





UNIVERSITÀ DEGLI STUDI DI FIRENZE DICEA - NOVEMBER, 06TH 2017

QUESTIONS?

CONTENT



Rosetti Marino

Yard Engineering

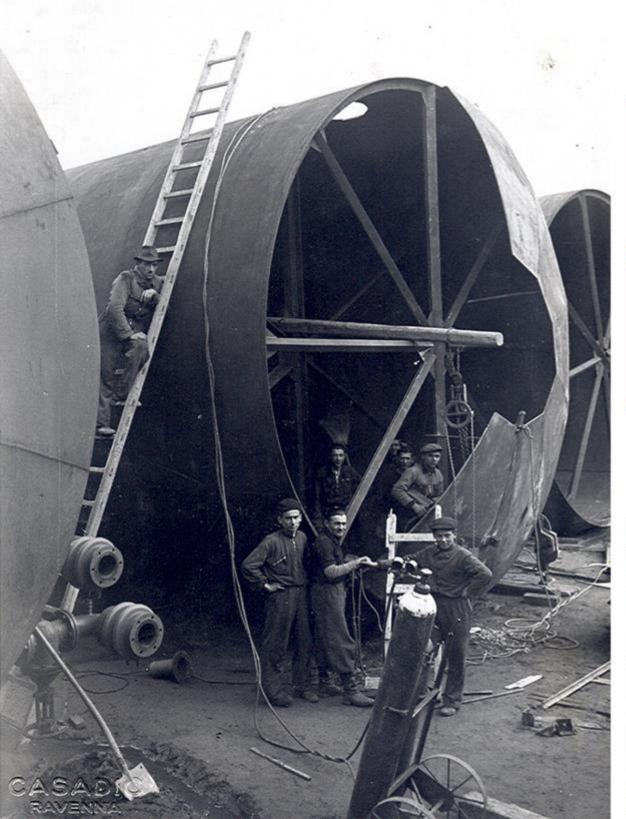
Yard Management

Heavy Lifting & Roll Up

Load Out

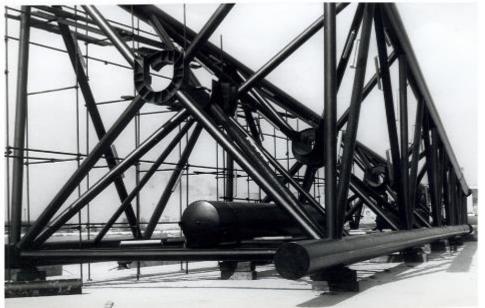
Subsea

Marine



OUR

HISTORY



COMPANY MILESTONES



Rosetti Marino is an italian **Engineering Procurement & Construction (EPC) Contractor** active in the Oil & Gas and Energy sector.

1925

The '50s

The '60s

Early '90s

From late '90s to date

The company
is established
in Ravenna,
North Eastern Italy,
as a mechanical
fabrication
workshop

Rosetti contributes to the development of **Chemical and Petrochemical industry** in Ravenna and operates also as shipbuilding yard.

The company begins the construction of **Offshore Oil & Gas** facilities for the Adriatic Sea.

The company recognizes the need for a strong engineering content in its business, thus settling Fores Engineering and purchasing Basis Engineering; hence the core of Rosetti Marino Group is established.

The Group starts international operations and settles foreign subsidiaries in Europe, Africa, Asia and South America.







