

The Sustainable Ports and Shipping Network



www.portsandshipping.net



Global & Profesional Industry Network

Another Environmental or Sustainable Club? NO

(there are sufficient)

Marine transport as the primary global transport system is instrumental to globalisation. We must be aware of our role(s) and responsibilities.

How to deal with our responsibilities?

Agenda

- Background
- 2 Alternative cooperation
 - **✓** Background CINS Network
 - ✓ Lack of data and standards
 - ✓ Industry Requirements

? Cooking Ingredients:

- Operational Safety, Security, Health
- Efficient Safeguarding Energy
- Efficiency gains from integrated system design
- Standardized data and form design
- Integrated transport, port and vessel design





A. Background

- The CINS Network
- Lack of data and standards
- Industry Requirements



The 13th UNCTAD Conference Qatar Doha, Wednesday 25th of April 2012



Special Session on CINS

CINS

The Cargo Incident Notification System & Organisation



Hosted by the Container Owner Association on behalf of participating Carriers

Anti-trust & Competition Law

All participants in this CINS session must abide by the anti-trust laws and associated regulations.

Any activities during this session which appear to be in violation with these anti-trust laws and associated regulations must be reported immediately to:

- Mr. Dirk Vande Velde, President CINS, or
- Mr. Patrick Hicks, Secretary General COA, or
- Any CINS Committee representative.



Code of Conduct

Code of Conduct

Within the Carrier's Cargo Incident Notification System Organization our Members shall:

- Support the implementation of, the development of, and encourage compliance with, appropriate standards, procedures, systems and control-security procedures for the related information and information systems. As such a formal commitment to a set of guiding principles is to be signed by each separate member.
- Perform their duties with objectivity, due diligence and professional care, in accordance with professional standards, best practice and the decisions made by the Steering Committee. In this respect a series of codes, guidance notes and checklists are at the members' disposal
- 3. Serve in the interest of stakeholders in a lawful and honest manner, while maintaining high standards of conduct and character, and not engage in acts discreditable to the shipping industry. Inherent to the project is an open communication between members and other interested parties, both inside and outside the industry.
- 4. Maintain the privacy and confidentiality of information obtained in the course of their duties unless disclosure is required by legal authority or approved by the Steering Committee. Such information shall not be used for personal benefit or released to inappropriate parties. All disclosure of information to third parties needs to be approved by the Steering Committee.
- Inform appropriate parties, including but not limited to the President Chairman and Vice president of CINS, of the results of work performed; revealing all significant facts known to them and sharing views and experiences.
- Support the professional education of stakeholders in enhancing their understanding of the related policies, procedures and systems, including the security of the information and control of the data delivered to the CINS.
- Consider of how best to encourage all member companies to commit themselves to, and participate in, CNS.
- B. Be aware that any disciplinary measures will be investigated and submitted to disciplinary meeting among the Steering Committee and the accused party. Once majority believe disciplinary activity will affect other CINS member's interest, then the Steering Committee may issue injunction order against the party.
- Comply with and respect all legally required anti-trust rules at all time. We refer to the
 respective anti-trust policy. The CNS Organisation commits to comply with the U.S.
 Sherman Act. Article 101 and 102 of EU treaty and any other nation's similar regulation of
 Antitrust, Competition or Cartel. No price fixing, capacity management and other
 commercial issues are allowed to be raised within the CNS Organisation.

Introduction (1)

At the heart of the CINS initiative are CSR carriers "Corporate Social Responsible Carriers"



on board ashore



Introduction (2)



But, as carriers, we also encounter:

- An increasingly globalising, more complex and demanding risk environment,
- Society's "zero tolerance" for failure,
- Increasing demands by customers,
- Stricter regulatory requirements and regimes,
- Shipping Industry's history of serious incidents,
- Mandatory Risk Management .



Did we forget?

