

Deloitte.



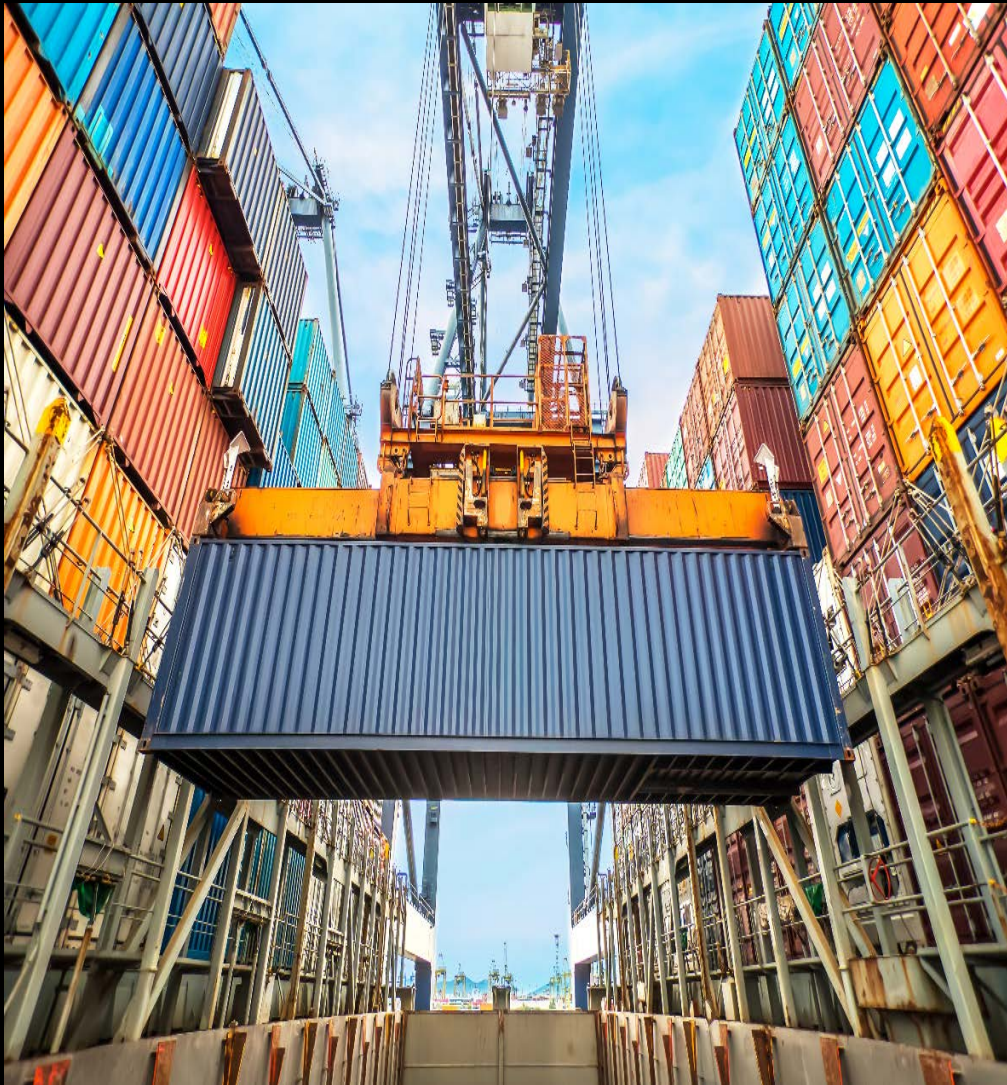
Future Ports: How do we get there?

ACPA Panel Discussion

Ryan Ernst

In light of the ever-increasing competition between ports, driven by the shipping industry and global terminal operators, port authorities are increasingly focused on utilizing the possibilities presented by technological innovation





We discern the need for strengthening the relationship between ports and the community.

This requires strong partnerships with local entrepreneurs, regional governments and knowledge institutions.

A Small World.....

