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PILOTAGE IN FUTURE or THE FUTURE OF PILOTAGE?

Etäluotsausta?

Uutiset Areena Urheilu Valikko 😔

UUTISET Tuoreimmat Urheilu Sää

yle

| | Kotimaa Ulkomaat Talous Politiikka Kulttuuri Kolumnit Lu

Öljykatastrofin riski pohjoisilla merillä kasvaa jatkuvasti – "On vain hyvää tuuria, ettei ole sattunut pahempaa"

Esimerkiksi Itämerellä sattuu vuosittain satoja laivaliikenteen vahinkotilanteita. Öljyntorjuntaan kehitetään jatkuvasti uusia keinoja, joista yksi on öljyn polttaminen.

Öljyntorjunta 4.4.2018 klo 12:10

ltämeren laivaliikenne on riski

Suurin syy riskin kasvuun on laivaliikenne, joka on kymmenkertaistunut parissakymmenessä vuodessa.

FINNPILOT

– Töitä on kuitenkin vielä tehtävänä. Mielestäni pitäisi olla esimerkiksi enemmän sellaisia luotsiveneitä, jotka ohjaavat laivoja satamaan jo hyvissä ajoin ennen satamaan saapumista. Se ehkäisisi laivojen törmäyksiä ja karille ajoja.

Kuva: Alfred Wegener / Institute of Polar and Marine Research / EPA







Finnpilot in figures

https://finnpilotvuosiraportti.fi/en

- 25 616 pilotges
- 484 959 piloted miles
- More nautical miles per person-day piloted than ever before

FINNPILOT PILOTAGE LTD

ANNUAL REPORT 2018

- ~35 % of ships visiting FI ports use pilot
- Turnover 40,3 milj. euro
- Profit 3,6 milj. euro
- Equity ratio 66,1%
- Personnel 340 (13 new pilots recruited, approx 12 will be recruited in 2019)
- Service level target fullfiled 99,9 %

Pilotage - What does the customer buy?

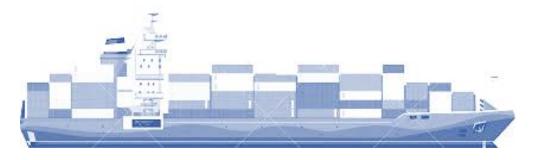
- Fairway navigation, ship handling
- Ice navigation and icebreaker assistance
- Cooperation with tugs
- Harbour manouevring
- Local knowledge (conditions, operation, formalities, contacts, responsibilities,...)
- Relevant port call information





Customer segments from safety perspective

"Liner traffic with efficient cargo handling"

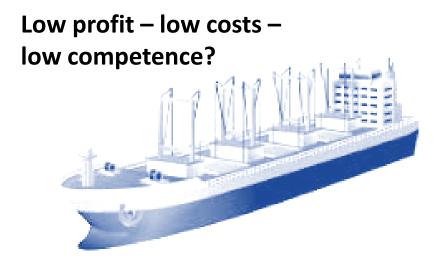


"Safety regardless of price"

"Accurately scheduled production of experiences with high safety standards"







Finnpilot "market share"

LUOTSAUSALUE/ ASEMA	2016 Satama- liikenne	Luot- saukset	Osuus %	2017 Satama- liikenne	Luot- saukset	Osuus %	2018 Satama- liikenne	Luot- saukset	Osuus %
	5 354	4 157	77,6 %	4 927	4 498	91,3 %	5 656	5 031	88,9 %
HELSINKI	20 203	5 111	25,3 %	21 417	5 309	24,8 %	19 215	5 452	28,4 %
	27 659	3 151	11,4 %	28 242	3 342	11 ,8 %	28 038	3 769	13,4 %
E SELKÄMERI	3 925	3 170	80,8 %	3 879	3 246	83,7 %	4 005	3 198	79,9 %
	7 054	4 903	69,5 %	7 168	4 920	68,6 %	7 293	5 069	69,5 %
Kaikki yhteensä	64 195	20 492	31,9 %	65 633	21 315	32,5 %	64 207	22 519	35,1 %

