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1ST Transnational Workshop Lisboa- LNEC, 19 th February 2009



Case of habour structures: why?

The corrosion process is very hard to model because :

- It is affected by a lot of time-variant and space-dependent factors:
 Temperature, Dissolved Oxygen, Salinity, Tide level, Suspended materials (bio-corrosion), pollution, water flow/waves, abrasive materials.
- Only few on-site measurements are available and not always well documented (context).
- On-site measurements are costly and difficult to realize.
- → Need to gather data in a well documented data base







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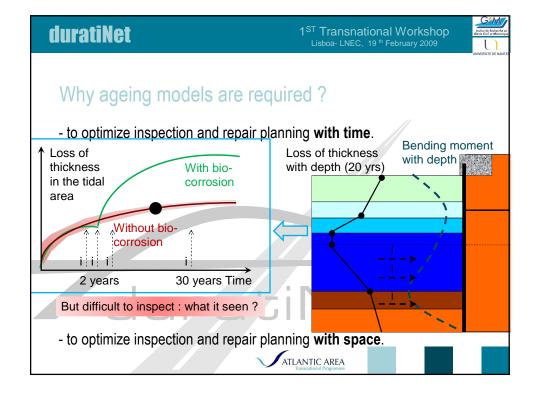
Case of suspension-bridges: why?

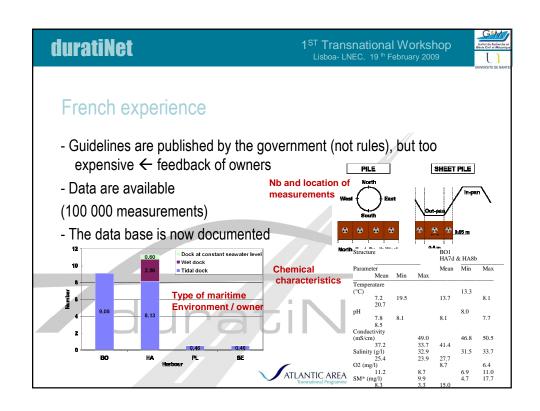
The corrosion process in cables is very hard to model because :

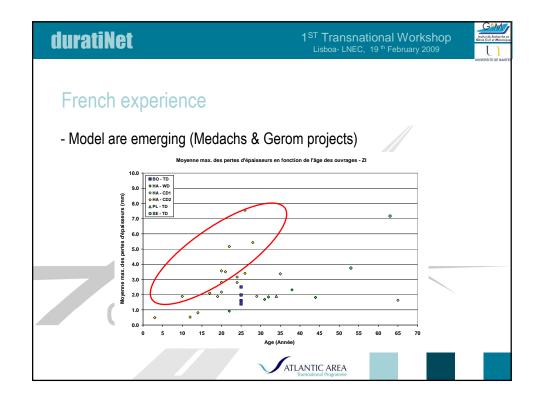
- It is affected by a lot of time-variant and space-dependent factors:
 Temperature, Wind, Humidity.
- The number of fibers in cables is huge.
- On-site measurements are costly and difficult to realize.
- → Need to gather data in a well documented data base

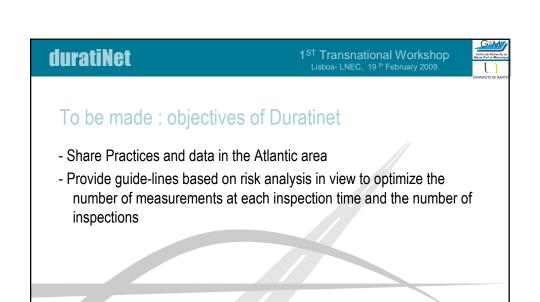
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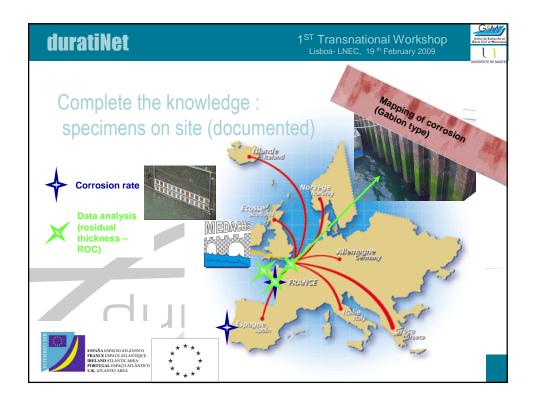








ATLANTIC AREA





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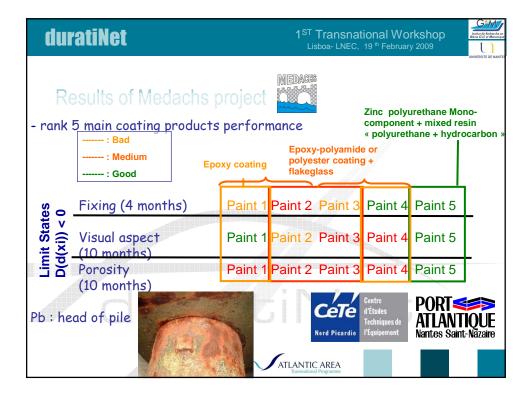


To be made: objectives of Duratinet

- Share Practices and data in the Atlantic area
- Provide guide-lines based on risk analysis in view to optimize the number of measurements at each inspection time and the number of inspections
- Provide guide-lines based on risk analysis for the maintenance (painting) NEW: feedback is essential (if documented): environmental conditions during painting works / type of product.

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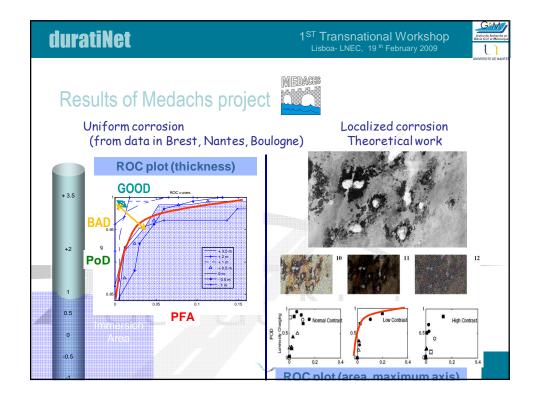




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- Provide data base for measurement of NDT tool performance on site.
 Developp the use of connex data: video-tapes before painting. NEW







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To be made : objectives of Duratinet

The ESSENTIAL role of end-users :

- Maintenance policy (repair during winter for touristic equipments)
- Feedack about products/protocols (complicated or not)
- Benchmark structures with real stakes.

Thank you!

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