COLLABORATION METHOD
ZERO VISION TOOL

Zero Vision Tool

Maritime stakeholder platform in the Baltic Sea Region

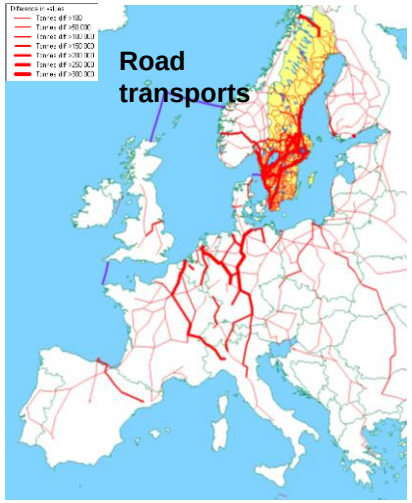
Maritime Technology and the Baltic Sea Strategy
26-27 March 2015

Carl Carlsson, Swedish Shipowners´ Association and
Zero Vision Tool

A collaboration method developed & established by SVERIGES REDARE-FÖRENING SSPA

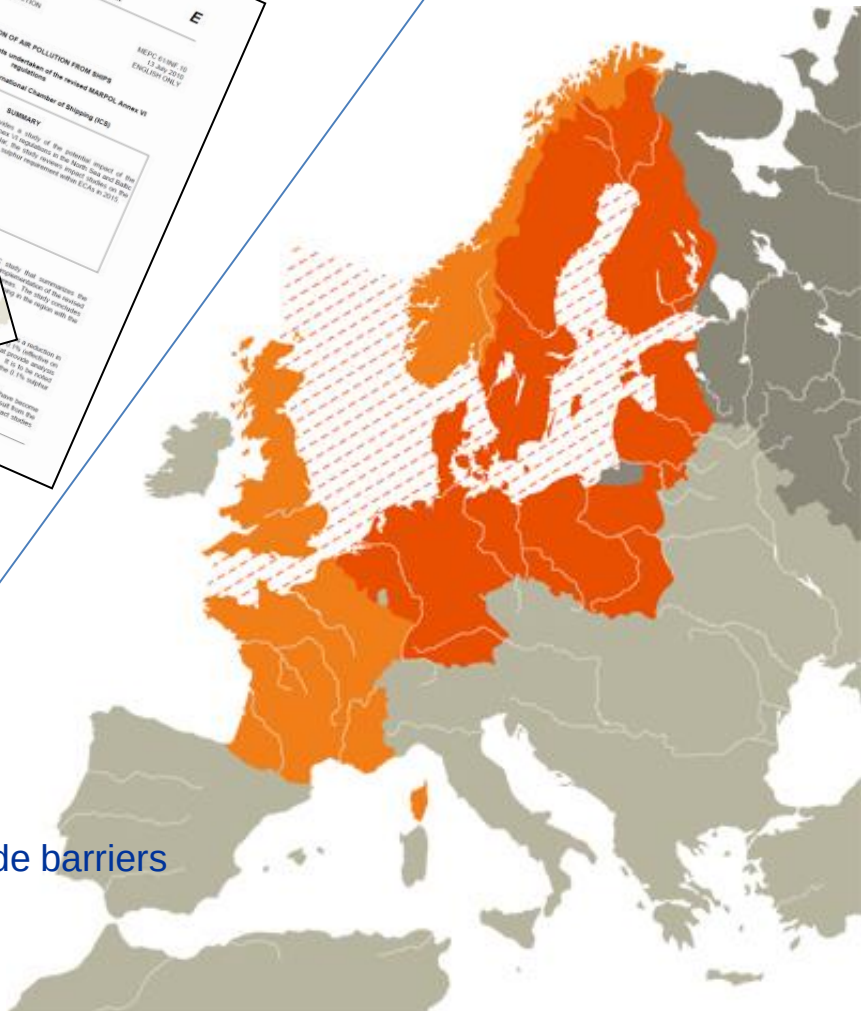
the Background – *"…do your homework.."*

IMO Marpol Annex VI, (S)ECA at 0.1%, 2015



Modal shift to roads 2015

- Modal back-shift
- Distortion of competition / Trade barriers
- *Impact Assessments!*



