



ADOLPHA MARITIME GROUP

# LET'S GET THE LIGHTS ON

*In support of PMAC initiative*



ADOLPHA  
Maritime Group



# INTRODUCTION

Marine Aids to Navigation -(ATON)- any device or system designed to assist mariners in safely navigating waterways.

World Authority – IMO International Maritime Organization – most of you are signatories

SOLAS, MARPOL, STCW and many others regarding Ports and Maritime Safety  
For us, the item is SOLAS, Safety of Life at Sea Rule 5 section 13



*“responsibilities of contracting governments in providing navigational aids based on traffic volume and risk assessment”*

## WHY?

Establish safety, environmental, and trade regulatory policies to keep the maritime industry in business.

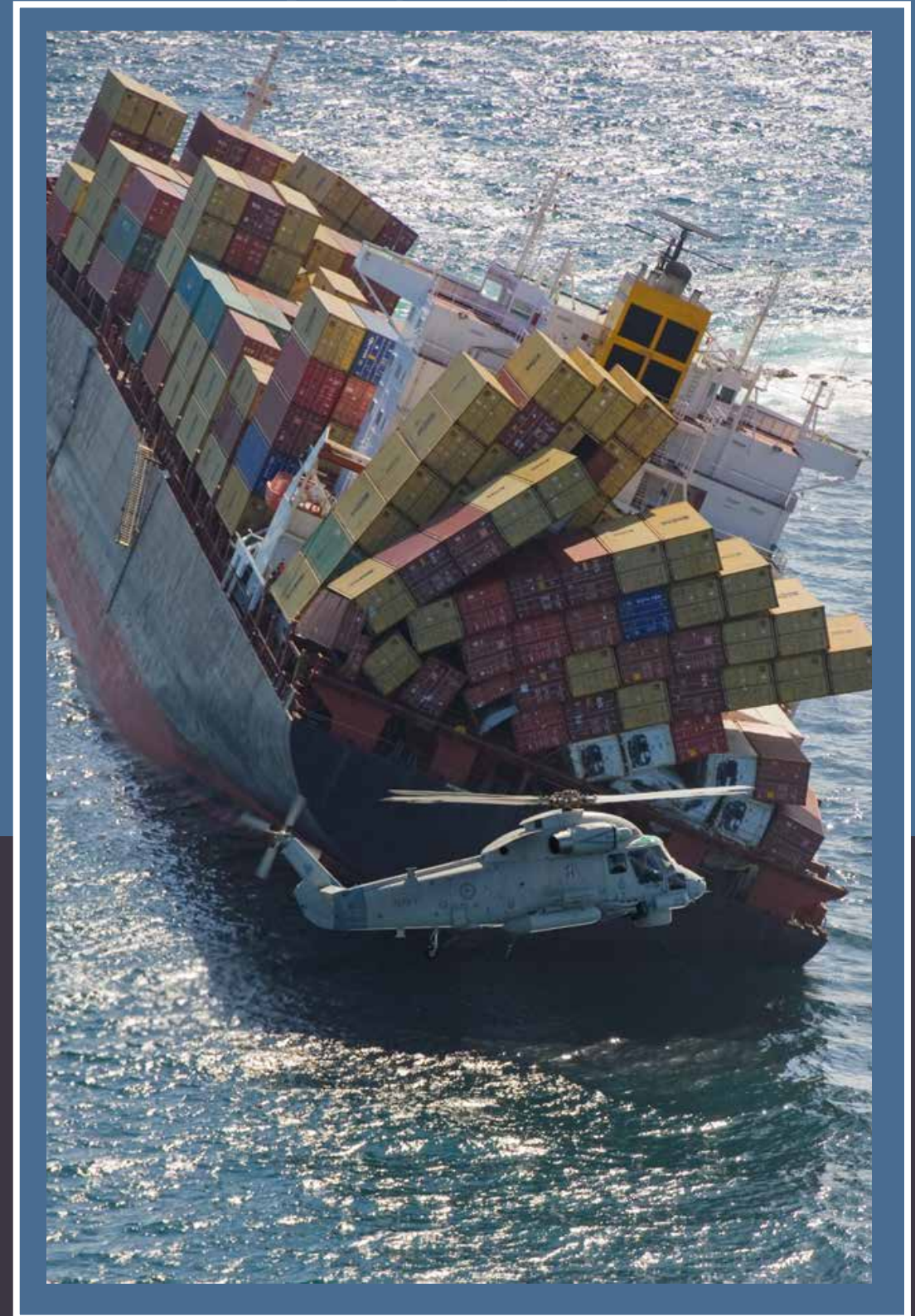
# CASE STUDY: MV RENANUEW ZEALAND

No aid to navigation marking the reef 2011

- Significant pollution
- Total clean up cost \$450 million -3X Costa Concordia
- Is there an aid to navigation there now?  
You bet there is!!

