



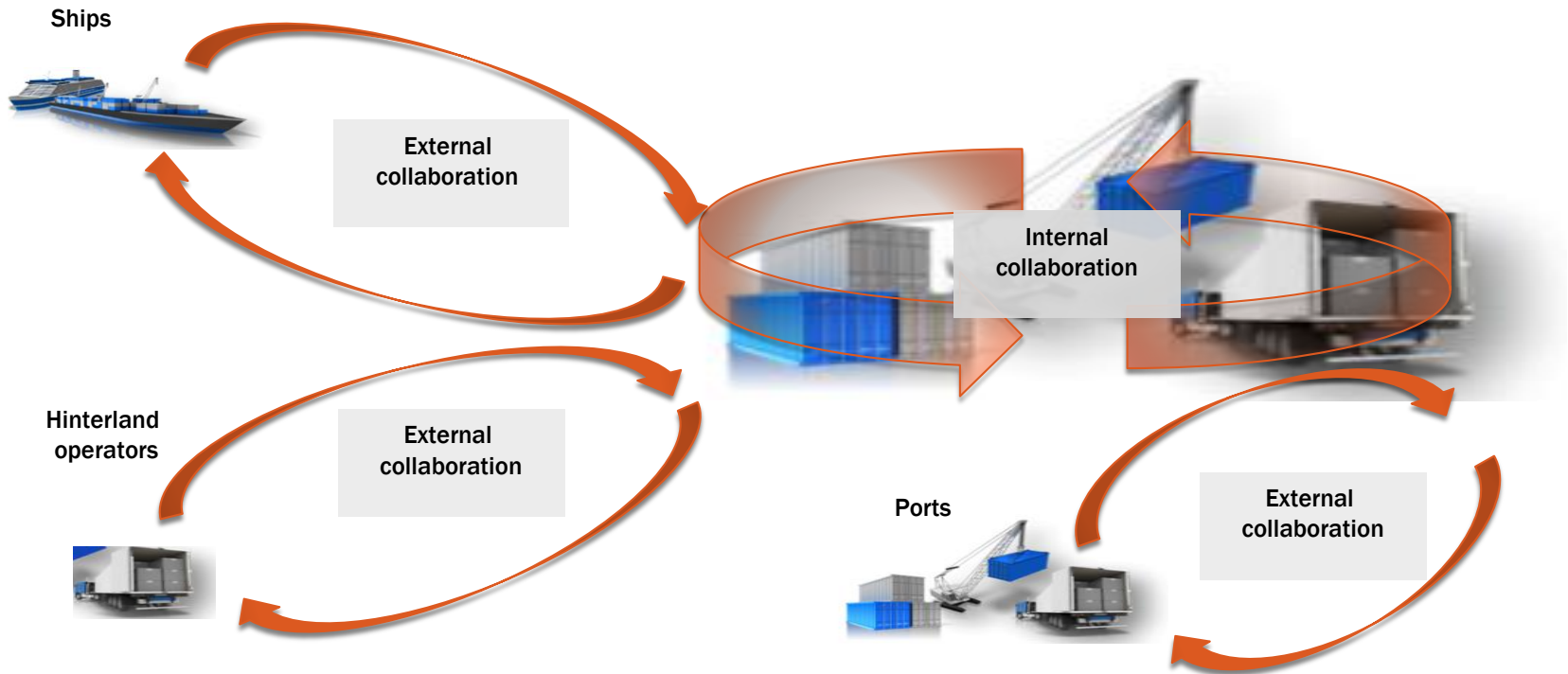
INTRODUCTION

IMO CARES PROPOSAL

DIGIPOINT

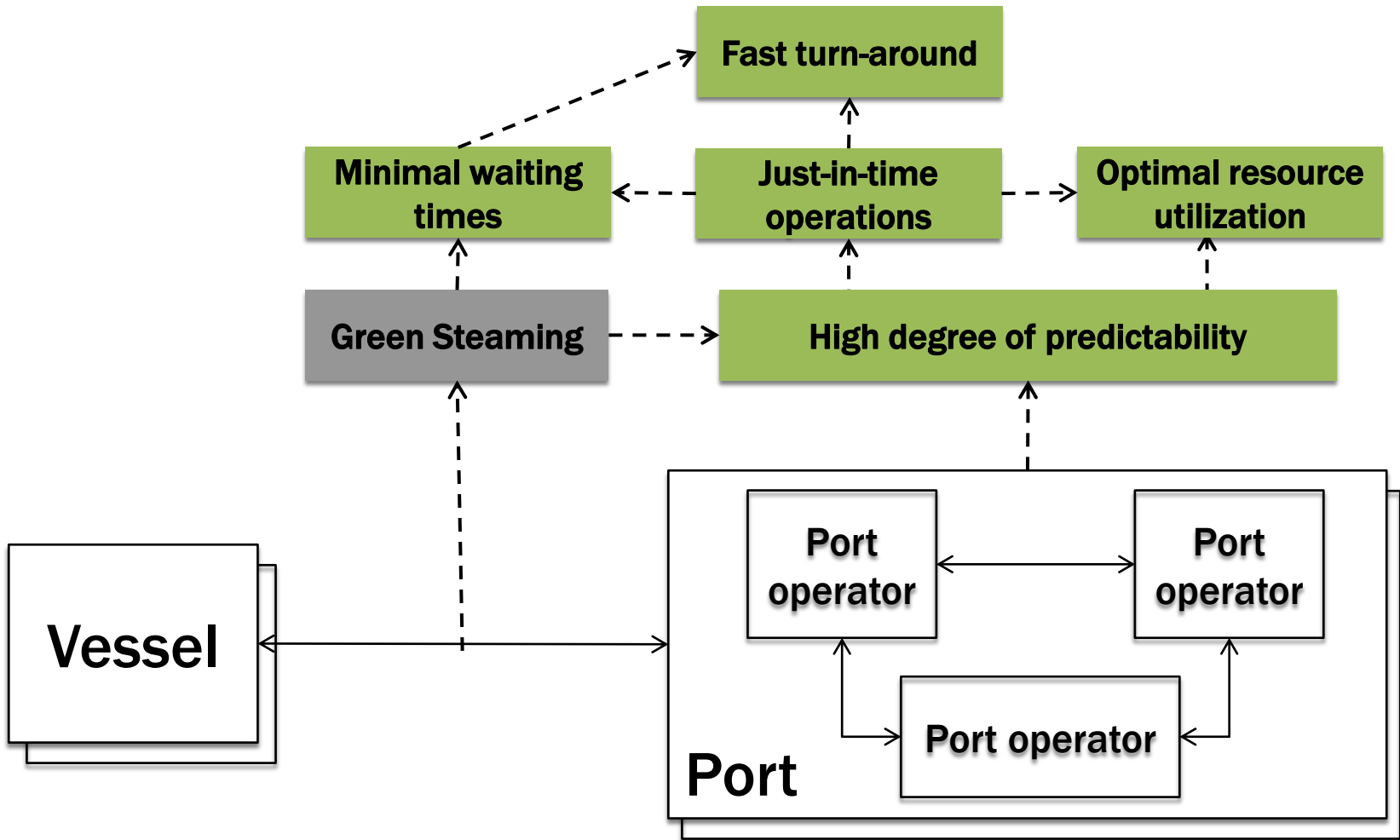
June 2024

SMART SHIPPING: COLLABORATION IS PARAMOUNT



Source: STM Validation Project 2018

DESIRED PORTCDM EFFECTS



PortCall List 6

+ Add

Search vessel

Reverse Order By Show Favorites Filter

Charlotte Borchard Berthed

Nov 3, 05:05 → Nov 3, 07:30

Cargoop Commenced

Egy Glory Sailed

Apr 23, 07:55 → Oct 31, 22:00

Anchoring Completed

No Vessel Name Sailed

Apr 5, 16:47 → Mar 15, 02:01

Arrival Vessel Berth

No Vessel Name Under Way

Mar 30, 09:00 → Jul 5, 23:00

Departure Pilot Berth

No Vessel Name Planned

Jun 11, 20:00 → Jun 11, 20:00

No Vessel Name Planned

Jun 11, 09:00 → Jun 11, 09:00



Charlotte Borchard

Nov 3, 05:05 → Nov 3, 07:30

Cargoop Commenced by st@marine-fields.com 11/11/2021, 08:39

Berthed

IMO: 9212022

MMSI: 538005039

Call Sign: V7AO8

Type: Container

Add vessel to list

Portcall States

Search state to update

Portcall Locations

NOSVG:BERTH:02W Skagenkaien Nov 3, 06:50 → Nov 3, 06:50

Portcall Timeline

Message

Send

Vessel Traffic

Search MarineTraffic

RED CEDAR
General Cargo

Service status: Moored

Speed/Course: 0kn / 0°

Draught: 11.1m

Show Previous Track Voyage Timeline

Vessel details

Received: 3 minutes ago (AIS source: Walvis Bay)

