IHO recommended scale ENC coverage in SW Pacific Ports and other confined coastal areas. Mike Drake : Director, Marine Operations – Designated Person Ashore (DPA)





### **Presentation Objectives**

South West Pacific Operations Update

COVID has accelerated the transition from small to large passenger vessels

Modern pilotage and why ENC's must be fit for the navigational purpose.

Economic benefit of appropriate ENC's





na Short Break.

AUSTRALIA



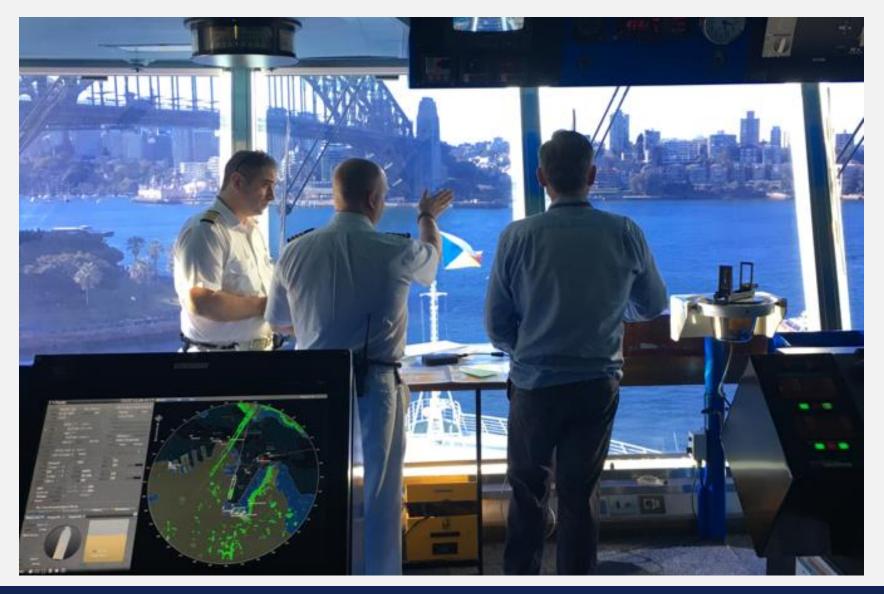


#### Ships are getting bigger !





#### Safety benefits of ECDIS not being fully utilised – need improved ENC !





# **IHO Recommended ENC Scales**

Navigational Purpose	Name	Scale Range
1	Overview	<1:1 499 999
2	General	1:350 000 - 1:1 499 999
3	Coastal	1:90 000 - 1:349 999
4	Approach	1:22 000 – 1:89 999
5	Harbour	1:4 000 – 1:21 999
6	Berthing	> 1:4 000

Selectable Range	Standard scale (rounded)
200 NM	1:3 000 000
96 NM	1:1 500 000
48 NM	1:700 000
24NM	1:350 000
12 NM	1:180 000
6 NM	1:90 000
3 NM	1:45 000
1.5 NM	1:22 000
0.75NM	1:12 000
0.5 NM	1:8 000
0.25 NM	1:4 000

Ships are getting bigger yet the ports remain the same size.

IHO recommended scales are now a critical piece of infrastructure in order to accommodate safe navigation.

Port scale ENC is poorly understood within Port organisations (Worldwide)

Large vessels also rely on radar or other technologies to berth in a precise position and this requires further consideration of the ENC scale in relation to the radar range in use.



# 2019 Port Vila Survey including Lepatasi Wharf

Survey commissioned by P&O Cruises Australia

The specific objective - to result in the production of a IHO recommended berthing scale ENC

The new berth doubles port capacity for same day vessel calls. However it has a limited berthing pocket

Port Vila must be able to accommodate larger ships for countries economic prosperity

