Engineering & support:
- Concept, basic & detail engineering
- Design review & specification design
- Commissioning & start-up
- Operation support & maintenance planning

System integration:
- System & sensor installation
- Monitoring software development & implementation
- System test, commissioning & training

OUR REFERENCES

350m quay at Montoir near Saint-Nazaire on the Atlantic coast

Windfarm concrete base

CONCRETE MONITORING
IN MARINE ENVIRONMENTS

Monitoring helps operators on- and offshore to avoid unexpected repairs by providing accurate and early indications of structural malfunctioning and behaviour in extreme conditions.

Neopolia is a one-stop shop providing a comprehensive monitoring service for marine concrete structures.

The cluster brings together all its members’ skills and expertise to deliver a distinctive and all-round monitoring solution.

A pioneering solution to help you:
- Boost revenue
- Cut maintenance costs
- Manage the risks
- Understand liability for damage

You’ll definitely be interested!
MONITORING OF CONCRETE

Who?
Who are the potential buyers?
- Array operators
- Maintenance firms
- Constructors
- Demonstrator & prototype projects

Why?
Why commission this service?
- Predict faults in order to carry out preventive & repair action
- Plan maintenance operations in line with O&M schedules
- Reduce the cost of any repairs
- Assess liability in the event of any incident, & to date the onset of the damage

What?
It collects information about:
- Early concrete temperature
- Damage
- Structure stress
- Water infiltration

Where?
This solution mainly applies to:
- Quays
- Monopile steel foundations with grouting junctions
- Jacket foundations
- Floating structures

When?
Our intervention can involve 3 stages:
- From the design & then project call phase
- During the works: monitoring is directly applied to the reinforcement inside the formwork before concrete is poured
- During the maintenance phase for data monitoring & analysis

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Quay
Monopile
Jacket
Floating structure
Concrete structure
Buoy

1. Foundation
   - Grouting cracks formation

2. Mooring
   - Anchoring interface, concrete under tension & marine pressure

3. Concrete slab
   - Early concrete temperature
   - Damage
   - Crack formations
   - Stress

4. Transition piece
   - Grouting cracks formation