

A modern application laboratory

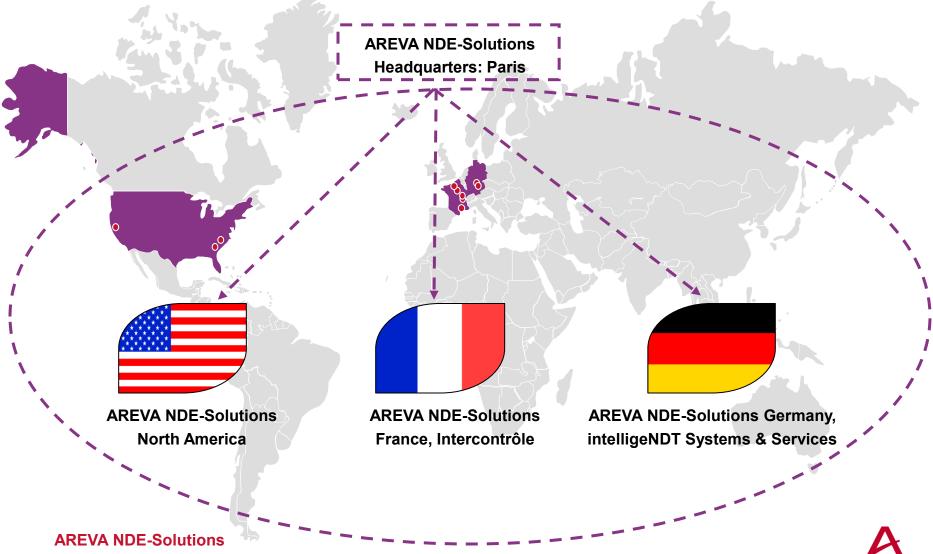
Presenter's name
AREVA NDE-Solutions Germany,
intelligeNDT Systems & Services GmbH
Presenter's position
Place and Date

For External Use

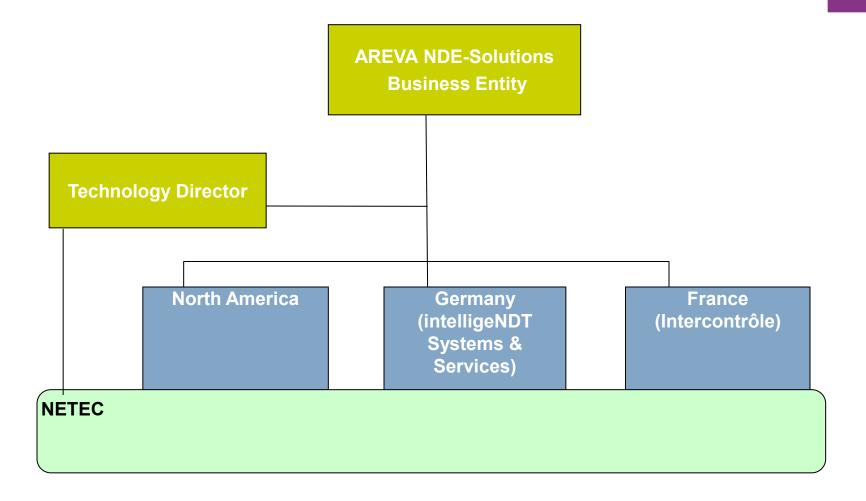


AREVA NDE-Solutions

A Global Organization with more than 700 NDE Professionals



Global NDE-Solutions organization with more than 650 NDE professionals worldwide

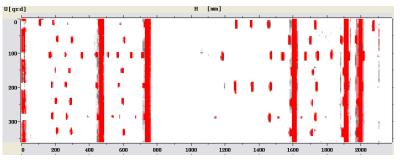


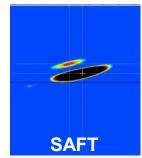


- Competence centre
- Customer support in NDE questions
- Feasibility studies
- NDE technology improvements
- Application specific probe development and fabrication
- Industrialization
- Commissioning
- Functions tests (FAT)
- Qualifications
- Blind tests
- After sales
 - Helpdesk
 - Hotline
 - On-site support



