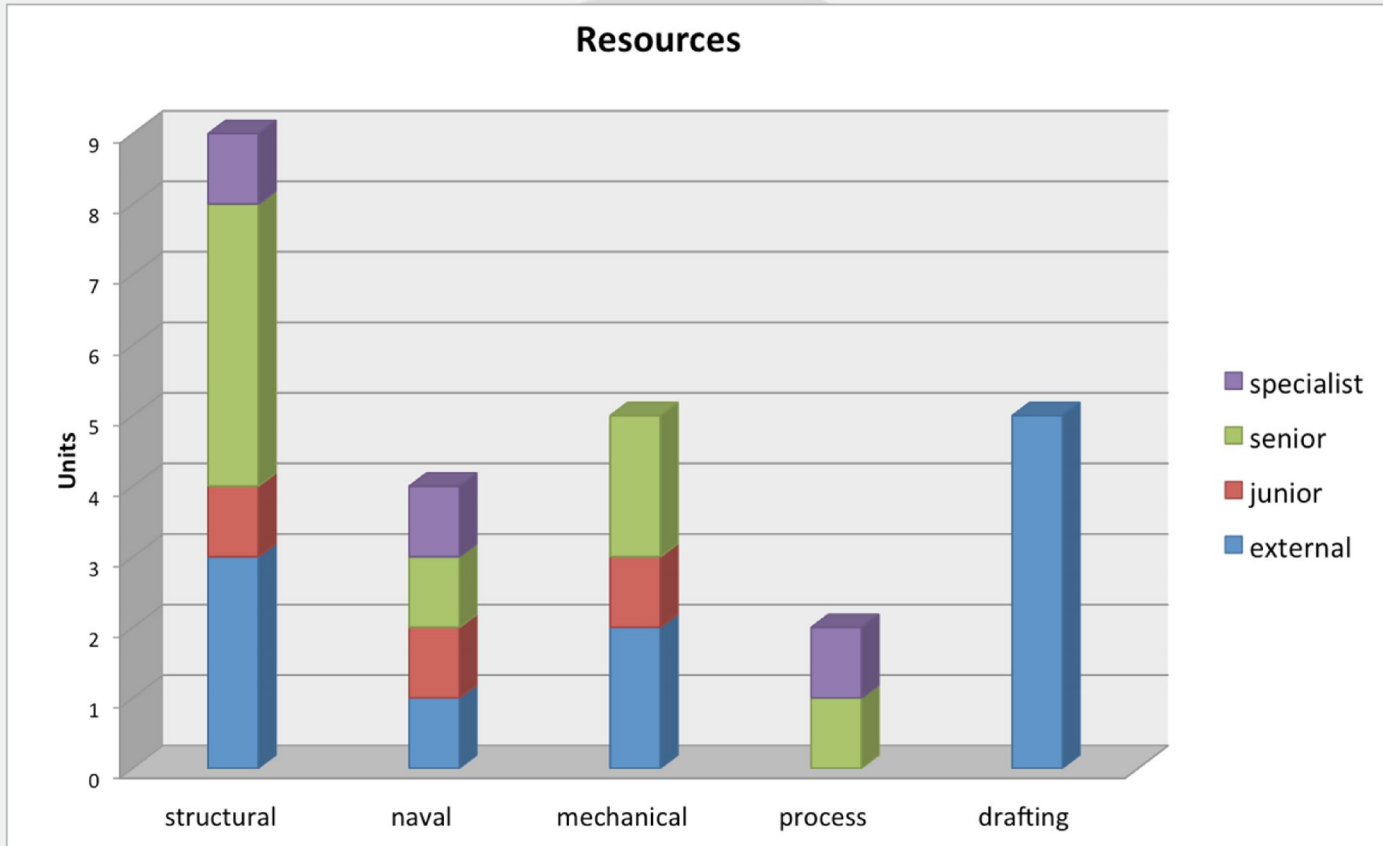# Aqua Engineering is specialised in:

