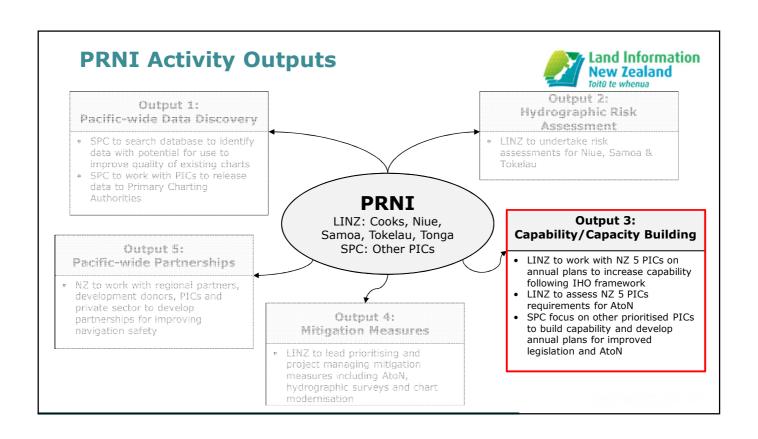
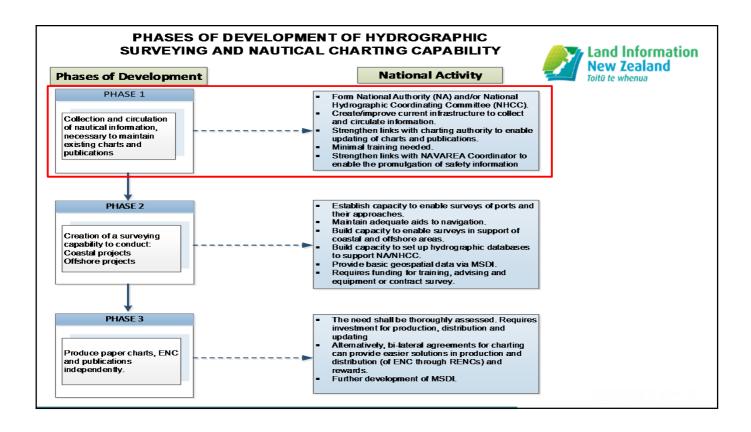


Land Information Risk model - high traffic areas (NZ) New Zealand Chart Quality Survey Age Chart Adequacy Depth of Water 15m Contour Traffic Density Prevailing Wave/Wind Tides/Current Open Sea 17.5% 5.83% Isolated Dangers - Rocks/Wrecks/etc. Charted Tidal Hazards 7.5% N/A N/A 3 2.5 2 1.5 14.71% 11.76% 8.82% 11.76% N/A quaculture/Fishing Grounds/shellfish H Sites Tourism Cultural [twil/freaty History Sites Recreational/Social Amenity Port Access Channels Critical Infrast Letter (Berths) - Econor Contribution Proximity to Sites of High Economic 11.76% 11.76% 1 8.33% 2 16.67% Contribution Proximity to Sites of Moderate Economic 8.33% Contribution Cruise Ship Stops





Hydrography Governance



Assist PICs to deliver on SOLAS V/9 international treaty obligations for hydrographic services (governance, policy, resources, oversight)

IHO CB Phase 1

- Establish National Hydrographic Authority
- Establish National Hydrographic Coordinating Committee
- Establish National MSI Coordinator position

Capability building & training



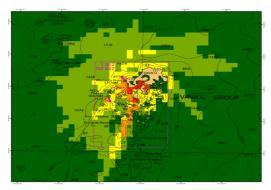
- Formal training
 - Cat A/B Hydrographic Surveyor
 - Cat B Nautical Cartographer
 - MSI Coordinator
 - AtoN
- · Work placements
 - Cartography
 - Surveying
 - MSI/NtM
- Available through
 - PRNI
 - SWPHC
 - IHO/IMO/IALA
 - Donor programmes

IHO Capacity Building Strategy

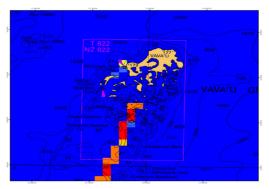


5.3.3 Risk Assessment

A risk assessment provides a robust basis for prioritising a national/regional charting programme. The risk analysis methodology is evidence-based and objective against set criteria. It includes AIS traffic analysis and an economic assessment. The main output is a risk heat map which allows governments, charting authorities and other interested parties to come to a conclusion about the nature and scope of charting improvements and related maritime safety initiatives. A GIS is used for the analysis and to display the results. This allows complex data to be easily accessed and understood by key stakeholders to aid decision making and presents a compelling case for action.



Risk result



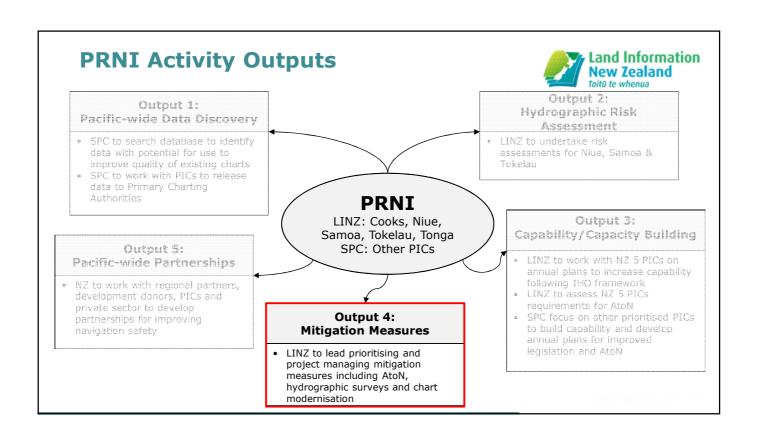
Cost Benefit Analysis

Open source risk assessment



 how the concept of an evidence led hydrography risk assessment has been adopted as part of the International Hydrographic Organization Capacity Building Strategy and embraced by the international maritime community





Mitigation measures



- Hydrographic surveys
- Chart modernisation programme
- Aids to Navigation (AtoN) assessment