- Inspection of wheel set hollow axles
 - Detection and sizing
 - Helix scan
 - Phased array
 - **♦ SAFT**









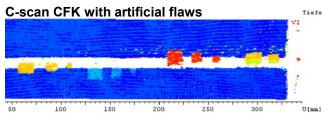




Double robot system

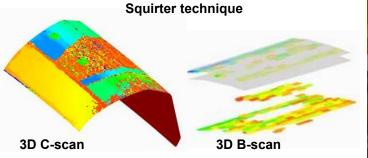
- Simple mode and synchronized acquisition
- CFK inspection with different techniques e.g. Phased array, squirter, immersion

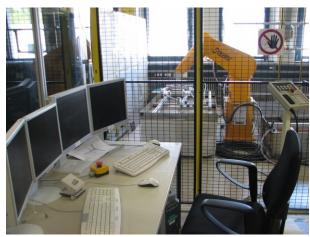
♦ 3D acquisition













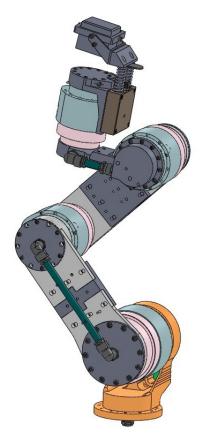
Tank for immersion technique



- LWR light weight robot arm
 - **♦** Light weight: < 10 kg (without transducer system)
 - Action range can easily be adapted by exchanging connector plates between the joints
 - Inspection of complex geometrics as in nozzle weld joints
 - Smooth movement due to Schunk modules axes
 - ◆ Positioning accuracy better than ± 1 mm
 - Run velocity of up to 50 mm/s

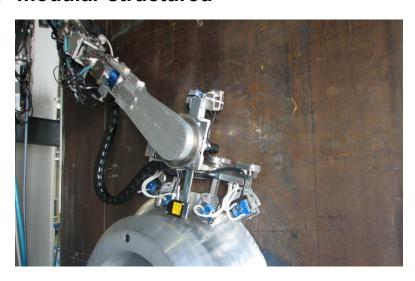








- SRM manipulator for boiling water reactors
 - 6 axle robot system
 - Universal system for circumferentially, longitudinal and nozzle welds
 - modular structured







► 2D manipulators



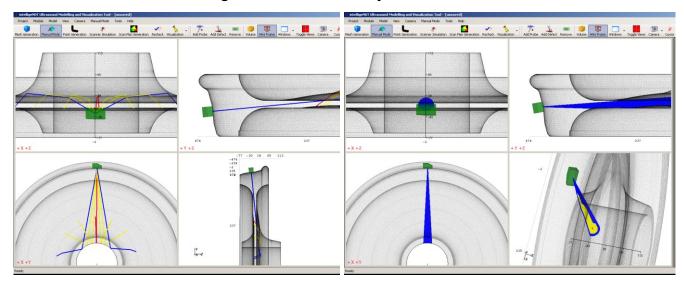






Simulation software

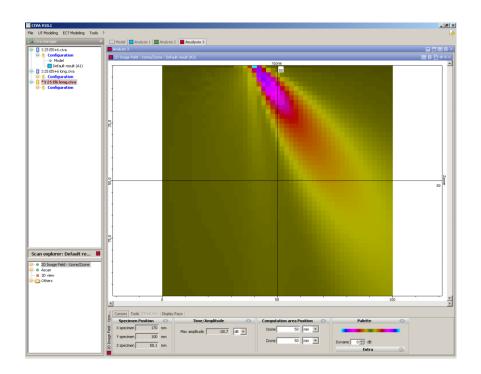
- 3D-iMaV (Modeling Software)
 - Mesh Generator Supports an easy generation of standard geometries
 - Visualization of the full beam path in the 3D model
 - Scan Plan Generation
 - Combination of modeling, control unit, analysis software





Simulation software

- CIVA
 - Simulation of ultrasonic sound fields





Note



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