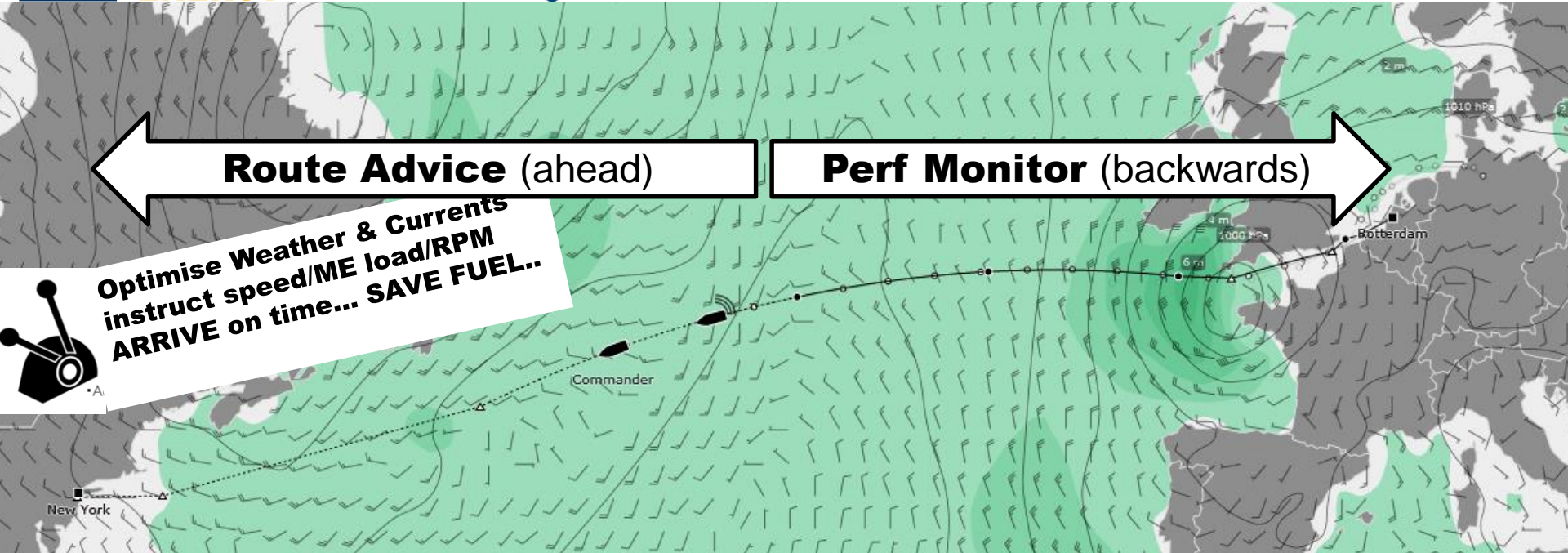


# Energieffektiva lösningar och leverantörer

Albin Torsson  
SMHI

Svensk Sjöfarts medlemsmöte  
7 mars 2017, Göteborg



**Weather...  
Current...**



**ROUTE  
ADVICE**



**AVOID  
Cargo  
Damage**



**SAVE  
FUEL**



**ARRIVE  
On Time**



**MRV  
Compliant  
Reporting &  
Documentation**



**CP  
Speed  
& cons**



**Control/  
Incorrect  
Reporting**

**"RTZ"  
(new ECDIS route format)**



**Price per month: Only about 1,2 or 3 tonnes fuel, depending on service level and your size of fleet...**





# Fleet Management DAILY Performance Monitoring

- **Optimal vessel's course and engine setting...**
- **Optimal instructions to the vessels/fleet...**
- **Performance Monitoring / Ensure the instructions are followed...**

Fleet VisPer Showroom Ship Admin FreeWeb GAC SMHI Weather Solutions Logged in as: Demo-1 Release Notes News Logout About VisPer Quick Help

Search Clear Reset checklist Columns Update Last update: 07:40 Filters Enable filtering Bad 13 Neutral 8