The Notice to Mariners of the Admiralty



inspired a joint ship owner safety taskforce to initiate a similar notification system for cargo incidents

Scope

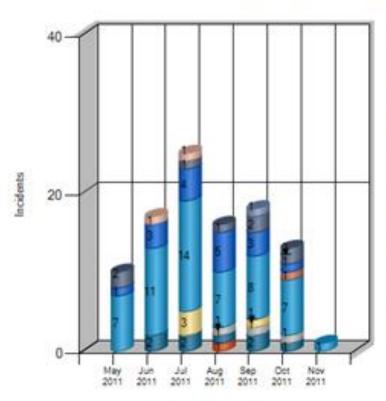
Incidents reported will be defined as follows:

"Any incident which causes or has potential to cause:

- Injury or loss of life
- Loss or serious damage of assets
- Environmental concerns "



CINSNET Incidents Grouped by Incident Type



Key	Name	Total Incidents
-	Temperature Controlled Unit Malfunction	0
	Tank Container Structural Integrity Failure	0
	Smuggling - weapons arms ammunition drugs	1
	Radiological Contamination Overpressure Valve Gas Release Other	0 2 8
	Official Certification Failure Mis-declared	0 17
	Legal Documentation Failure	1
	Leakage Inspection Illegal Waste Transport	55 4 0
=	Flexytank Structural Integrity Failure	3
	Fire Explosion	8
	Bulk Container Structural Integrity Failure	0
	BK2 Non Compliant Equipment	0

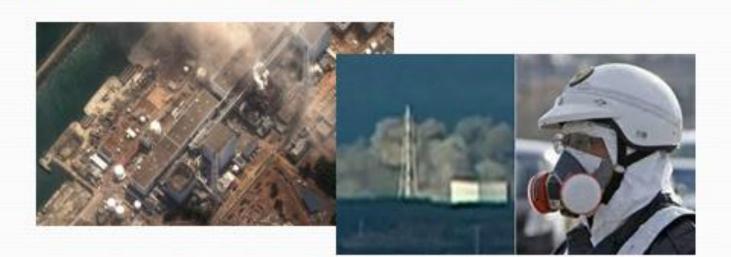
Time [21 May 2011 to 21 Nov 2011]



Development

The CINS project intention is to develop and use a continuous improvement model to enhance the safety of carriage of cargo in the supply chain and reduce the risk to people involved, assets and the environment.

e.g. IAEA and Fukushima / Tepco consequences.



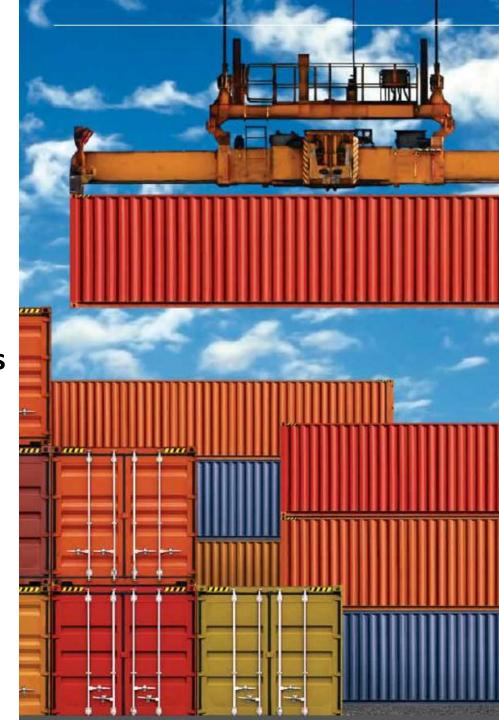




A. Background

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Worldwide, we all agree (unbelievable, but true)



International Policy Approaches and Challenges in Industrial Biotechnology OECD workshop, Vienna, 13-15 January 2010

- Answer: Possibly Yes (see price-volume diagram)
- - enor pathway to sustainability?

Lack of data/assessment tools that are indicator-based

- Urgent need for a set of core indicators to help policymake



Life Cycle Thinking is essential but

- No common or authoritative basis to ensure consistency and quality
- Limited compatibility of data from different sources and countries (methods, formats, ...)
- Dependence on expertise of single consultants/contractors
- Increasing number of inconsistent schemes, life cycle data, methods,
- > Growing global demands for LCT/LCA but conflicting messages
- > Limited confidence in studies and instruments amongst some stakeholders



The most urgent emission factors to reduce are the gaseous emissions (CO2, NOx, SOx) from thermal primary energy conversion.