Others:

- Canada \$12 million – ATON moved off position
- United States - \$14 million -QE II grounding unmarked rock



# THREEPRONGED APPROACH ENHANCING ATONS

- Awareness: IMO/IALA standards
- Funding: IFAN – International Fund for Aids to Navigation
- Organization: Adolpha Maritime Group, Bahamas

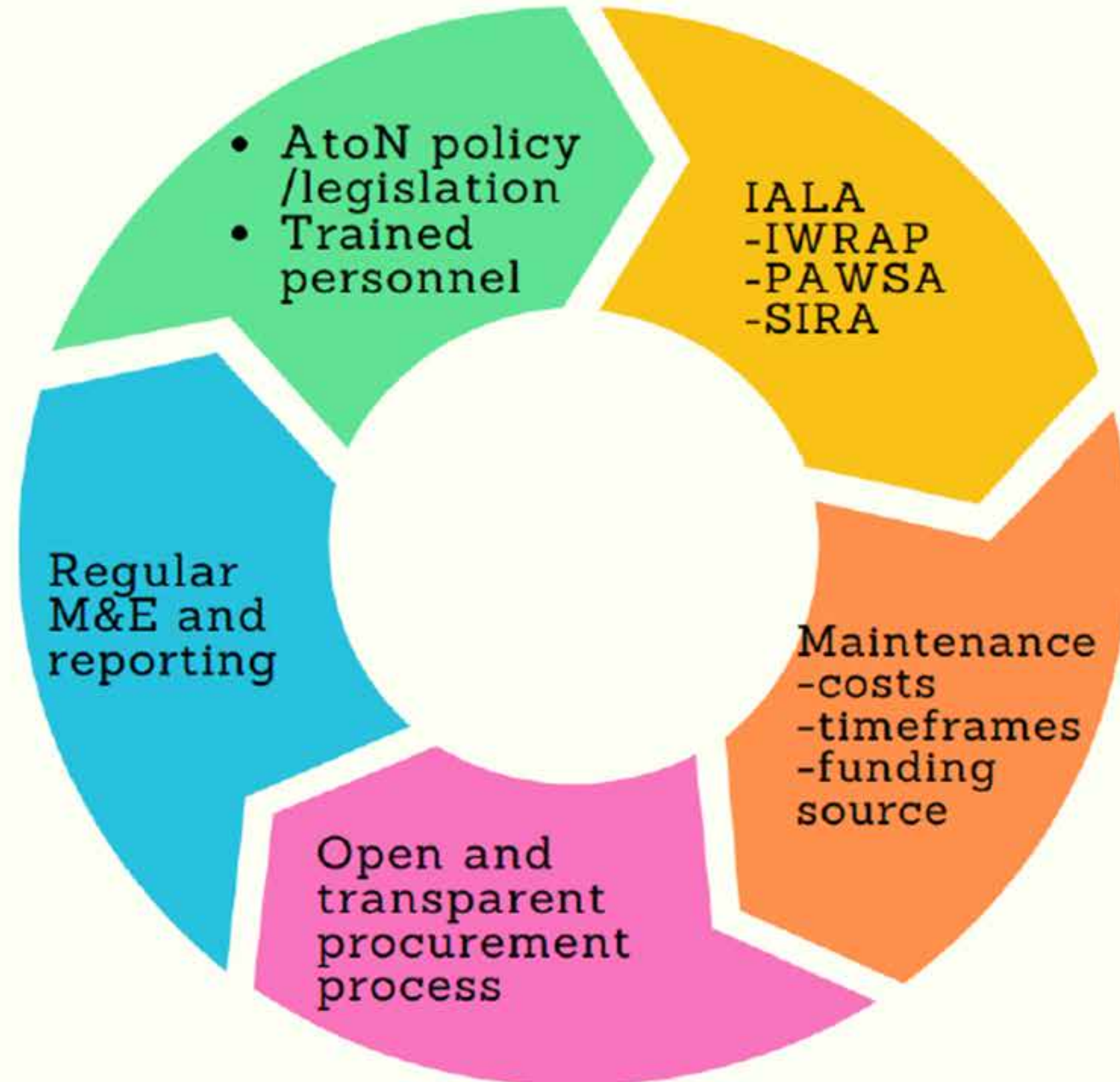
➤ *Awareness*

➤ *Funding*

➤ *Organization*



# Guidance for funding AtoN infrastructure(s)



# GOVERNANCE & FRAMEWORK

IFAN Recommendations /  
Adolpha Maritime Experience



## *IFAN Guidance:*

- IMO SOLAS Rules 5/12 aids to navigation
- National Authority on aids to navigation
- Legislation
- Organization
- Policies
  - Local
- IALA Recommendations

