



NAPA SAFETY SUMMIT 2026

SAFETY · EFFICIENCY · AUTOMATION

NAPA AI Roadmap

Presenters



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Agenda

Introduction

- General about utilizing AI at NAPA

Selected demos

- NAPA Fleet Intelligence Permit to Work module
- NAPA Fleet Intelligence data analyzer (under development)

Roadmap

- What is coming next
- What is under evaluations

01

AI at NAPA



31.3.2026

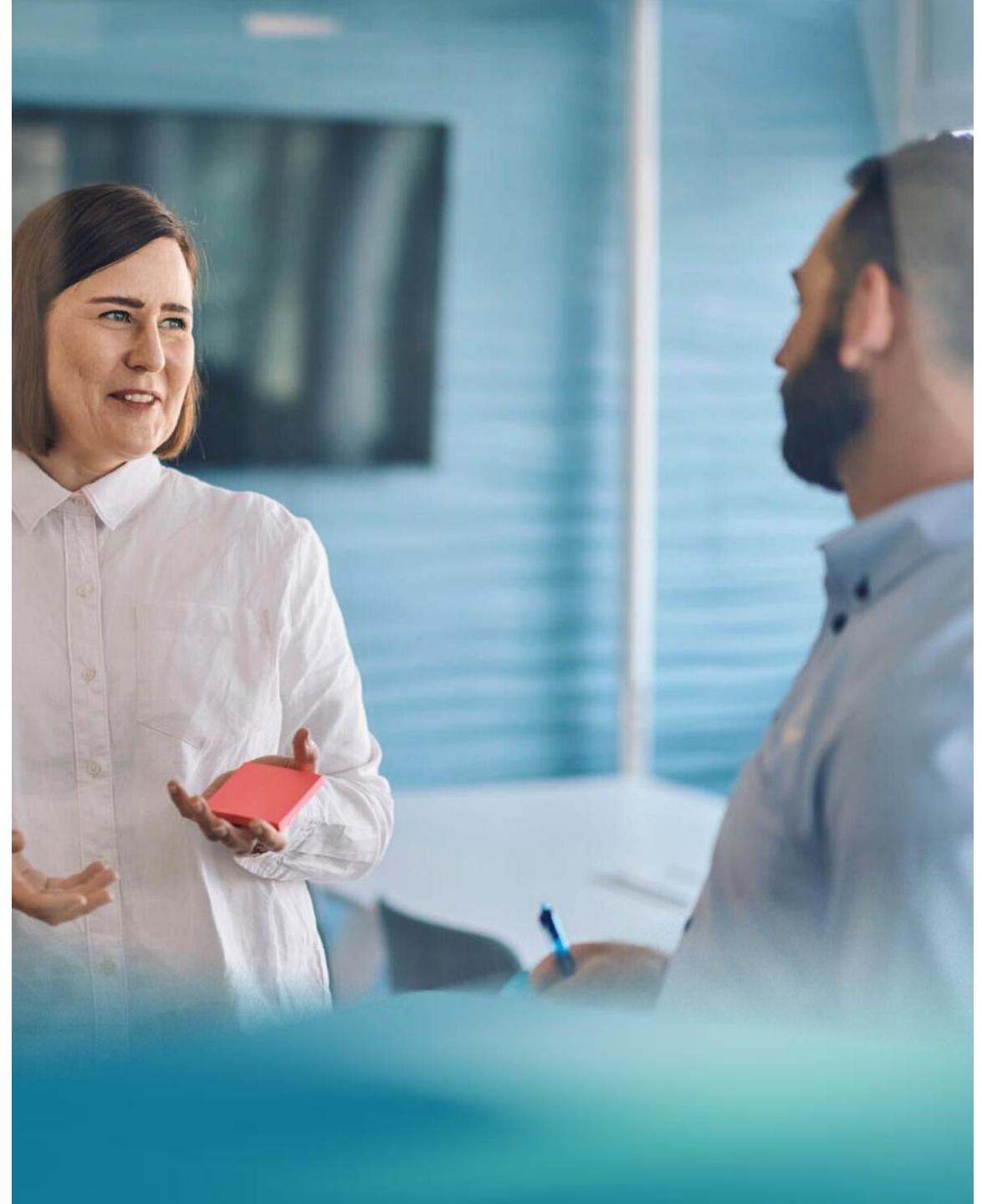
How NAPA is approaching the implementation of AI?

01.