ation describes technologies - both sting and proven and those on the brink of realisation - for minimization of gaseous emissions from ships in order to achieve a global and sustainable transportation syst



Benefits of consistent, robust, qualityassured life cycle data and methods

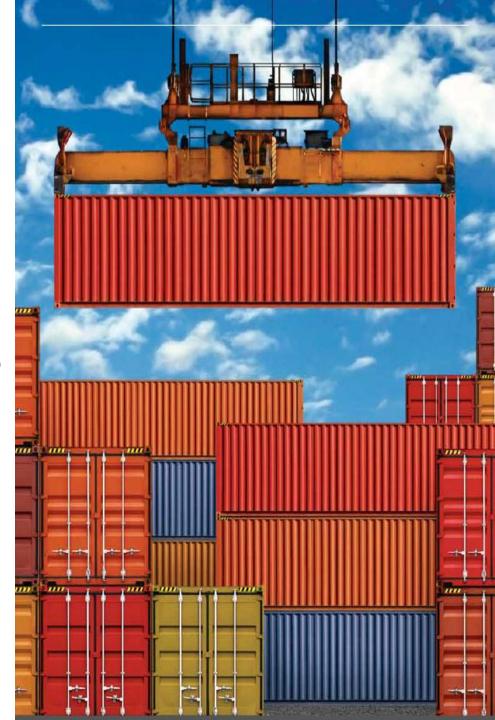
- Coherence across business and policy instruments
 - Consistent messages for decision support
 - "Level playing field", especially for product comparisons
- Reduction in hidden bias and unfounded claims
- Reduced dependence on single contractors
- Reduction in reporting requirements
- Better data availability / reduced costs
- Increased stakeholder acceptance
- More sustainable consumption and production patterns



A. Background

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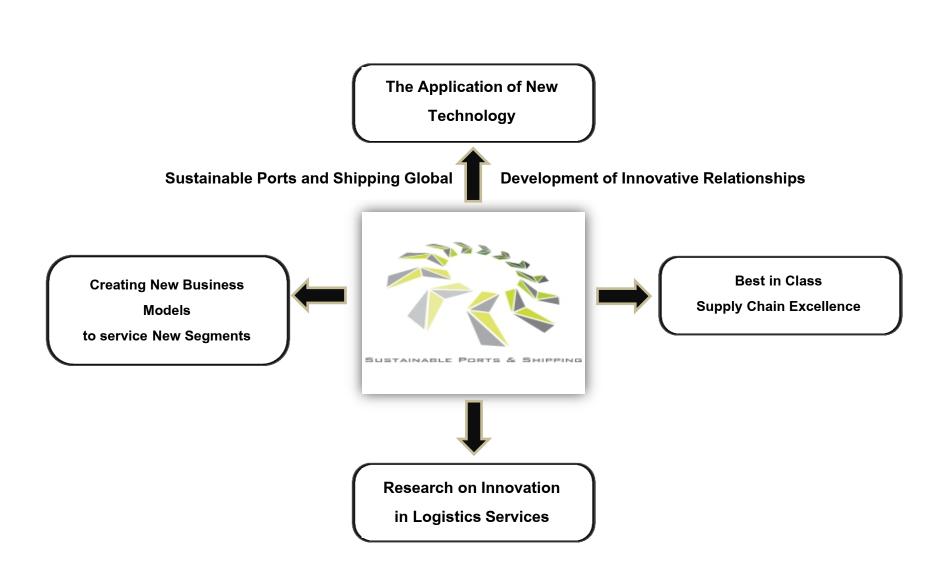


- While writing our policies and management procedures, we remarked the different requirements from our industry
- While implementing our systems, we learned that there are actually <u>no standardized</u>
 - 1. Marine Safety Module(s)
 - 2. Marine ECO Module(s)
 - Port & Ship Emergency Response Module(s)
 - 4. Port & Ship Security Module(s)





Global Collaboration, Standardisation, Innovation, Integration







- **World Wide**
- Fast Implementation
- **Low Administration**
- Cost Efficient
- **Industry Driven**
- **Result Oriented**
- **Innovative and Creative**
- Sustainable Approach
- **Base Line Control**
- **Correct Data Quality**