COLLABORATION METHOD
ZERO VISION TOOL

the CHALLENGE

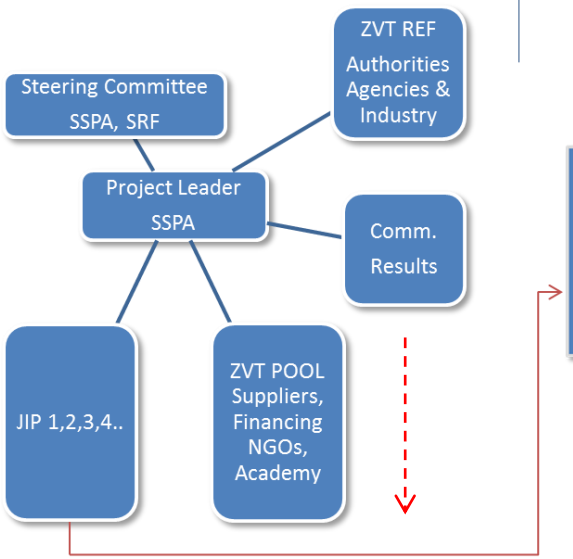
- *Increase* economic growth
- *Increase* welfare
- *Increase* transport by sea
- *Reduce* negative environmental impact, accidents and energy consumption

COLLABORATION METHOD
ZERO VISION TOOL

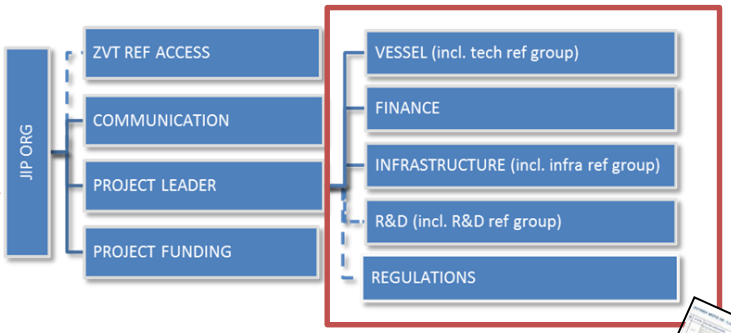
the STRATEGY & METHOD

Co operation, knowledge sharing and structure

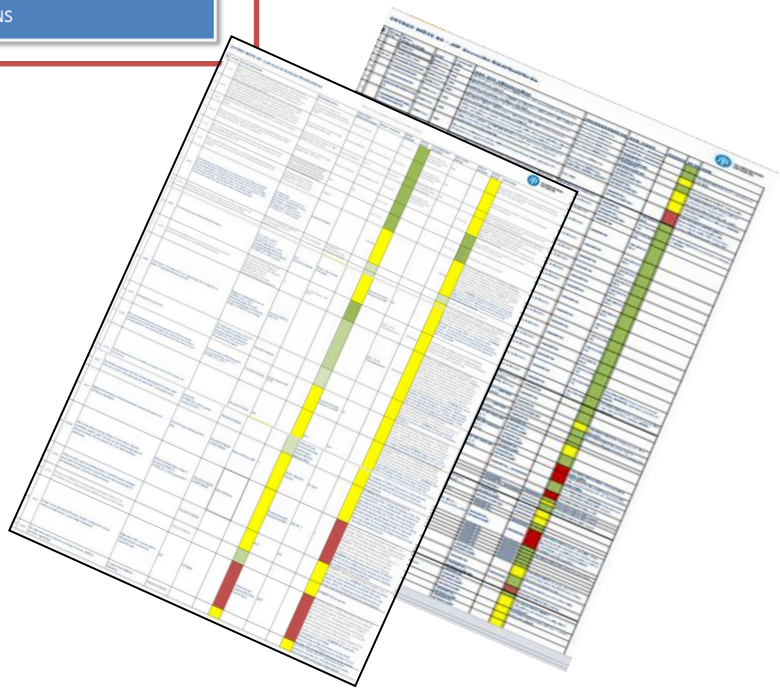
ZVT STRUCTURE



JOINT INDUSTRY PROJECT (JIP) STRUCTURE



VESSEL
FINANCE
INFRASTRUCTURE
R&D
REGULATIONS



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LNG CONV: www.zerovisiontool.com/lngconv
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Baltic Solution: www.zerovisiontool.com/balticsolution
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COLLABORATION METHOD
ZERO VISION TOOL

