



ecoceanne

Integrated Oil Spill Clean Up Vessels



Summary of Presentation

- About ECOCEANE
- Technology / Research and Development
- Workglop 128 model
- Conclusion

Speakers:

Sylvain Montels (Sales Manager)

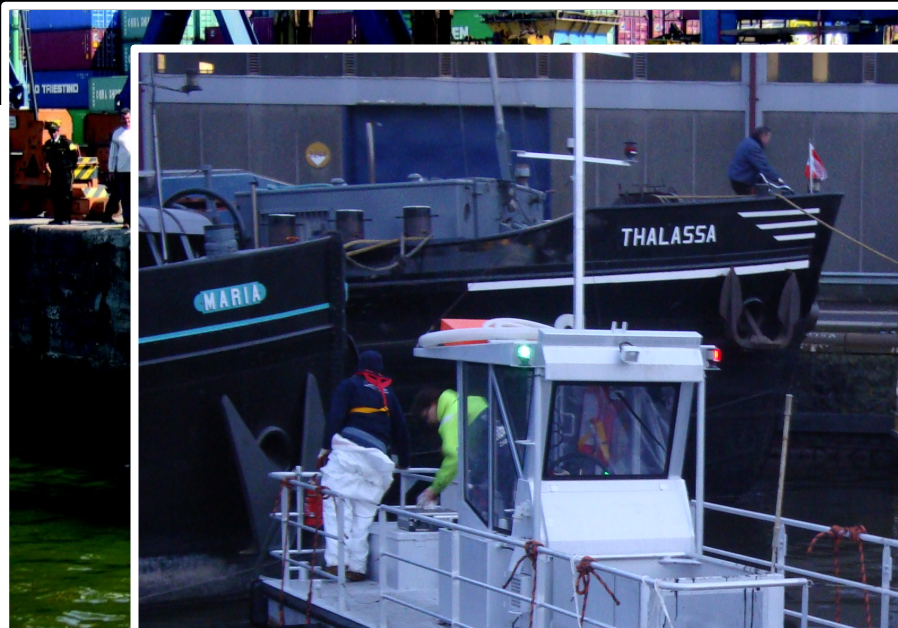
Benjamin Lerondeau (Naval Engineer)



**An innovative technology to fight oil spills
&
to protect the marine environment**

AVOID THIS !





CATAGLOP



COASTLINE & HARBOURS

WORKGLOP



WORKBOAT & CLEAN-UP

SPILLGLOP

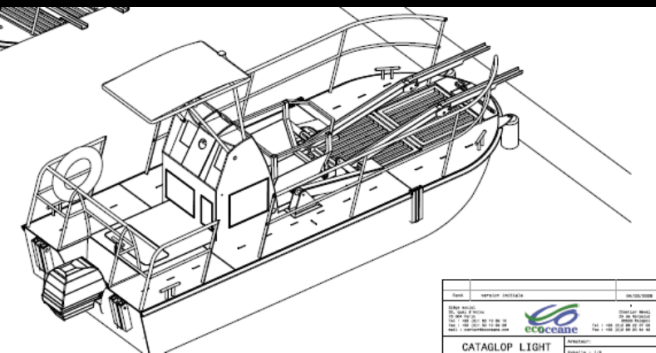
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- | | |
|------------------------|-------------------------|
| ✓ Recovery rate | → 150 m ³ /h |
| ✓ Hydrocarbons storage | → No emulsification |
| ✓ Works up to | → Beaufort Force 6 |
| ✓ Working speed | → 5 Knots |
| ✓ Displacement speed | → 15 Knots |
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SPILL RESPONSE OFFSHORE