Deloitte has significant experience working in the ports ecosystem industry across the globe

Deloitte Port Services supports a range of clients including:

- Port authorities
- Terminal operators
- Shipping lines
- Offshore
- Dredging
- Ship building



....with big Challenges and Opportunities

Six prominent challenges that inherently create opportunities are on the top of the global port authority boards' agenda



Smart ports

Data-driven technologies and Internet of Things, combined with advanced robotics and analytics and additive manufacturing will redefine the future of ports.

Technological advancements offer ports new business model opportunities and the potential to transform into smart ports.



Integration of supply chains

The further integration of traffic flows on both the seaside and the landside requires strategic coordination.

Integration of supply chains is driving increased port efficiency, port authorities could act as system orchestrators.



Organizational efficiency

The internal organization of port authorities needs to be flexible to adapt to the increasingly dynamic environment.

Increased competition between ports provides ports with the opportunity to focus on organizational efficiency and performance management.



Safety & security

Technology has a dark side and the digitalization of transport and logistics combined with the strategic importance of ports emphasizes the importance of cyber security.

Being at the heart of global supply chains, ports need to be at the forefront of safety and (cyber)security.



Port / city duality

With ever increasing cities, more and more ports are enveloped requesting new strategies towards port / city ecosystem development.

Ports should focus on creating regional added value and employment, benefiting both city and port, this requires thinking in ecosystems combining social and economic aspects.



Greenification / circular economy

The continuous push for greener and more sustainable solutions forces ports and port companies to consider new approaches.

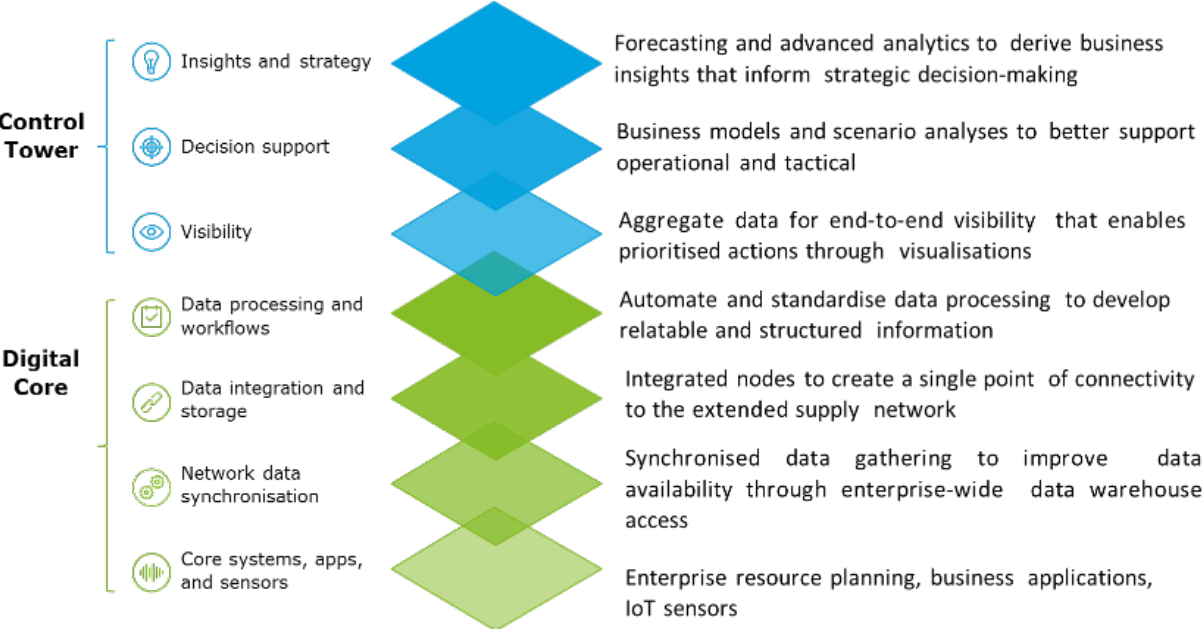
The energy transition could go much faster than anticipated requiring strategic preparation from ports.

One Canadian Example

Working with Transport Canada and the Vancouver Fraser Port Authority to create end to end visibility in Canadian Supply Chains

The Vision:

Collaborative Supply Network Reporting



The First Phase:

On-line, next day KPI visualization