the ROADMAP

Sustainable Baltic Sea Shipping

Green Technology and Alternative Fuels

Draft Roadmap

for future actions 2014 – 2016 and 2017 – 2025

Shaping the future together

Framework for the transport work programmes
under
the Connecting Europe Facility

Baltic SO$_2$lution

COLLABORATION METHOD
ZERO VISION TOOL

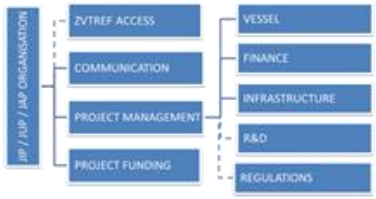
Gained experiences forwarded to the Roadmap

the ZVT-Method

Start

A solution to
a maritime issue

JIP, JAP or JUP established



Several different stakeholder agree to the solution and joint expectations are defined

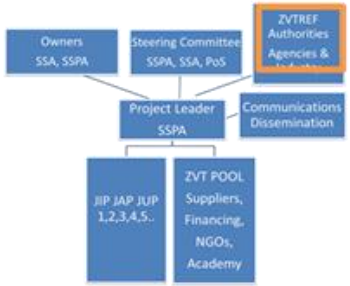
Areas to look into

Vessel, infrastructure, finance, regulation, R&D – what is affected and how

R/G/G traffic lights

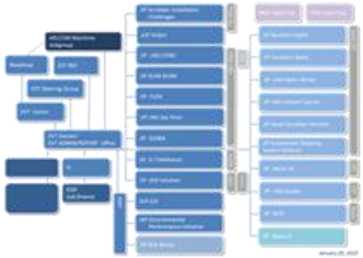
What can the JIP/JAP/JUP solve themselves, what needs feedback and what needs to be dealt with by another party – to reach the zero vision

ZVTREF



Quarterly RGG reports to Authorities, Governmental bodies, solving or moving issues forward

Collaboration



Cooperation both within and outside the ZVT network, for instance with HELCOM, ESSF and industries to solve issues

Dissemination

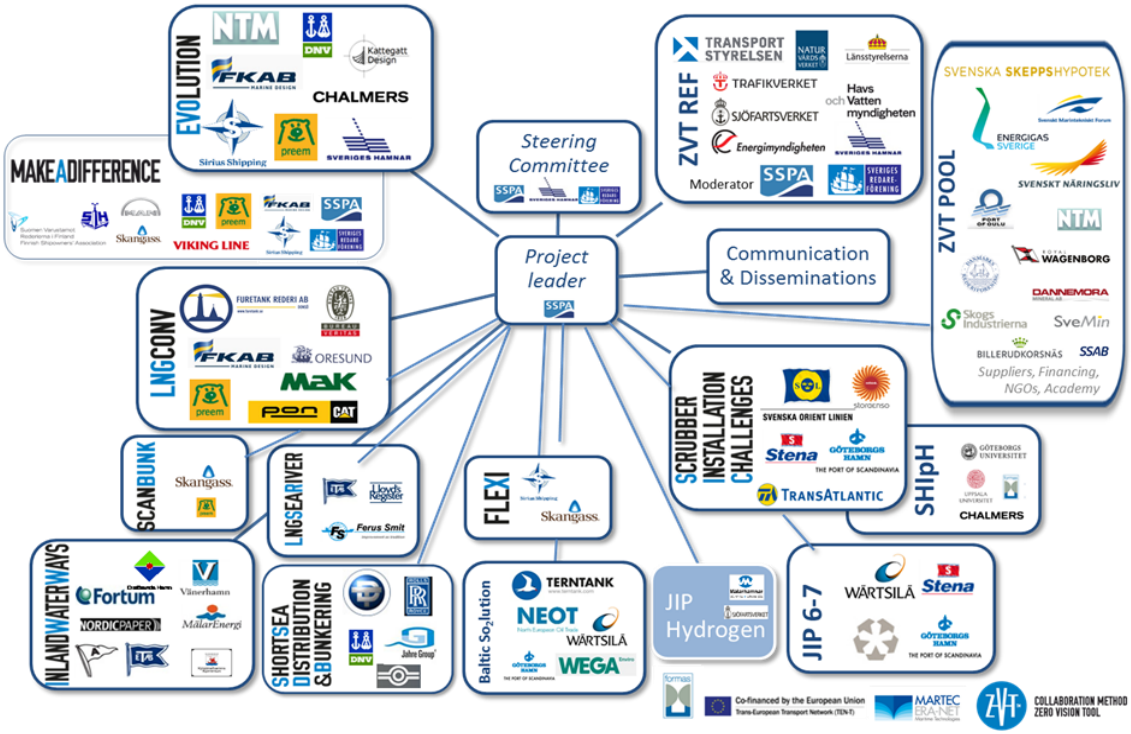
Share lessons learned, share knowledge and network - via seminars, web, film, social media

