PGCS 2022

Designing for success in a national change program

Bottom Line Up Front

- Have a plan
- Design and build a Proof of Concept
- Trial, Test and Improve
- Use Standards, but tailor to suit
- Be transparent
- DO Incorporate Lessons Learned
- Be patient, Remember that not everyone moves at the same pace
- Engage, engage, engage

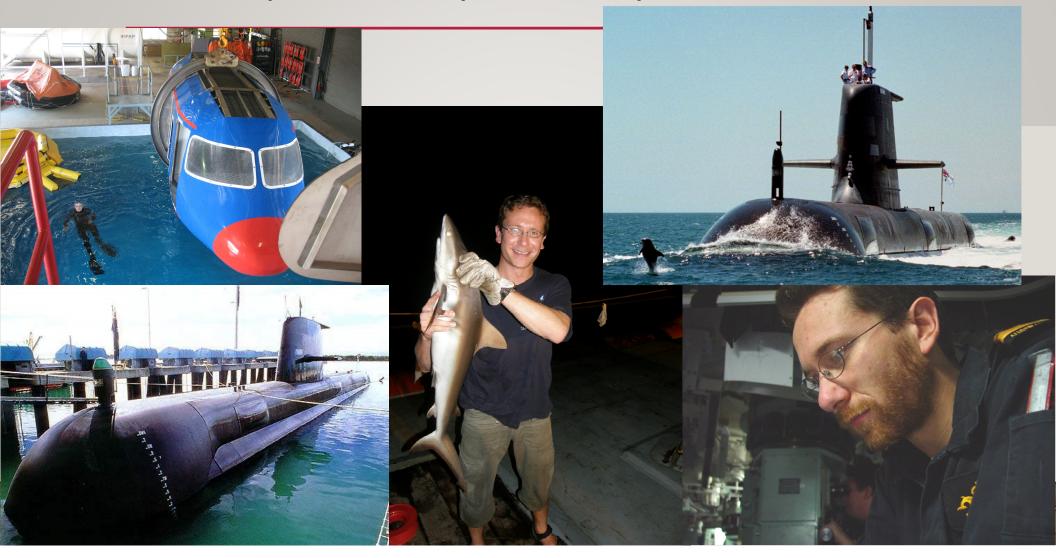
PHIL ROKIC

Education

- B. Mechatronics / B. Computer Science Uni of Melbourne (1993-1998)
- Grad Dip Marine Engineering Management (2005)
- PRINCE 2 Practitioner (2007)
- MBA (Finance) (2018)
- Marine Engineering Officer Royal Australian Navy (2000-2005)
- Operational Safety Manager:
 - Transport Safety Victoria (2009-10)
 - Australian Maritime Safety Authority (2011-14)
- Consulting with:
 - Sinclair Knight Merz (2006-07)
 - KoBold Group (2008-09, 2015-18)
 - Apis Group (2014-15)
 - DFAT via Synergy (2019)
 - Shoal Group (2020-21)
- Executive Roles:
 - PR Consulting Pty Ltd (2021-22)
 - COO Aquaculture Group (2021-22)

- Major Projects:
 - Safety Management Systems Governance, Risk and Compliance model for Audit and assurance of domestic commercial vessel companies – TSV and AMSA, developing the standards, legislation implementation for all commercial vessels in Australia
 - SKM Project Manager managing a site refurbishment at Boeing, Melbourne for 787s
 - RAN managing teams of contractors for submarine maintenance periods
 - RAN 2nd engineer aboard submarines HMAS Dechaineux and HMAS Sheean
- My interests:
 - Business Intelligence
 - Entrepreneurship
 - My kids and scuba diving
- My favourite job: scuba diving in Melbourne Aquarium with the sharks!