Development of the in-house tools and processes.

- AI-assisted software development, configuration management, service desk
- These are relatively fast to implement and can be easily refined and iterated.

→ The customers will see the impact indirectly in terms of faster development, better customer service and overall better quality of NAPA's services



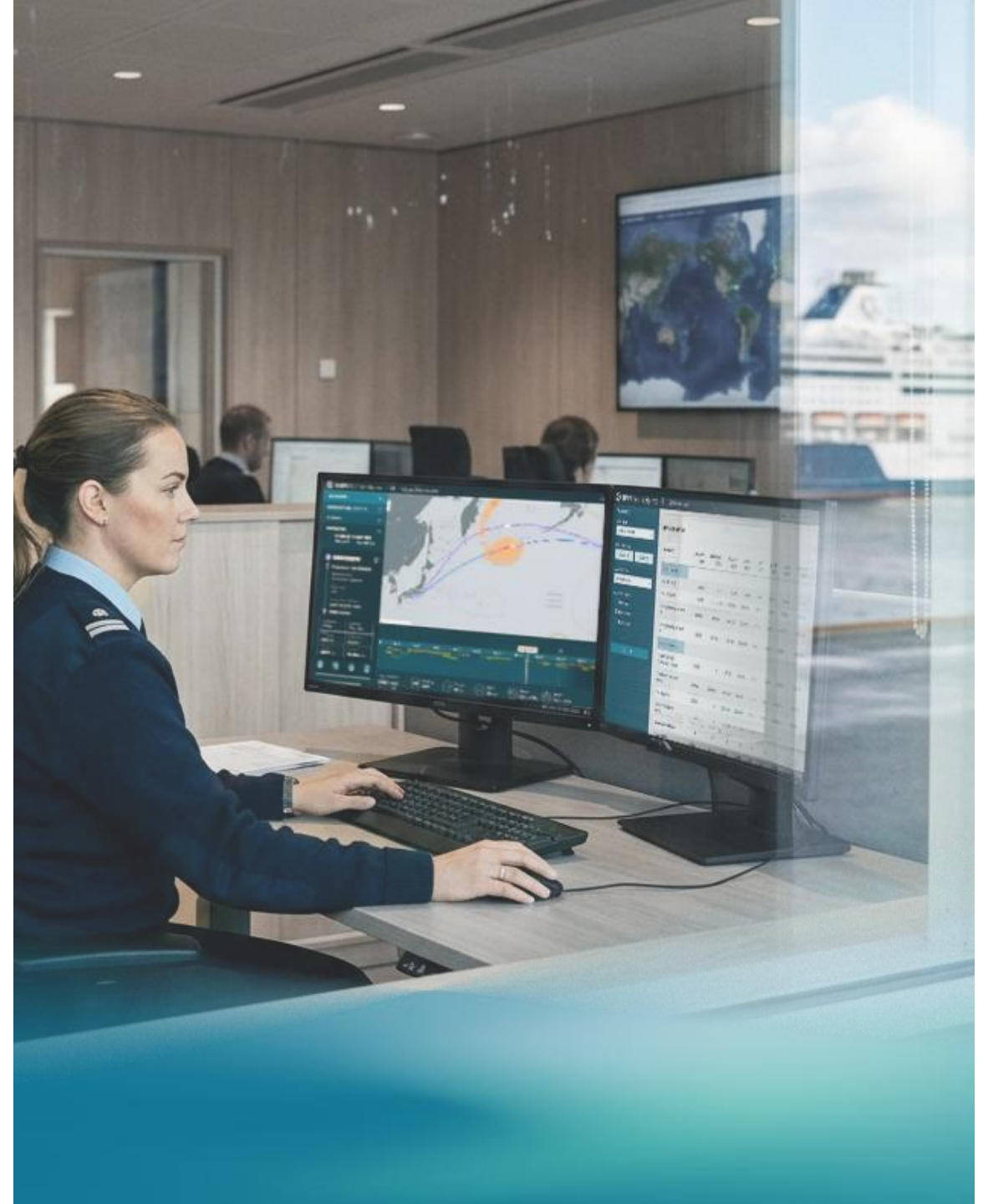
How NAPA is approaching the implementation of AI?

02.

Value adding features into the products.

- Aim: Help users to complete tasks faster and with less effort, by avoiding mistakes and improving quality and safety of operations
- These are slower to implement and may generate running costs
- Maintenance in ship environment is more complex than on shoreside
- Implementation on cloud is easier, faster and cheaper.