B. Port & Ship Safety Tool Box

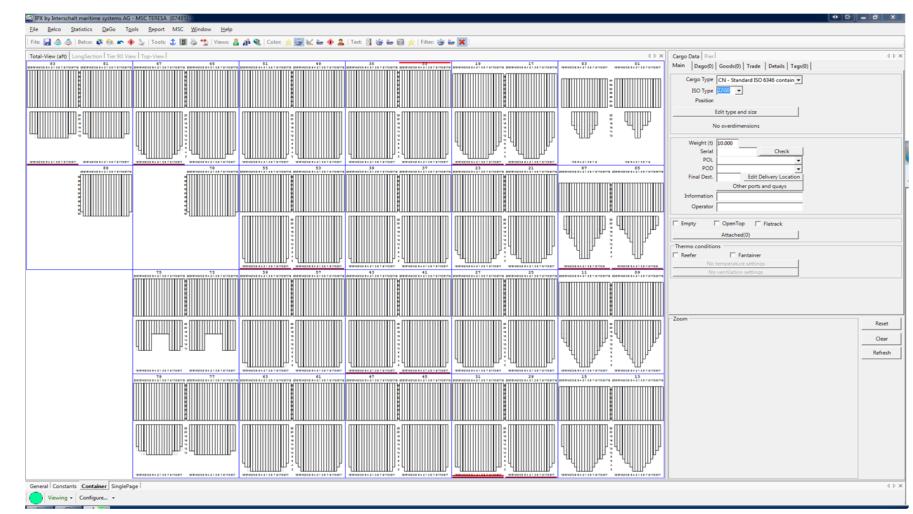
- √ IMO control
- √ Ship Emergency
- ✓ Port Emergency
- ✓ Q-Data Availability



