The Pacific Initiative

Expanding **the Horizon**

What is the PPTG doing in the Pacific?

www.pptg.org

PACIFIC PILOTS
TRAINING GROUP

ISPO

PORT OF AUCKLAND
TĀMAKI HERENGA WAKA

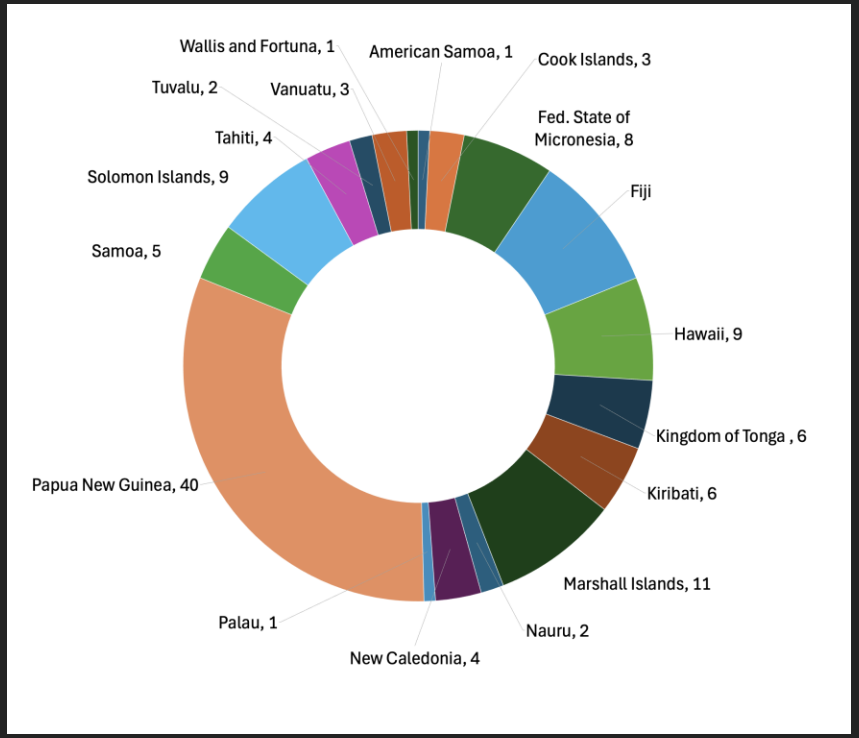
Contents

The ISPO Code

Objectives

- Quality Managed
  - High quality service, whilst protecting life and property
- Good Practice
  - Exisiting good pratcice (NZMPA)
- Framework
  - Auditable

Overview - Pacific Pilots




Tonga


Solomon Is


Fiji


Tokelau


Nauru


Niue


New Caledonia


Wallis & Fortuna


Samoa


Marshall Is


Cook Islands


Palau


Tuvalu


PNG


French Polynesia


Kiribati


Micronesia


Vanuatu


Mariana Is


American Samoa

The Vision

Our vision is to develop a maritime training and education framework that is base on a quality managed approached with passage planning, MPX/process, Navigation/PPU and post pilotage review at the core, for pilotage throughout the Pacific region.

To provide all Pacific nations with their own forum, conference, workshop and training opportunities, in their countries, within a sustainable model for now and into the future.

Who is the Pacific Pilot Training Group (PPTG)?

Five New Zealand and Australian Pilots that have been at the fore-front of professional pilotage, technology, risk assessment and training in their respective countries and internationally for the last 30 years

A Not for Profit (NFP) organisation set up to utilise over 125 years of industry experience and a willingness to give back to the industry directly via this Pacific Nations initiate.

