



METALogic n.v.

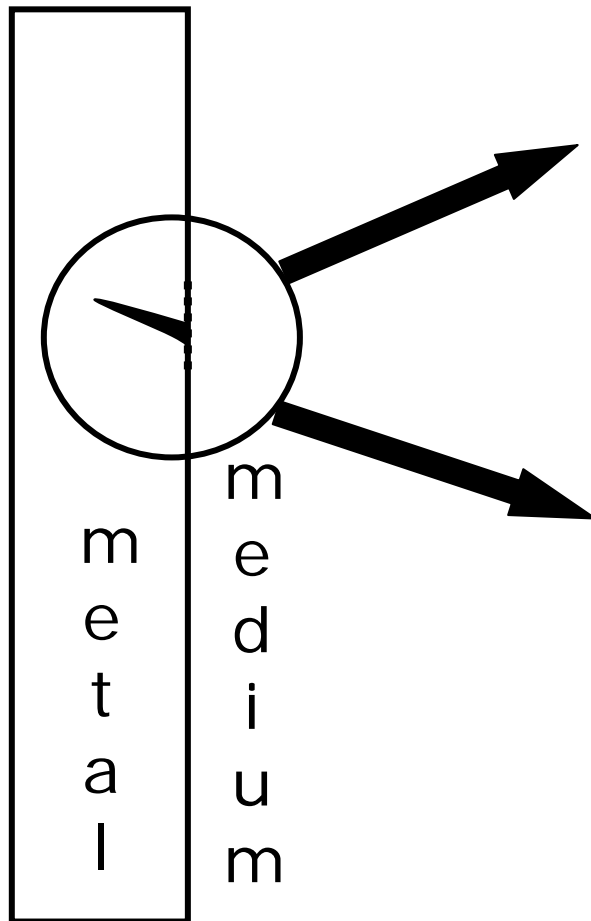
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www.METALogic.be

METALogic

Control & monitoring of
material degradation – corrosion
through materials knowledge &
by means of **advanced monitoring**
techniques

- Technology
- Organisation
- Products
- People
- Cooperation METALogic - university



- Electrochemistry = corrosion process control
- Ultrasound technology = structure control