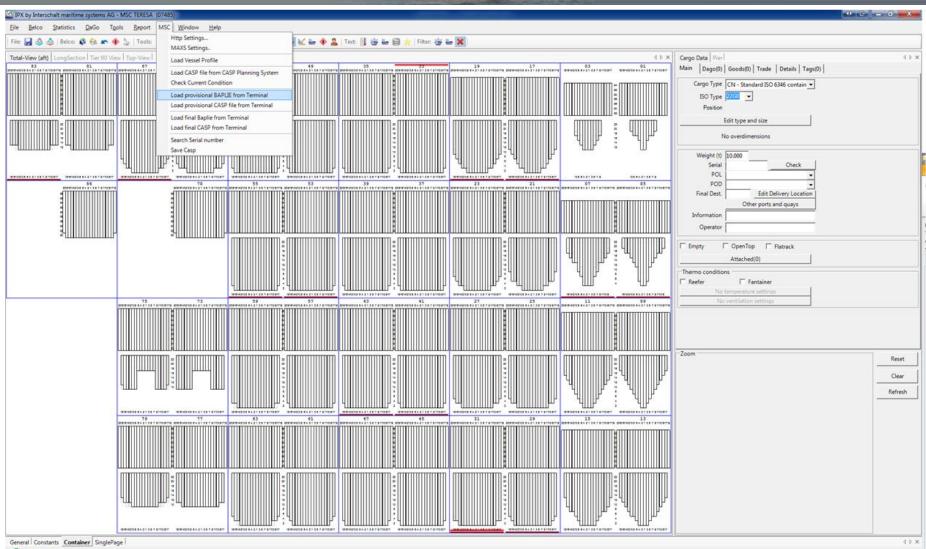


Utilities of the Safety Tool Box

The IMDG Check

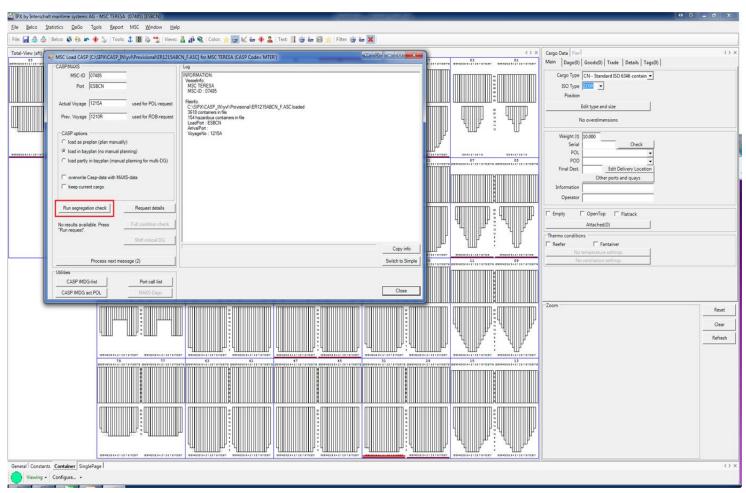


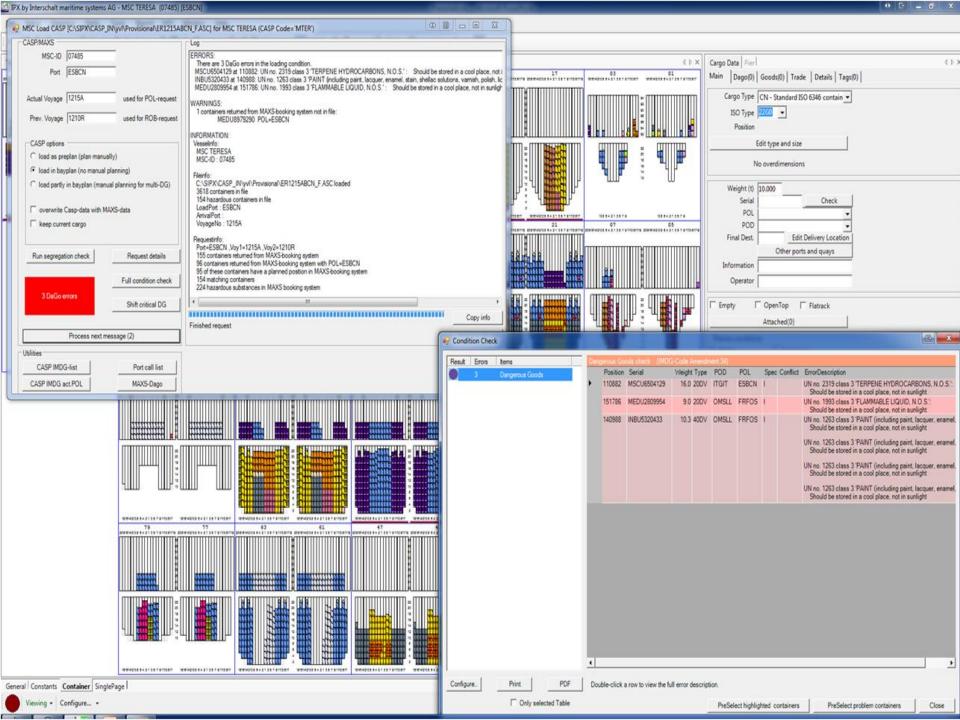




Viewing • Configure... •

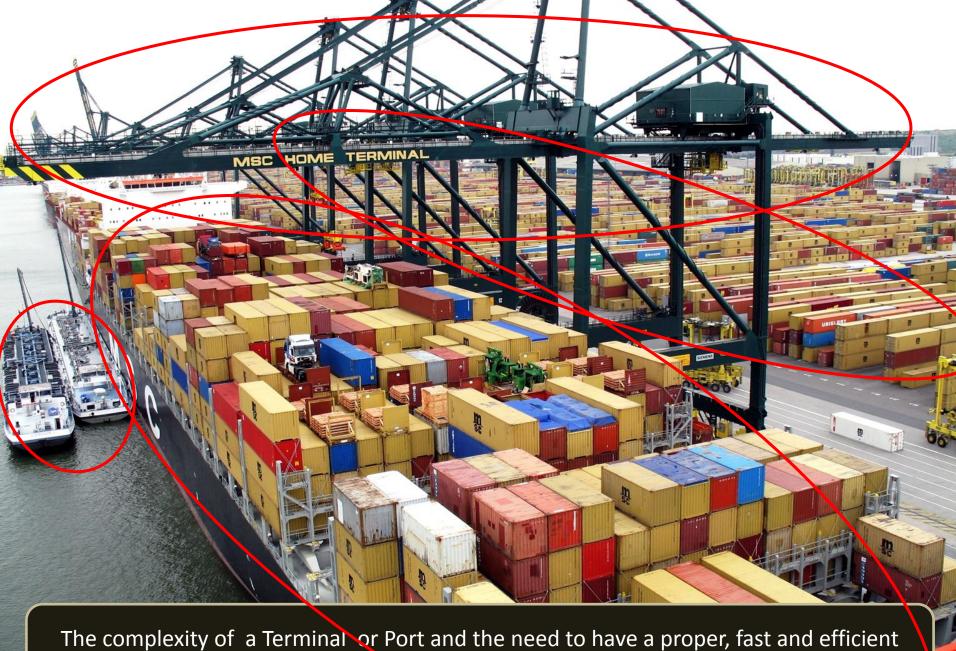






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ngerou	s goods, All item	6						
05.	Serial Number 1	POL	POD	UN	Class	MarPol	PGr	Net W. Technical Name
50606	CAIU2771987	ESBCN	OMSLL	2590	9	no	III	20200.000 WHITE ASBESTOS (chrysotile, actinolite, anthophylite, tremolite)
1318	CAJU2780171	ESVLC	KRPUS	1507	5.1	no	111	20000.000 STRONTIUM NITRATE
0312	CARU9894151	ESBCN	AEJEA	1013	22	no		3400.000 CARBON DIOXIDE
0312	CARU9894151	ESBCN	AEJEA	1066	22	no		15.000 NITROGEN, COMPRESSED
0106	CARU9969965	FRFOS		1197	3	no	101	2000.000 EXTRACTS, FLAVOURING, LIQUID
0106	CARU9969965	FRFOS	AEJEA	2810	6.1	no	111	5,000 TOXIC LIQUID, ORGANIC, N.O.S.
0106	CARU9969965	FRFOS		2810	6.1	no	III	50.000 TOXIC LIQUID, ORGANIC, N.O.S.
0106	CARU9969965	FRFOS		2810	6.1	no	III	50,000 TOXIC LIQUID, ORGANIC, N.O.S.
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0106	CARU9969965	FRFOS		3082	9	no (r)	III	15,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
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0106	CARU9969965		AEJEA	3082	9	no	Ш	40.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0106	CARU9969965	FRFOS		3082	9	no	III	50,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0106	CARU9969965	FRFOS	AEJEA	3082	9	no	Ш	70.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0106	CARU9969965	FRFOS		3082	9	no	Ш	145,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0106	CARU9969965	FRFOS	AEJEA	3082	9	no	Ш	200,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0106	CARU9969965	FRFOS		3082	9	no	III	290.