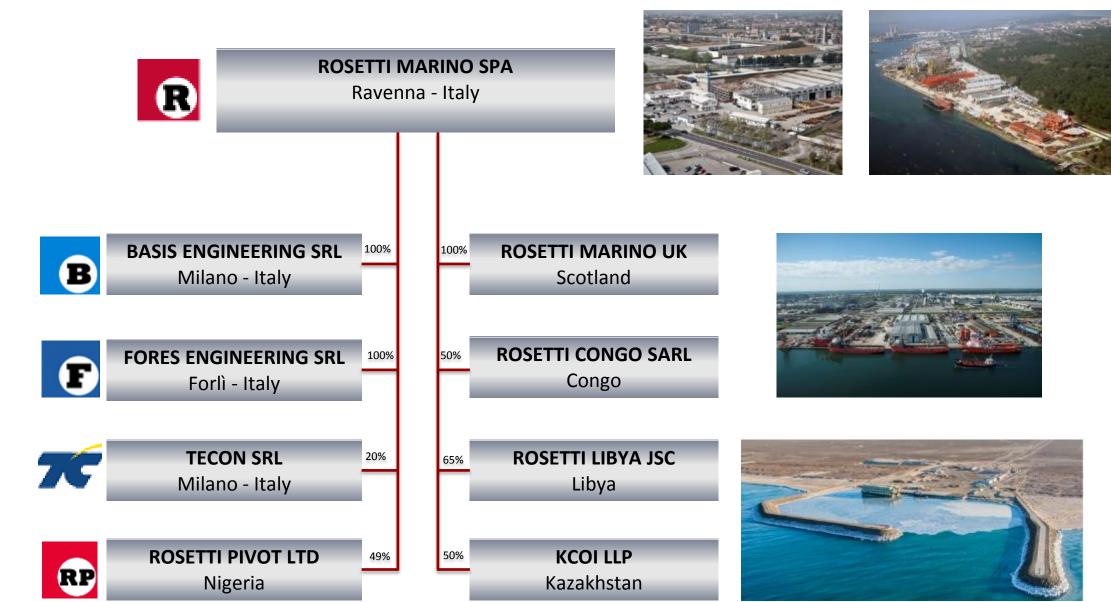




WHO WE ARE



An integrated **Group of Companies**



WHO WE ARE



An Italian **EPCI Contractor** with:



IN-HOUSE ENGINEERING PROCUREMENT AND CONSTRUCTION CAPABILITIES

STRUCTURAL
MULTIDISCIPLINARY
ELECTRICAL & INSTRUMENTATION
MARINE AND OFFSHORE





















WORLDWIDE PRESENCE



IMPRESSIVE TRACK RECORD OF EPCI PROJECTS SUCCESSFULLY DELIVERED FOR O&G MAIN PLAYERS



WHAT WE DO



SUBSEA















OFFSHORE

SHIPBUOLDING & SUPERYACHTS

ONSHORE

WHAT WE DO



Nowadays, Rosetti's range of Products and Services can be summarized as follows:

SUBSEA

Manifold

- Pipeline End Terminal (PLET)
- Pipeline End Manifold (PLEM)
- Boosting System
- Subsea Control Module (SCM)
- Subsea Electronic Module (SEM)
- Master Control Station (MCS)
- Subsea Umbilical Termination Unit (SUTU)
- Topside Umbilical Termination Unit (TUTU)
- Remote Terminal Unit (RTU)

Jackets

- Integrated Topsides
- Process modules
- Living Quarters
- Power Generation, Compression& Utility Modules
- Brownfield, Upgrade & Revamping

ONSHORE

Gas/Oil separation Plants

- Compression Stations
- Pumping Stations
- Gathering Stations
- Oil&Gas Power Plants and Substations
- Process Equipment

- Harbour tugs
- Ocean going tugs
- Platform Supply Vessels & AHTS
- Ferries
- Living Quarters barges
- Special purpose barges
- Super Yachts

OFFSHORE

SHIPBUILDING SUPERYACHTS

OUR CAPABILITIES



Rosetti Marino Groups provides a full range of services for the Energy sector including Oil&Gas Upstream, Petrochemical, Power Generation and Subsea Development

CONCEPT SELECTION

Feasibility studies

Reservoir engineering Process Studies

- Structural
- Multidisciplinary
- E&I
- Marine
- Telecom
- Automation
- Skid & Packages

Systems Integration
Existing Facilities Due diligence
Environmental Impact Studies
Permitting engineering
Risk assessment
Site surveys
CAPEX-OPEX estimation +/- 30%