→ The features must be selected carefully, based on evaluated user need.
→ Focus is first in shoreside (cloud) use cases, next onboard.



02

Demo of selected
highlights



31.3.2026

Live Demos

NAPA Fleet
Intelligence
Permit to Work
module

NAPA Fleet
Intelligence data
analyzer
(under development)




List view **Dashboard**

SEARCH 

AUTHORIZER

All authorizer selected 

Status

All status selected 

Contains

MY REPORTS 

 Demo Dashboard

 Alex Demo 

 Demo 


 Demo Razvan 

 Large Dashboard 



 Test dashboard 1 

 Testi 2 

Prompt Preview

Budget used 0.07 / 9.99

Renews on 01 Apr 2026

Aye aye Team. What should we dive into today?

 INSTRUCTIONS 

Pie chart showing statuses across all ships.

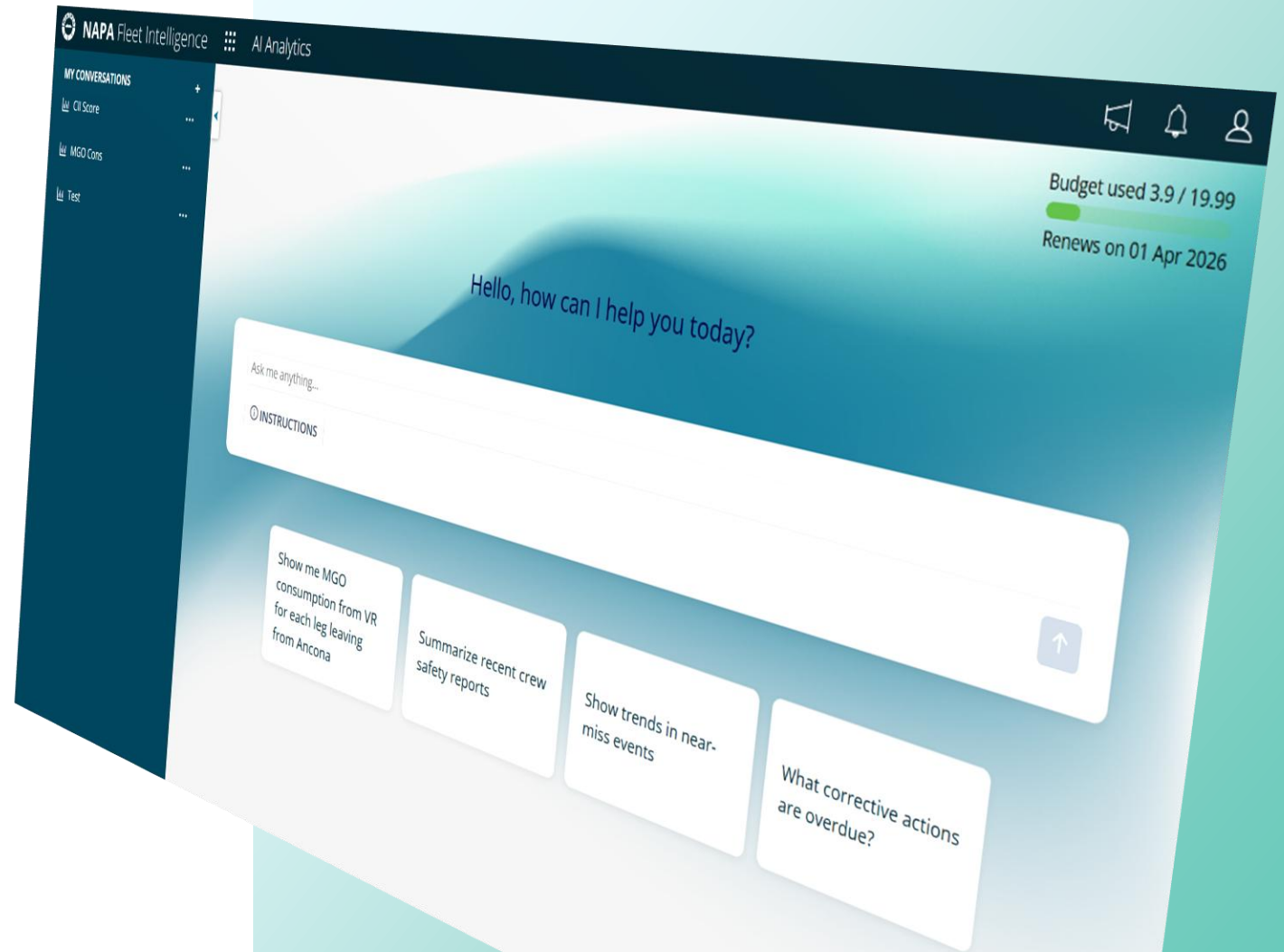
Pie chart showing decks.








