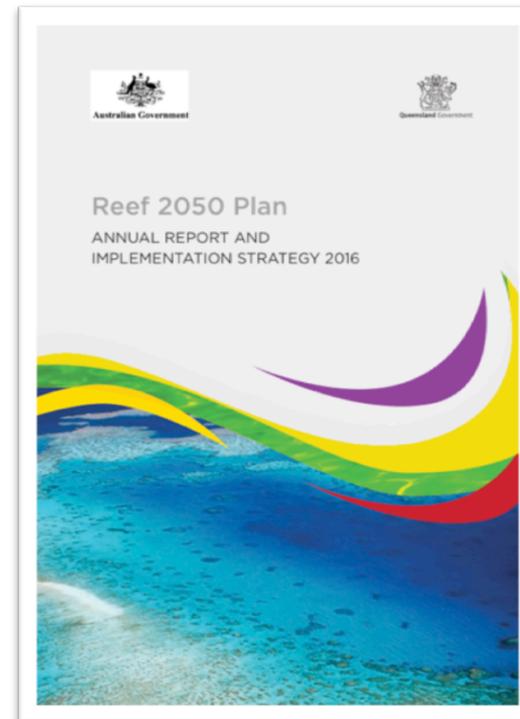
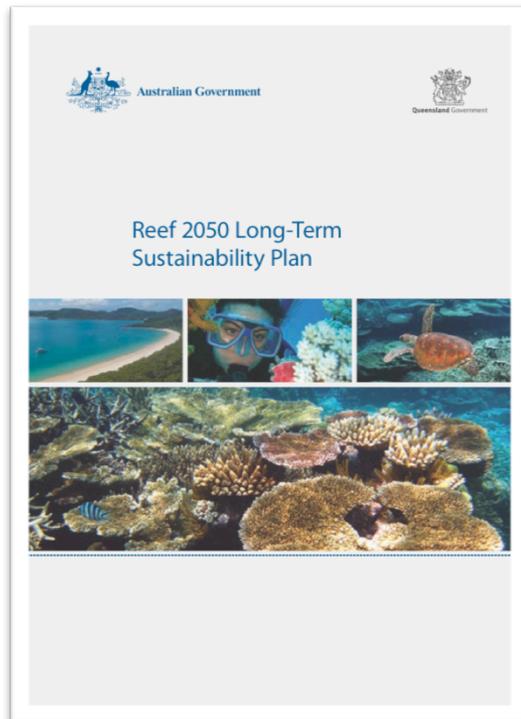
Goes the Reef

Australia's coal export boom and the industrialisation of the Great Barrier Reef



Government Response

Resulting from 5 years of intensive UNESCO investigations – threatening to place Great Barrier Reef on World Heritage ‘In-Danger’ list



Critical Elements & Behaviours

Ensuring Good Port Planning Outcomes

Key ELEMENTS

- Use a 'Whole of Supply Chain' approach
- Understand **Economic Catchments/Hinterlands**
- Underlying focus on **Efficiencies & Rationalisation Opportunities**
- **Early** Consideration of Environmental Values
- Ensure **flexibility** / options
- Ensuring **Protection** of Key Infrastructure (Landside & Marine)
- Deeper **Engagement** & Continuous Communication
- **Streamlined** Regulatory Processes 'One Process'
- A Focus on **Societal & Indigenous** Outcomes
- **Open & Transparent Reporting**

Key BEHAVIOURS

- 'Authentic & Responsible' Leadership
- Spatial Strategy → Corporate Strategy
- Develop a culture of 'Ongoing Learning'
- Ensure **Organisational Diversity** (Gender, Age, Skills, Ethnicity, Experience)

Put simply.....



Put simply.....

Excellent Port Planning
Outcomes

outcomes

ELEMENTS

BEHAVIOURS

building blocks

Enabling a 'Licence to Grow'