Damian Laughlin

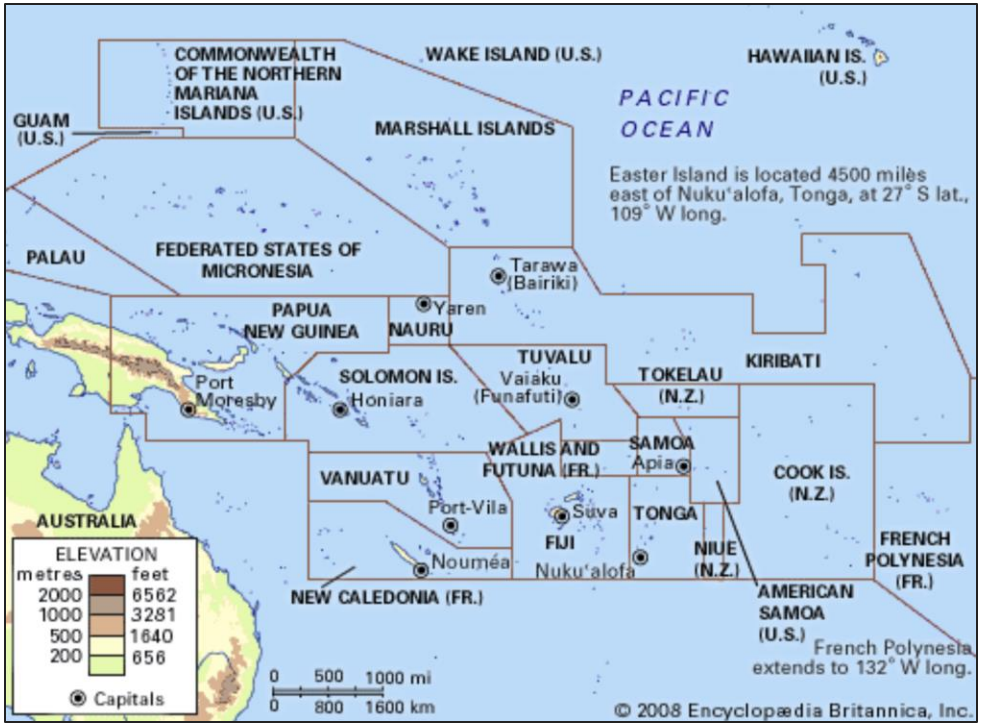
John Clarke

John Barker

Lew Henderson

Stephen Banks

Challenges



- 162 million km^2
- 1000's km of coral coastlines
- 100's of Ports

- Critical Maritime environment
- Poorly charted

- Important cruise industry destination
- Developing economic region

- Climate change threat
- Training challenges
- Logistic challenges
- Merchant vessel increasing in size

