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TECHNOLOGIES

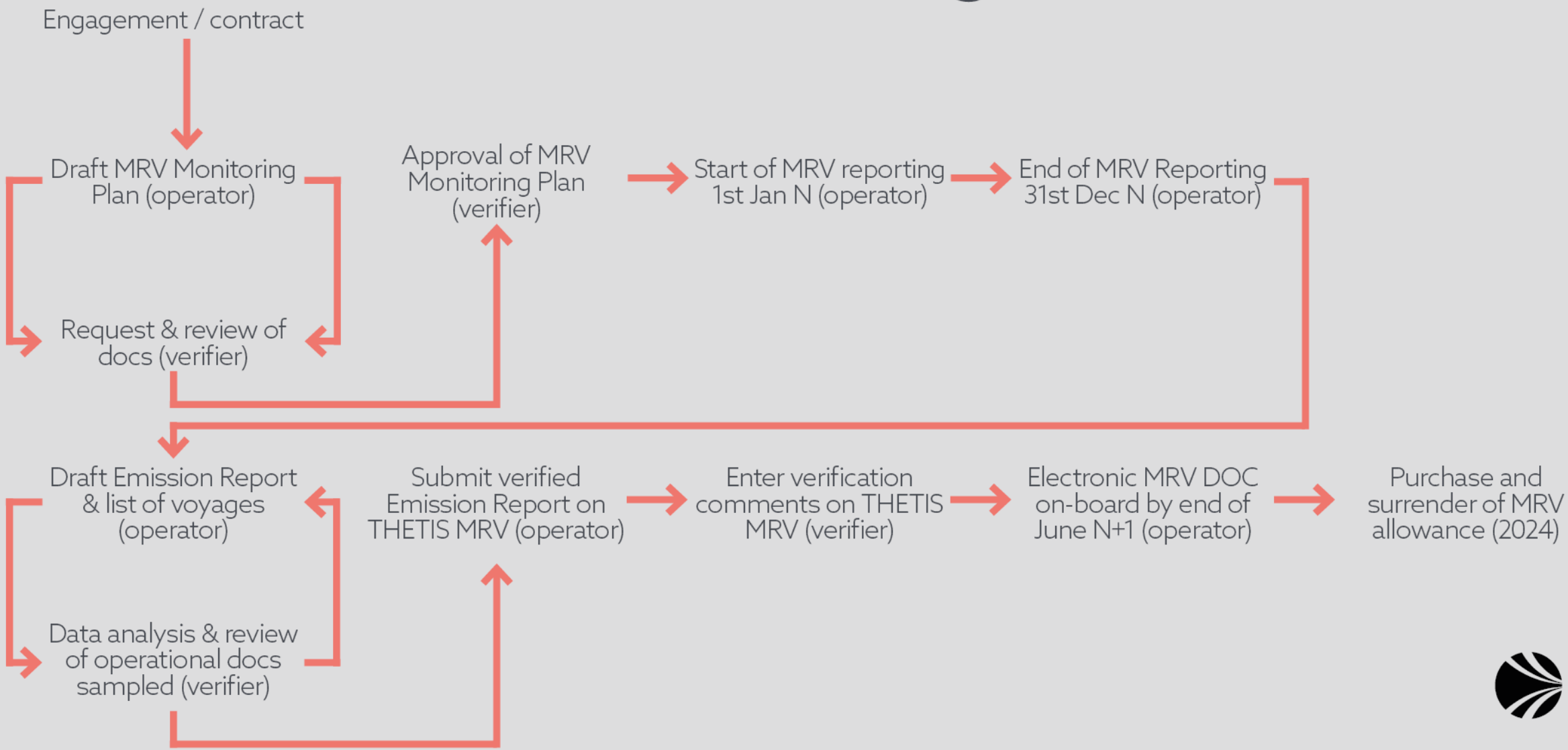
Navigating Decarbonisation

Emissions reporting, validation and verification after 2023

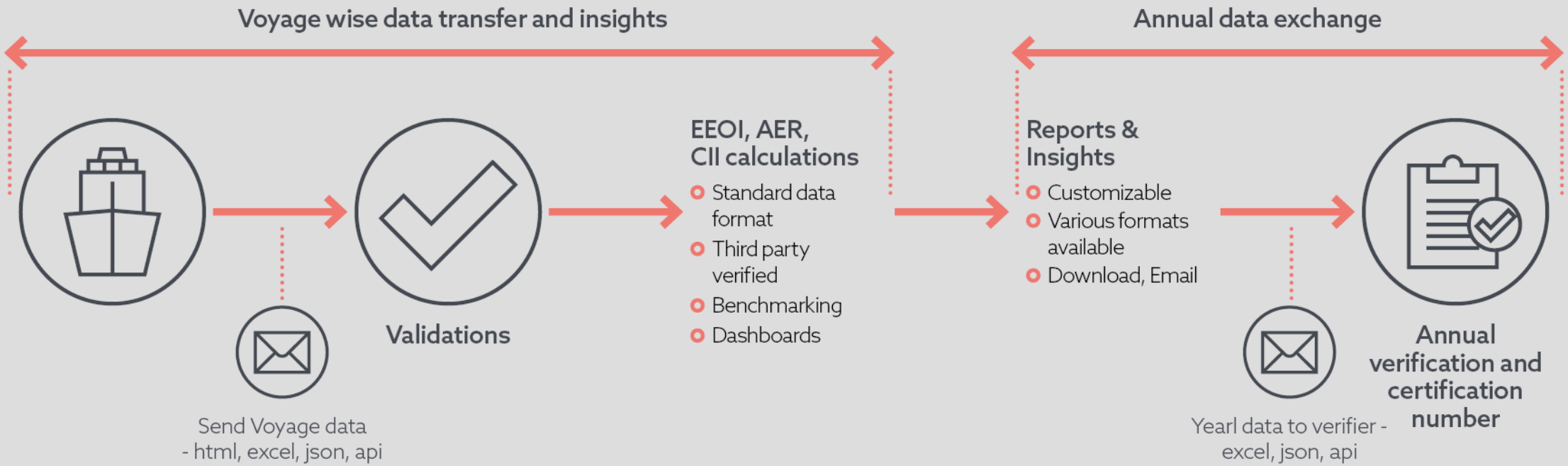
15 June 2022

MEMBER OF
IGP&I

Verifier flow diagram



Implementation workflow



Benefits

Windows based

Easy and intutive

Ship specific validations

Features and Benefits

Validations and benchmarking - AIS, Hull & M/C model, data based

Reporting - Customizable in various format, review and approval

Standard Data structure - ISO 19848 for collaborative value

EEOI: Sea Cargo charter compliant pdf/.csv output, 3rd party verified

SMART VOYAGER EMISSIONS

SMARTVoyager Emissions

Compliance for the Greener Planet

Who are we?