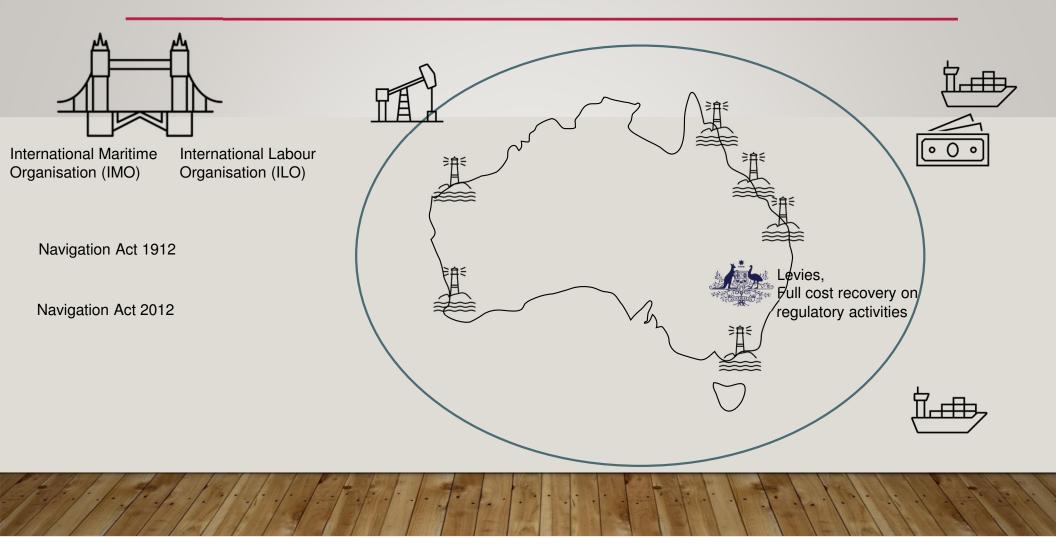
A few fun photos from my maritime days



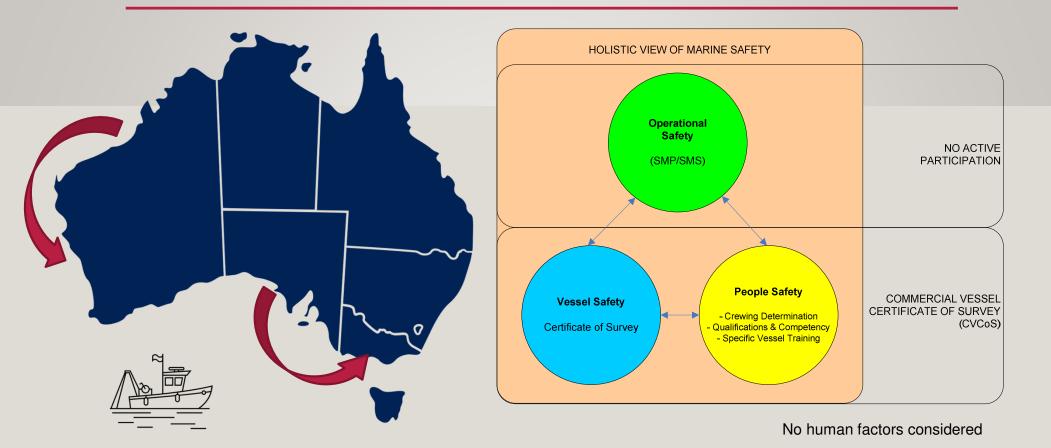
Some weren't so fun!



International Commercial



Domestic Commercial



The need for Reform

- On 3 July 2008, COAG acknowledged that Australia's overlapping and inconsistent regulations were impeding productivity growth, compromising Australia's future living standards and reducing competitiveness.
- 25 July 2008, Australian Transport Ministers agreed to recommend to COAG that, subject to the outcomes of a regulation impact assessment, COAG agree to the establishment of a single national system for maritime safety regulation.