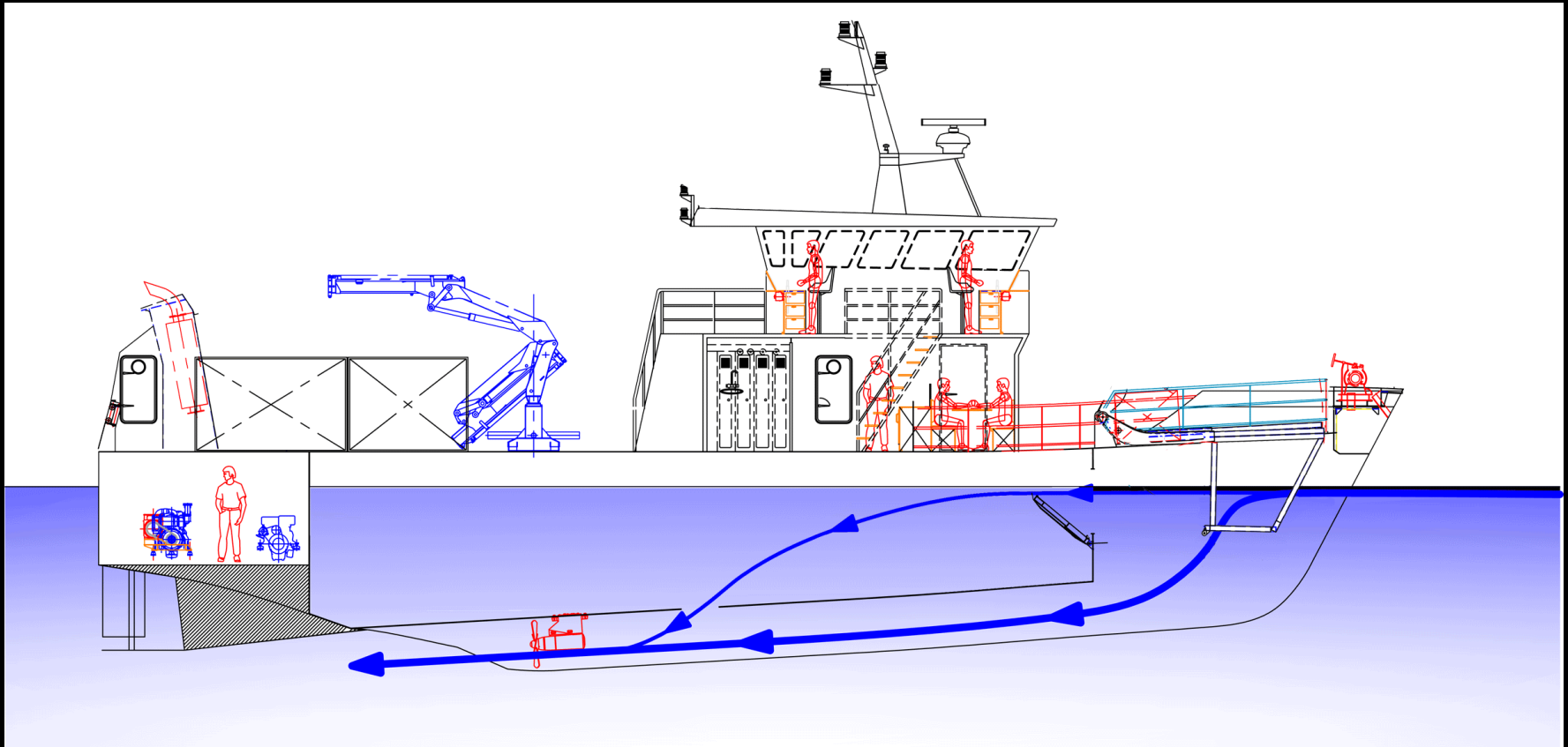
OUR SHIPYARD AND IN-HOUSE R&D



AT KEARNEY



OUR PATENT CONCEPT



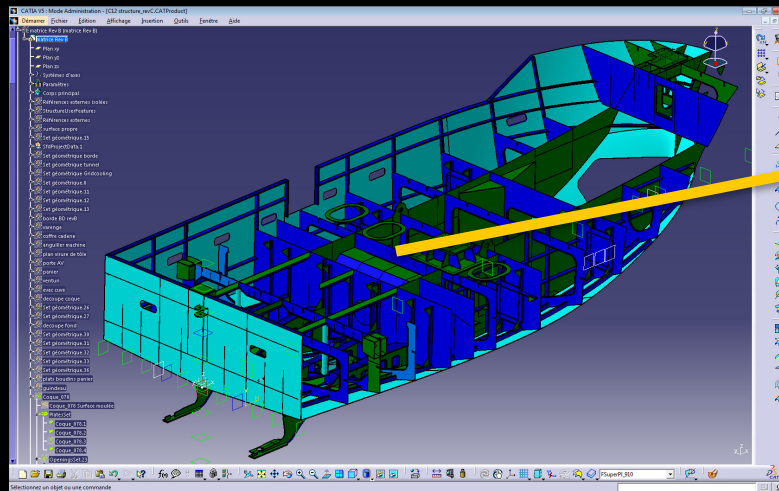
1st flow: evacuates clear water through the turbine,

2nd flow: surface water, polluted by oils and hydrocarbons, pass into a separator.