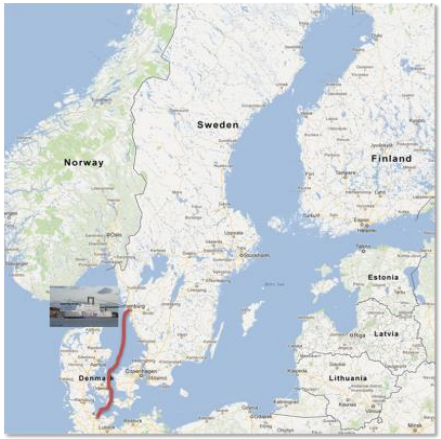
Wider benefit

Benefits to the society, sea and industry – a more safe, environmentally and energy efficient as well as profitable transport at sea

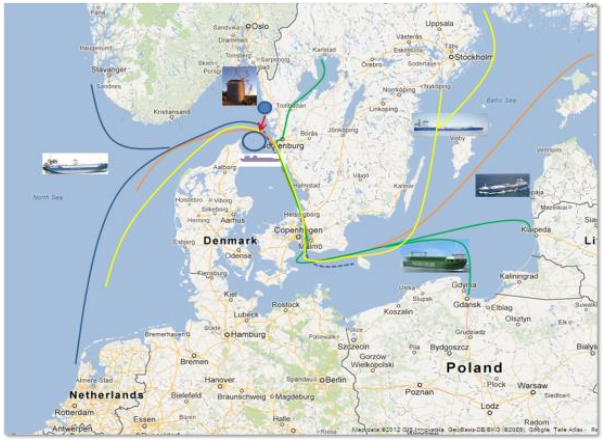
the STATUS 2014

- **140** organizations,
- **12** JIP,
- **7** Countries
- **3** Pilots and
- **1** JUP
- **€52** million EU grant !
- Industry invests **€158** million