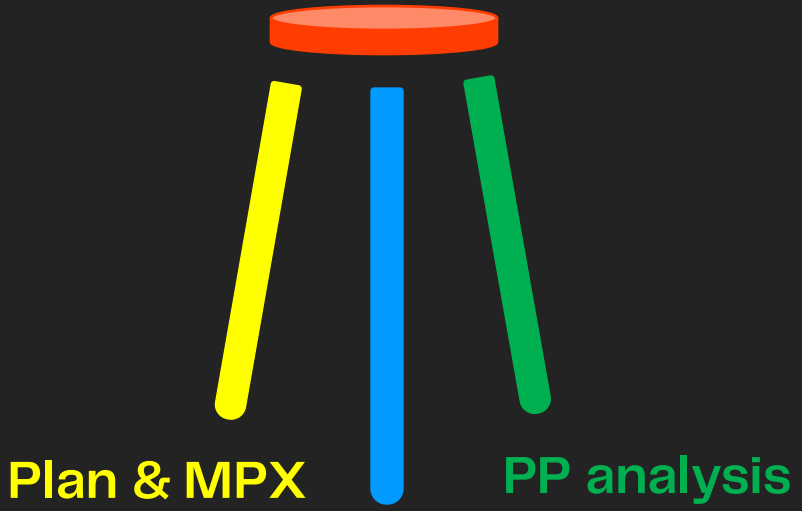
- Limited investment capital

The System

There are 3 critical components to a quality Pilot Service

1. Passage plan and MPX Documentation
2. High quality navigation (PPU)
3. Quality Assurance

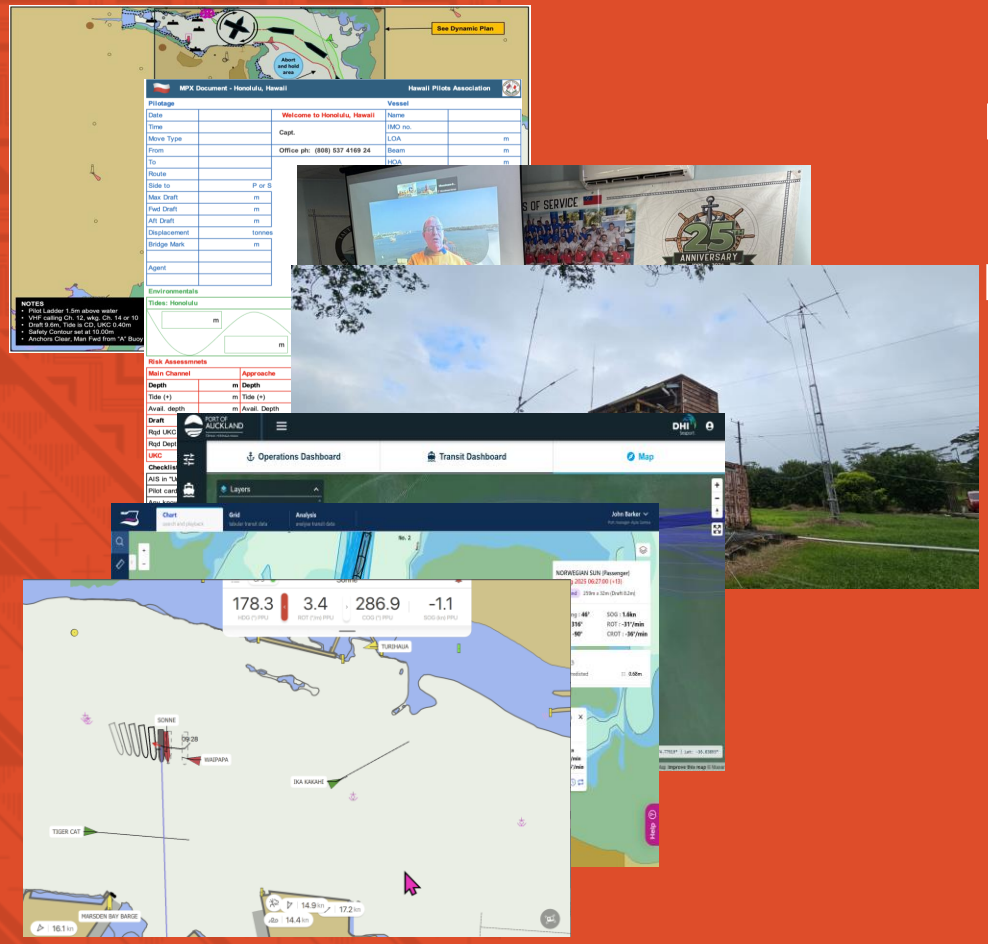
Quality Pilotage



The System

- Route development
- Passage plan development
- MPX delivery
- Navigation: PPU Monitoring
- Post Pilotage: TA and PA