Line chart comparing the number of permits for each authorizer, for each month in 2025.

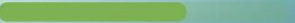
Show a column chart of PTW count per ship.

Fleet Intelligence AI Analytics

- Built on AWS Bedrock using Claude as the language model
- Users ask questions in natural language
- System identifies relevant measures based on the request
- Measure preferences configurable per tenant (e.g. automation vs. VR)
- Fetches requested measures; suggests related ones for deeper insights
- Creates an analysis plan for user confirmation before execution
- Runs Python analysis on real data and returns AI-interpreted results
- Generate AI-recommended charts based on analysis output
- Supports follow-ups, refinements, and interpretation within one session





- MY CONVERSATIONS** +
-  Avg leg duration ...
-  CII Score ...
-  Engine Performance ...
-  FW per passenger ...
-  FW Trends ...
-  MGO Cons ...
-  Same Leg test ...

Budget used 12.95 / 19.99

Renews on 01 Apr 2026

Hello, how can I help you today?

Ask me anything...

 INSTRUCTIONS



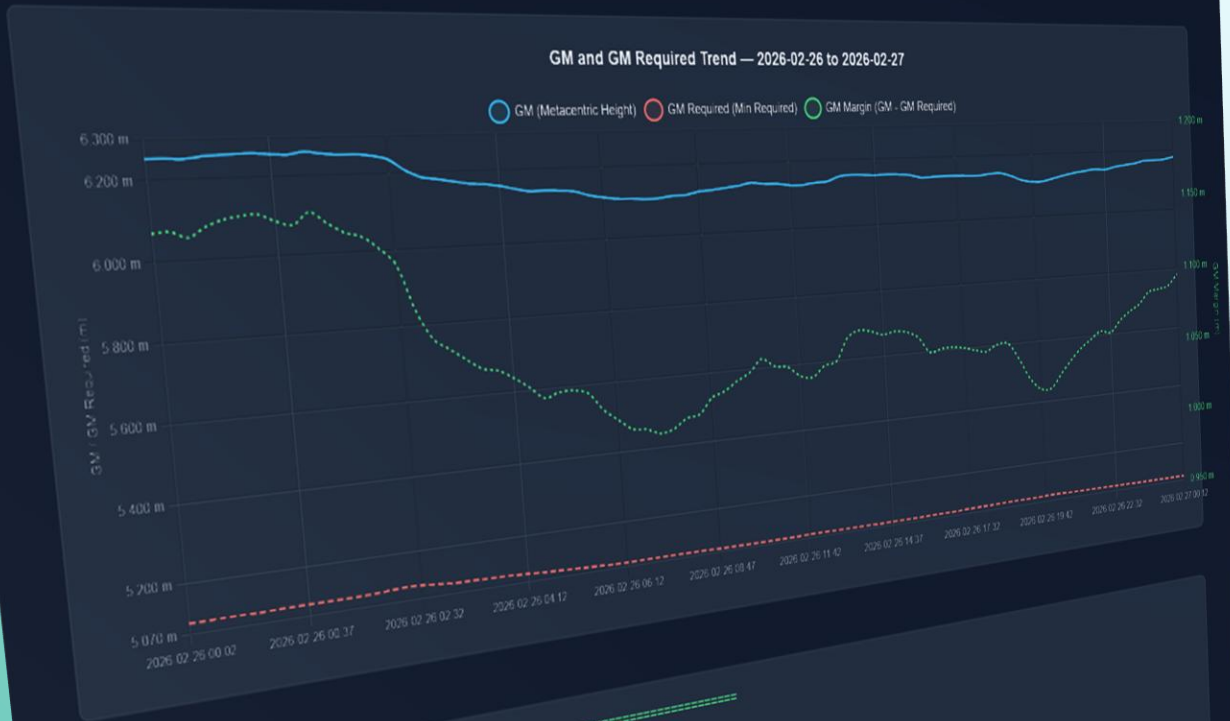
- Show me MGO consumption from VR for each leg leaving from Ancona
- Show me LSFO consumption from VR for each voyage arriving in Montego Bay
- Show me the average duration for each identical leg
- Show me the average MGO consumption per passenger for each voyage

