



BROAD-BASED COMPREHENSIVE TRAINING

- Training from operator to engineer level covering all disciplinary fields
- 15 master's and engineering courses covering **all marine sciences**
- More than **300 students** receiving initial training each year
- Over **20 executive training modules**



GET IN TOUCH

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**Your challenges have solutions,
please contact WEAMEC,
we can make it with you!**

WEST ATLANTIC MARINE ENERGY CENTER

Research, Education
& Innovation
in PAYS de la LOIRE

**BOOST YOUR RESEARCH AND INNOVATION PROJECTS
TO SUPPORT INDUSTRIAL DEVELOPMENT**

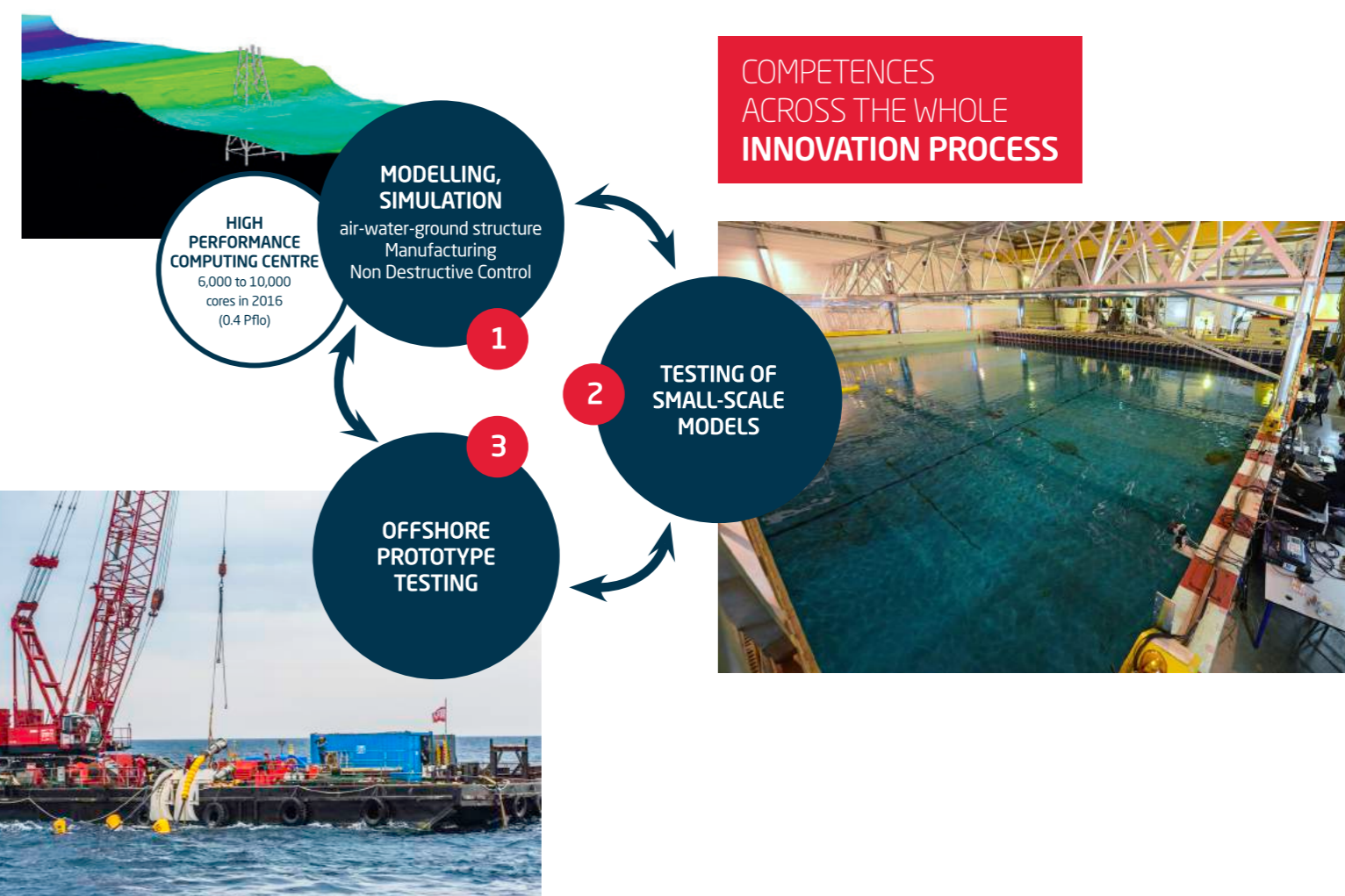
DRIVE YOUR STAFF TRAINING FORWARD



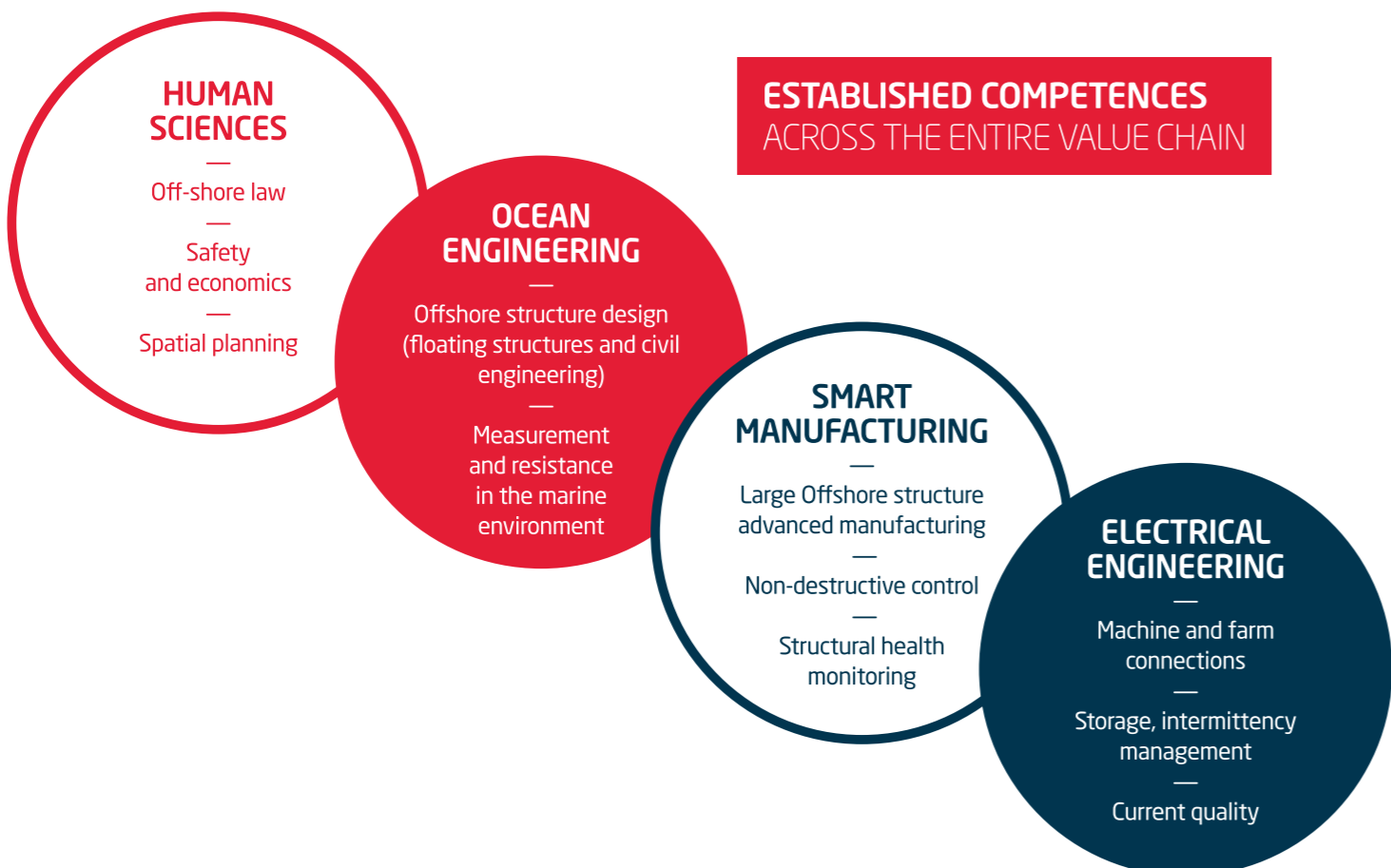
A VIBRANT ECOSYSTEM

- More than **25 institutes and labs**: 300 researchers (100 FTE)
- About **200 industrialists involved** in MRE challenges (DCNS, EDF, ENGIE, GE, STX, Rollix, NEOPOLIA EMR,...)
- **Across the entire value chain** from research to offshore operations