## *Adolpha Experience:*

- Worked with many authorities
- Recommended Legislation
- Helped develop ATON organizations
- Developed & Implemented Policies
- IALA Industrial Member
- Apart of IALA ATON Operations Committee



# PERSONNEL & TRAINING

IFAN Recommendations / Adolpha Maritime Experience



*Vietnam Aids to Navigation Officers*

*"The best course we have ever attended"*

## *IFAN Guidance:*

- Suitable Personnel
- Basic Entry Requirements - Career Path
- Experience Requirements
- Previous Training
- New Training - IALA Model Technical Training

## *Adolpha Experience:*

- Access experience of personnel
- Help recruit new staff
- Assist setting standards
- Review previous training
- Adolpha IALA Technical Course, Nov 10-14, Nassau Bahamas
- Contact for details

# SITE ASSESSMENT

IFAN Funding / Adolpha Maritime Experience



## *IFAN Funding:*

- At the request of the client, provide experienced IALA certified aids to navigation expert
- Physical surveys of individual aids to navigation sites, lights, buoys
- Local support -Boat/vehicle etc
- Use drone for photos
- Data assembly
- Cost estimates

## *Adolpha Experience:*

- Worked with over a dozen ATON agencies
- Three officers with decades of experience
- Conducted assessments in 10+ countries
- Hired local support crew
- Drones where landing sites difficult
- Individual assessment report for each site
- repair/replacement cost by region



# SIMPLIFIED RISK ASSESSMENT-IALA

IFAN Guidance / Adolpha Maritime Experience



## *IFAN Guidance:*

- SIRA Provides overall picture of existing aids to navigation
- Conduct the Simplified Risk Assessment of navigation safety
- An area designated by the client
- Stakeholder consultation -team approach
- All maritime risks analyzed Solutions proposed
- Use an experienced, IALA certified expert for this process

## *Adolpha Experience:*

- Developed and approved by IALA
- More than a dozen, 3 in the Caribbean
- Small Island or Archipelago – client call
- Held townhalls: stakeholders participation
- All Hazards identified, with stakeholder input
- Three certified and experienced experts



# RECOMMENDATIONS

IFAN Guidance / Adolpha Maritime Experience



## *IFAN Guidance:*

- Overview of navigation safety
- General and specific prioritized recommendations
- Rehabilitating existing aids to navigation
- Proposals for further improvements of navigation safety per IMO conventions (VTS)
- Specific equipment recommendations
- Costing
- Implementation plan

## *Adolpha Experience:*

- Completed the same for numerous SIRA worldwide
- Number of locations and types of ATONS
- Provided detailed plans for rehabilitation
- Hazard analysis - Adolpha suggested upgrades
- Adolpha staff world experts on VTS
- Adolpha recommends cost effective lights and buoys - Represented for industry top brands
- Several costing options to be provided
- Adolpha has provided and executed implementations

# PROCUREMENT

IFAN Guidance / Adolpha Maritime Experience



## *IFAN Guidance:*

- Develop specifications for lights, buoys structures
- Including Installation
- Issue professional requests for quotations
- For recommended equipment, lights, structures, buoys etc
- Implement selection criteria
- Work with the client to select and procure equipment.
- Develop contracts with Clients
- Ensure integrity of the process
- Delivery and acceptance inspections as required

## *Adolpha Experience:*

- Adolpha- Decades ATON specification development
- Staff experience worldwide with all types of ATONs
- RFQ experience from multi million to small equipment
- Adolpha hands on experience with all types of ATONs
- Worked with clients to develop selection criteria
- Always involved client in entire procurement process
- Assist client with contract implementation
- Transparency for all transactions
- Adolpha works with all the major ATON suppliers of ATONs

# INSTALLATION

IFAN Guidance / Adolpha Maritime Experience



## *IFAN Guidance:*

- Engage local contractors, boats, construction crews and technicians
- Manage installation of buoys, lights, structures and other accessories
- Include repair of existing structures, lighthouses etc
- Install and set up navigation lights and buoys