Fleet Intelligence AI Analytics

Napa Data Analysis

QUERY
analyze the gm and gmrequired trend

CHART



EXECUTION RESULT

GM AND GM REQUIRED TREND ANALYSIS

Snapshot-by-Snapshot GM / GMRequired:

	DateTime	Gm	GmRequired	GmMargin	GmCorrection	Hg	HgRequired	Status
0	2026-02-26 00:02:53.481155+00:00	6.251515	5.098364	1.1532	-0.382363	23.678672	28.777836	OK
1	2026-02-26 00:07:53.496917+00:00	6.252262	5.098345	1.1539	-0.381611	23.677899	28.776244	OK
	2026-02-26 00:12:53.498046+00:00	6.249275	5.098658	1.1506	-0.380867	23.678484	28.777142	OK
	2026-02-26 00:17:53.498208+00:00	6.254422	5.098812	1.1556	-0.381076	23.672424	28.771236	OK
	2026-02-26 00:22:00+00:00	6.257179	5.098419	1.1588	-0.382825	23.672853	28.771271	OK
		6.259083	5.098805	1.1603	-0.382797	23.667928	28.766725	OK
			5.099274	1.1569	-0.383121	23.662296	28.759881	OK
					-0.383360	23.660821	28.752944	OK
					-0.382283	23.652124	28.752944	OK
						23.652835	28.756224	OK

- Work has started to use AI to analyze **Stability data**.
- Same approach to AI as with the Automation and Voyage report data analyzes.
- Will be co-develop together with clients iteratively. Let us know if you are interested to be in the loop.

03

Roadmap



31.3.2026

Roadmap

SHORESIDE

- AI-powered Customer Service process
- AI data analyzer integrated to NAPA Fleet Intelligence
- Anomaly detection for NAPA Logbook and NAPA Voyage Report data (phase I)

ONBOARD

- Anomaly detection for NAPA Logbook, Permit to Work and NAPA Voyage Reporting data (phase II)
- AI-assisted cargo loading in NAPA Stability
- Speech recognition for NAPA Checklist / NAPA Logbook use (PoC with one customer ongoing)



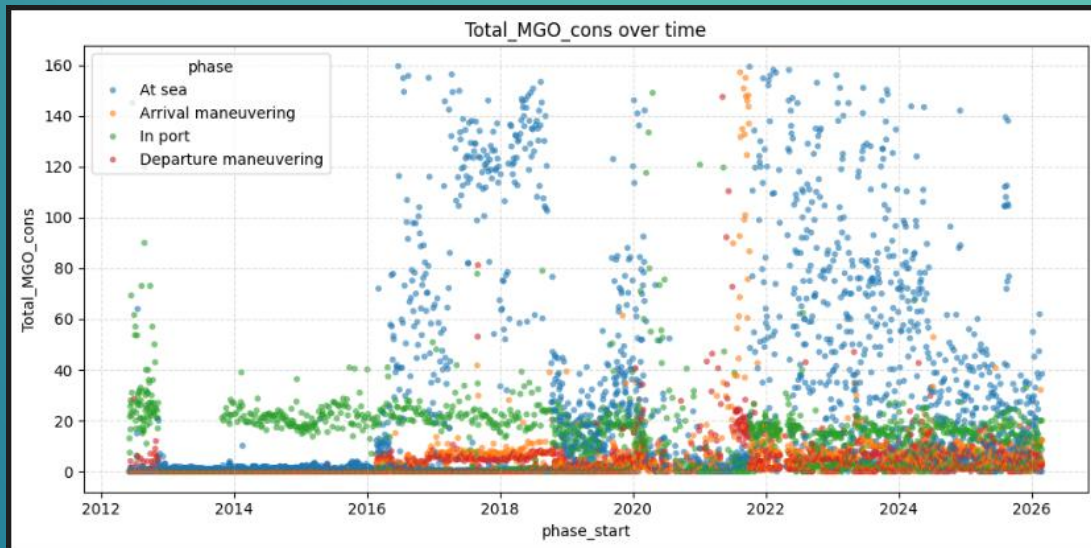
31.3.2026

NAPA Voyage Reporting

Building AI model for VR data

We are now researching and applying AI/ML model for cruise ships operational data, with emphasis on anomaly detection, forecasting and data quality challenges across differently configured vessels.