- **Main competences**: ocean engineering, advanced manufacturing, structural health monitoring, electrical engineering, human sciences
- More than **60 ongoing research and innovation projects**
- **A project portfolio > €50 M**
- **Port Infrastructure and unique experimental facilities**:
 - Multi-MRE technology offshore test site, SEMREV
 - Large lab test facilities (wave tank, wind tunnel, mechanical and electrical test benches)
 - Advanced manufacturing and non-destructive control processes.

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COMPETENCES
ACROSS THE WHOLE
INNOVATION PROCESS



HUMAN SCIENCES

- Off-shore law
- Safety and economics
- Spatial planning

OCEAN ENGINEERING

- Offshore structure design (floating structures and civil engineering)
- Measurement and resistance in the marine environment

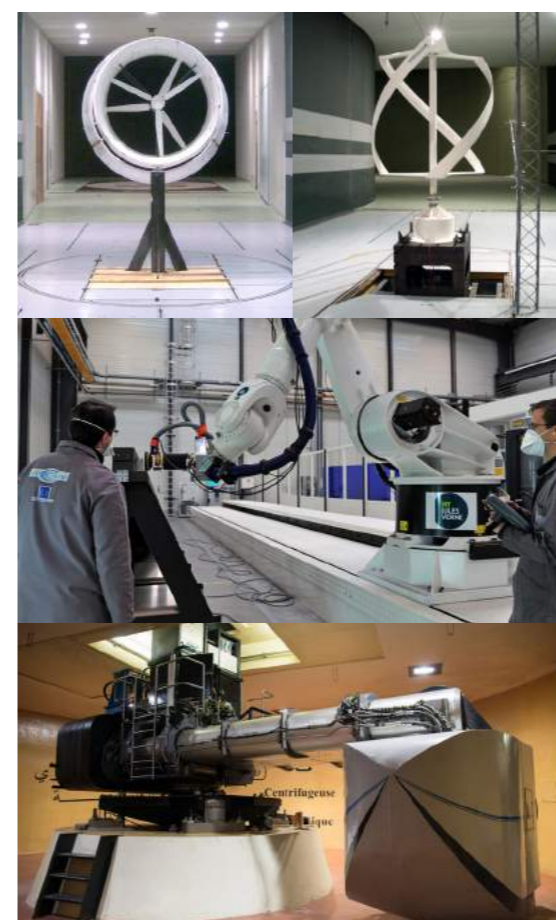
ESTABLISHED COMPETENCES ACROSS THE ENTIRE VALUE CHAIN

SMART MANUFACTURING

- Large Offshore structure advanced manufacturing
- Non-destructive control
- Structural health monitoring

ELECTRICAL ENGINEERING

- Machine and farm connections
- Storage, intermittency management
- Current quality



SUBSTANTIAL, UNIQUE, RENOWNED TEST FACILITIES

- **Multi-MRE technology offshore test site** SEMREV / Centrale Nantes
- **Wave and towing tank** - Centrale Nantes.
- **Geotechnical centrifuge** - IFSTTAR
- **Aerodynamic wind tunnel** - CSTB
- **Advanced manufacturing and non-destructive control processes**
- **Robotic finishing** (manufacturing > 1.8 m) Jules Verne Technological Research Institute (IRT)
- **Fatigue test bench** (Blades > 9 metres) - IRT
- **X-ray computed tomography** (Non-destructive control blades > 9 metres) - CEA Tech
- **Mechanical testing for cables** - IFSTTAR
- **Energy System test benches** (800 kW - Hard In the Loop)-CEA Tech
- **Numerical simulation - high performance computing** - Centrale Nantes
- **Material testing in multiphysic marine climate chambers** (Université de Nantes)
- **Marine growth on-site evaluation** (Biocolmar) (Université de Nantes)
- **Smart Materials Testing Center** (SEA-SMS) (Université de Nantes)