

IALA WORLD – WIDE ACADEMY

Briefing to SWPHC on risk management and the quality of Maritime Management in the Pacific Region



International Obligations: SOLAS V Regulation 13

Chapter V Regulation 13.1 requires a Contracting Government to provide "as it deems practical and necessary" by itself or with other Governments "such AtoN as the **volume of traffic justifies** and the **degree of risk requires**"

Ch V Reg 13.2: AtoN should conform to international standards (IALA recommendations and guidelines)

Ch V Reg 13.3 **information** about AtoN must be **given to all concerned** (mariners; stakeholders etc.) - MSI

International Standards – IALA Publications

Guideline 1109 on theft and vandalism deterrents

Guideline 1091 on bird deterrents

Guideline G1136 - AtoN services in extremely hot and humid climates

Guideline G1138 on Simplified IALA Risk Assessment – SIRA www.ialaaism.org/publications





Risk Management

The IALA Risk Management Toolbox

Causality





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IALA Risk Management Toolbox





PAWSA – 30 experts

IWRAP MkII – calculates statistics

SIRA – a few stakeholders who really care

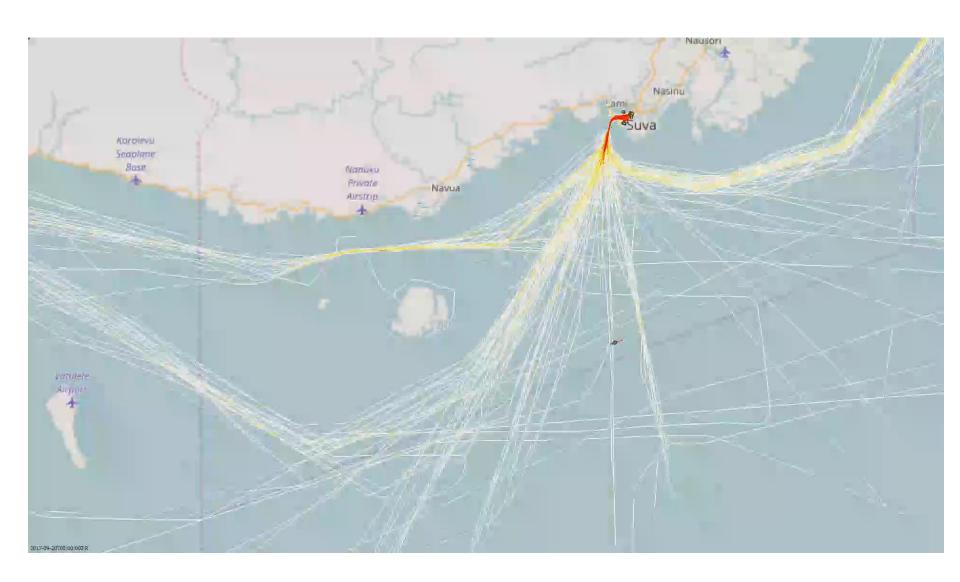




IWRAP Mk II Video (three days off Suva)



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Risk Value Matrix (SIRA G1138 Table 3)

		PROBABILITY OR LIKELIHOOD						
		Very Rare (1)	Rare (2)	Occasional (3)	Frequent (4)	Very frequent (5)		
CONSEQUENCE OR IMPACT	Catastrophic (5)	5	10	15	20	25		
	Major (4)	4	8	12	16	20		
	Severe (3)		6	9	12	1 5		
	Minor (2)	2	ALARD	6	8	10		
\mathcal{S}	Insignificant (1)	1	2		4	5		

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Risk Control Options (RCO)

RCO for each undesirable incident reduce the risk to a level (As Low As Reasonably Practicable - ALARP) which is acceptable to stakeholders