Pilot Metanol



Pilot LNG

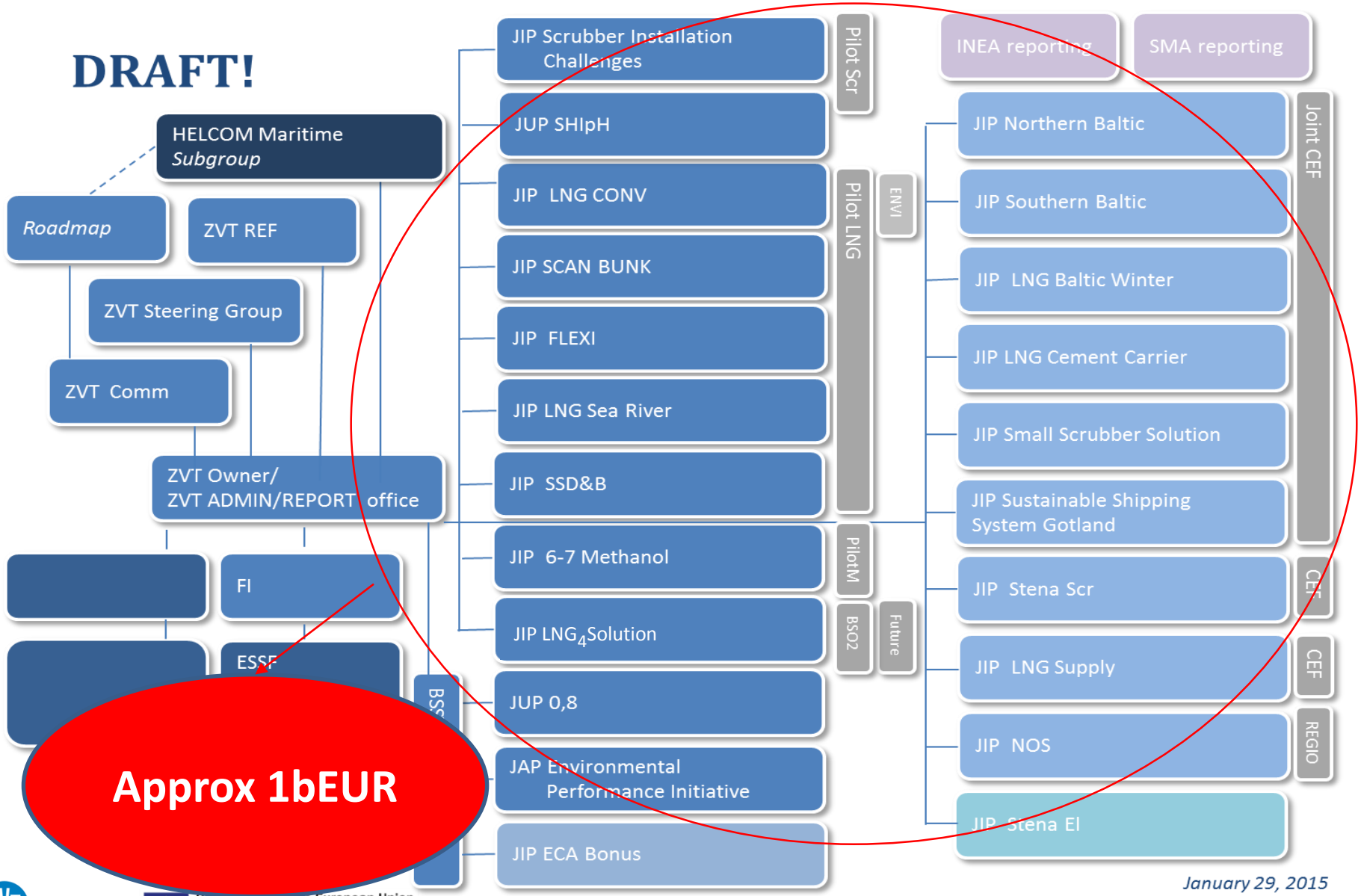
Pilot Skrubber

Baltic SO_2lution

COLLABORATION METHOD ZERO VISION TOOL

Co-financed by the European Union
Trans-European Transport Network (TEN-T)