CONCEPT DEFINITION

Basic Design Front End Engineering Design

Tender Documents
Permitting Engineering
Site surveys
Reverse engineering and laser scanning
Risk assessment,
HAZID/HAZOP/QRA
CAPEX estimation +/-15-10%
Owner Engineering Services

PROJECT DEVELOPMENT

Detailed Design

Procurement engineering
Site surveys
Reverse engineering and laser
scanning
Risk assessment,
HAZID/HAZOP/QRA
Operating Manuals
Commissioning & Startup
Owner Engineering Services
Project Management Services
Installation Supervision Services
Technical Service



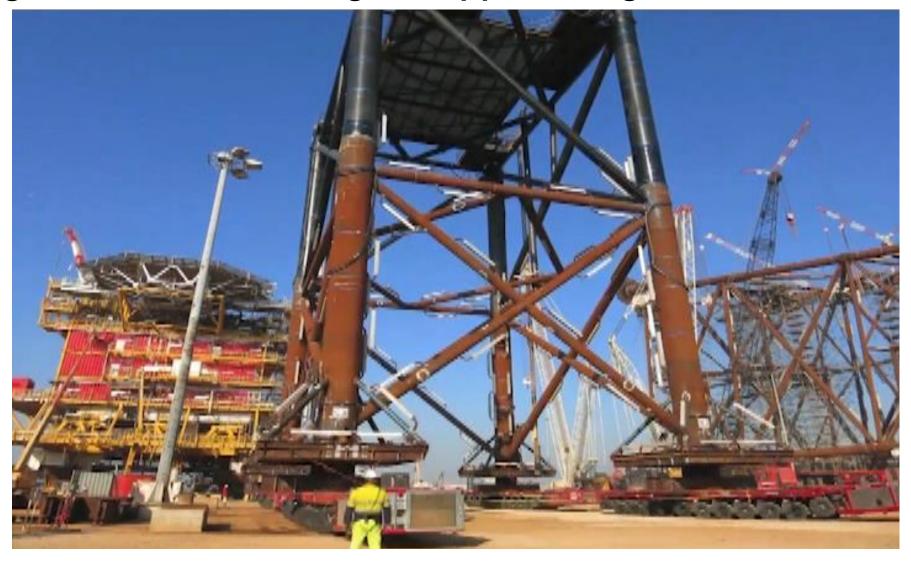
YARD MANAGEMENT





YARD MANAGEMENT

- Erection sequence definition
- Handling methods definition
- HSE assessment + Yard assessment
- Equipment selection
- Design calculation + Grillage + Supports Logistic