Exploring how operational VR data and contextual data (such as weather and passenger counts) can be used in scalable AI models.



NAPA Stability



31.3.2026

AI-assisted cargo loading to support faster planning



31.3.2026

NAPA Stability Cargo Planner - 20260319-1514... 2026-03-19 09:58 UTC

Close Window Cargo Unit Types

Empty ship

Cargo booking list

Run automatic cargo planning

Bookings										DELETE ALL	IMPORT...
UNIT TYPE	DESCRIPTION	LENGTH	WEIGHT	HEIGHT	WIDTH	LONGIT. ...	TRANSV. ...	BOOK	LOAD		
BT	Box truck	8.00 m	6.00 t	4.00 m	2.60 m	0.10 m	0.00 m	23	0	23	
BUL	Bulk	6.00 m	5.00 t	4.00 m	2.60 m	0.10 m	0.00 m	52	0	52	
BUS	Bus	12.00 m	1.00 t	4.00 m	2.60 m	0.10 m	0.00 m	15	0	15	
CAR	Car	5.00 m	0.50 t	2.50 m	2.00 m	0.10 m	0.00 m	234	0	234	
MO	Moto	3.00 m	0.30 t	1.50 m	2.60 m	0.10 m	0.00 m	7	0	7	
LO	Lorry / pickup	6.00 m	1.50 t	4.00 m	2.60 m	0.10 m	0.00 m	8	0	8	
ST	Semi	12.00 m	10.00 t	4.00 m	2.60 m	0.10 m	0.00 m	27	0	27	
TRU	Single truck	10.00 m	9.00 t	4.00 m	2.60 m	0.10 m	0.00 m	15	0	15	
SUV	SUV	6.00 m	0.90 t	2.50 m	2.60 m	0.10 m	0.00 m	54	0	54	
TRA	Tractor	6.00 m	1.00 t	3.00 m	2.60 m	0.10 m	0.00 m	1	0	1	
TT	Tractor & trailer	16.00 m	40.00 t	4.00 m	2.60 m	0.10 m	0.00 m	13	0	13	
Totals								475	0	475	

Cargo plan

UNIT TYPE	DESCRIPTION	TOTAL	1.DECK	3.DECK	4.DECK	5.DECK	7.DECK	METERS	WEIGHT
All Units		0						0.00 m	0.00 t

UNLOAD ALL

Floating position				Weight (surveyed 2026-03-06 13:13:30 UTC)			Stability (calculated 2026-03-19 15:13:57 UTC)			Longitudinal Strength									
Density	1.025 t/m ³	At marks extreme	6.10	DW	9961 t	UnkDWT	8.13 %	Disp	29445 t	GMf	4.03 m	GMreq	2.10 m	GMcorr	-0.41 m	BMmax	78 %	SFmax	91 %
			6.10	Trim	A 0.00 m											Frame #5		Frame #41	

NAPA Stability Cargo Planner - 20260319-1514...
2026-03-20 13:45 UTC

Close Window
 Cargo Unit Types

7.DECK
 5.DECK

Suggested
cargo
loading
plan

Bookings **All Cargo** Dangerous Goods

Bookings

UNIT TYPE	DESCRIPTION	LENGTH	WEIGHT	HEIGHT	WIDTH	LONGIT.	TRANSV.	BOOK	LOAD	LEFT
CAR	Car	5.00 m	0.50 t	2.50 m	2.00 m	0.10 m	0.00 m	234	234	0
TT	Tractor & trailer	16.00 m	40.00 t	4.00 m	2.60 m	0.10 m	0.00 m	13	13	0
MO	Moto	3.00 m	0.30 t	1.50 m	2.60 m	0.10 m	0.00 m	7	7	0
TRU	Single truck	10.00 m	9.00 t	4.00 m	2.60 m	0.10 m	0.00 m	5	5	0
BUL	Bulk	6.00 m	5.00 t	4.00 m	2.60 m	0.10 m	0.00 m	42	42	0
SUV	SUV	6.00 m	0.90 t	2.50 m	2.60 m	0.10 m	0.00 m	54	54	0
ST	Semi	12.00 m	10.00 t	4.00 m	2.60 m	0.10 m	0.00 m	27	27	0
TRA	Tractor	6.00 m	1.00 t	3.00 m	2.60 m	0.10 m	0.00 m	1	1	0
BT	Box truck	8.00 m	6.00 t	4.00 m	2.60 m	0.10 m	0.00 m	23	23	0
Totals								421	421	0