the Todays status of JIPs 2015

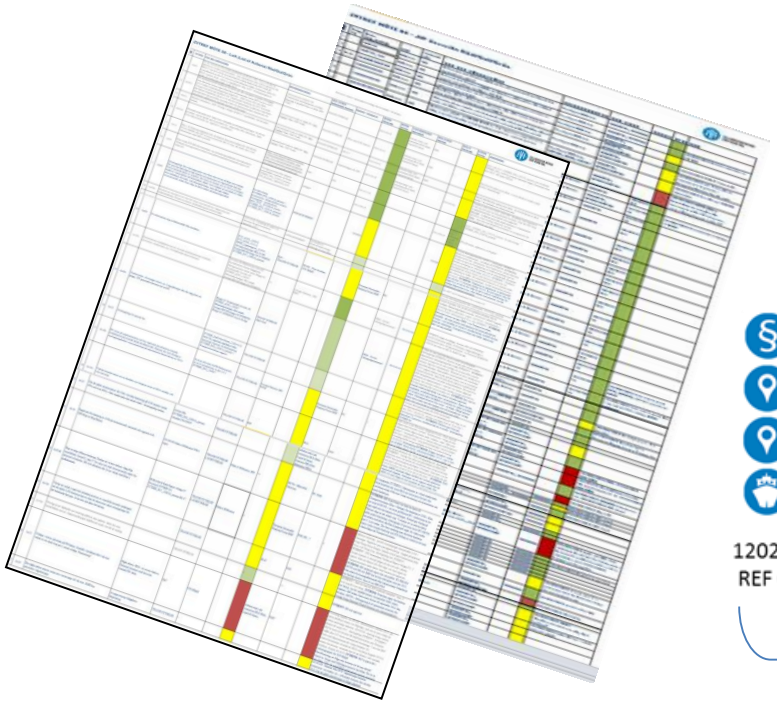


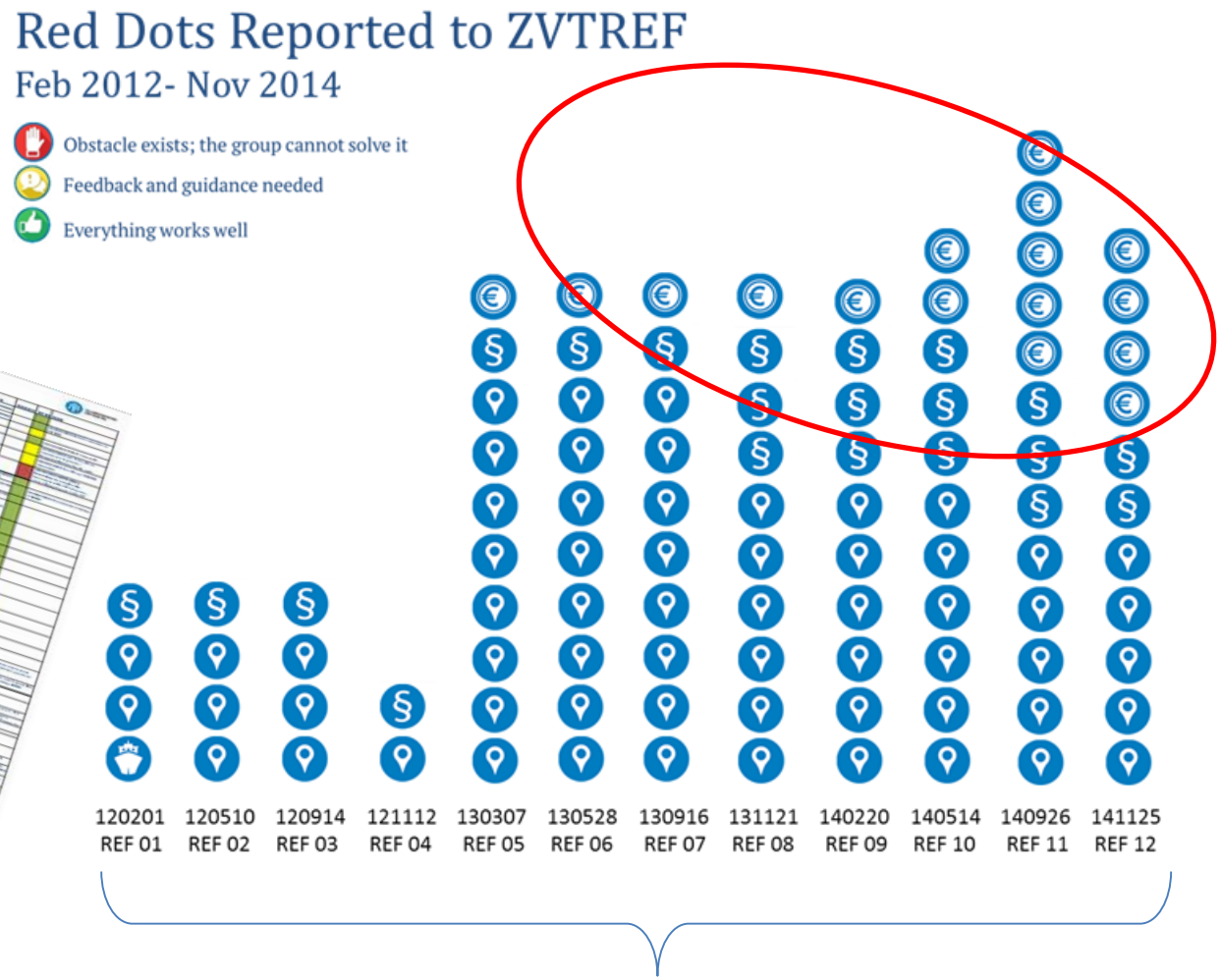
January 29, 2015

COLLABORATION METHOD ZERO VISION TOOL

Co-financed by the European Union
Trans-European Transport Network (TEN-T)