HEAVY LIFTING & ROLL UP

ROSETTI MARINO
Group of Companies

- Design calculation
- HSE assessment + Yard Assessment
- Equipment selection

- Stability analysis
- Clash analysis
- Logistic



LOAD OUT

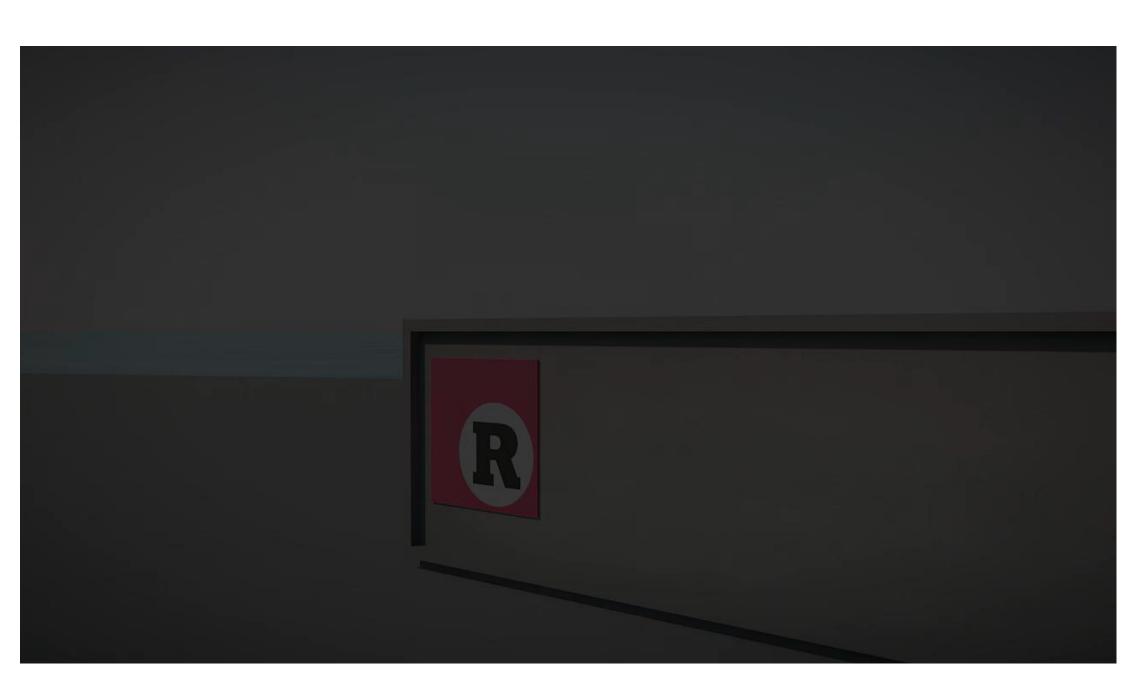
ROSETTI MARINO
Group of Companies

- Design calculationGrillage & Sea Fastening
- HSE Assessment + Quay Assessment

- Equipment selection
- Ballasting calculation
- Logistic







RECENT REFERENCES





Marlin Project (Foxtrot)

EPC - Dec. '12/Aug. '14-Mar. '15

• Topside: 54x31x20 (LxWxH)

• Weight: 4.500 tons

• Jacket: H 118 m

• Weight: 3.500 tons

(+ 1.300 tons for piles)

• Living Quarter: 20 POB



Clipper (Shell UK)

EPC - Aug. '12/June '14

• Topsides - Living Quarter (84 POB)

• Deck/helideck: 50x25x25 (LxWxH)

• Weight: Approx. 3000 tons

• Four-legged jacket (800 tons)



West Franklin (Total)

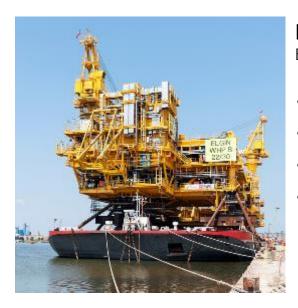
EPC(I) - July '11/June '13

• Design pressure: 915 barg

• Design temperature: 190°C

• Topside: 40x40x20 (LxWxH)

• Weight: 3.300 tons



Elgin B (Total)