All port calls

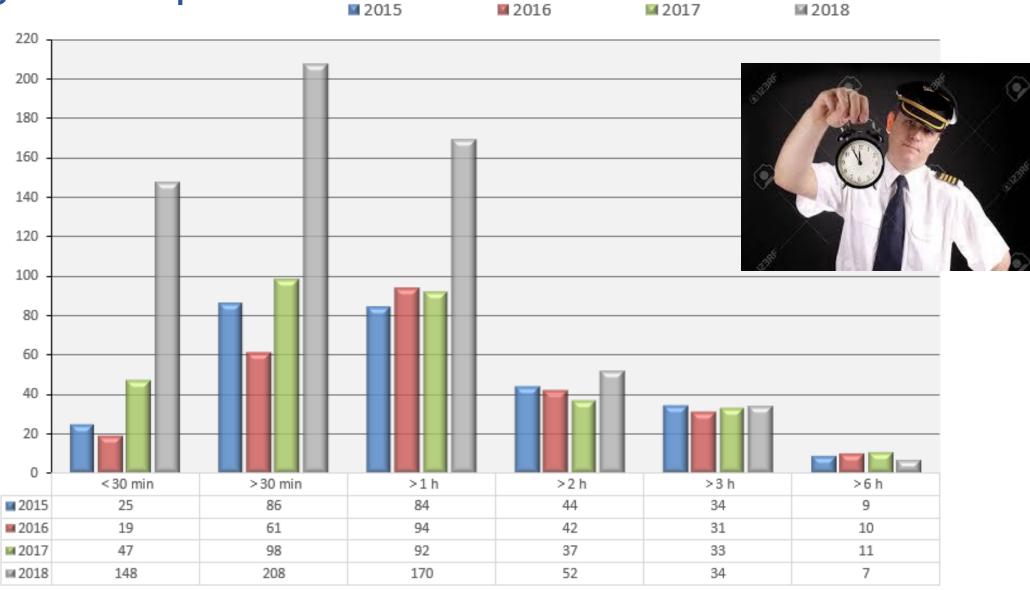
LUOTSAUSALUE/ ASEMA	2016 Satama- liikenne	Luot- saukset	Osuus %	2017 Satama- liikenne	Luot- saukset	Osuus %	2018 Satama- liikenne	Luot- saukset	Osuus %
Η ΚΟΤΚΑ	5 114	4 157	81,3 %	4 712	4 498	95,5 %	5 166	5 031	97,4 %
	6 594	5 111	77,5 %	7 432	5 309	71,4 %	7 070	5 452	77,1 %
	6 574	3 151	47,9 %	6 858	3 342	48,7 %	6 650	3 769	56,7 %
E SELKÄMERI	3 836	3 170	82,6 %	3 764	3 246	86,2 %	3 868	3 198	82,7 %
	6 002	4 903	81,7 %	6 044	4 920	81,4 %	6 140	5 069	82,6 %
Kaikki yhteensä	28 120	20 492	72,9 %	28 810	21 315	74,0 %	28 894	22 519	77,9 %

Foreign traffic (cruise, passanger and ropax traffic excluded)



Statistics from Finnish Transport Agency and Finnpilot

Waiting for the pilot...





DATA INTENSITY

ePilotage

Future Fairway Navigation

Data set for pilot from analysing tool

Analysing process for pilotages

Pilotage data collection

Remote controlled

cutter

Pilot Online

Fleet management

Analysing tool

Vessel independent navigation

3.8.,

Internal processes digitalized

Collecting AIS data

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TODAY

TIME



ePilotage concept is a set of actions aimed at the development of the pilotage service process i.e.

- transportation,
- transportation planning,
- resource planning,
- pilotage and
- invoicing.

The main focus of ePilotage is the development of information gathering, production and processing to enhance the pilotage service process.

The outcome of ePilotage is new methods for providing pilotage such as remote pilotage and new solutions to improve the pilotage today.

Amendments to Finnish Pilotage Act 1.2.2019

- Allowing the pilot to perform his or her duties somewhere else than onboard the vessel.
 - "Experiments", permit from TRAFICOM, valid for 5 yrs.
- Temporary pilot boarding position
 - Hearing of VTS
 - Traficom decision based on application from Finnpilot
- Finnish Defence Forces are able to exempt foreign state vessels from the obligation to use a pilot. The Defence Forces may exempt vessels that take part in a training or exercise organised by them, participate in another form of defence cooperation or are hosted by the Defence Forces.