Walvis Bay New Container Terminal

Port of Walvis Bay

CCS Logistics

200m 500ft

S22°57'05.85" E014°28'59.21" (-22.9516, 014.4831)

Levi 279K 5m

PERSEUS Dashboard Port Call including timeline and graphical indication of ships position

Quay List 141

Search quay

Reverse Order By Only selected Filter

TTPTS:PORT_AREA:National Energy Co Savonetta Pier2 North

TTPTS:ANCHORING_AREA:ANCHORAGE

TTPTG:PORT_AREA:Galeota Berth5

TTPTG:PORT_AREA:Galeota Berth4

TTPTG:PORT_AREA:Galeota Berth3

Vessels at Quay

Show all visits for:

This Week

No visits in selected time frame.

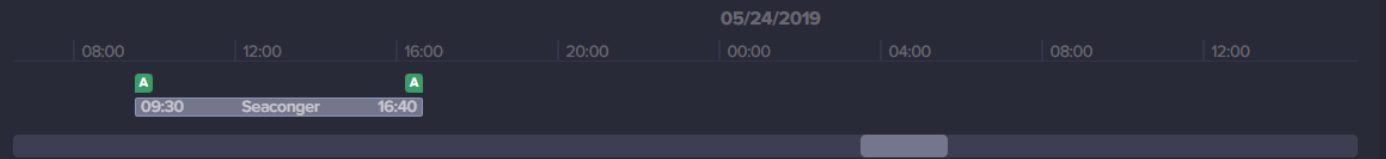
Quay Location



Quay Timeline

2019-05-10 2019-05-30

Hiding Expired Zoom in Zoom out



PERSEUS Menu for berth details inclusive berth utilization planned, targeted and actual

GHG REDUCTION

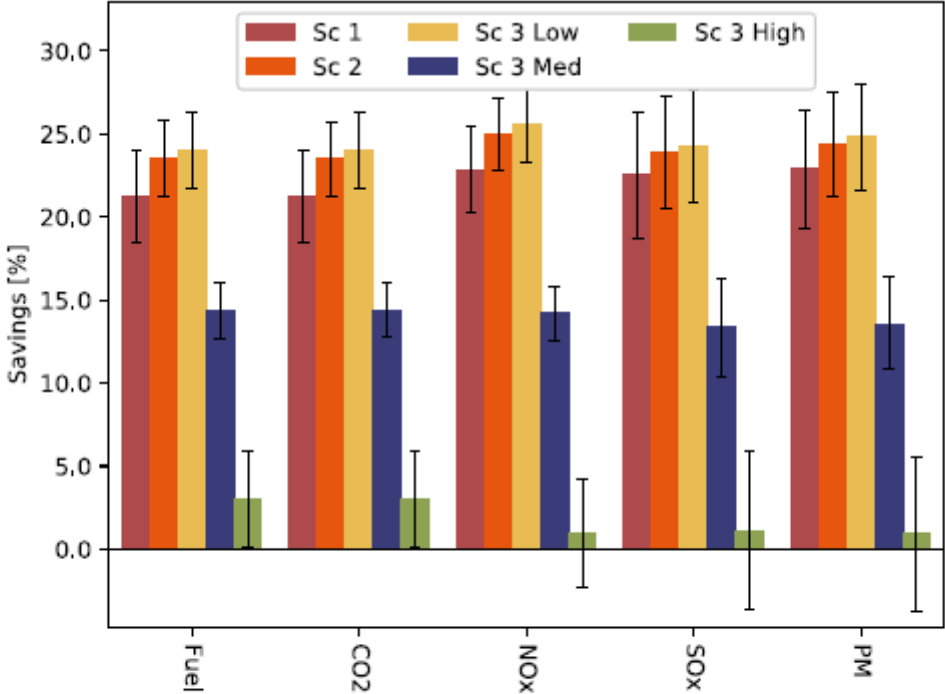


Figure 67. Overview of the savings in fuel consumption and emissions in each scenario for CS2