The Programmes



Port specific passage planning

- Route, speed plan Best practice

Master Pilot Exchange training

- BRM and HF

PPU Up-Cycling

- Supported by Australasian PSP

AIS Base Station installations

- Provides vessels data for Post pilotage analysis

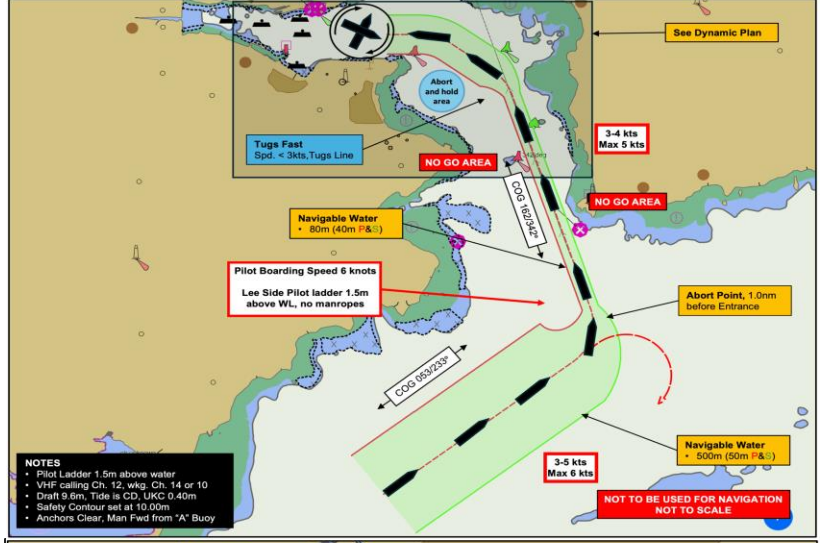
Post pilotage Analysis

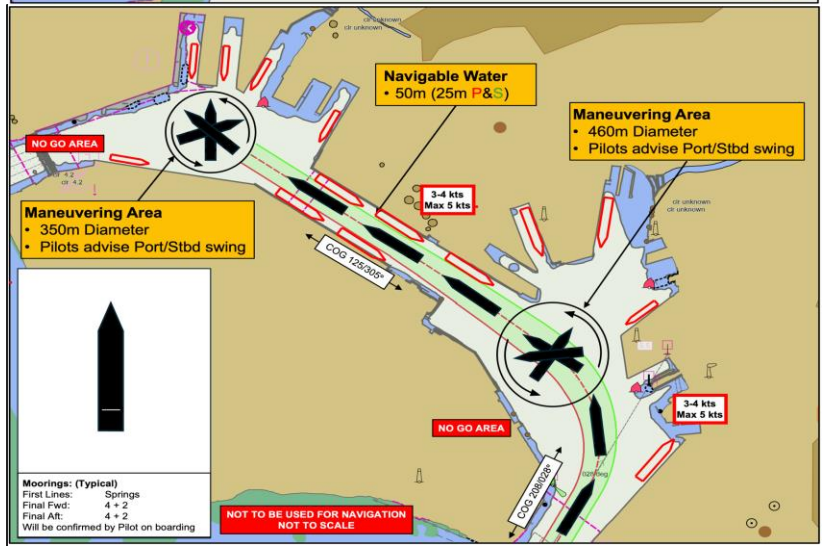
- Using Transit Analyst and Port Analytics & PPU playback

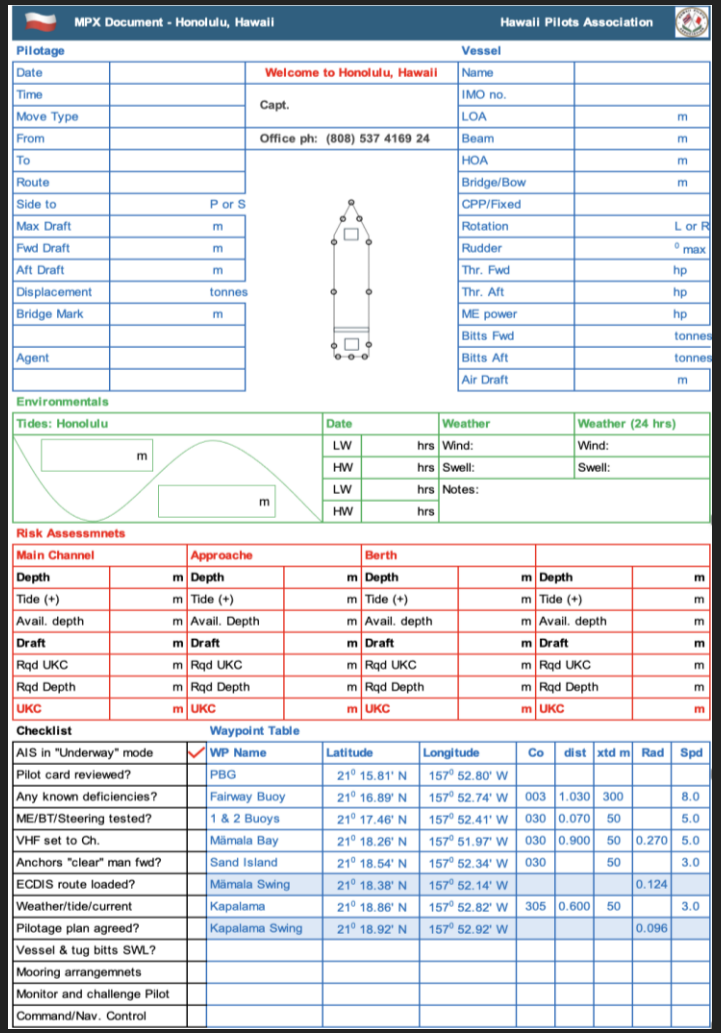
Passage Planning

Detailed passage plan for specific port:

- Courses
- No go area, waypoint
- Tug utilisation
- Pilot boarding details
- Mooring plans
- Speed plans
- Maneuvering areas
- Abort areas
- Commitment points
- Navigable water
- Reserve areas
- Wheel over positions
- Closest point of approach
- ROT
- COG and SOG
- 3 methods of Navigation







MPX Document - Honolulu, Hawaii — Hawaii Pilots Association

Pilotage

Date		Welcome to Honolulu, Hawaii	
Time		Capt.	
Move Type			
From		Office ph: (808) 537 4169 24	
To			
Route			
Side to	P or S		
Max Draft	m		
Fwd Draft	m		
Aft Draft	m		
Displacement	tonnes		
Bridge Mark	m		
Agent			

Vessel

Name	
IMO no.	
LOA	m
Beam	m
HOA	m
Bridge/Bow	m
CPP/Fixed	
Rotation	L or R
Rudder	° max
Thr. Fwd	hp
Thr. Aft	hp
ME power	hp
Bitts Fwd	tonnes
Bitts Aft	tonnes
Air Draft	m

Environmentals

Tides: Honolulu	Date		Weather	Weather (24 hrs)
m	LW	hrs	Wind:	Wind:
	HW	hrs	Swell:	Swell:
m	LW	hrs	Notes:	
	HW	hrs		

Risk Assessmnets

Main Channel		Approache		Berth			
Depth	**m**	**Depth**	**m**	**Depth**	**m**	**Depth**	**m**
Tide (+)	m	Tide (+)	m	Tide (+)	m	Tide (+)	m
Avail. depth	m	Avail. Depth	m	Avail. depth	m	Avail. depth	m
Draft	**m**	**Draft**	**m**	**Draft**	**m**	**Draft**	**m**
Rqd UKC	m	Rqd UKC	m	Rqd UKC	m	Rqd UKC	m
Rqd Depth	m	Rqd Depth	m	Rqd Depth	m	Rqd Depth	m
UKC	**m**	**UKC**	**m**	**UKC**	**m**	**UKC**	**m**

Checklist

AIS in "Underway" mode	✓
Pilot card reviewed?	
Any known deficiencies?	
ME/BT/Steering tested?	
VHF set to Ch.	
Anchors "clear" man fwd?	
ECDIS route loaded?	
Weather/tide/current	
Pilotage plan agreed?	
Vessel & tug bitts SWL?	
Mooring arrangemnets	
Monitor and challenge Pilot	
Command/Nav. Control	

Waypoint Table

WP Name	Latitude	Longitude	Co	dist	xtd m	Rad	Spd
PBG	21° 15.81' N	157° 52.80' W					
Fairway Buoy	21° 16.89' N	157° 52.74' W	003	1.030	300		8.0
1 & 2 Buoys	21° 17.46' N	157° 52.41' W	030	0.070	50		5.0
Māmala Bay	21° 18.26' N	157° 51.97' W	030	0.900	50	0.270	5.0
Sand Island	21° 18.54' N	157° 52.34' W	030		50		3.0
Māmala Swing	21° 18.38' N	157° 52.14' W				0.124	
Kapalama	21° 18.86' N	157° 52.82' W	305	0.600	50		3.0
Kapalama Swing	21° 18.92' N	157° 52.92' W				0.096	

Master Pilot Exchange

Detailed MPX documentation for each specific port:

1. Details pilotage movement
2. Vessels details
3. Tug utilisation
4. Environmental, wind, tide, currents
5. Checklist
6. Waypoint table
7. Pilots' details, name , license , contacts

