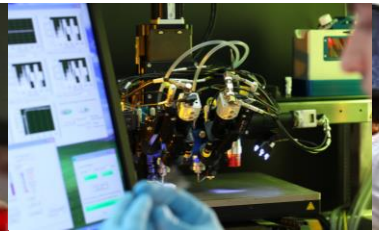
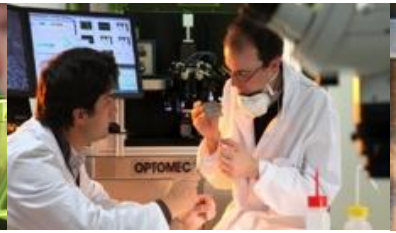

CorrosieLABS®

Interreg
EUROPESE UNIE
Vlaanderen-Nederland
Europees Fonds voor Regionale Ontwikkeling

Corrosion & Coating Monitoring

CorrosieLABS

08/07/2021

Jeroen Tacq
Senior Engineer Metals

sirris
driving industry by technology

CorrosieLABS®

Interreg
EUROPESE UNIE
Vlaanderen-Nederland
Europees Fonds voor Regionale Ontwikkeling

- Grensregio Vlaanderen – Nederland => grote concentratie industrie
- Corrosie is groot probleem: veiligheid, milieu, storingen en stilstand => hoge kost
- Nood aan:
  - testfaciliteiten en kennisborging
  - meer innovatie en samenwerking nodig

CorrosieLABS heeft als doelstelling het ontwikkelen en beschikbaar maken van fysieke testinfrastructuur die toelaat onderzoek en ontwikkeling uit te voeren rond de Preventie, Detectie en Reparatie van corrosie.

KiK|MPi
Kennis- en innovatiecentrum
Maintenance Procesindustrie

KAEFER

North Sea Port
Together. Smarter.

ZEELAND REFINERY

Scalda

sirris
driving industry by technology

Praktijklabo:
Gesimuleerde
industriële omgeving

Onderzoekslabo

Ponton

Sensoren en
meetapparatuur

HZS
Hogere Zeevaartschool

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Scalda

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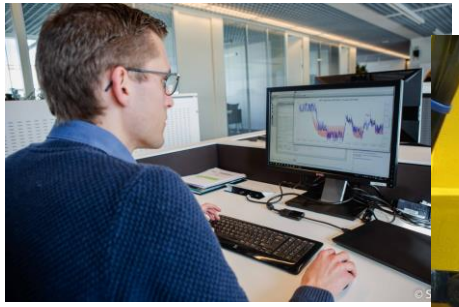
Where we started our work on
Corrosion Monitoring.

What is corrosion monitoring?



Monitoring

=

Continuous Monitoring

COATINGS

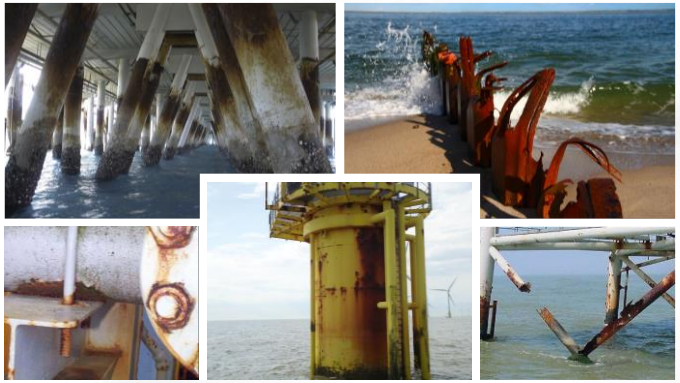
CP

ENVIRONMENT
(water, often internal)

CORROSION

Why monitor Corrosion (offshore)