## *Adolpha Experience:*

- All Adolpha projects hire local contractors
- Team always on-site managing projects
- Major projects – special attention
- Adolpha provides technical expertise

# MONITORING & ASSET MANAGEMENT

IFAN Guidance / Adolpha Maritime Experience



## *IFAN Guidance:*

- Use a satellite monitoring system
- Monitored From a central Caribbean location
- Remotely monitor all selected aids to navigation
- System to immediately identify any discrepancies on a 24/7 basis
- Local maintenance technician informed
- Early restoration to normal service.
- Objective to have aids system reliability
- IALA recommendations 99.7% overall
- Record of all aids to navigation maintained
- Aids to navigation software program
- Provide IALA recommended detailed area reliability reports.
- Maintain regular maintenance program for all aids to navigation

## *Adolpha Experience:*

- Adolpha presently using iridium system
- High level of data security, access levels
- Client access through double passwords
- Adolpha system notifies 24/7
- Adolpha monitoring centre informs conditions - Fall 2025
- Service contactor – immediate standby
- Closely monitor reliability
- Goal to meet overall system reliability
- Operations centre manages all databases
- An exclusive ATON management tool (CARDINAL) Adolpha regional representative
- Reports by individual aid to entire system



# MAINTENANCE

IFAN Guidance / Adolpha Maritime Experience



## *IFAN Guidance:*

- All aids to navigation, lights structures, buoys, lighthouses
- Included in a formal maintenance program c/w budget
- Plan for upgrades, long term and VTS
- Clients will have available in country technical officers, trained by Adolpha to IALA standards
- Engaged on a part time basis to conduct routine maintenance and respond quickly to any discrepancies



## *Adolpha Experience:*

- Managed by our software program
- For each client authority
- Five-year plan Caribbean coordinated Revaluation every five years
- Local trained representative to respond

# SUMMARY

## IFANFinance Package I – 6-8 Months

- Governance and Policy Review
- Staff assessment and Training
- Adolpha Courses
- Aids to Navigation Assessments
- Physical site assessments
- By road, boat and drone
- Site reports

## IFANFinancing Package II:

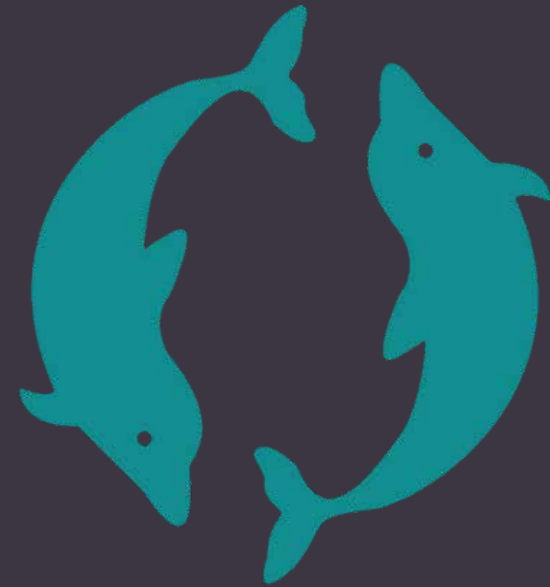
- Equipment specifications
- Selection and Criteria
- Procurement
- Installation
- Monitoring and Maintenance

## *Two Issues:*

➤ *Funding*      Solution IFAN – discuss - apply

➤ *Organizing & Implementation*      Solution Adolpha Maritime Group – Proposal PMAC ATON Authorities

# ADOLPHA MARITIME GROUP



Adolpha and Staff are Industrial Members of:

- IALA, International Association of Lighthouse Authorities
- PMAC, Port Management Association of the Caribbean
- APP Association of Pacific Ports
- PIANC Permanent International Association of Navigation Committees (Report) –“Infrastructure for Small Island Nation Ports - PIANC 2025”
- Company of Master Mariners
- FRIN Fellow of the Royal Institute of Navigation
- IMHA – International Harbor Masters’ Association

Note: Adolpha’s operational expertise is especially strong in Marine Safety including Aids to Navigation:

- Assessment
- Recommendations
- Procurement
- Installation
- Monitoring
- Maintenance and Marina Safety Assessments.
- Port Operational Manuals
- Small Craft Operator Training
- VTS assessment, Training and Implementation,
- Port Safety Training,
- Port State Control Training and Implementation
- Port ISPS Implementation



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**THANK YOU** →

Nous Pouvons Faire en francais