Ports Australia



**Leading Practice:
Port Master Planning
Approaches and
Future Opportunities**
August 2013



Ports Australia

In partnership with
PORTS WA



FREIGHT AND LOGISTICS COUNCIL OF WESTERN AUSTRALIA



**Leading Practice:
Port & Supply Chain Protection
Current Practice & Future Opportunities**
April 2014

Australian Port Planning Hierarchy – the theory

National Port Strategy

```
graph TD; A[National Port Strategy] --> B[State Port Strategies]; B --> C[Individual Port Master Plans & Precinct Plans];
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State Port Strategies

Individual Port Master Plans
& Precinct Plans

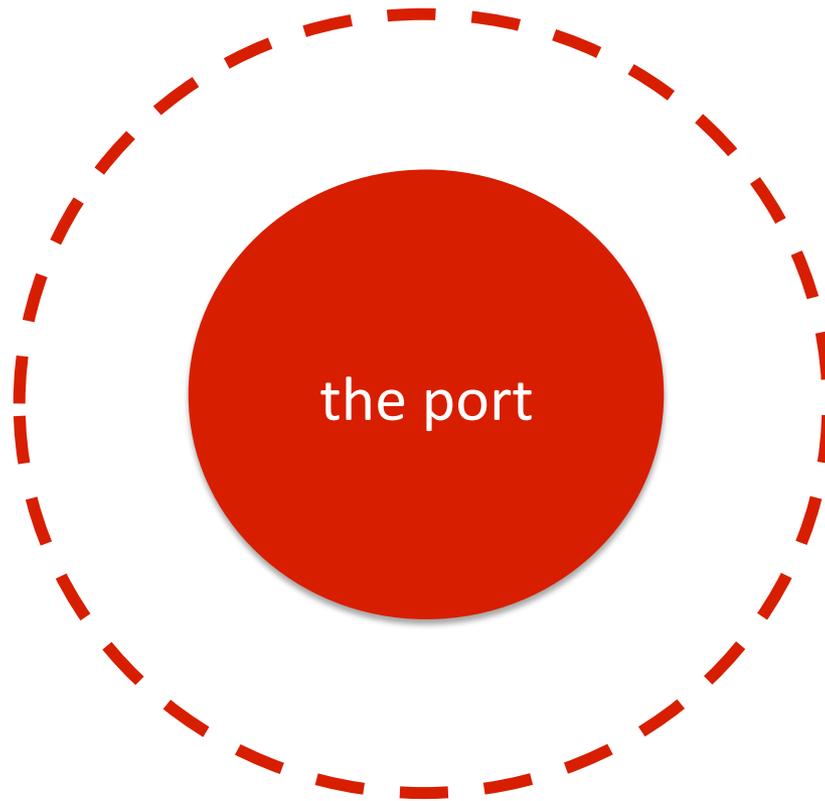
‘Ports form an important element in the economic and social development of virtually all countries. Accordingly, port planning should not only concern the port itself but also consider wider economic, social and physical factors in determining the role of the port in the overall regional and national development plans.’

(International Association of Ports and Harbours, USA)

‘If we are to meet the challenge of growth we must move away from ports being treated like islands; unconnected from broader planning and transport links in the cities and regions where they are sited.’

(Federal Transport Minister)

Port Master Planning must consider 'beyond the port' factors



land use
interface
issues

road, rail
&
channels

values
(env. +
social)

consider
the whole
logistics
chain

corridor &
land use
protection

Incorporating Environmental & Societal Values

- **Understand the Port Environment**
 - Have rigorous and defensible baseline data – know your port environment !!
 - Water Quality, Air Quality, Terrestrial & Marine Biodiversity etc
- **Avoid, Mitigate, Offset – Guiding Principles**
 - Remember the hierarchy !!
- **Ongoing Monitoring, Adaptive Management & Research**
 - Constant focus – check and re-check outcomes & adapt/change if necessary
 - Support Research
- **Industry Partnerships – ‘Increasing the Knowledge Base’**
 - Government, Ports, Infrastructure Partners, Transport Operators, Resource & Freight Handlers
- **Stakeholder Engagement & Communication – Make it real !!**
 - **Tell the port story** – how does trade port activity relate to our everyday lives ?
 - **Deeper** engagement
 - Don’t just consult at project time !! **Consult all the time.**
 - Use of Social Media – Twitter, Facebook, YouTube (remember how people get their information)

Potential Reach of Social Media ?



- 500 million daily tweets
- 71-100 character messages



- 347 million users worldwide
 - 6 million in Australia & 1 Million in NZ



- 1.4 billion members
- 800 million daily active users



- 1 billion users
- More than 50% of 16-24yr olds admit they **'love'** YouTube

Social Media Observations

Use of Twitter in ports



Maersk Line ✓
@MaerskLine
Official Twitter account of Maersk Line, the world's largest container shipping company.



Port Authority NY&NJ
@PANYNJ
The official Twitter feed of the Port Authority of NY & NJ. This is not monitored 24/7. To report an emergency, dial 1-800-828-7273.



Port of Baltimore
@portofbalt