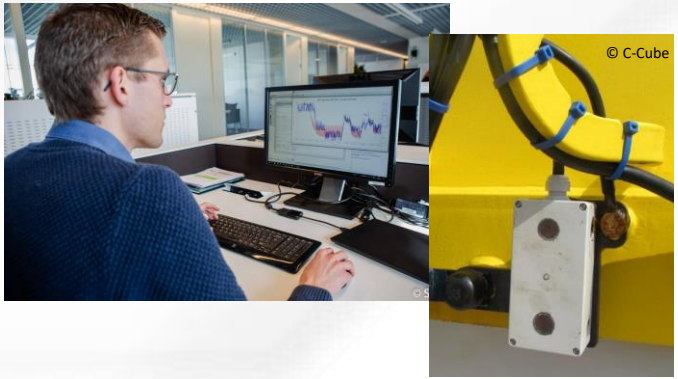
Corrosion is a continuous threat



Requires

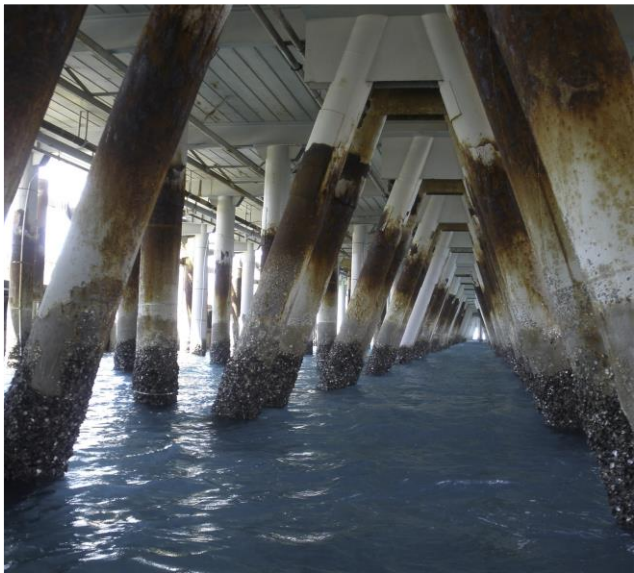
- Mitigating measures
- Must be inspected
- Maintained
- And documented

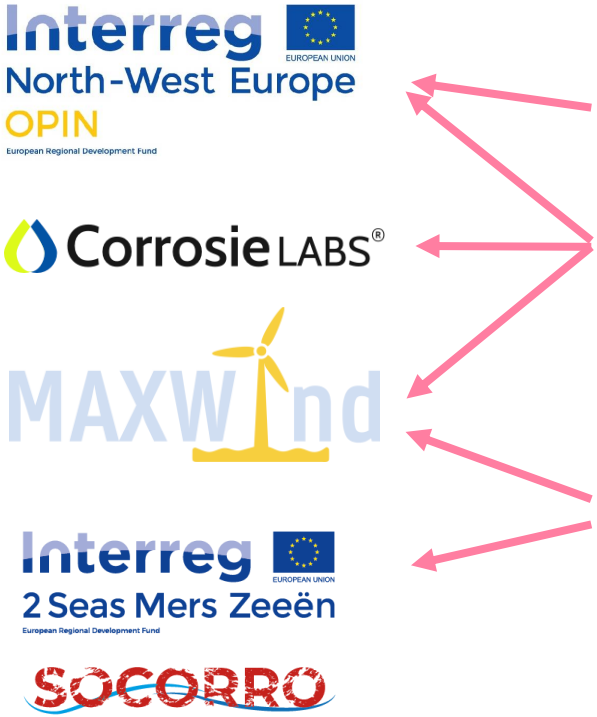
Optimise by continuous monitoring



- Unmanned
- A long way from shore
- Uncertainties about design assumptions and protection measures

Corrosion Monitoring in other sectors





Needs & Expectations

Sensor technology

Data interpretation (and reporting)