PRESS RELEASE 17.01.2019 15.33 fi sv en



Pilot boat (Photo: Jeffrey B. Banke / Shutterstock)

Remote pilotage subject to authorisation will be allowed in those public channels in Finnish waters and in the Saimaa Canal lease area that have been marked as

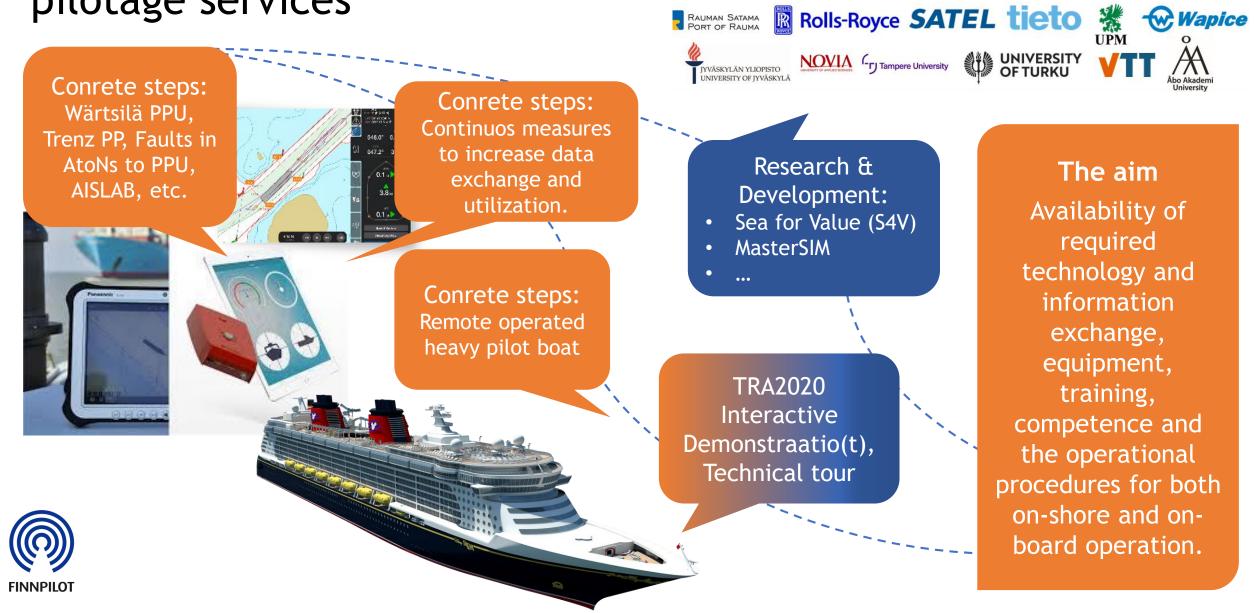
Remote Pilotage

- A pilotage company has to apply for an authorisation from the Transport and Communications Agency (TRAFICOM). A requirement for granting the authorisation is that remote pilotage will not as such or in combination with other functions cause any danger to vessel traffic safety or any harm to other vessel traffic or the environment.
- The remote pilotage authorisation defines the routes and parts of routes where remote pilotage is allowed. It also determines the vessels involved and the origin and destination of the remote pilotage. The authorisation will be granted for a maximum of five years and can be renewed if necessary.