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Materials engineering

Materials investigation

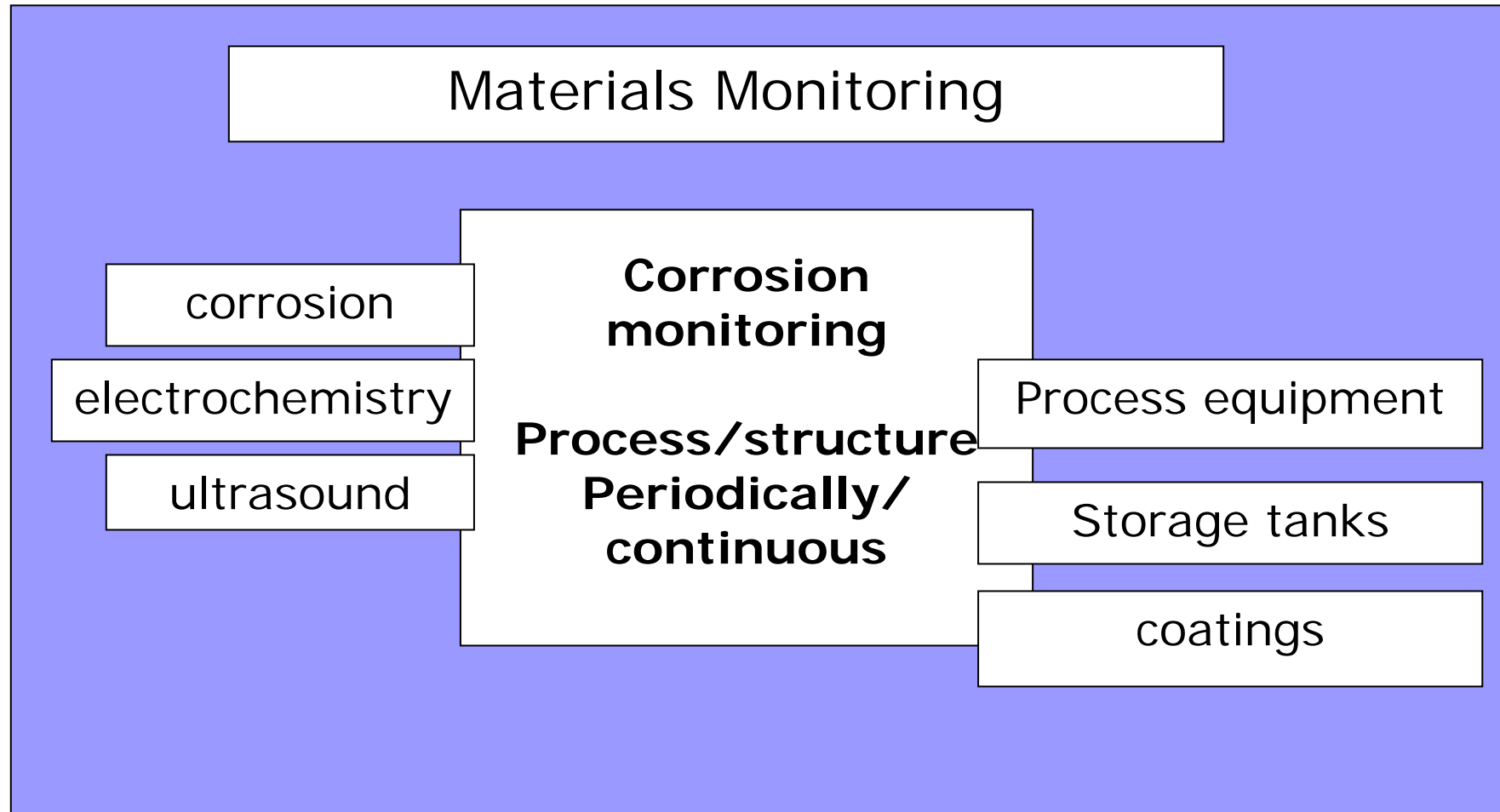
Materials monitoring

16 engineers
+ 5
consultant
(engineers)









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**MATERIALS
ENGINEERING**

Material selection

Material characterisation

Inspection

Risk Based Inspection programme



MATERIALS
INVESTIGATION



MATERIALS
INVESTIGATION

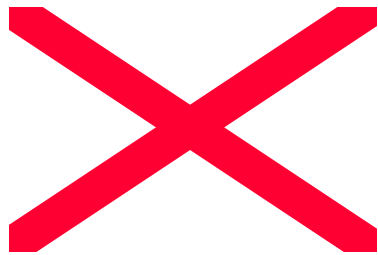
NDT laboratory



MATERIALS MONITORING



MONITORING
APPLICATIONS



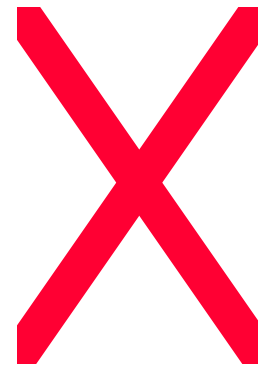
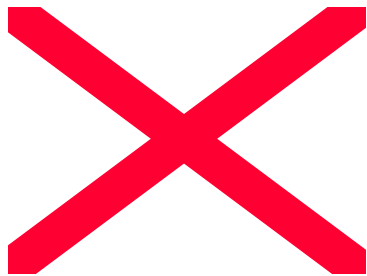
Non intrusive inspection
of aboveground storage
tanks

MONITORING
APPLICATIONS

Non intrusive
inspection of
underground
storage tanks



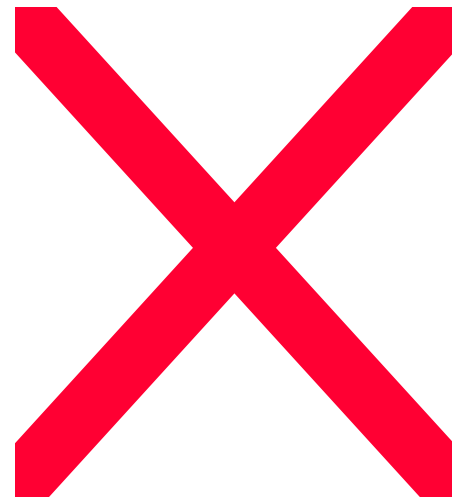
MONITORING
APPLICATIONS



Continuous
electrochemical corrosion
monitoring

MONITORING
APPLICATIONS

Non intrusive
detection of
internal corrosion
in pipes & tubes



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Employees

16 engineers:

=> 4 PhD

=> 6 Engineers, Master
university degree

=> 6 Engineers, Master
technical high school

Employees

- Profile METALogic engineer:
Materials or/and corrosion engineer
- => very specific
- => niche
- => not all universities have right education
- => not many students graduate in this domain

Employees

Requirements for divisions “Monitoring” & “Engineering”:

- In depth knowledge of corrosion processes
- Very good knowledge of Materials science
- Very good knowledge of Metals

Employees

divisions “Monitoring” & “Engineering”:

- Master degree is necessary
- Practical experience is necessary!

Every new employee who has no practical experience will be trained and supervised for min. 1 year

Employees

Requirements for division “Investigation”:

- In depth knowledge of corrosion processes
 - Very good knowledge of electrochemistry or ultrasound
- = > Employee with strong research background → PhD

All employees

Since

- Mostly young engineers are hired
- METALogic needs to stay at the top of the technology

= > There is a strong need for more knowledge and more practical experience

All employees

Therefore

- training, expert course: 1 day/ month
- For all employees
- Specific topics

Life long learning is mandatory

- Technology
- Organisation
- Products
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Cooperation METALogic - University

More than 1 reason to have a strong
cooperation with university

Cooperation METALogic - University

- Research projects
- Knowledge transfer
- Shared use of equipment
- Student trainee (bachelors)
- Student master thesis
- Direct link for recruitment

Cooperation METALogic - University

- K.U.Leuven
 - V.U.Brussel – U.L.Bruxelles
 - U.C.Louvain
-
- Universities throughout Europe
- In European research projects