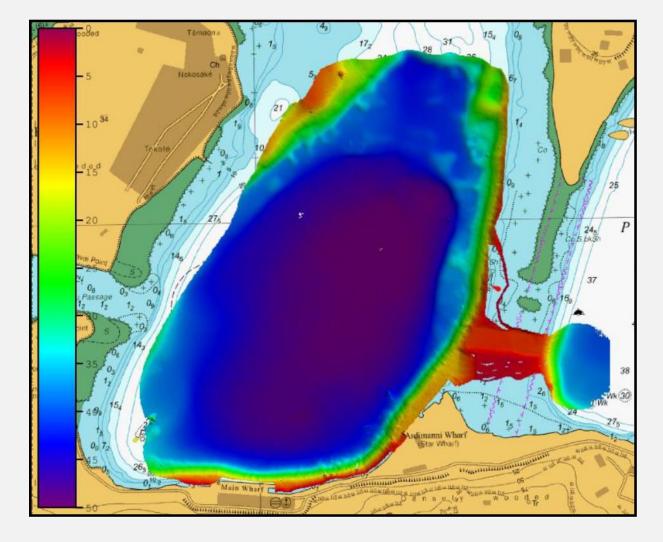
A modern berthing ENC will support this

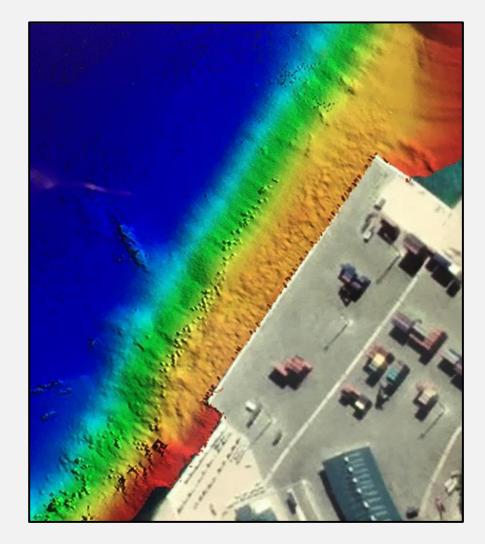






# 2019 Port Vila Survey including Lepatasi Wharf







# Modern Pilotage & Navigation Requirements

Absolute Positioning

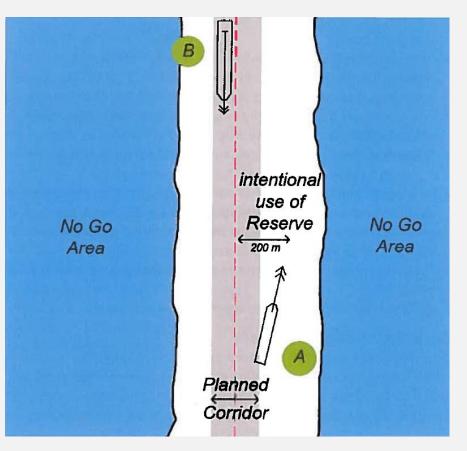
Go / No- Go areas, defined by 1m contours.

Improved situational awareness

Widely accepted as best practise by worldwide pilotage organisations

Larger ships or bigger ships than before drive economic development.

Vessel intentionally uses available water without entering its no go area Vessel can remain within its planned corridor

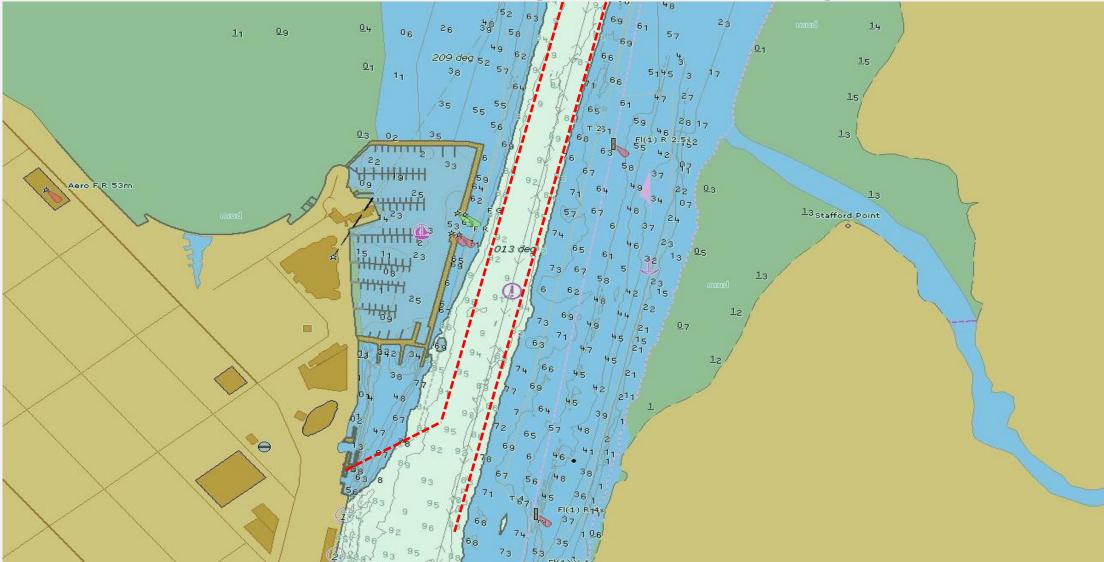


В





## Cairns HD ENC showing actual navigable water





# HD ENC unlocked Cairns as a destination for Queen Elizabeth on 28 February 2020





# Thanks you - Questions