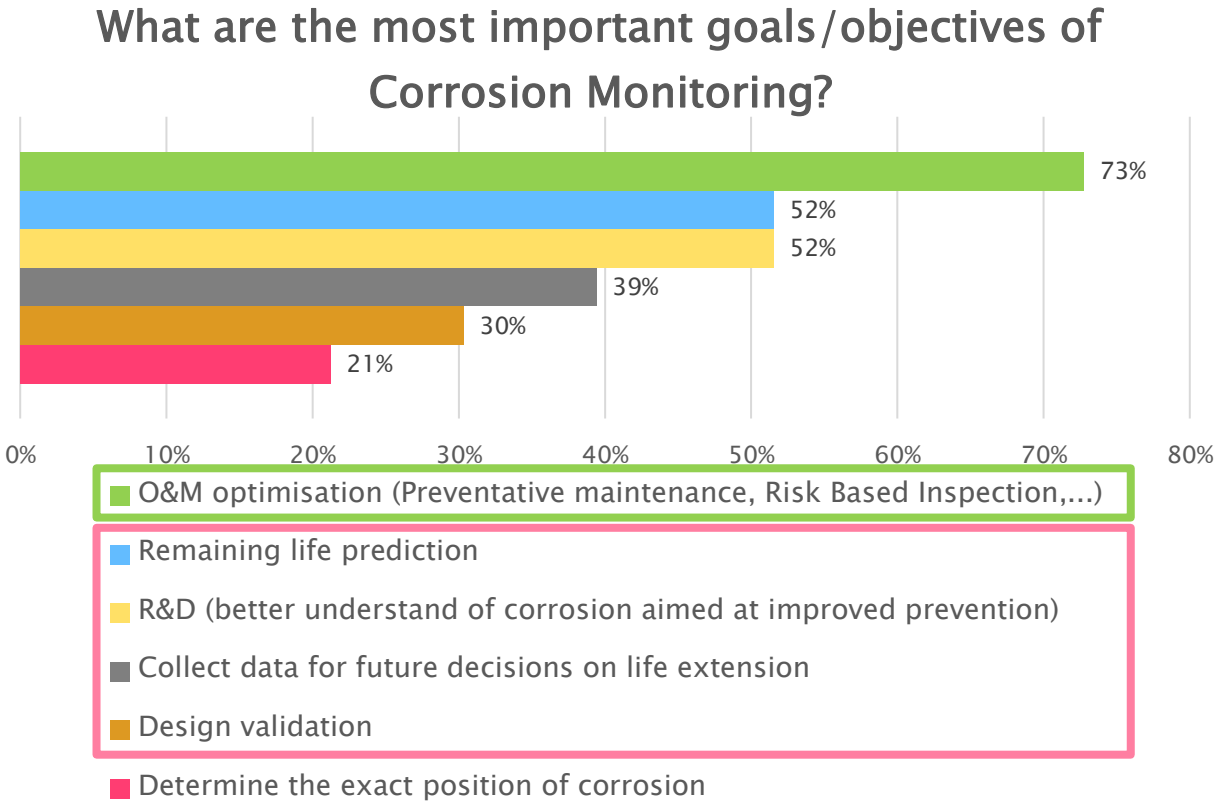
Monitoring Strategy

Contact us for more information!

Needs and Expectations (offshore)

State-of-the-art report, Collaborative Innovation Group on Corrosion Monitoring.

(Not available online, contact me for more information.)



Limited use today (offshore)

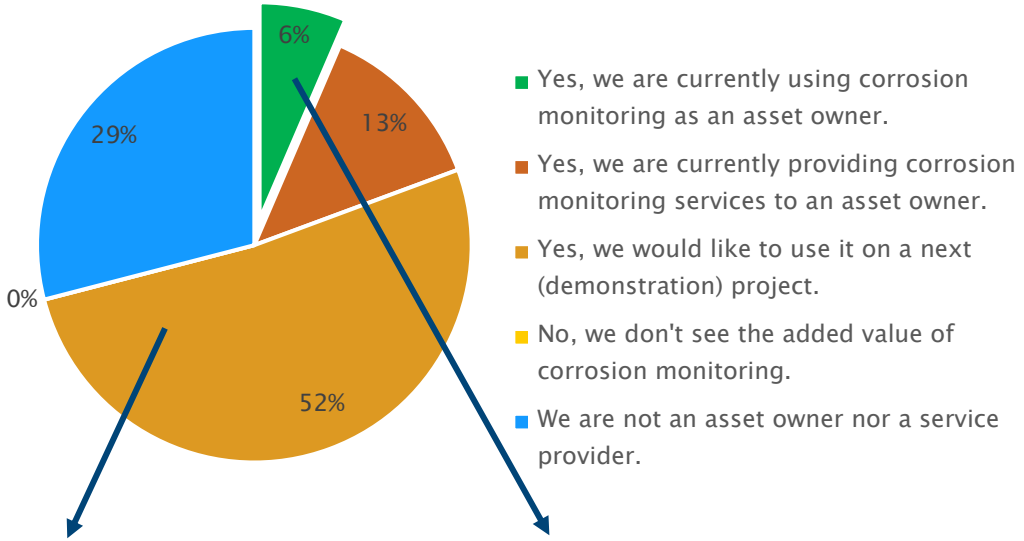
Interreg North-West Europe OPIN
EUROPEAN UNION
European Regional Development Fund

Ocean Power Innovation Network

(https://www.nweurope.eu/projects/project-search/opin-ocean-power-innovation-network/)
FREE to join

Collaborative Innovation Group (CIG) on Corrosion Monitoring

Are you considering the implementation of corrosion monitoring for offshore/ocean energy devices?