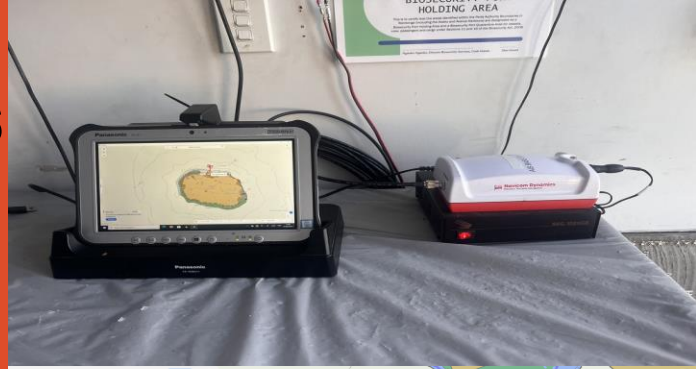
Portable Piloting Unit (PPU) Up-Cycling

This initiative by Port of Auckland in 2024, aims to up-cycle Australasian Ports PPU's, and after refurbishment redeploy to the Pacific Island Nations that have clear need. Tonga, Rarotonga and Samoa have already benefited from this program.

- Navicom Dynamics
- Port of Auckland
- OMC International
- Port Authority NSW
- QPS

AIS Base Station Installations

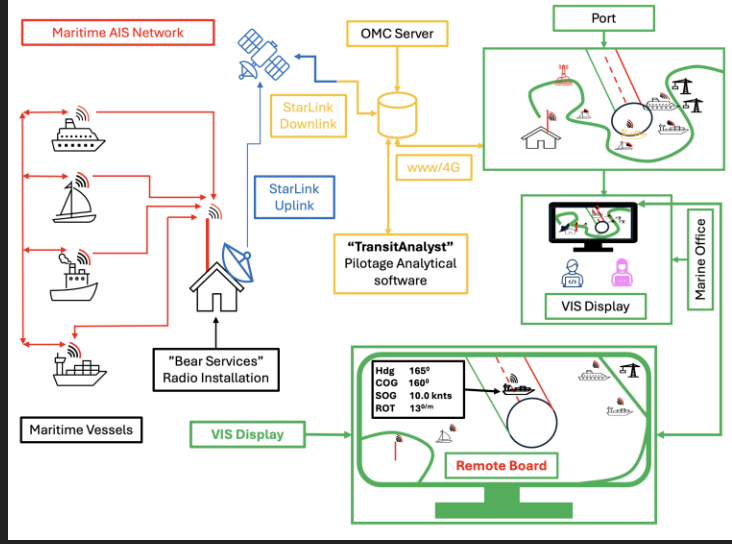
- MarineTraffic data delayed, inaccurate or not available.
- To maximise the power of Pilotage analytical tools, better data is required.
- Locally installed “AIS Base Stations”, are installed when required. Avatiu, Apia and Nuku’alofa.



VIS Display

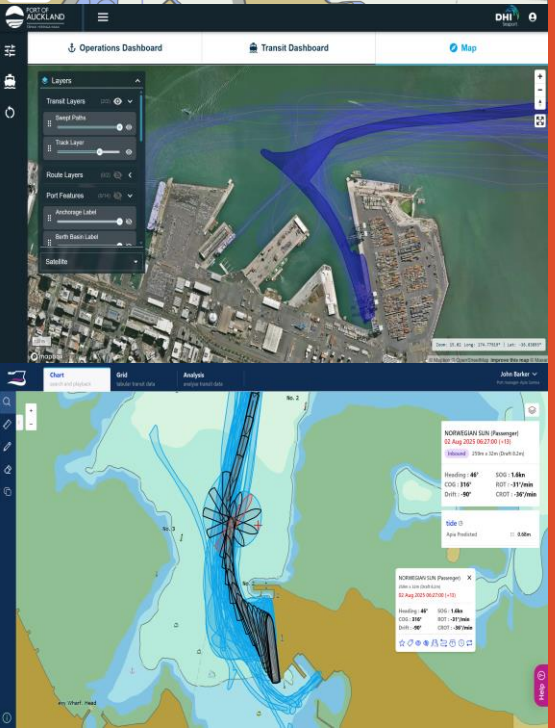
This initiative can provide the land based pilot, the opportunity to provide some degree of oversite of the Pilotage Operation during BAU or emergencies

- Leveraging off the AIS base Station
- Provides a 2nd instance of the PPU in real time in office or Tug
- Offered in Apia
- Tug/PPU Visualisation opportunity