Development path to future pilotage services

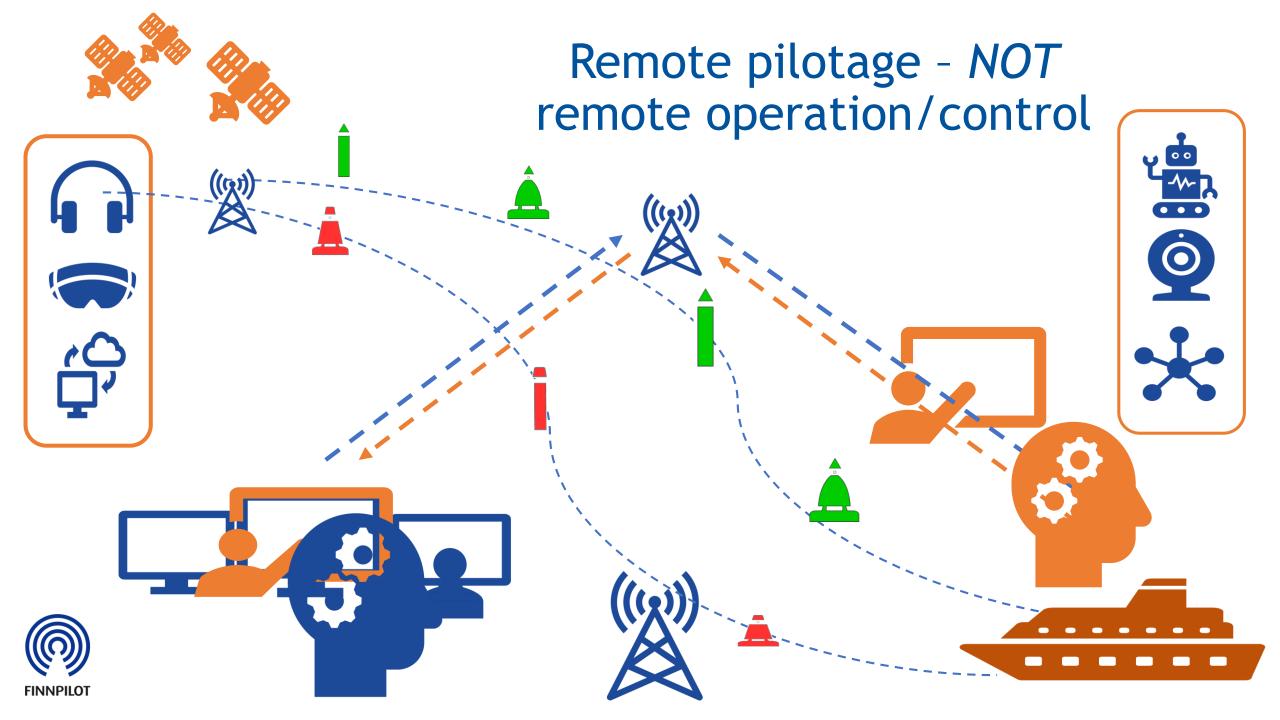


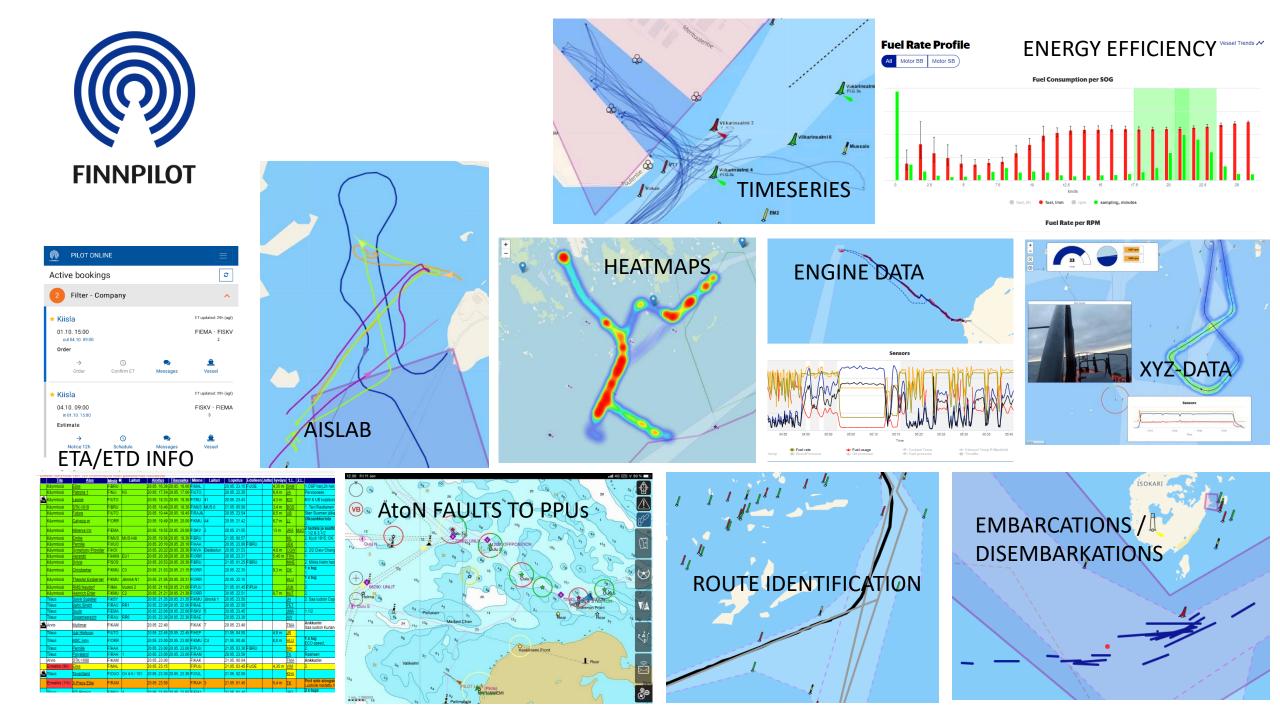
HIRB - KRILMAR - MAGGREGOR ESL Shipping

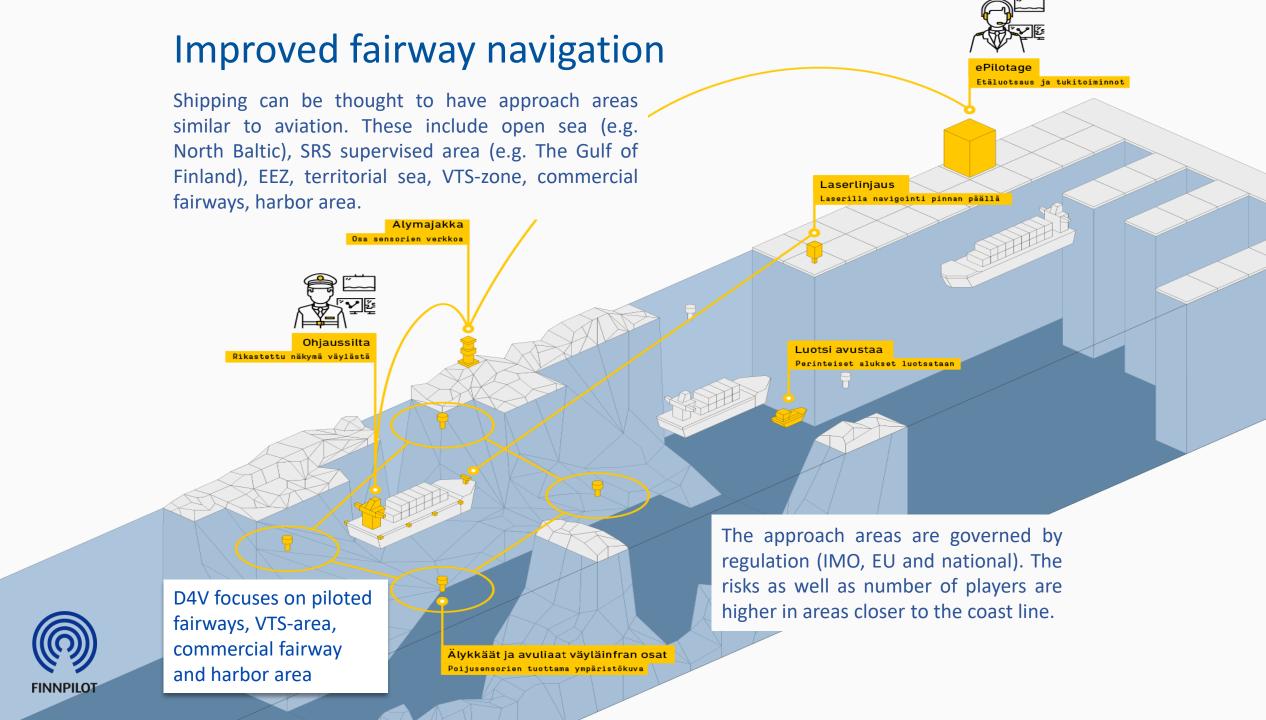
C Lingsoft MEYER TURKU

FINNISH METEOROLOGICAL INSTITUTE

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SYSTEM 400



Information to enhance pilotage

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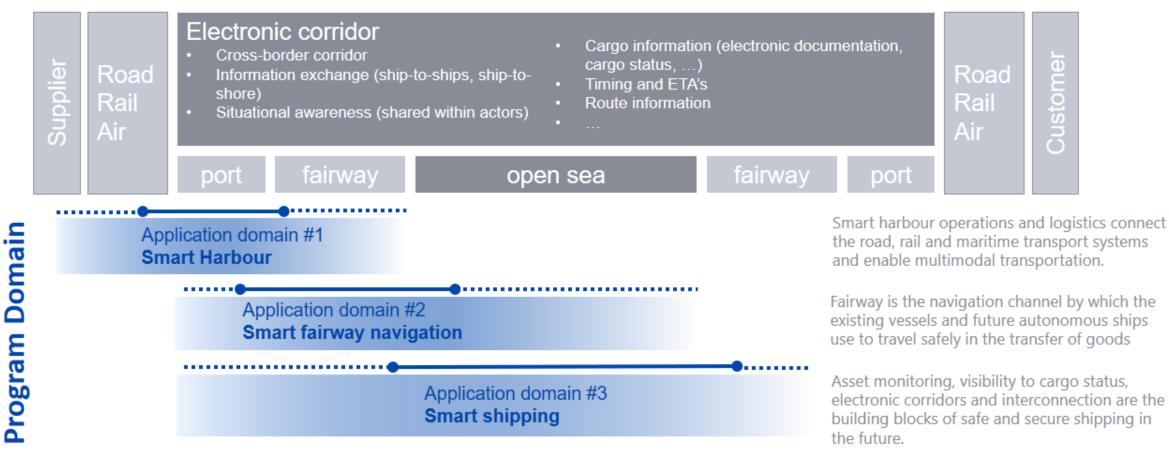


ISCLER

DIMECC One Sea

Digital and autonomous maritime transport chain

Digital door-to-door supply chain



DIMECC One Sea

Ecosystem approach for joint development

"Companies and research organisations jointly develop new knowledge and innovations "

Smart harbour

Smart harbour operations and logistics connect the road, rail and maritime transport systems and enable multimodal transportation.

Experiments

- Automated Cargo handling and logistics
- Information flow and API's

Companies

- Ericsson.
- Euroports
- F-Secure.
- Lingsoft,
- MacGregor. Port of Rauma
- Rolls-Royce
- Satel
- Tieto

Primary contributor companies in bold