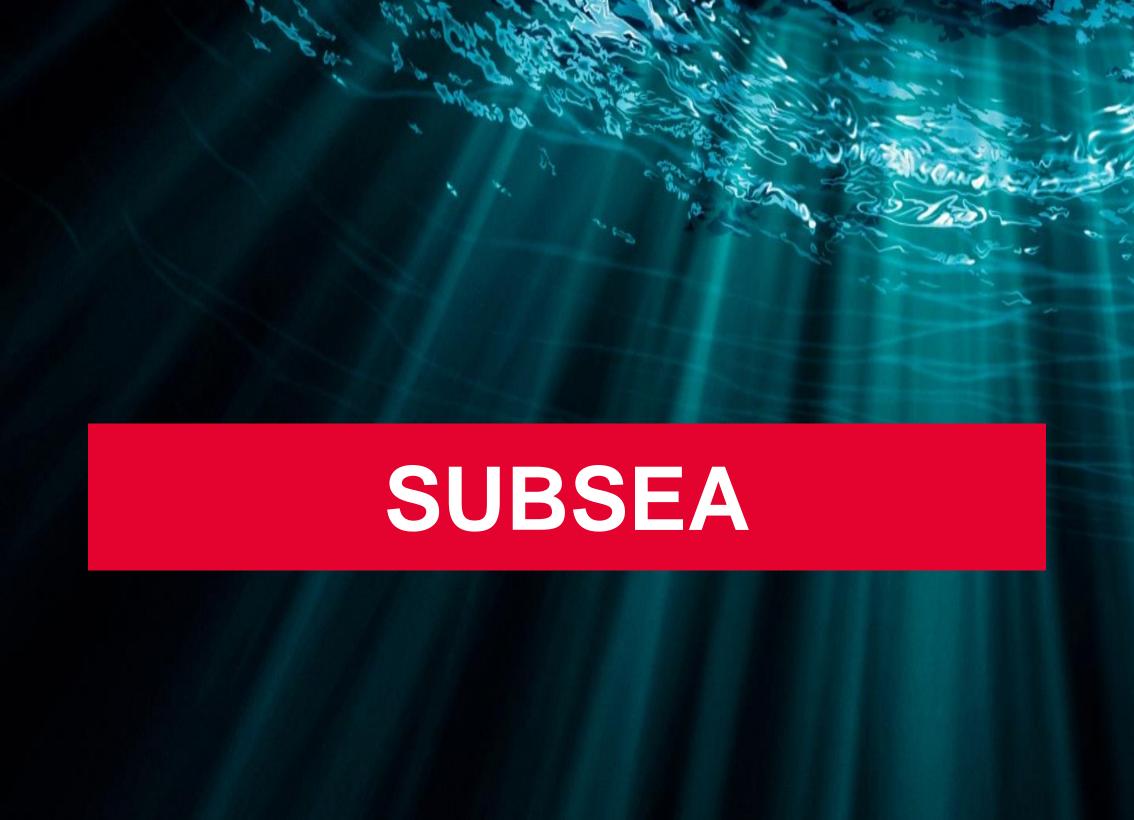
EPC(I) - July '11/June '13

• Design pressure: 915 barg

• Design temperature: 190°C

Topside: 35x35x15mt (LxWxH)

• Weight: 2.300 tons



SUBSEA TREND



- Shallow Water...not only for deep and ultra-deep water
- More and more Reliable subsea developments thanks to technology evolutions
- Cheapest Solution rather than fixed or floating platform
- Boosting System to maximize the well's life
- Subsea Developments (DEVELOPMENT STRATEGY)



Process transfer to Seabed (PRODUCTS)

- Complete view of the Project Development Phases
 - Proved International Experience