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0106	CARU9969965	FRFOS	AEJEA	3082	9	no	III.	390.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0106	CARU9969965	FRFOS	AEJEA	3082	9	no	Ш	1005.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0106	CARU9969965	FRFOS	AEJEA	3082	9	no	III	1115.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
1316	CAXU4019266	ITSPE	AEJEA	3082	9	no	HI	4320.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0212	CAXU6621550	ESBCN	OMSLL	2590	9	no	Ш	20200.000 WHITE ASSESTOS (chrysotile, actinolite, anthophylite, tremolite)
0604	CLHU2380323	ESBCN	OMSLL	2590	9	no	III	20200,000 WHITE ASSESTOS (chrysotile, actinolite, anthophylite, tremolite)
1586	CLHU2655729	FRFOS	OMSLL	2929	6.1	no	11	16800,000 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
0310	CLHU3834992	ESBCN	OMSLL	2590	9	no	III	20200.000 WHITE ASBESTOS (chrysotile, actinolite, anthophylite, tremolite)
0810	CRXU1124637	ESBCN	KRPUS	1408	43	no	III	18020,000 FERROSILICON, with 30% or more but less than 90% silicon
0312	CRXU1422328	ESBCN	OMSLL	2590	9	no	III	20200.000 WHITE ASBESTOS (chrysotile, actinolite, anthophylite, tremolite)
0610	CRXU1766299	ESBCN	OMSLL	2590	9	no	III	20200.000 WHITE ASBESTOS (chrysotile, actinolite, anthophylite, tremolite)
0206	CRXU1766935	ESBCN	OMSLL	2590	9	no	7111	20200,000 WHITE ASBESTOS (chrysotile, actinolite, anthophylite, tremolite)
0606	CRXU2189490	ESBCN	KRPUS	1408	4.3	no	III	18020.000 FERROSILICON, with 30% or more but less than 90% silicon
0282	CRXU2577108	ITSPE	KRPUS	3106	5.2	no	-	7000.000 ORGANIC PEROXIDE TYPE D, SOLID