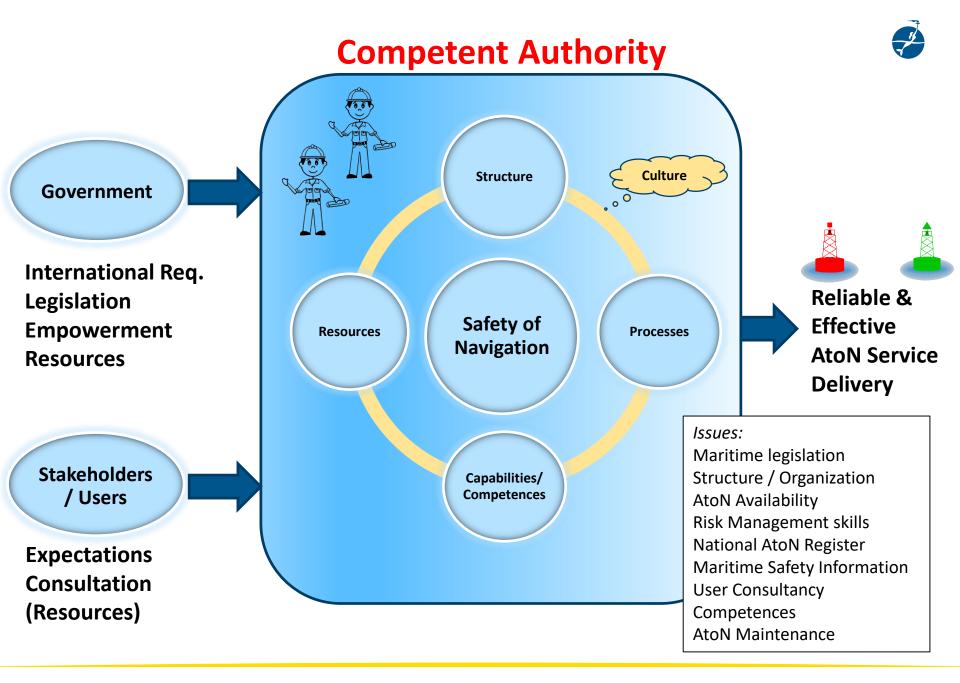
The Risk Value will determine what action is required (G1138 Table 4)

Risk Value	Risk Category	Action Required	
1 - 4	Green	Low risk. No RCOs unless implemented at low cost	
5 - 8	Yellow	Moderate risk. Reduce to ALARP level through RCOs	
9 - 12	Amber	High risk requiring RCO and significant funding	
15 - 25 Red		Very high and unacceptable risk – immediate action required with major funding. Ports/waterways may need to close until risks are at ALARP level	

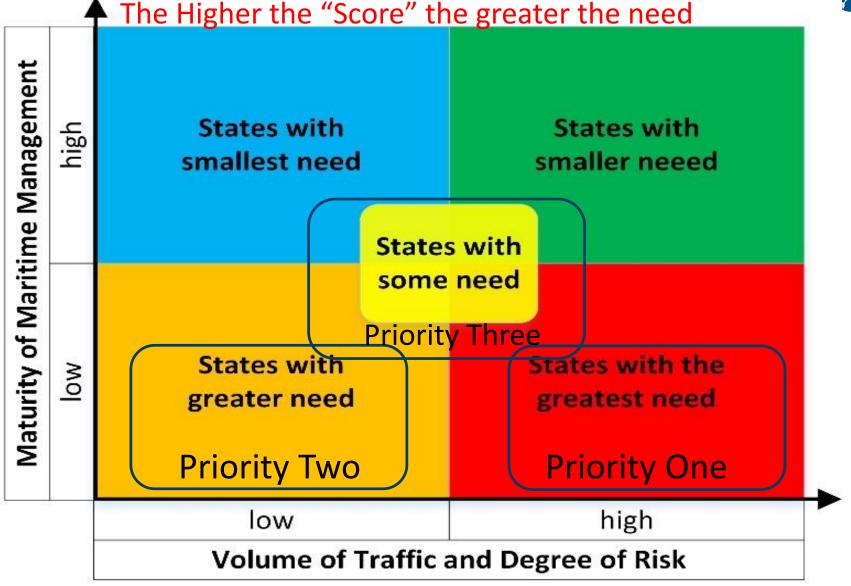


Quality of Maritime Maturity for AtoN service provision

Meeting international obligations – or not!







Maritime Maturity "Score"



12 categories e.g.