Cargo plan

BUS	Bus	15	0	0	0	15	0	180.00 m	15.00 t
LO	Lorry / pickup	8	0	0	0	8	0	48.00 m	12.00 t
CAR	Car	234	0	121	0	113	0	1170.00 m	117.00 t
TT	Tractor & trailer	13	0	13	0	0	0	208.00 m	520.00 t
MO	Moto	7	0	7	0	0	0	21.00 m	2.10 t
TRU	Single truck	5	0	5	0	0	0	50.00 m	45.00 t
BUL	Bulk	42	0	40	0	2	0	252.00 m	210.00 t
SUV	SUV	54	0	0	0	46	8	324.00 m	48.60 t
ST	Semi	27	0	0	0	14	13	324.00 m	270.00 t
BT	Box truck	23	23	0	0	0	0	184.00 m	138.00 t
TRA	Tractor	1	1	0	0	0	0	6.00 m	1.00 t
All Units		429	24	186	0	198	21	2767.00 m	1378.70 t

Floating position				Weight (surveyed 2026-03-06 13:13:30 UTC)			Stability (calculated 2026-03-20 13:54:52 UTC)			Longitudinal Strength															
Density	1.025 t/m ³	6.10	At marks extreme	Trim	F 0.00 m	Heel	0.00°	Deflection	0.00 m	DW	9960 t	UnkDWT	8.13 %	Disp	29445 t	GMf	4.02 m	GMreq	2.10 m	GMcorr	-0.41 m	BMmax	78 %	SFmax	91 %
		6.10																				Frame #5		Frame #41	



31.3.2026

NAPA Logbook

Speech recognition for NAPA Logbook



31.3.2026

“LOGBOOK,
Pilot
onboard”

NAPA Logbook CREATE ENTRY Filter entries Vihavainen, Tommi (1st Officer) IronMan 3

ALL LOGBOOKS Drafts Mar 19

CATEGORIES LOGGED BY STATUS

Today, Mar 19, 2026 (14)

TIME	NAME	SUMMARY	LOGGED BY
10:00	Course & Pos fix	Course 241.50 °, lat 54° 25.859' N, lon 048° 42.085' E	Vihavainen, Tommi (1st Offi...)
09:12	Boiler started	Boiler started	Sailor, John (1st Officer)
09:12	GMDSS Daily Test	Daily GMDSS test carried out, remarks: none	Sailor, John (1st Officer)
09:11	Drills	Fire drill carried out	Vihavainen, Tommi (1st Offi...)
09:05	★ Pilot on board	Pilot Captain Harry on board. (lat 63° 01.521' N, lon 028° ...	Sailor, John (1st Officer)
08:00	★ Start of watch	Watch started: Officer Vihavainen, Tommi (1st Officer)	Sailor, John (1st Officer)
08:00	★ End of watch	Watch ended. Officer Sailor, John (1st Officer). (lat 60° 0...	Sailor, John (1st Officer)
08:00	Course & Pos fix	Course 220.50 °, lat 60° 09.634' N, lon 042° 58.310' E	Sailor, John (1st Officer)
06:00	Course & Pos fix	Course 243.50 °, lat 65° 53.409' N, lon 042° 58.310' E	Sailor, John (1st Officer)
04:00	★ Start of watch	Watch started: Officer Sailor, John (1st Officer)	Sailor, John (1st Officer)
04:00	Course & Pos fix	Course 267.00 °, lat 63° 01.521' N, lon 045° 50.197' E	Sailor, John (1st Officer)
04:00	★ End of watch	Watch ended. Officer Vihavainen, Tommi (1st Officer). (la...	Sailor, John (1st Officer)
02:00	Course & Pos fix	Course 291.50 °, lat 65° 53.409' N, lon 048° 42.085' E	Sailor, John (1st Officer)
00:00	Course & Pos fix	Course 286.00 °, lat 63° 01.521' N, lon 040° 06.423' E	Sailor, John (1st Officer)

Voice command ON

Ongoing Tasks (3)

TIME	NAME	SUMMARY	BOOK	CATEGORY	LOGGED BY
17:54 Feb 25	(I) Overboard valve se...	Overboard valve 33 fr...	Oil Record Book Part I	I	Vihavainen, Tommi (1...
09:38 Feb 25	(I) Overboard valve se...	Overboard valve 35 fr...	Oil Record Book Part I	I	Vihavainen, Tommi (1...
06:37 Feb 25	Work permit open	Permit for Hot work in...	Deck Logbook, Engine Lo...	Miscellaneous	Vihavainen, Tommi (1...