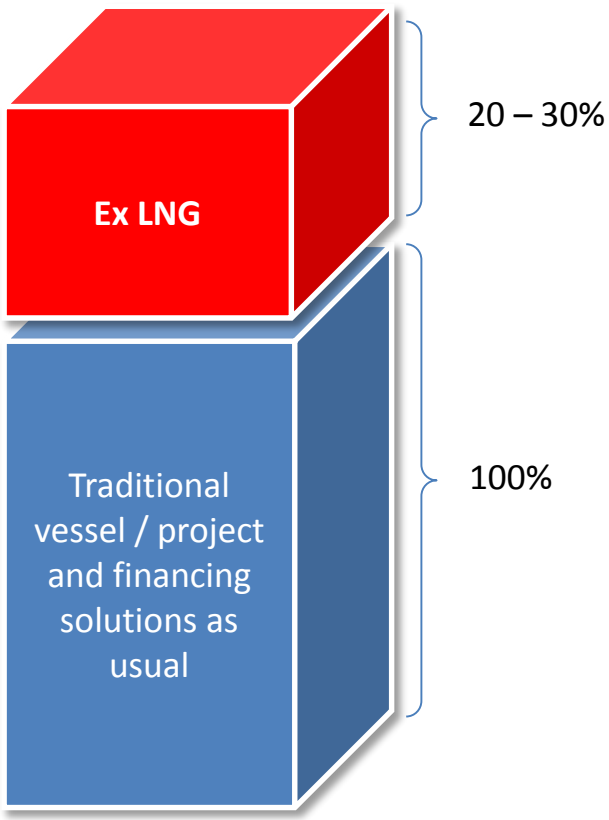
the Status of R/Y/G





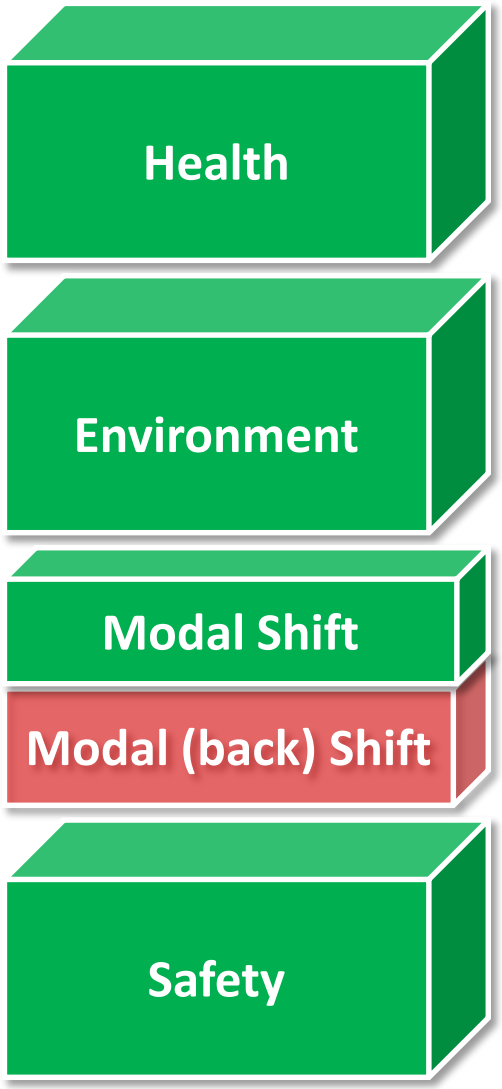
Need for Financial Mechanisms to continue the transition to, and reach, a more environmentally effective transport at sea, not just rely on co-funding

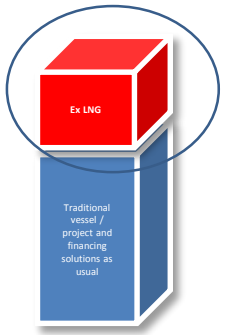
Why?


Ex LNG
20 – 30%
Traditional vessel / project and financing solutions as usual
100%

MEASURE

"Benefit to the Society and Baltic Sea"





Ton and Euro?

MEASURE
"Benefit to the Society and Baltic Sea"

Industry needs

Protection of the environment and "benefit to the society and the BS"

A financial mechanism

7 – (10) MEuro

Emission	Reduction with LNG engine [%]	Reduction LNG engine[tonnes/year]	Reduction with LNG + other environmental measures [%]	Reduction LNG + other measures [tonne/year]
SO_X	100%	124 tonne	100%	124 tonne
NO_X	85%	309 tonne	97%	353 tonne
CO_2	25%	4 828 tonne	40%	7 725 tonne
PM	98%	21 tonne	99%	21,2 tonne
Waterdischarge		**Reduction**		
Black/Grey water		100%		
Oil		100%		
Other		**Reduction**		
Noise		20%		