Large (expected) potential, limited use!

Corrosion Monitoring has a **LARGE POTENTIAL**,

However, today we know of only one offshore wind asset owner in Europe applying it on a large scale.

What is the Business Case for Corrosion Monitoring?
What is the USP?

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Corrosion Monitoring

Cathodic Protection

Corrosion Rate

Coating Degradation

Environment

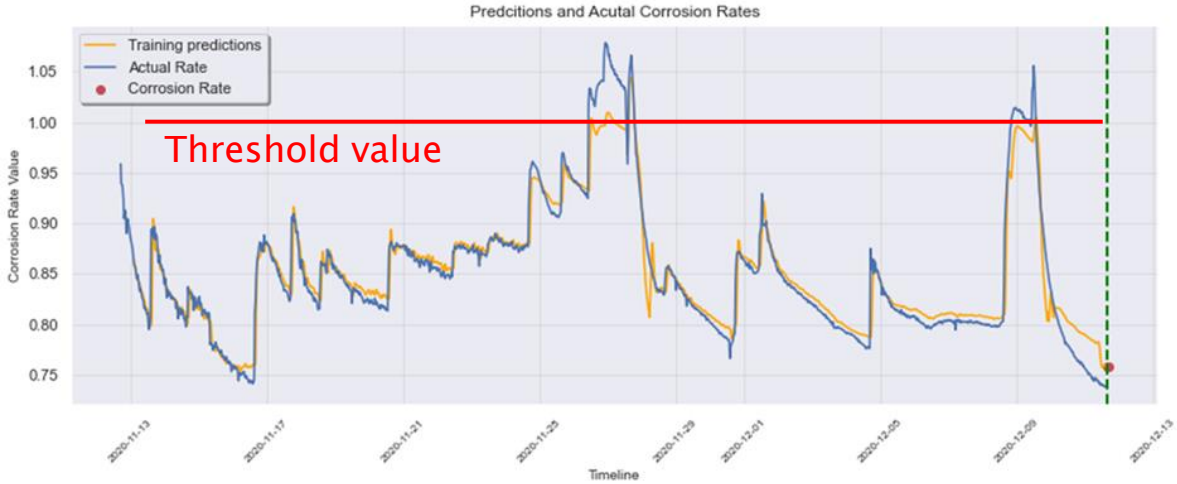
Data interpretation (and reporting)

Interreg 2 Seas Mers Zeeën
European Regional Development Fund
EUROPEAN UNION

SOCORRO

www.socorro.eu

- Environmental parameters and corrosion sensors as a marker for corrosion risk
- AI and knowledge-based models
- Max. and/or Accumulated corrosion risk as thresholds to initiate inspection



Antwerp Maritime Academy
GHENT UNIVERSITY
KU LEUVEN
Cocas
Cobalt Water

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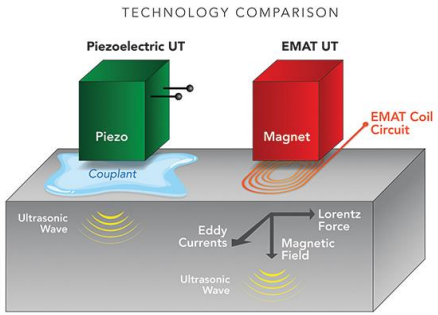
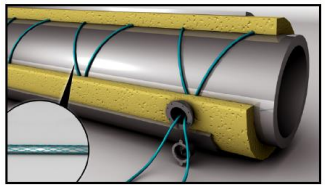
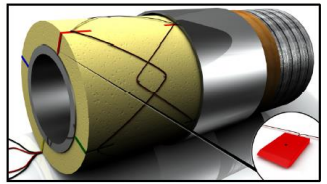
Corrosie LABS®

- Focus op continue monitoring van corrosie voor RBI en ondersteuning van corrosie management
- Technieken voor detectie en inspectie







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KU LEUVEN

Partners for Corrosion Monitoring

C-Cube International bv

KAEFER

PercoSens®

DEKRA On the safe side.

senspro Data Under Insulation

CUI Spotter

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