- **Structural and mechanical design**

- **Marine and naval engineering**

- **Marine operations**

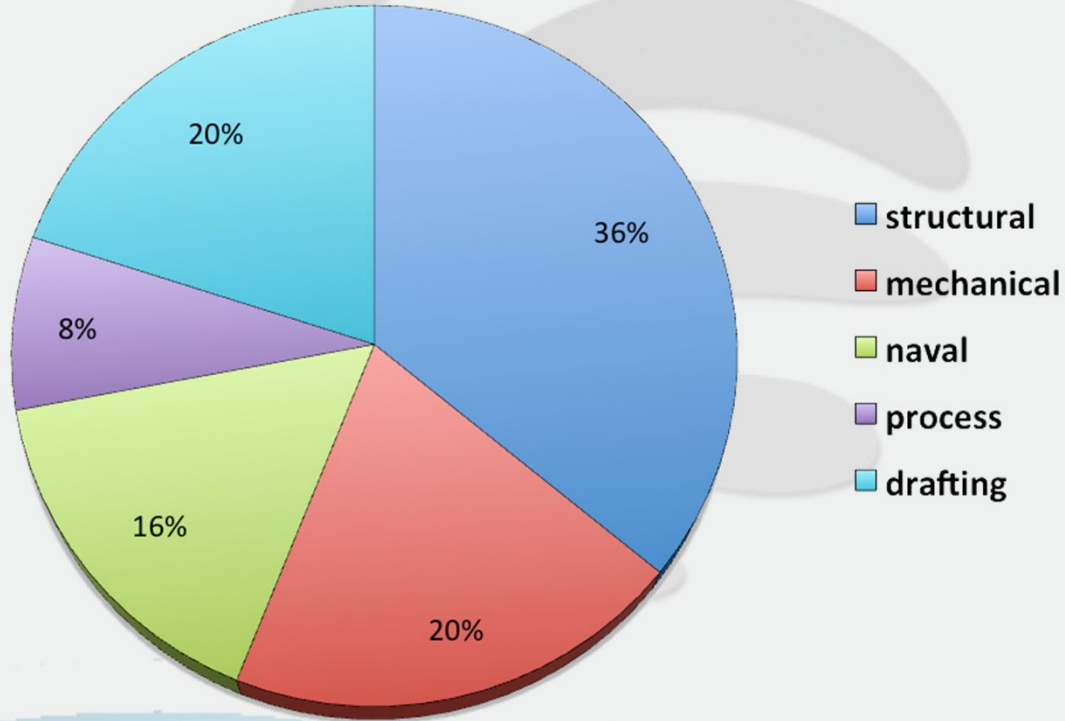- **Process systems design**

- **Technical consultancy services**

- Company founded in 2005 on the basis of other activities/structures in place since beginning of '80 in Oil&Gas and Offshore Industries

- Based on people with long experience in structural and naval engineering, hydrodynamic computations and marine operations

- Personnel graduated in mechanical, naval, structural and process engineering, draughts men and data processing technicians

- Applied working contract: Contratto collettivo studi professionali

- Company registration: Camera Commercio Venezia – società di ingegneria – servizi di ingegneria integrata

Resources and manhours
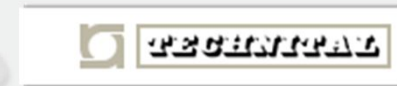
Manhours

Total available manhours 40000 per year

Legend:
- structural — 36%
- mechanical — 20%
- naval — 16%
- process — 8%
- drafting — 20%