Design process with CATIA software

Design of the entire project

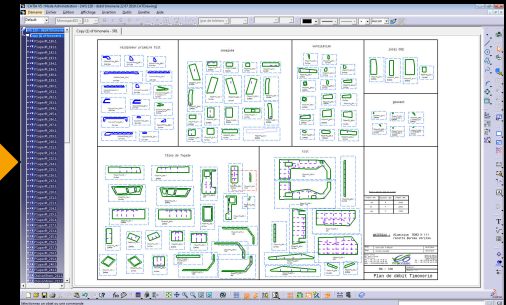
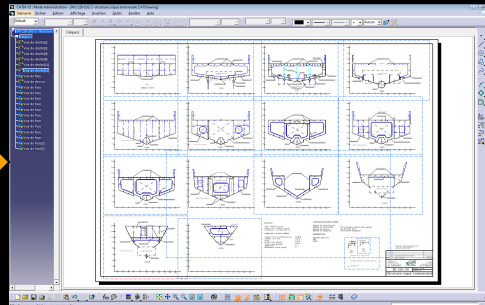
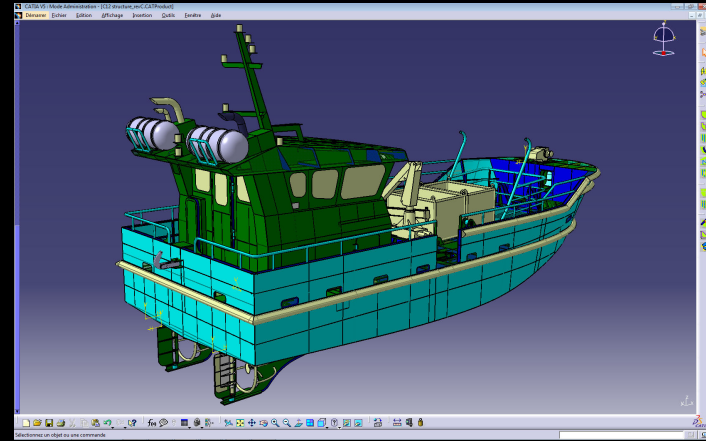
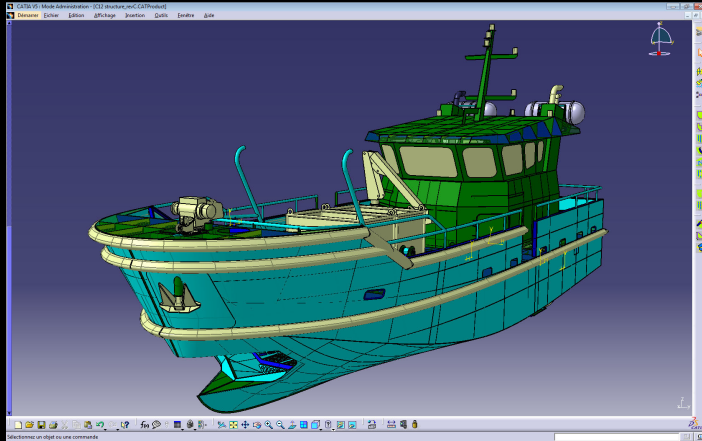
- Design of the hull structure, wheelhouse and all the functional parts of the ship
- Permanent update of the weight computation table



Item	Design	Weight	Volume	Area	Mass	Center of Gravity
1. Hull	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
2. Deck	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
3. Wheelhouse	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
4. Internal structure	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
5. External structure	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
6. Hull	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
7. Deck	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
8. Wheelhouse	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
9. Internal structure	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
10. External structure	1.00	1000.00	1000.00	1000.00	1000.00	1000.00

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5. External structure	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
6. Hull	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
7. Deck	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
8. Wheelhouse	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
9. Internal structure	1.00	1000.00	1000.00	1000.00	1000.00	1000.00
10. External structure	1.00	1000.00	1000.00	1000.00	1000.00	1000.00