	CRXU4771004	ESBCN	OMSLL	1950	2	no		250,000 WASTE AEROSOLS
0506	CRXU8618230	FRFOS		3257	9	no	Ш	19980,000 ELEVATED TEMPERATURE LIQUID, N.O.S., at or above 100°C c.c. and below its flashpoint (including molten metals, m
	CRXU9740140	FRFOS	AEJEA	3082	9	and the second second	111	4492,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0108			AEJEA		-	yes (P)		
0318	CRXU9773524	ESBCN		3082	9	yes (P)	III	56,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	111	361,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	III	1329,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	III	112.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	- 111	224.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	111	28,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	III	112.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	Ш	221,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	III	392,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	Ш	28,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	Ш	56,000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0318	CRXU9773524	ESBCN	AEJEA	3082	9	yes (P)	Ш	1220.000 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
0404	CXDU1350621	ESBCN	KRPUS	1408	4.3	no	III	18020.000 FERROSILICON, with 30% or more but less than 90% silicon
	DFSU2723980	ESBCN	OMSLL	2590	9	no	III	20200.000 WHITE ASBESTOS (chrysotile, actinolite, anthophylite, tremolite)
	DFSU2911925	ESBCN	OMSLL	2590	9	no	111	20200.000 WHITE ASBESTOS (chrysotile, actinolite, anthophylite, tremolite)
0306	DFSU6756745	ESBCN	AEJEA	1266	3	no	11	9463.000 PERFUMERY PRODUCTS, with flammable liquid
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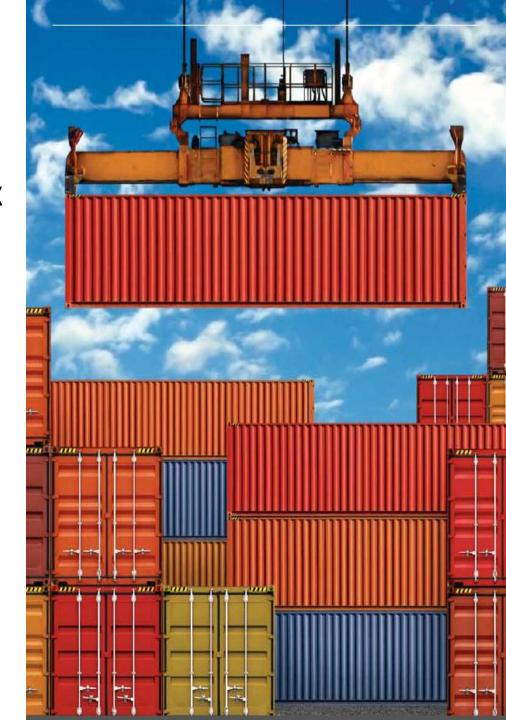