Port of Auckland

OMC International

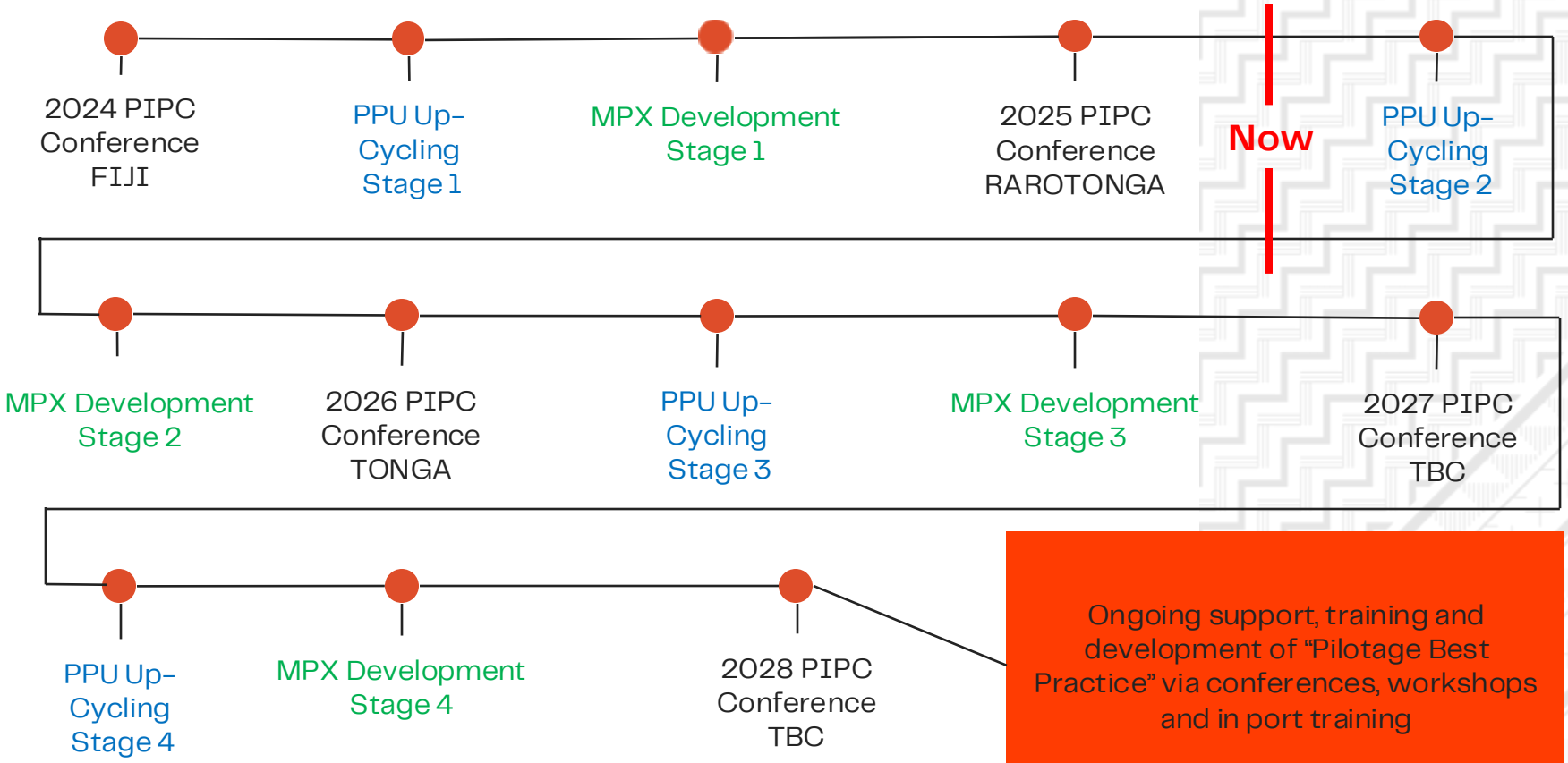


Post Pilotage Analyst

There are two way we train this:

- Individually, using the playback function of the PPU software
- Utilise Post Pilotage analytical software programs. eg: OMC's, Transit Analysis, DHI's, Port Analytics.

The Future – Strategic Roadmap 2024 to 2028



Thanks

Ngā mihi nui

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