Source: STM Validation Project final report

GHG REDUCTION

Monetary Savings in ports	Pessimistic scenario	Moderate Scenario	Optimistic Scenario
Amount of Fuel saving in Ports	7,081,873 €	18,038,119 €	31,733,425 €
Amount of CO ₂ saving in Ports	1,034,171 €	2,634,120 €	4,634,056 €
Amount of NO _x saving in Ports	3,699,138 €	9,422,013 €	16,575,605 €
Amount of SO _x saving in Ports	428,813 €	1,092,221 €	1,921,482 €
Amount of PM _x saving in Ports	113,224 €	288,391 €	507,349 €
Amount of GHG saving in Ports	5,275,346 €	13,436,745 €	23,638,492 €

Table 8. Monetary savings in ports estimation

Monetary Savings (€) in Navigation	Scenario 1	Scenario 2	Scenario 3 Low	Scenario 3 Med	Scenario 3 High
Amount of Fuel (MGO) saving in Navigation	669,921,549€	943,443,891€	1,212,719,733€	553,702,303€	-21,505,761€
Amount of CO ₂ saving in Navigation	97,829,149€	137,771,823€	177,094,378€	80,857,565€	-3,140,502€
Amount of NO _x saving in Navigation	349,926,143€	492,797,526€	633,450,797€	289,220,300€	-11,233,297€
Amount of SO _x saving in Navigation	40,564,238€	57,126,215€	73,431,064€	33,527,078€	-1,302,189€
Amount of PM _x saving in Navigation	10,710,603€	15,083,636€	19,388,777€	8,852,507€	-343,831€
Amount of GHG saving in Navigation	499,030,134€	702,779,201€	903,365,015€	412,457,451€	-16,019,820€