COAG – National Partnership Agreement to Deliver a Seamless National Economy

- The National Partnership also includes a series of challenging and complex competition reforms. These reforms are also continuing to progress:
 - The legislative component of the national access regime reform is in place, giving effect to reforms that provide fair and reasonable access arrangements for national infrastructure;
 - Single national frameworks for heavy vehicle regulation, maritime safety regulation and rail safety regulation and investigation are now well in hand, with COAG signing three <u>Intergovernmental Agreements</u> in August last year to enable the establishment of these regulators in 2013.
 - The Heavy Vehicle National Law alone is estimated to generate net benefits to the economy of up to \$12.4 billion.

https://ministers.treasury.gov.au/ministers/david-bradbury-2012/speeches/benefits-and-outcomes-seamless-national-economyagenda

Stakeholders – Industry and Government

- Big end of town:
 - Ferry operations
 - Aquaculture industry
 - Large-scale Queensland tourism operators
- Small end of town:
 - One-man fishing charters
 - Hire-and-drive (even in ACT)

Table 1:	Tot	tal numl	ber of co	mmercia	al vessels	in all st	ates and	the NT	

	NSW	VIC	Qld	SA	TAS	WA	NT	TOTAL	
No. of vessels	9,556	1,380	9,620	2,336	1,309	3,657	488	28,346	

Source: State/NT maritime agencies 2009

Jurisdiction	Name of agency			
New South Wales	New South Wales Maritime			
Northern Territory	Marine Safety Branch, NT Transport Group			
Queensland	Maritime Safety Queensland			
South Australia	Department of Transport, Energy and Infrastructure, SA			
Tasmania	Marine and Safety Tasmania			
Victoria	Marine Safety Victoria			
Western Australia	Marine Safety – Department for Planning and Infrastructure, WA			

A contemporary regulatory framework

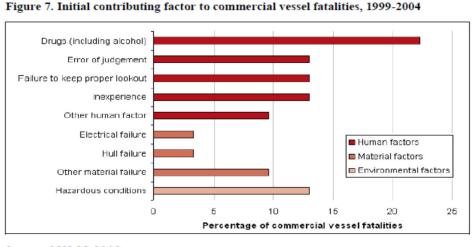


The challenge

- A 30 year history of focussing on Vessel Survey and Vessel Captains
- National Marine Safety Committee (NMSC) A standards body that was a quasi-legislation negotiat
- Government and industry reluctance
- Differing attitudes to regulation in a
- Different fee structures in each juri
- Different government subsidies in ε

ť	Services	Option 1	Model 1	Model 2	Model 3	
(Status Quo	AMSA	AMSA with State/NT	AMSA, State/NT, Private Sector & RTO	
(Standards	\bigtriangleup	•	•	•	
	Registration		•	•	◆ ■	
i	Survey & Plan Approval		••	•	•	
	Compliance Monitoring		•		◆ ■	
E	Investigations & Enforcement		•		◆ ■	
	Qualifications/Crew certification		• 🔺		•	
	Safety Management & Safe Manning		••	•	•	
	 ◆ AMSA – Australian M ■ State/NT – State and N 			Agencies		
	Private Sector – Accred					
RTO – Registered Training Organisations						
NMSC – National Marine Safety Committee						

The need for Safety Management Systems



NSW Class I - Passenger Passenger jumped overboard while vessel was underway. The passenger was recovered and required medical attention. NSW Class I - Passenger Vessel collided with a sailing catamaran while underway. Significant damage sustained. NSW Class 2 - Non-Passenger Acetylene bottle caught fire onboard. The vessel was evacuated. No injuries or pollution reported. NSW Class 2 - Non-Passenger Vessel collided with an open bridge. Damage sustained to vessel's mast and rigging. NSW Class 2 - Non-Passenger Vessel collided with rowing boat while underway. The person onboard the rowing boat fell overboard and required medivac. NSW Class 3 - Fishing (commercial) Passenger fell overboard while fishing. The passenger was recovered without injury. QLD Class I - Passenger Passenger fell overboard while disembarking vessel. The passenger was recovered with minor injuries. QLD Class I - Passenger Vessel's dory capsized during snorkelling operation. Four passengers fell overboard and were recovered without injury. Vessel collided with wharf following steering failure. No damage or pollution reported. QLD Class 2 - Non-Passenger QLD Class 3 - Fishing (commercial) Vessel's hatch cover fell from an open position during fishing operation. A crew member sustained head laceration and arm fracture OLD Class 3 - Fishing (commercial) Vessel collided with another vessel. No damage or pollution reported. QLD Class 4 - Hire 'N' Drive Vessel made contact with reef. Minor damage sustained. TAS Class I - Passenger Vessel grounded during strong weather conditions. Damage sustained to vessel's propellers. NT Class I - Passenger Crew member sustained hand injury while setting up compressed air hose. Medivac required. NT Class 2 - Non-Passenger Vessel's bow door separated from vessel. Investigation underway. NT Class 3 - Fishing (commercial) Vessel's fixed fire fighting system suffered an electrical fault and caught fire. The fire was extinguished by crew. WA Class I - Passenger Vessel collided with a docked vessel during strong weather conditions. Minor damage sustained. WA Class 2 - Non-Passenger Vessel collided with a passenger vessel while underway. No damage or injuries reported. WA Class 2 - Non-Passenger Vessel's port outboard engine caught fire. The fire was extinguished by crew. Repairs completed. WA Class 3 - Fishing (commercial) Very Serious: Vessel collided with reef and sustained significant hull damage. The vessel was evacuated and later sank. ACT Class I - Passenger Passenger jumped overboard while the vessel was berthing. No injuries reported. ACT Class I - Passenger Passenger tripped on door sill. The passenger sustained a dislocated shoulder and required medivac. SA Class I - Passenger Vessel made contact with submerged object. Damage sustained to propellers. SA Class 2 - Non-Passenger Vessel capsized after failure to remove the buoy line. Two persons fell overboard and were wearing life jackets. One person sustained leg bruising,