Ship	Filter Indicator	Diff M/E Cons. to Baseline (%)	Diff M/E Cons. - Baseline	Diff M/E Cons. - Instr.	Diff Perf. Speed - Instr.	Perf. Speed (SLR)	Weather Factor SLR	Current Fac SLR
voyage-128127	Bad	30.0 %	11.9 mt/d			18.08 kts	-0.47 kts	-0.1
voyage-128899	Bad	21.3 %	8.3 mt/d	+0.2 mt/d	-1.45 kts	18.55 kts	-1.27 kts	0.
voyage-128360	Bad	31.2 %	5.7 mt/d	0.0 mt/d	-1.07 kts	16.43 kts	-0.07 kts	0.
voyage-129217		9.9 %	4.9 mt/d	-1.1 mt/d	-0.91 kts	21.09 kts	-0.43 kts	-0.
NEW voyage-129261	Bad	31.8 %	4.8 mt/d	+0.3 mt/d	-1.28 kts	15.22 kts	-0.14 kts	0.
NEW voyage-129268	Bad	32.0 %	4.8 mt/d	-0.4 mt/d	-1.82 kts	13.68 kts	-0.54 kts	0.
voyage-128805	Bad	12.2 %	4.0 mt/d			16.80 kts	-1.02 kts	-0.
NEW voyage-129092		8.6 %	3.4 mt/d			19.54 kts	-0.10 kts	-0.
voyage-128312	Bad	16.1 %	3.0 mt/d	-0.1 mt/d	-0.73 kts	15.77 kts	0.00 kts	-0.
voyage-128228	Bad	6.3 %	2.8 mt/d			18.35 kts	-2.33 kts	-0.
voyage-128594		6.1 %	2.6 mt/d			20.07 kts	-0.15 kts	-0.
voyage-129047	Bad	10.9 %	2.5 mt/d	0.0 mt/d	-0.59 kts	16.91 kts	-0.37 kts	-0.
voyage-128974		5.9 %	1.8 mt/d	-4.3 mt/d	-1.55 kts	19.45 kts	-0.72 kts	0.
EDSP voyage-128102		6.4 %	1.5 mt/d	-10.0 mt/d	-2.61 kts	16.89 kts	-0.33 kts	0.
voyage-128742		2.4 %	1.1 mt/d			19.86 kts	-0.07 kts	0.
voyage-128866		1.6 %	0.5 mt/d			17.79 kts	-0.36 kts	0.
voyage-129124		1.3 %	0.5 mt/d	-4.3 mt/d	-0.60 kts	18.90 kts	-0.49 kts	0.
NEW voyage-129233		-0.3 %	-0.1 mt/d			19.49 kts	-0.01 kts	0.
voyage-128440		-4.4 %	-0.7 mt/d	+0.0 mt/d	+0.23 kts	15.23 kts	-0.33 kts	0.
voyage-128804		-2.5 %	-0.9 mt/d	-10.4 mt/d	-2.11 kts	17.39 kts	-0.86 kts	-0.
voyage-128831		-3.3 %	-0.9 mt/d	+0.9 mt/d	+0.46 kts	17.46 kts	-0.25 kts	-0.
NEW voyage-129162		-6.0 %	-1.1 mt/d	-2.0 mt/d	-0.43 kts	15.07 kts	-0.22 kts	-0.
NEW voyage-129253		-7.3 %	-1.3 mt/d	-3.0 mt/d	-0.46 kts	16.04 kts	-0.47 kts	0.
voyage-128420		-4.8 %	-1.7 mt/d			17.19 kts	-0.07 kts	-0.
voyage-129000		-3.9 %	-1.8 mt/d	-4.8 mt/d	-0.49 kts	18.51 kts	-0.44 kts	0.
NEW voyage-129249	OK	-11.1 %	-1.9 mt/d	-1.2 mt/d	+0.29 kts	16.29 kts	-0.36 kts	0.
voyage-128512		-3.9 %	-1.9 mt/d			19.51 kts	-0.34 kts	0.

**ACT before it's too late**

1. Operational Dept
2. Chartering Dept
3. Technical Dept

**Owner... Charterer... and more...**  
**We ENCOURAGE to share info with other stakeholders !**

	Draft avg	Trim	RPM Rep	ME Load (of MCR)	SOG	Weather Factor	Current Factor	Perf. Speed	M/E Cons.	Diff M/E Cons. to baseline	Diff M/E Cons. to baseline %
Fl	m	m	rpm	%	kts	kts	kts	mt/d	mt/d	mt/d	%
▶	12.1	0.4	64	32.2	16.33	-0.85	0.03	17.15	83.6	5.0	7.0
▶	12.1	0.8	66	26.2	16.72	-1.09	-0.06	17.87	91.0	-9.2	-7.1
▼	12.7	0.8	55	39.7	17.04	-0.73	0.08	17.69	75.2	-3.5	-3.9
▶	12.9	1.0	58	45.0	18.14	-0.70	0.19	18.65	84.1	-4.2	-4.8
▶	12.7	0.4	48	26.1	14.66	-0.69	-0.02	15.37	51.1	-0.9	-1.5
▶	12.5	1.0	61	52.9	19.17	-0.82	0.10	19.90	99.2	-6.6	-6.2
▶	12.8	0.0	47	19.7	13.51	-0.94	0.02	14.44	43.6	-3.0	-7.2
▶	12.0	-0.4	60	40.8	17.56	-1.06	-0.17	18.79	80.2	19.7	32.0
▶	11.1	0.2	73	39.0	16.80	-0.82	0.07	17.55	60.6	5.4	10.5
▶	12.1	-0.3	66	33.8	17.35	-0.62	0.13	17.84	120.9	13.4	13.0
▶	11.9	0.6	54	29.8	16.08	-0.63	0.00	16.71	57.1	-9.5	-15.9
▶	12.0	-0.6	64	33.9	18.17	-1.47	0.13	19.50	109.5	-12.2	-9.0
▶	11.7	0.0	63	33.3	16.36	-0.95	-0.04	17.36	80.7	-3.9	-5.2
▶	12.7	0.1	65	33.8	17.16	-1.25	0.11	18.30	111.0	-3.0	-2.4
▶	12.1	0.3	56	33.5	16.32	-0.71	-0.01	17.03	63.0	-5.7	-8.6
▶	12.2	0.5	54	33.0	15.64	-1.02	0.03	16.63	59.8	-5.8	-9.1
▶	11.8	0.9	56	33.1	16.28	-0.92	0.05	17.15	64.3	-5.4	-8.1
▶	12.3	0.9	62	33.3	15.91	-0.68	0.07	16.51	95.9	2.5	3.2
▶	12.3	0.5	63	29.7	16.25	-1.05	0.05	17.25	95.5	-6.9	-4.9
▶	12.0	0.4	59	27.9	15.20	-0.78	0.07	15.90	87.3	0.3	-1.9
▶	11.9	0.8	57	34.4	16.43	-1.38	-0.02	17.83	64.1	-10.3	-14.1
▶	12.1	0.4	55	33.9	15.85	-0.92	0.01	16.76	58.9	-8.5	-13.6
▶	12.2	1.3	58	38.3	16.69	-1.09	0.12	17.67	69.4	-3.7	-5.5