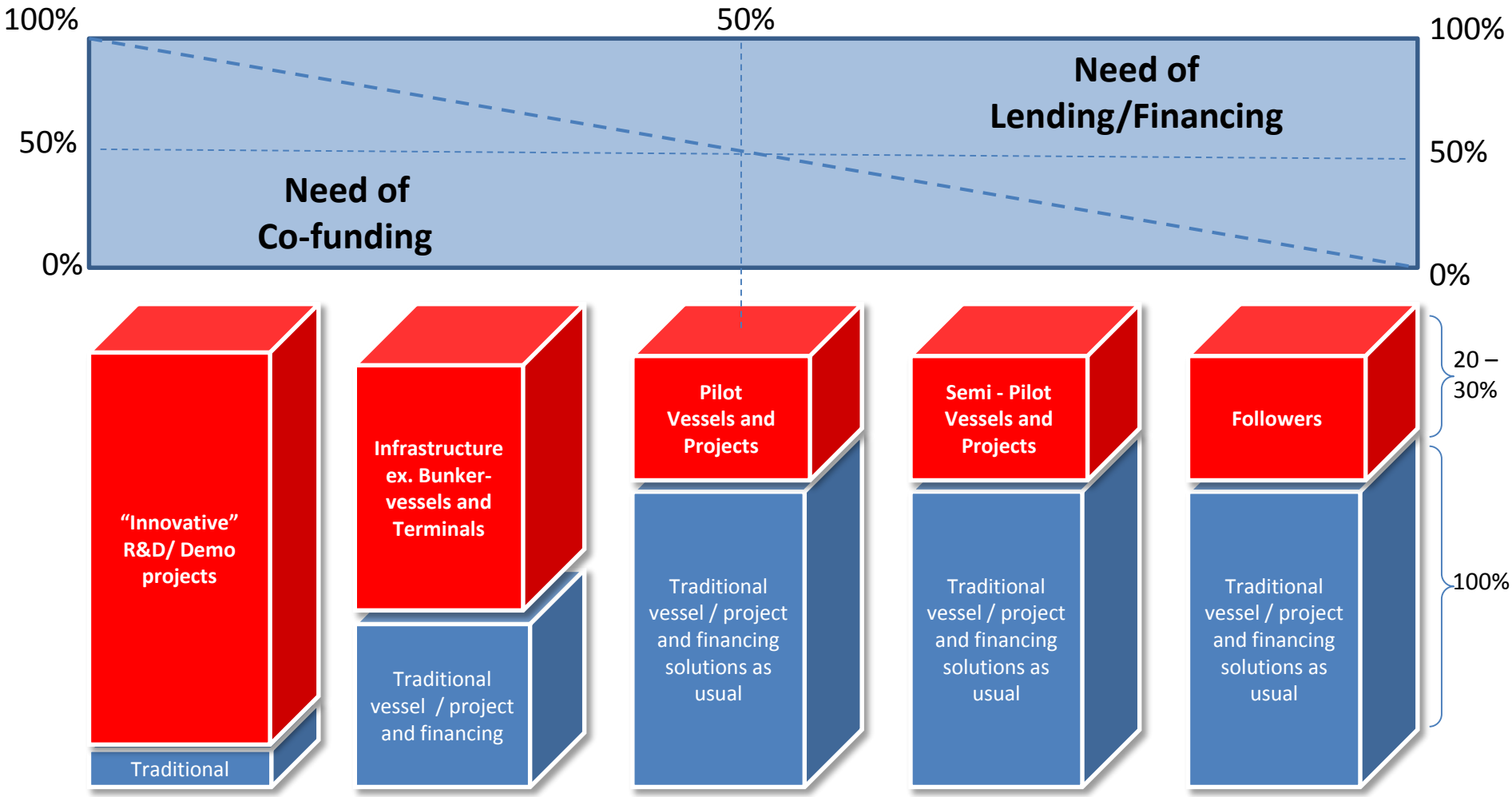
Benefit to the Society (and Baltic Sea)

570 000 – 2 900 000 EUR/Year !

COLLABORATION METHOD ZERO VISION TOOL

Co-funding and Lending

Industry perspective–(Different needs and solutions)



Summary
"The next step…"

PPP-cooperation
- *The Roadmap and HELCOM subgroup*
- *Zero Vision Tool*

Maritime technology
- *Infrastructure for alternative fuels*
- *Methanol*
- *LNG*
- *Scrubbers (closed lope)*
- *Battery*
- *…*

Financial Mechanisms
- *Co-funding*
- *Financial Instrument (lending/Risk sharing fund)*
- *EPI / Index*
- *Early movers rebate*
- *ECA-Bonus*
- *…*

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