The complexity of a Terminal or Port and the need to have a proper, fast and efficient emergency system available that combines the ship and yard cargo information.



C. Eco Ship & Port Tool Box

- ✓ Energy Efficiency (SPS)
- ✓ Bunker ITL EDI Messages
- **✓ IMDG MEPC**
 - > EEDI
 - > EEOI
 - **>**SEEMP
- √ WPCI ESI
- **✓ LNG bunker logistics**



The ECO Tool Box for the Maritime Industry





ECO Design, Research & Development

Data Standardisation & Optimalisation
Environmental Risk Assessment
Sustainability and Eco Design & Research
Energy Efficiency in the Maritime & Transport
Industry





Necessary documents

- NOx Technical File(s)
- (Finial) Trim and Stability Booklet
- Light weight certificate (if applicable)
- Sea trial report
- Model test report/results



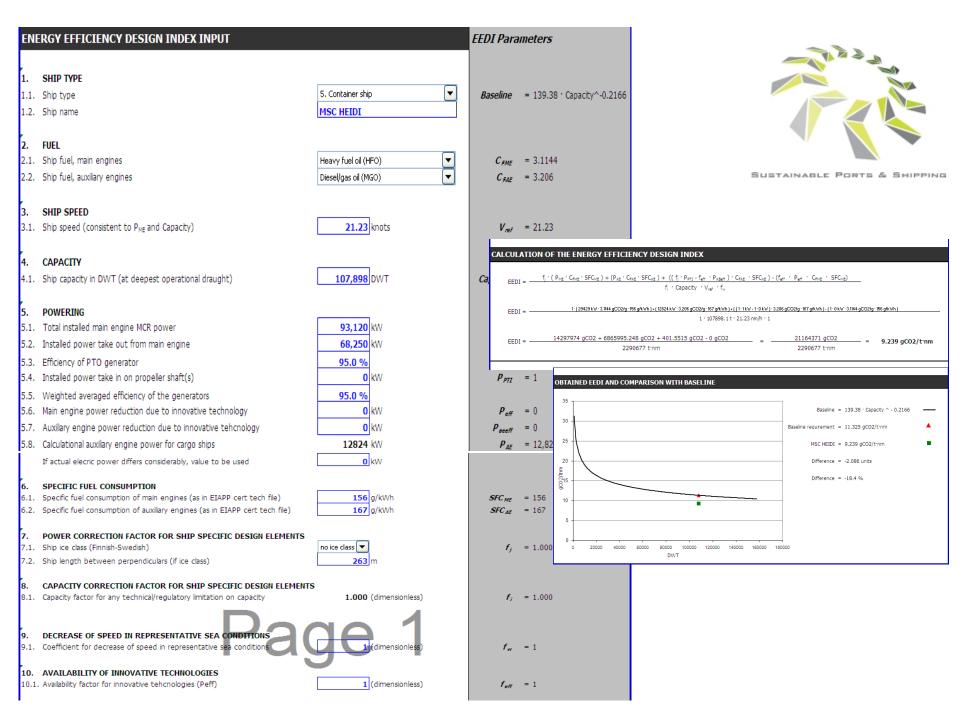


Mission

- The Network is an International Collaborative Group of Ports, Terminals,
 Carriers, In-land Transporters, Classification Societies and if required
 Consultants with a general or specific expertise in areas where companies, local
 and national governments can improve the socio-environmental performance of
 their supply chains or transport infrastructure.
- Our focus is to collect accurate, complete, consistent and transparent quality data of contaminants to land, sea or air.
- Further to calculate the amount and impact of these contaminants caused by logistics activities and to provide a wide range of effective and equitable solutions to reduce energy use and emissions from logistics activities in the total supply chains.

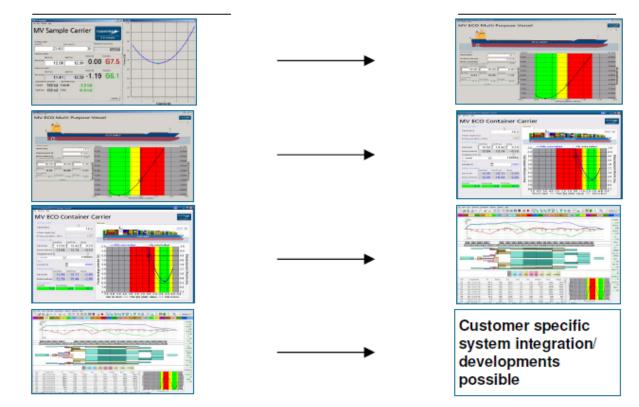


- The second objective is to work in an international and scientific environment. This means that methodologies are valued, corrected, finetuned and improved within an on-line and empiracly controlled data system.
- The third objective of the organisation is to detect abnormal emissions to land, sea or air. This can be done via the set up of a Traffic Control System that alerts consequently the appropriate authorities whom can plan actions as per registered mandate.
- This ecologic-socio-economic performance control system of the supply chains or transport logistics can improve all related logistics activities on a world wide basis via proper analytics and steared research, design and or related development



More to come

- Modules are developed and managed
 - ✓ centralised manner → regulation and data update
 - ✓ i.f.o. the needs of stakeholders and members
 - ✓ and verified by academic people





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Integrated Sustainable Efficiency Design
Through Global Cooperation