- UPM
- Wapice

Research organisations

- Aalto Novia
- JvU
- UTU

- Finnpilot
- Finnish Transport Infrastructure
- Agency Finnish Meteorological Institute
- Traficom

VTT

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TUT+UTA (tuni.fi)

- Alamarin-Jet ESL Shipping Ericsson F-Secure.
 - Lingsoft
 - Meyer Turku Port of Rauma

Experiments

Companies

Remote pilotage

- Rolls-Royce
- Satel
- Tieto Wapice
- Finnpilot

Research organisations

 Aalto Novia

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JvU

UTU

- TUT+UTA (tuni.fi) VTT
 - ÅA

- Finnish Transport Infrastructure
 - Agency
 Finnish

Smart fairway navigation

Fairway is the navigation channel by which the

existing vessels and future autonomous ships use

to travel safely in the transfer of goods.

Robotic systems for VTS & SAR

Smart aids to navigation

- Institute
- Arctia
- - Administration

Smart shipping

Asset monitoring, visibility to cargo status, electronic corridors and interconnection are the building blocks of safe and secure shipping in the future.

Experiments

Tallinn-Helsinki electronic corridor for smart shipping

Companies

- Ericsson,
- F-Secure,
- Lingsoft
- MacGregor
- Meyer Turku Port of Rauma

 - Rolls-Royce
- Satel
- Tieto
- Wapice

Research organisations

- Aalto
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- Finnpilot
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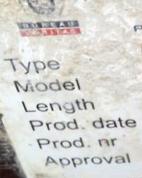
- TUT+UTA (tuni.fi)
- VTT
- ÅA

- JvU

- Estonian Maritime
- Meteorological
- Traficom
- MeriTaito







PTR HOLLAND B.V. PILOT LADDER ISO 799/SOLAS 2.60 MTR 5=9 20-09-2013 AL258036884AS

www.ptrholland.com









Both ropes broke when the pilot was climing down and the pilot fell onto the boat deck with the ladder.

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CRISTINA

KAMPEN



Negative development?

- Safety of pilot transfer arrangements seems to be deteriorating not improving.
- PTA are not considered properly in new buildings.
- Finnish PSC Authority Traficom has been supporting us strongly and further discussions will be held.
- Finnpilot added PTA to service conditions in 2018:
 - Poor arrangements NO pilot
- Campaign for enhanced checking of PTA