MAIN CUSTOMERS

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In force contracts

SAIPEM: **convention 5000018089, dated 04.09.2012**

Design and project management services on naval and marine offshore engineering

convention 5000018488 dated 16.11.2012

Special fluidodynamic and structural analyses

Tecnomare: **Open contract 3043/13/MAV dated 9.08.2013 –**

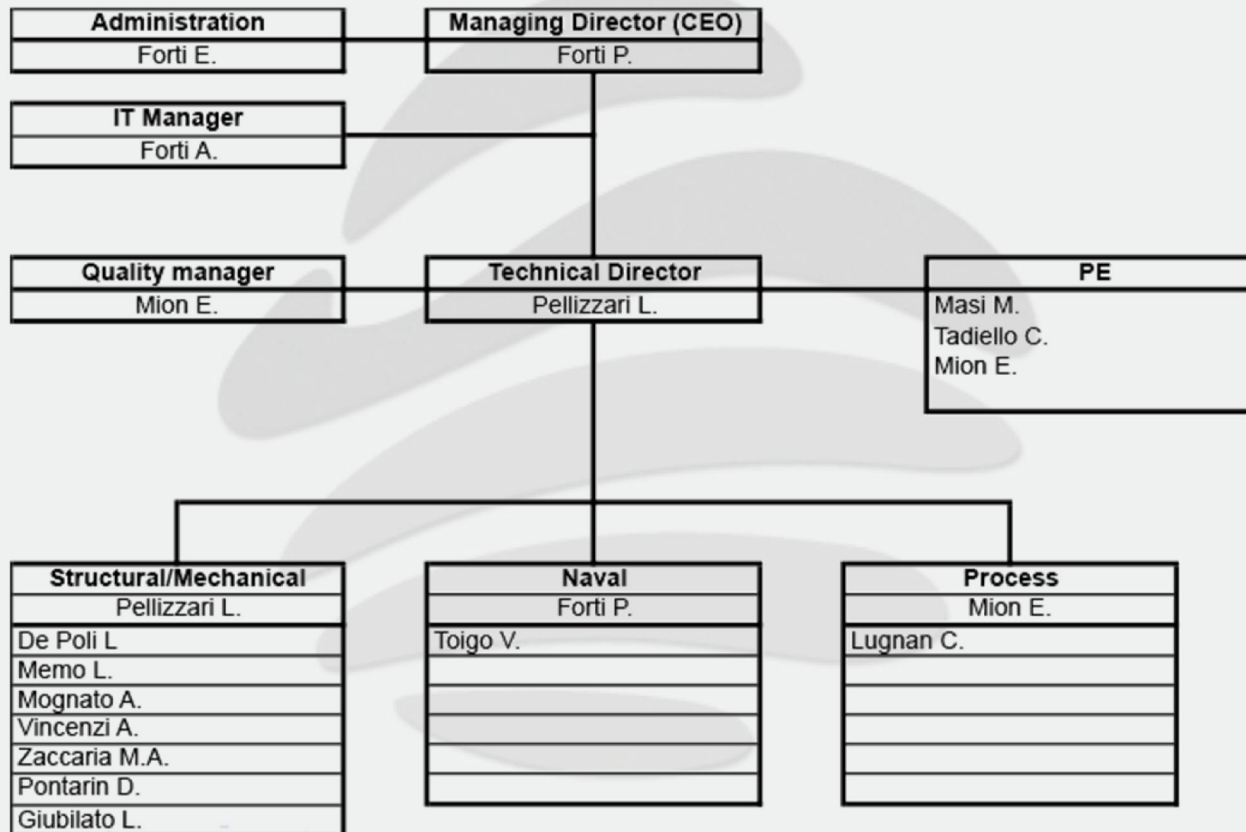Naval engineering services

Open contract 3054/13/MAV dated 1.10.2013 –

Structural engineering services

Partnership

Member of Polo Offshore (Fincantieri group)

Organization

Quality system

The Company is certified ISO 9001 by DNV.

Information Technology
Technical software - structural

- Femap/nastran: multipurpose structural modeller and solver: structural modelling, linear and not linear structural analyses

- GT Strudl: multipurpose structural solver: structural analyses and code checks; foundation analyses; environmental loads computation on lattice structures (Morison equation)

- Sesam (Genie basic package): multipurpose structural solver: structural analyses and code checks; foundation and fatigue analyses; environmental loads computation on lattice structures

- Ansys: FEM modeller and structural analyses

- Sant'Ambrogio: design and code checks of pressure vessels and flanges

Information Technology
Technical software - hydrodynamic

- Orcaflex: hydrodynamic analyses of floating bodies (single or in a multibody arrangement) combined with mooring and risers lines, in frequency and time domain. Pipeline static and dynamic analyses

- MOSES (basic package):

  hydrostatic analyses (floatation, stability, ballasting, jacket upending, frequency domain analyses) – basic package

- Gt-Strudl –Selos: upending and launch analyses

- Wamit: linear analyses of fixed/floating massive structure, with diffraction algorithm (lease)

- AQWA: hydrodynamic analyses of fixed and floating bodies (lease)

Information Technology
Technical software - drafting

- Autocad LT   2D general drawings

- Solid Edge   3D and 2D drawings of structures and piping

- Creo Parametric (ex Pro-E)   3D drawings of structures and mechanical components

- Inventor (by partners)   3D and 2D drawings

- Think 3D (by partners)   3D and 2D drawings

- Tekla (by partners)   3D modelling of structures and piping

Information Technology
Technical software – other tools (knowledge)

Company People and consultants are familiar with the following software packages:

- Adina   not linear structural analyses
- Patran   pre-post processing for Finite Element analyses
- Mentat/MARC   linear and not linear structural analyses

- Strauss   linear structural analyses
- Sacs   structural analyses

- Pipephase   Process analyses
- Caesar II   piping stress analysis
- Caepipe   piping stress analysis

- Flexcomp: hydrodynamic analyses of floating bodies and flexible elements