Backed by industry leaders and serial entrepreneurs

Andreas Sohmen-Pao
Board Member
Chairman
BW Group Ltd

Mikael Skov
Board Member
CEO
Hafnia

Rajesh Unni
Co-CEO
Founder / CEO
Synergy Maritime
CLASS 1 MASTER MARINER

Katsuya Abe
Board Member
President
Nissen Kaiun

Dr. Sanjay Sarma
Advisory Board
Professor of Mechanical Engineering

Dr Padmanabhan Seshaiyer
Advisory Board
Professor
Mathematics

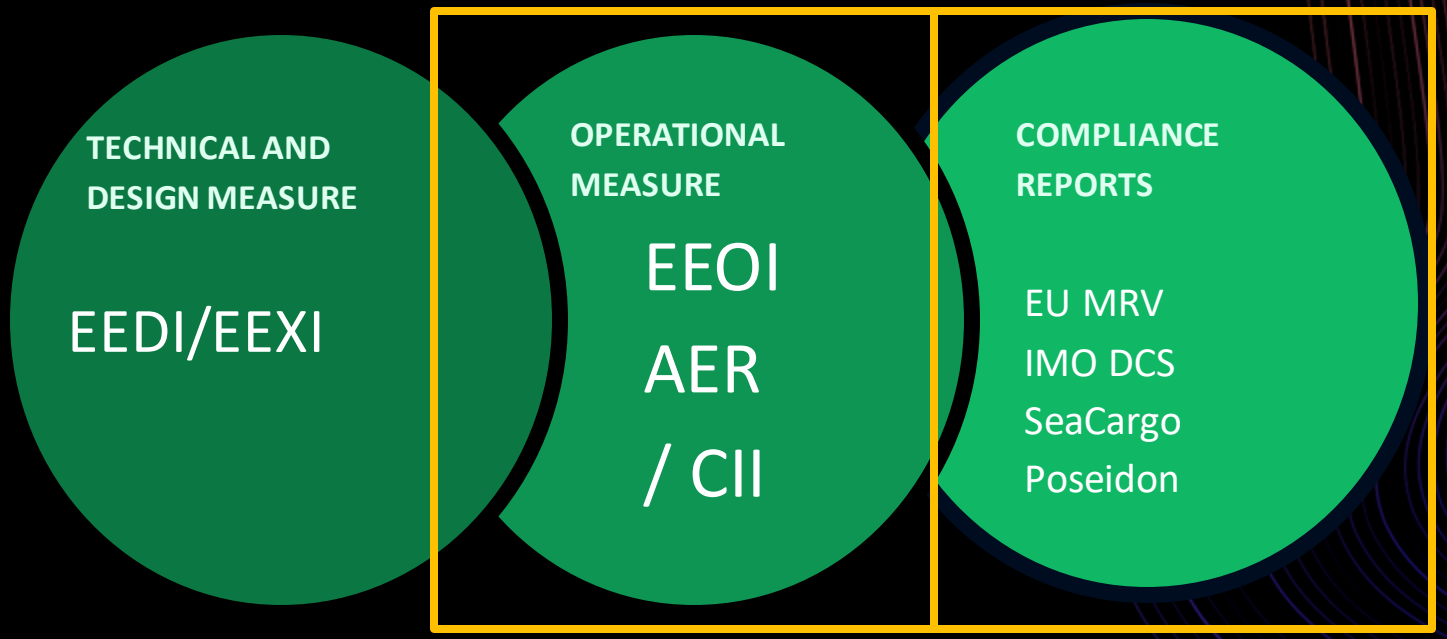
Dr. Kripa Varanasi
Advisory Board
Associate Professor and Doherty Chair

Decarbonize: What is needed NOW?