Follow portofbalt and you can receive news and information about cargo, cruising and environmental activities at the Port of Baltimore.



Port Metro Vancouver
@PortMetroVan
As Canada's largest gateway and most diversified port we provide businesses access to more than 160 economies and residents with nearly 100,000...



Port of Dover ✓
@Port_of_Dover
#PortofDover handles 13m passengers, 2.4m freight vehicles & £100bn of UK/European trade. Follow @POD_travelnews for travel and ...



Dublin Port Company
@DublinPortCo
Dublin Port Company is responsible for the management, control, operation and development of the Dublin Port.



Port of Tacoma
@PortofTacoma
We are a leading North American container port and an economic engine for Pierce County. Tweets brought to you by Megan.



Port of San Diego ✓
@portofsandiego
The Port of San Diego manages the tidelands around San Diego Bay. Learn more through our video and audio podcasts, YouTube channel, or visit...



Port of Seattle
@PortofSeattle
Official Twitter account of Port of Seattle. The Port of Seattle connects passengers and cargo to destinations around the globe. Twitter hours are...



1M JOBS
Port of Houston
@Portof_Houston
Official Twitter account of the Port of Houston Authority (POHA). Attracting investment, creating jobs & supporting business in Houston, TX



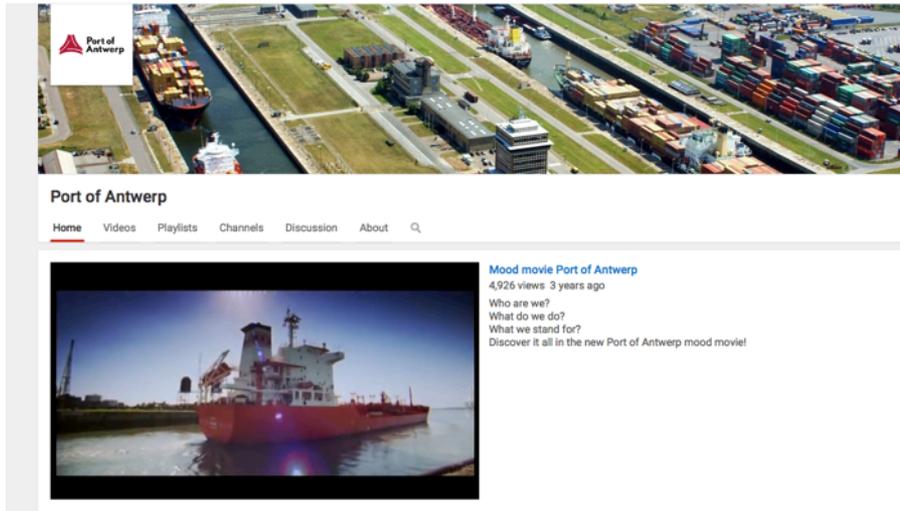
DP WORLD
Southampton
DP World Southampton
@DPWorldSouthamp
The UK's most productive container terminal, handling ships loaded with goods from across the world destined for British shops, businesses and...



PORT CENTER
Le Havre Port Center
@LHPortCenter
Espace de présentation et d'échanges sur les activités et métiers du port du Havre.

Social Media Observations

Use of YouTube in ports



Port of Antwerp

Home Videos Playlists Channels Discussion About

Mood movie Port of Antwerp
4,926 views · 3 years ago
Who are we?
What do we do?
What we stand for?
Discover it all in the new Port of Antwerp mood movie!



Port of Antwerp - Tanja -
Directiesecretaresse
304 views · 1 year ago



Port of Antwerp - Peggy -
Hoofdverkeersleider
520 views · 1 year ago



Port of Antwerp - Youssef - HR-
assistent sociaal welzijn
294 views · 1 year ago



Port of Antwerp - Teresa -
Adjunct Scheikundige
178 views · 1 year ago



Port of Antwerp - Sandra -
Coördinator event management
212 views · 1 year ago



Port of Antwerp - Juan -
Werkleider elektriciteit
200 views · 1 year ago



Port of Antwerp - Jens -
Technisch assistent



Port of Antwerp - Elly - Senior
Technisch Assistent



Port of Antwerp - Barry -
Scheikundige



Port Of Antwerp - Andrew -
Scheikundige



Antwerpen@work 9 maart AET



Antwerpen@work 2 maart -
sprott planning & environment



Port Metro Vancouver: Stories



20,151

+ Add to ← Share ... More

👍 335 💬 2



Connecting Canada to the World – Port Metro Vancouver Stories



36,578

+ Add to ← Share ... More

👍 6 💬 1

PortTV: Season 2

PortTV: Season 2 is back and better than ever! The Port Pop Quiz series follows host David Milchard as he ventures into port communities across the Lower Mainland to quiz peoples' knowledge about port ci...



PortTV: Port Pop Quiz - Delta: The Drawing Challenge