Passenger jumped overboard while vessel was underway. The passenger was recovered without injury.

Vessel lost main engine following fuel issues. No damage or injuries reported.

Source: NSMC 2008a

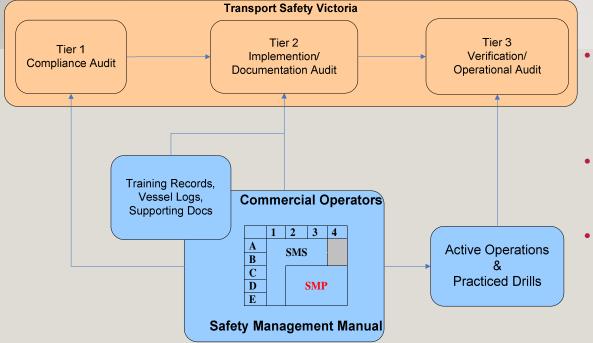
NATIONAL ASSESSMENT OF BOATING FATALITIES IN AUSTRALIA 1999-2004 https://www.amsa.gov.au/vessels-operators/incident-reporting/2021-monthlydomestic-commercial-vessel-incident-reports



NSW Class I - Passenger

NSW Class I - Passenger

GRC Assurance Model



- Governance Company governance checked by regulators through the 3-tiers of auditing
- Risk Company Risk Management and
 Regulator Risk-Based Audit
- Compliance The principles of compliance as outlined in AS3806

Compliance (2) – National Standards

Uniform Shipping Laws (USL) Code (1980-2011+)

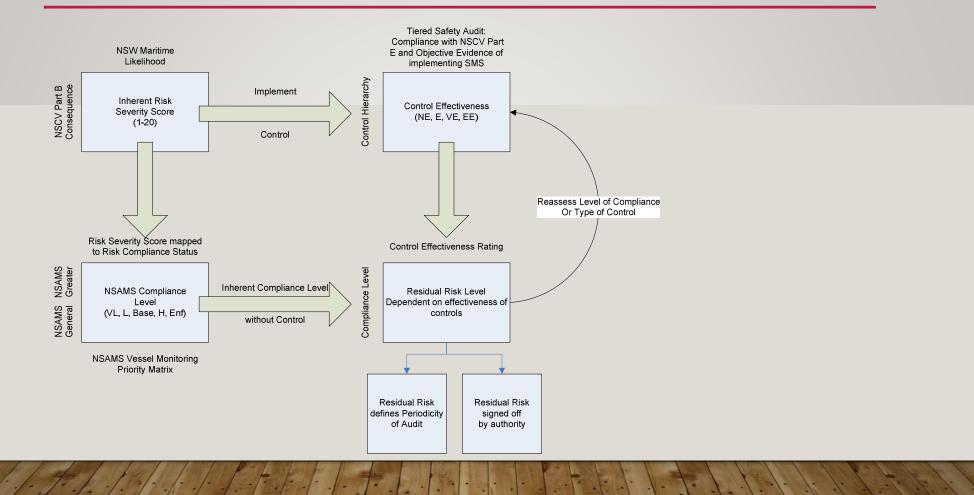
National Standard for Commercial Vessels (NSCV)