MID TERM GOAL
Reduce Carbon Intensity by 40 %

LONG TERM GOAL
Reduce GHG emissions by 50 %

Readiness by Jan 2023



What are the pain points - varying requirements, inaccurate data

Current effort is manual, time consuming, inaccurate and inconsistent

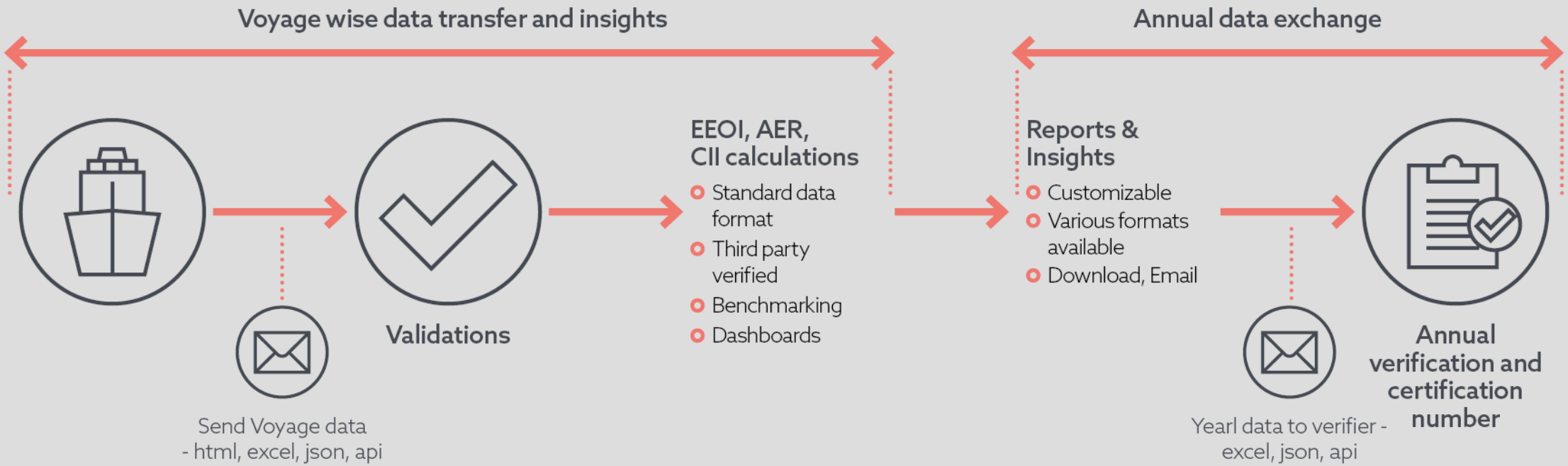
1. Time lost: A lot of time is spent in collating data from various logs and noon reports. This is a manual and time consuming reconciliation process.

1. Data Quality: - Data is often not accurate, has gaps and therefore its reliability could be questionable.

1. Communication/Validation/Verification - Communication methods and data exchange formats are not uniform, making collation difficult across sources.

1. Multiple place of usage for same data - If source data and its structure is not same, there is duplication of effort and inconsistencies

Implementation workflow



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SMART VOYAGER EMISSIONS

EEOI Emission Report Sample

EMISSIONS REPORT

TUESDAY, AUGUST 31, 2021

SMART VOYAGER

VESSEL / VOYAGE INFORMATION

VESSEL NAME	MT FALCON VOYAGER	CARGO	IRON ORE
IMO NUMBER	9900001	START PORT	MARMUGAO
VOYAGE REF	062B/062L	END PORT	DHAMRA
CHARTERER	FMG		

EMISSIONS INFORMATION

BALLAST EMISSIONS (mt)	LADEN EMISSIONS (mt)	TOTAL EMISSIONS (mt)
561.17	1675.76	2236.93

EEOI (g-CO2/ton-nm)
6.70

VOYAGES

	Condition	Departure Port	Voyage Start Date (UTC)	Voyage End Date (UTC)	Total Distance (nm)	Total HSFO Cons.(mt)	Total VLSFO Cons.(mt)	Total LSMGO Cons.(mt)	Cargo Onboard(mt)
1	Ballast	Marmugao	18-Aug-21 2:00	22-Aug-21 6:30	1269	179.9	0	0.3	
2	LADEN	Mina Saqr	22-Aug-21 6:30	28-Aug-21 6:12	162.5	57.8	0	14.4	108386
3	LADEN	Khor al Fakkan	28-Aug-21 6:12	06-Sep-21 11:30	2919	465	0	0.5	108386
4	Ballast	Dhamra							

Questions

Please add to chat or send an email
after the event to any of today's presenters:

Mark Smith: mark.smith@nepia.com
Helen Barden: helen.barden@nepia.com
Nicolas Ducehene: nicolas.duchene@verifavia.com
Piyush Raj: piyush@alphaori.sg

Or request a meeting.


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Thank you
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