Effective Maritime Safety Information

Funding arrangements adequate

National register of AtoN compiled and updated

Stakeholder consultancy effective

2	Coas	stal State Assessment Matrix - Part 1 - Maturity of Maritime Mana	agement	
3	a.1	MSI National Coordinator nominated and effective?	Yes = 1.0; nominated only = 0.5; pending = 0.25; no = 0	1
4	a.2	Powers of AtoN/VTS CA embodied in law?	Yes = 0.25; pending = 0.1; no = 0	0.25
5	a.3	Maritime incident records	Register maintained = 0.25; pending/partial records = 0.1; none = 0	0.25
6	a.4	National Governmental Maritime Committee formed?	Yes = 0.5; pending = 0.25; no = 0	0.5
7	b.1	AtoN strategic plan published?	Yes = 0.5; pending = 0.25; no = 0	0.5
8	b.2	AtoN Operational Plan; LoS statements published; EWM Plan?	Yes = 0.5; pending = 0.25; no = 0	0.5
9	b.3	Funding arrangements approved and adequate?	Yes = 0.5; pending = 0.25; no = 0	0.5
10	b.4	Spares; resources and manpower adequate?	Fully resourced = 0.5; partial = 0.25; inadequate = 0	0.5
11	c.1	National AtoN register produced and maintained?	Fully = 1; partially = 0.5; pending = 0.25; no = 0	1
12	c.2	IALA categories allocated; availability statistics produced?	Fully = 0.5; partially = 0.25; pending = 0.1; no = 0	0.5
13	c.3	ISO 9001 QMS accreditation?	Yes = 0.25; in-house equivalent = 0.1; no = 0	0.25
14	c.4	Stakeholder fora developed?	Effectively = 0.25; partially = 0.1; none = 0	0.25
15	d.1	Level 1 AtoN managers / VTS supervisers	> 4 = 1.2 or 3 = 0.5.1 = 0.25. none = 0	1

Final Quality "Score"



A "perfect" State would score 1. In practice a score of less that 20 forms the "Premier Division"

28 States in the Premier Division

China – score 7

Australia

Brazil

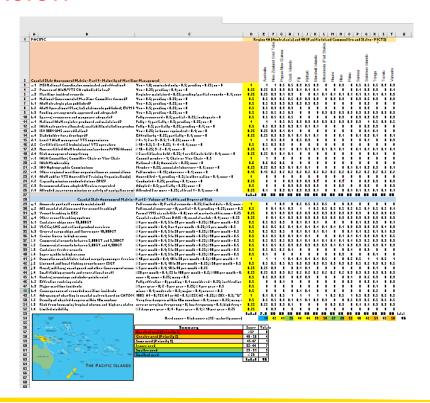
India

Republic of Korea

South Africa

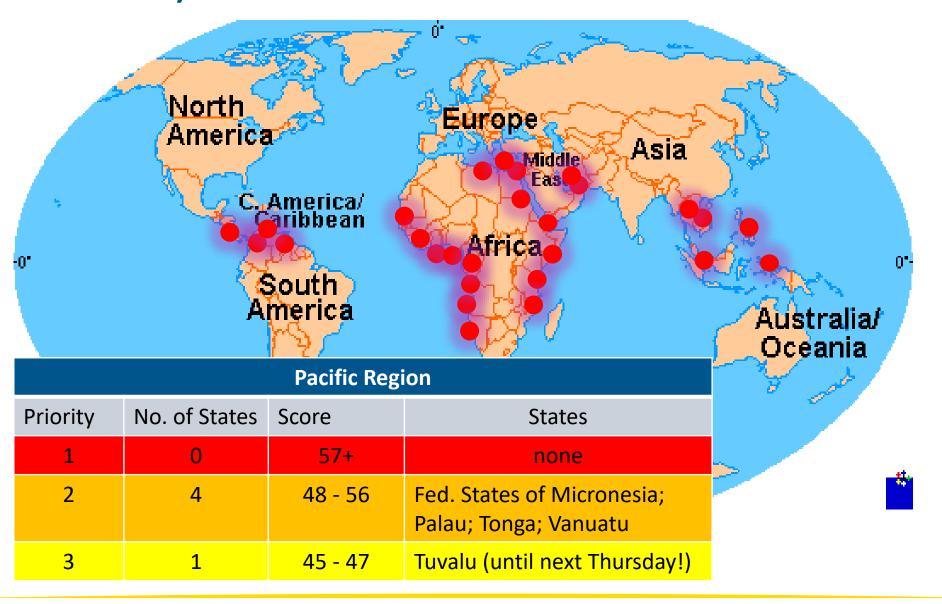
UK

USA etc.



Priority 1 States – Score of 57 or more







THANK YOU

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