Cutting and assembling process



3D Via Composer
Assembly and building
operation

2D drawings
for classification

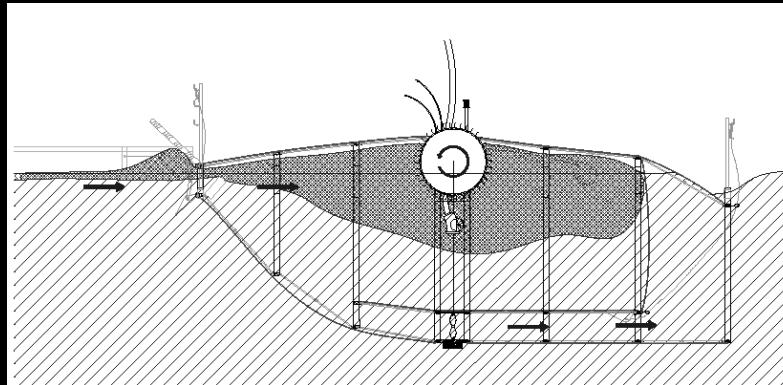
Cutting process with
numerical file

Way of Research & Development

- FireFighting ship made in steel classified FIFI 1 from BV



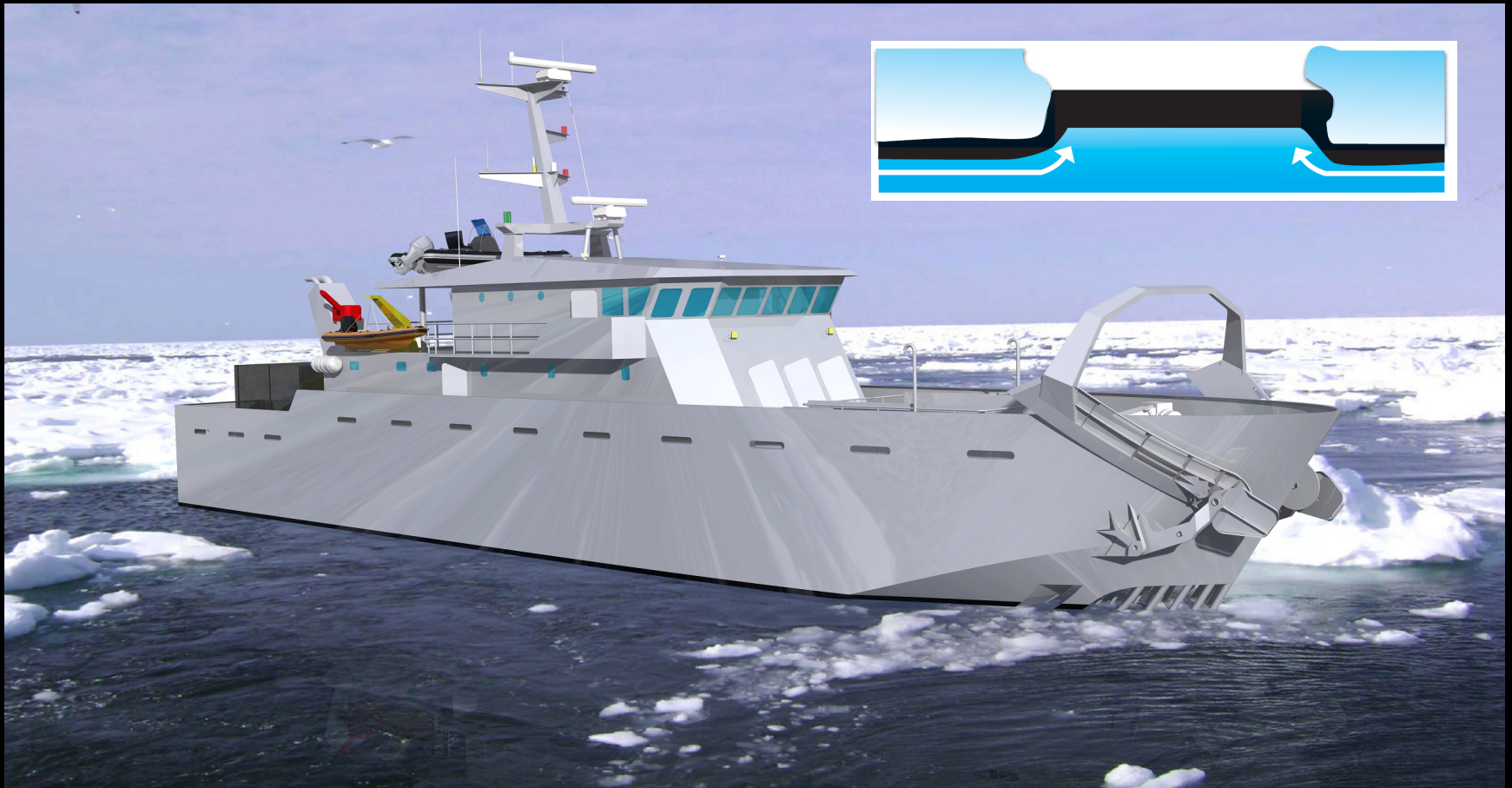
- Unpropelled slug with our patent of separating oil from water towed behind a boat or fixed in a river, can be launch by air (helicopter)



Way of Research & Development

- Oil recovery in icy conditions behind an ice breaker

Once an ice breaker passed through the pack ice, the hydrocarbons rise to the surface



Way of Research & Development



A harrow is incorporated into the bow in order to push aside large blocks of ice

WORKGLOP 128





THANK YOU !