by Port Metro Vancouver
10,997 views • 6 days ago



PortTV: People of the Port - Behind the Scenes at Vancouver...
by Port Metro Vancouver
16,480 views • 3 months ago



PortTV: Port Pop Quiz - North Vancouver Musical
by Port Metro Vancouver
37,690 views • 3 months ago



PortTV: People of the Port - Energy Conservation with Doro...
by Port Metro Vancouver
15,320 views • 3 months ago



PortTV: Port Pop Quiz - Vancouver Q&A
by Port Metro Vancouver
19,870 views • 4 months ago

PortTV: Season 1

Port Metro Vancouver welcomes audiences behind-the-scenes of Canada's largest port with its new online channel, PortTV. Designed to engage and educate audiences, PortTV will share the stories of res...



PortTV Port Pop Quiz - Ep.14 - Delta: True or False
by Port Metro Vancouver
6,164 views • 1 year ago



PortTV Port Pop Quiz - Ep.13 - Surrey: Multiple Choice
by Port Metro Vancouver
6,674 views • 1 year ago



PortTV People of the Port - Ep.12 - Inside the Operations of...
by Port Metro Vancouver
8,307 views • 1 year ago



PortTV Port Pop Quiz - Ep.11 - North Vancouver: The Guessin...
by Port Metro Vancouver
4,577 views • 1 year ago



PortTV Port Pop Quiz - Ep.10 - Vancouver: Port or Bond
by Port Metro Vancouver
5,820 views • 1 year ago



Rotterdam World Port World City

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63,824

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70 4



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Rotterdam Media Commission
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148,377

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157 15



Rotterdam World Port World City

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How does the consideration of Environmental & Societal values lead to better planning outcomes?

Promotes design changes to avoid, reduce or mitigate environmental impacts (helps avoid longer term problems)

Reduces project & operational cost over longer term

Embeds environmental & societal considerations in future decision making / corporate culture

Helps ports work with nature – not 'on' it

Assists in obtaining regulatory approvals for future projects

Improves stakeholder & community awareness of future development

Demonstrates to community that port is serious about improving outcomes

Demonstrates balance

The Future ?



**Fluctuating Trade
Growth**

**Increasing 'urban
interface issues'**

**Responding to Climate
Change**

**Greater Environmental
Performance Expectation**

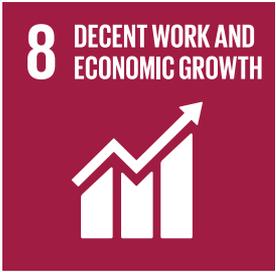
**Increasing Stakeholder
Expectations**

Continued M & A's

**Global Economic
Uncertainty**

**Restricted Access to
Capital**

**Strong need for port
'rationalisations'**



**BUSINESS CONTRIBUTION TO THE SDGs =
ACT RESPONSIBLY + FIND OPPORTUNITY**

United Nations Global Compact



**SUSTAINABILITY
PLAN 2015 +**
A TARGETED PLAN FOR OUR BUSINESS.

SMART PORTS • BRIGHT FUTURE

North Queensland Bulk Ports - Queensland

SUSTAINABILITY PLAN 2015

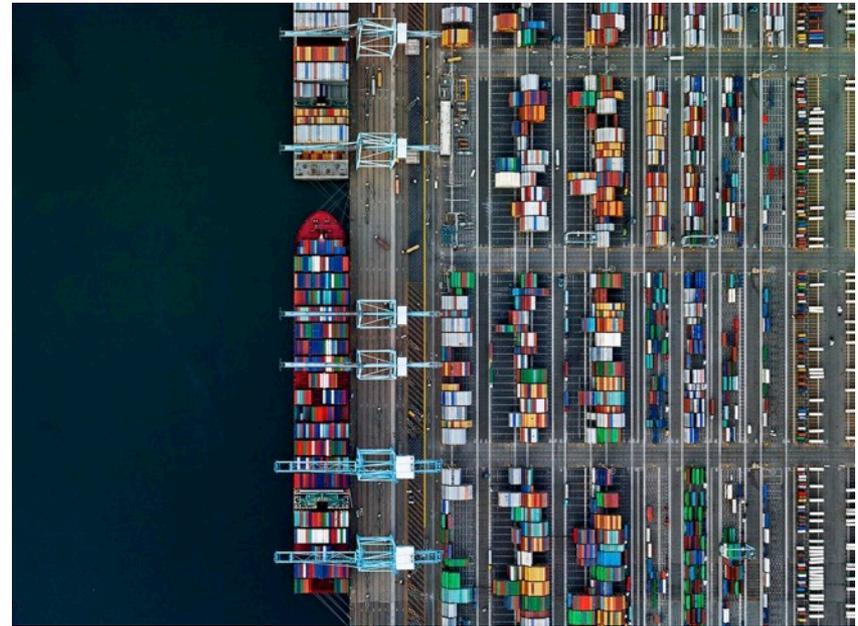


NSW Ports

NSW Ports – New South Wales

Some leading examples - Australia

The Future...will happen



Let's plan for it !!

thank you

sprottplanning.com

