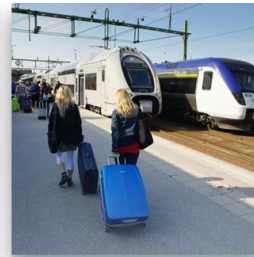
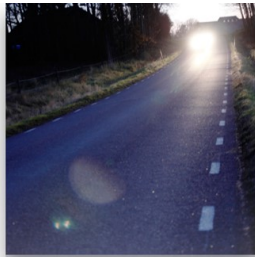


SWEDISH TRANSPORT AGENCY



Background and responsibilities

Saeed Mohebbi

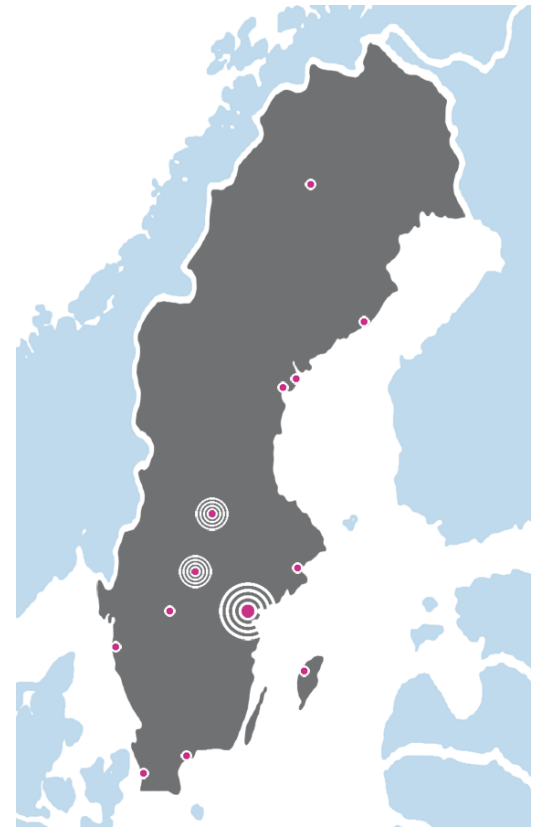
- Marine engineer
- Advisor for electrical safety and alternative fuels
- Civil Aviation and Maritime Department
- Section for seaworthiness
- Experience in the administration, 10 years

Responsibilities and tasks in the administration:

- Participation in IMO rule development process (IGF code)
- Development of national regulations and incorporation of International regulation to Swedish regulation
(only for machinery, electrical safety and alternative fuels)
- Electrical safety on ships including battery propelled ships
- Alternative fuels
- Developement of guidelines

Swedish Transport Agency

- The Agency is a part of the Ministry of infrastructure
- Operates in 13 locations
- Main locations:
 - Norrköping (head office)
 - Borlänge
 - Örebro
- **Maritime sections are located in:**
 - Norrköping, HQ
 - Stockholm
 - Göteborg
 - Malmö



Four modes of transport – the same responsibility

- Rules
- Permits
- Supervision
- Statistics on accidents
- Registry



Assignment and vision

STA assignment is to achieve good accessibility, high quality, safe and environmentally adapted transport in rail, aviation, shipping and road.

Our vision:
We enable travels and transports of tomorrow



Shipping



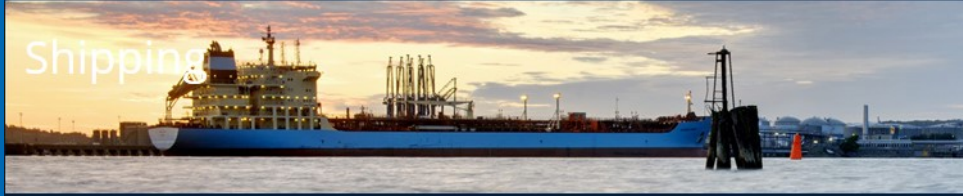
Road



Aviation



Railway



Strategy and responsibility of the Agency

- International cooperation within the frame of IMO and EU
- Development of national and international regulations
- Cooperation with other Swedish authorities
- Support, guide and collaborate with the industry
- Technology development, digitalization and sustainability

International regulations



- **IGF Code (Entry into force 2017).** In force and valid only for Gas fuelled ships
 - IGF code, methyl/Ethyl alcohol part. Ready as interim Guidelines (MSC 102)
 - IGF code, Fuel cell part. Ongoing work
 - IGF code, provisions of ships using low-flashpoint oil fuels
 - . Ongoing work Will be part of the IGF code as soon as possible
 - IGF code, provisions of ships using LPG. Planed for 2020



- Directive 2012/33/EU - 1999/32/EG, sulphur content of marine fuels
- Directive 2005/35/EG on ship-source pollution and on the introduction of penalties for infringements
- Directive 2014/94/EU on the deployment of alternative fuels infrastructure

Important IMO Dates (Sox)

Ships face lower sulphur fuel requirements in emission control areas from **1 January 2015**



- Ships trading in designated emission control areas will have to use on board fuel oil with a sulphur content of no more than **0.10 %** from 1 January 2015

IMO sets **2020** date for ships to comply with low sulphur fuel oil requirement

- The decision to implement a global sulphur limit of **0.50%** in 2020 was taken by the International Maritime Organization (IMO), the regulatory authority for international shipping, during its Marine Environment Protection Committee (MEPC), meeting for its 70th session in London (2016).
- It represents a significant cut from the **3.5%** m/m global limit currently in place and demonstrates a clear commitment by IMO to ensuring shipping meets its environmental obligations.

Swedish national regulation

- IGF code is today incorporated in Swedish regulation through ordinance **TSFS 2017:89**
- National guidelines for bunkring of liquid methane **TSG 2018-4023**
- National guidelines for battery and hybridpropolled vessels **TSG 2018-735**



Next step



SWEDISH
TRANSPORT
AGENCY



National guidelines

For bunkering of liquefied methane in Sweden

English Version



SWEDISH
TRANSPORT
AGENCY



National guideline

For LNG fueled ship visiting yard

New



TRANSPORT
STYRELSEN



Nationella riktlinjer

för bunkring av flytande metan i Sverige

Version 2.0



TRANSPORT
STYRELSEN

Styrande dokument
Riktlinje
datum
2018-09-04

2 (78)



SWEDISH
TRANSPORT
AGENCY

Our experiences

Methapu 2006-2010



Our experiences

BIT VIKING
World first dual fuel
LNG conversion **2011**



SEAGAS (180 m³ LNG)
World first LNG bunkering
vessel conversion and STS
bunkering operation in
Stockholm **2013**



Our experiences

World first methanol propelled Ro Pax vessel 2015



Our experiences

Pilot boat project on methanol **2018**



Our experiences

Swedish LNG bunker vessel
2017



STS LNG bunkering operation
2017



Our experiences

Swedish existing LNG propelled vessels 2019



Today a project Tomorrow a reality





Thanks