SOG 21.7 kn COG 241.5° LAT 54° 25.859' N LONG 048° 42.085' E TIME AND DATE Mar 19, 2026 10:00 UTC+1 GPS

Course & Pos fix
COMPLETED DECK LOGBOOK
Course 241.50 °, lat 54° 25.859' N, lon 048° 42.085' E

Mar 19, 2026 10:00 UTC+1
(2) Vihavainen, Tommi (1st Officer)

Values now

ENTRY TIME
10:00 19 Mar 2026 UTC+1

LATITUDE 54° 25.859' N LONGITUDE 048° 42.085' E

SPEED OVER GROUND 21.67 kn SPEED THROUGH WATER 0.39 kn

COURSE OVER GROUND 241.50 ° HEADING TRUE 247.50 °

COURSE REMARKS
-

Since previous entry

DURATION 2.00 h AVG. SOG 21.32 kn

DISTANCE 42.64 NM

REMARKS
-

Attachments (0)

Speech recognition for NAPA Logbook



31.3.2026

NAPA Logbook CREATE ENTRY Filter entries Vihavainen, Tommi (1st Officer) IronMan 3

ALL LOGBOOKS Drafts Mar 19

CATEGORIES LOGGED BY STATUS

Today, Mar 19, 2026 (15)

TIME	NAME	SUMMARY	LOGGED BY
10:03	★ Pilot on board	Pilot on board. (lat 57° 17.747' N, lon 028° 38.873' E)	Vihavainen, Tommi (1st Offi...
10:00	Course & Pos fix	Course 241.50 °, lat 54° 25.859' N, lon 048° 42.085' E	Vihavainen, Tommi (1st Offi...
09:12	Boiler started	Boiler started	Sailor, John (1st Officer)
09:12	GMDSS Daily Test	Daily GMDSS test carried out, remarks: none	Sailor, John (1st Officer)
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08:00	Course & Pos fix	Course 220.50 °, lat 60° 09.634' N, lon 042° 58.310' E	Sailor, John (1st Officer)
06:00	Course & Pos fix	Course 243.50 °, lat 65° 53.409' N, lon 042° 58.310' E	Sailor, John (1st Officer)
04:00	★ Start of watch	Watch started: Officer Sailor, John (1st Officer)	Sailor, John (1st Officer)
04:00	Course & Pos fix	Course 267.00 °, lat 63° 01.521' N, lon 045° 50.197' E	Sailor, John (1st Officer)
04:00	★ End of watch	Watch ended. Officer Vihavainen, Tommi (1st Officer). (la...	Sailor, John (1st Officer)
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Ongoing Tasks (3)

TIME	NAME	SUMMARY	BOOK	CATEGORY	LOGGED BY
17:54 Feb 25	(I) Overboard valve se...	Overboard valve 33 fr...	Oil Record Book Part I	I	Vihavainen, Tommi (1...
09:38 Feb 25	(I) Overboard valve se...	Overboard valve 35 fr...	Oil Record Book Part I	I	Vihavainen, Tommi (1...
06:37 Feb 25	Work permit open	Permit for Hot work in...	Deck Logbook, Engine Lo...	Miscellaneous	Vihavainen, Tommi (1...

SOG 20.4 kn COG 285.0° LAT 57° 17.747' N LONG 028° 38.873' E TIME AND DATE Mar 19, 2026 10:03 UTC+1 GPS

Pilot on board DRAFT DECK LOGBOOK

Pilot on board. (lat 57° 17.747' N

COMPLETE

Mar 19, 2026 10:03 UTC+1
(1) Vihavainen, Tommi (1st Officer)

Page 1

ENTRY TIME
10:03 19 Mar 2026 UTC+1

LATITUDE 57° 17.747' N LONGITUDE 028° 38.873' E

NAME
-

REMARKS
-

Attachments (0)

DRAFT entry Pilot on board created

Same technology to be applied for Checklists

Thank you!

Give feedback

Scan QR code and rate the session you just attended so we can improve the event in real time. It takes ~10 seconds.