•	Part C – Construction	<i>MO503</i>
•	Part D – Crew Qualifications	<i>MO505</i>
•	Part E – Safety Management	MO504

International Maritime Organisation (IMO)

• International Safety Management (ISM) Code

Risk Management (See attachment)



Incorporating Lessons Learned from ISM

Review of the ISM Code audit process, July 2009, Ernst & Young:

- Reinforcing role as a regulator, and strengthen the audit function through improved auditor training
- 2. Consider the development of a formal risk assessment framework...
- 3. Improve preparedness of ISM code auditors, consider the inclusion of SMSs to be a mandatory part of ISM audit requests submitted.
- 4. Consider reviewing and strengthening current practices for planning audits, and evidence collection and retention to justify decisions around conformance with the ISM code
- 5. Revise the audit methodology to include risk based sampling
- 6. Consider a redesign of documentary guidance [...] for each type of audit
- 7. Formal classification of what constitutes an observation, a non-conformance and a major non-conformance to promote consistency
- 8. Revise the training program for ISM auditors to include technical training [...]
- 9. Investigate the feasibility of monthly meetings [...] for all AMSA's auditors to develop the ISM code knowledge network
- 10. Consider documenting and communicating their detailed interpretation and expectations of the ISM code formally to industry... promote consistency in the design and operation of a SMS and to strengthen their position as a regulator.



Engaging Governments

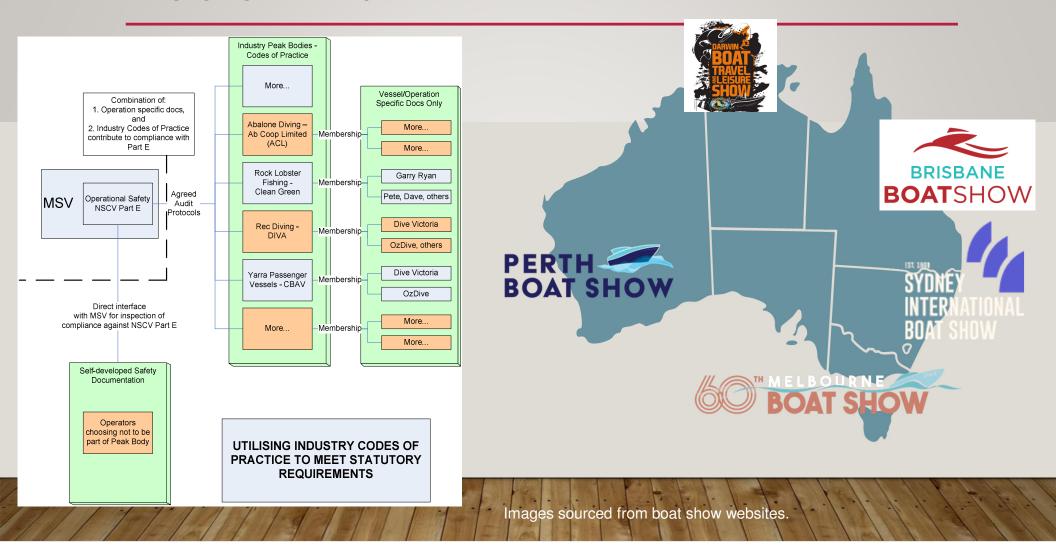
- National Regulator Information Portal (Atlassian Confluence)
- Intergovernmental Committees on NSCV Part E
- National Database for Commercial Vessel Safety (NDCVS)
 - Expand the same intergovernmental cultural battles to the ICT space
 - Tailored delivery of a regulatory ICT system

Following lots of discussions and fostering relationships:

Peak body on Safety Management



Engaging industry



THANKYOU!!