Table 10. Monetary savings in Navigation estimation

Source: STM Validation Project final report

MESSURABLE KPI

KPI for
emission
reduction

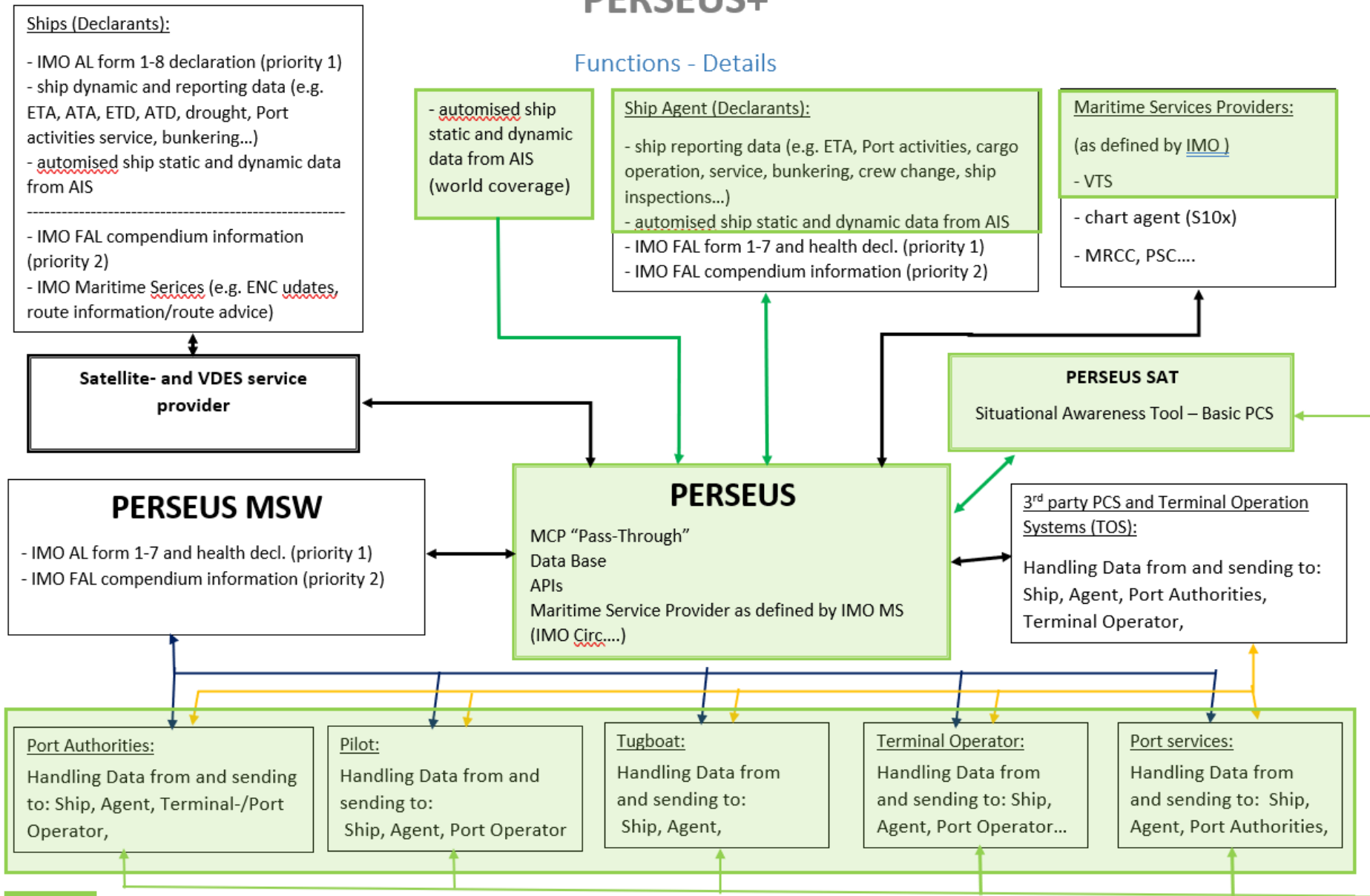
Scope	NAMPORT tCO ₂ e (tonnes of Carbon)					
	2018/2019	2019/2020	2020/2021	2021/2022	2022/23	2023/24
Scope 1	5,714	5,262	3,912	4,340	4,687	5,250
Scope 2	5,561	5,705	4,657	4,616	4,079	3,601
Scope 3	6,878	7,382	7,271	7,652	7,089	8,851
Scope 1 & 2	11,275	10,967	8,569	8,956	8,766	8,209
Total Carbon Emissions	18,154	18,349	15,840	16,608	15,855	17,060
Total TEUs	144,109	142,957	154,207	166,545	160,368	171,151
CO2 Emissions per TEU= Total Number of TEUs Handled/ Total CO2 Emissions	126 kgCO₂e/TEU	128 kgCO₂e/TEU	102 kgCO₂e/TEU	99 kgCO₂e/TEU	98 kgCO₂e/TEU	99.7 kgCO₂e/TEU

KPI for
efficiency
improvement

	Apr 21	Mai 21	Jun 21	Jul 21	Aug 21	Sep 21	Okt 21	Nov 21	Dez 21	Jan 22	Feb 22	Mrz 22
Monthly Progressive Average	2,95	2,64	2,47	2,35	2,63	2,76	2,87	2,94	2,95	2,95	2,98	2,99
Monthly Index Score	2,95	2,33	2,13	1,97	3,76	3,39	3,58	3,43	3,04	2,96	3,26	3,13
	Apr 22	Mai 22	Jun 22	Jul 22	Aug 22	Sep 22	Okt 22	Nov 22	Dez 22	Jan 23	Feb 23	Mrz 23
Monthly Progressive Average	3,30	3,28	3,15	3,19	3,20	3,25	3,28	3,29	3,29	3,32	3,35	3,36
Monthly Index Score	3,30	3,26	2,89	3,31	3,26	3,49	3,46	3,34	3,28	3,59	3,62	3,57
	Apr 23	Mai 23	Jun 23	Jul 23	Aug 23	Sep 23	Okt 23	Nov 23	Dez 23	Jan 24	Feb 24	Mrz 24
Monthly Progressive Average	3,88	3,62	3,40	3,35	3,39	3,37	3,40	3,42	3,44	3,41	3,46	3,49
Monthly Index Score	3,88	3,36	2,96	3,21	3,56	3,23	3,58	3,58	3,57	3,20	3,91	3,80

PERSEUS+

Functions - Details



Scope IMO Cares Technical Proposal



THANK YOU!

Michael Bergmann

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