High Flexibility

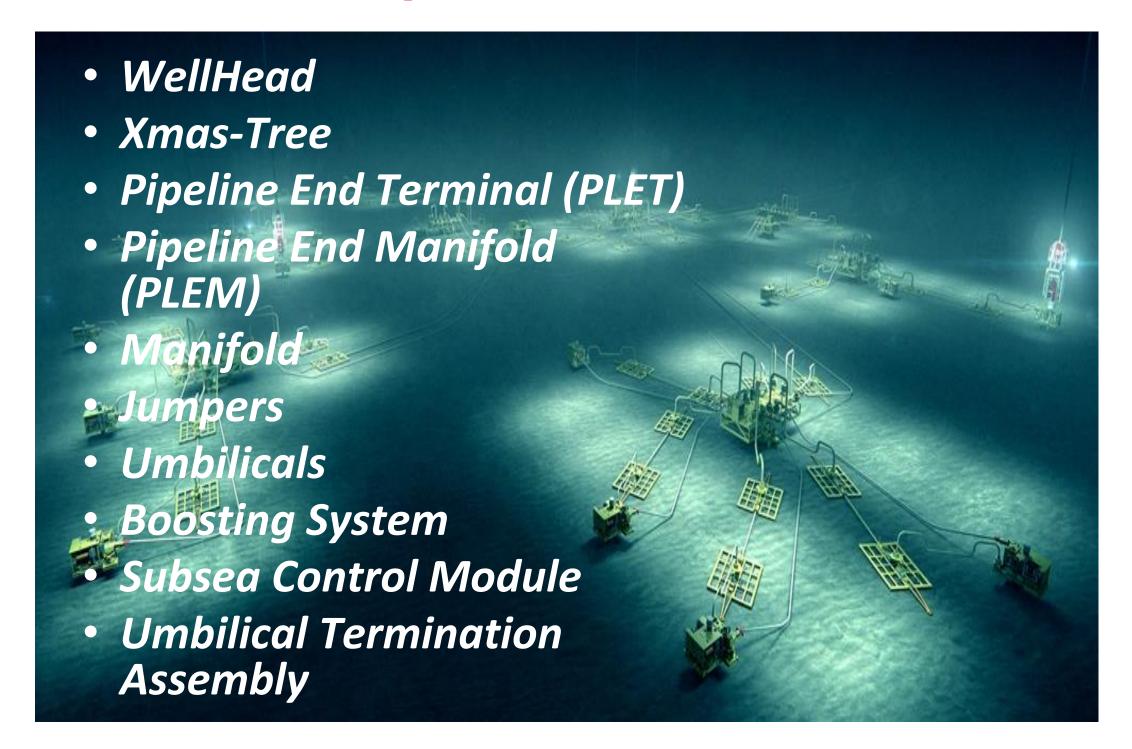
A TYPICAL SUBSEA FIELD





MAIN SUBSEA EQUIPMENT





YARD SUBSEA ACTIVITIES



- Design

 integration
 reliable
- Construction quality experience
- Testing integrated customized

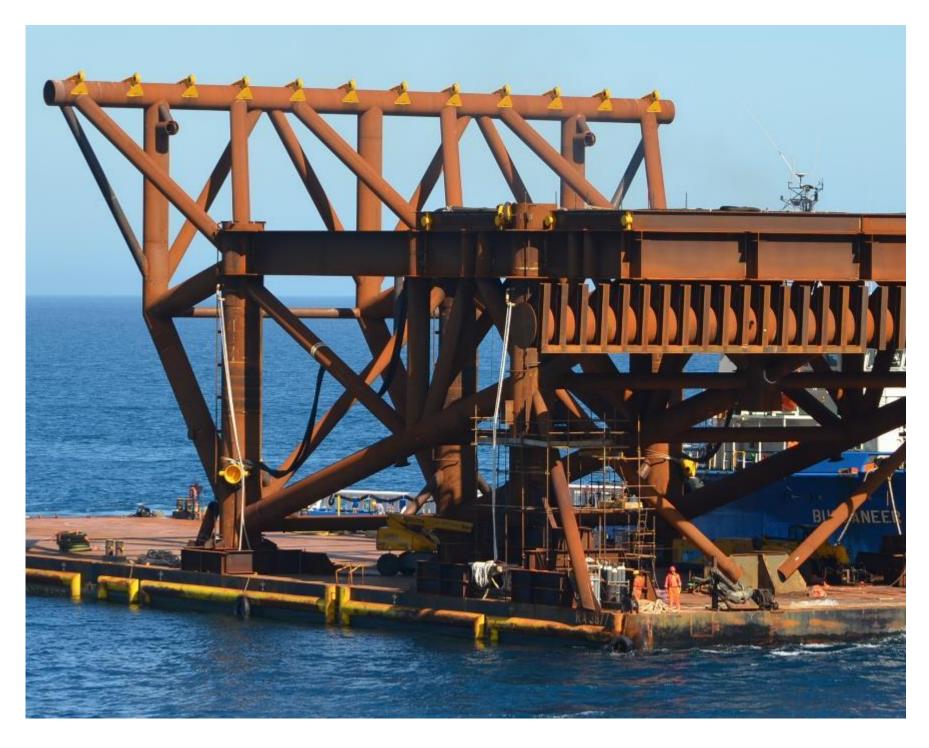




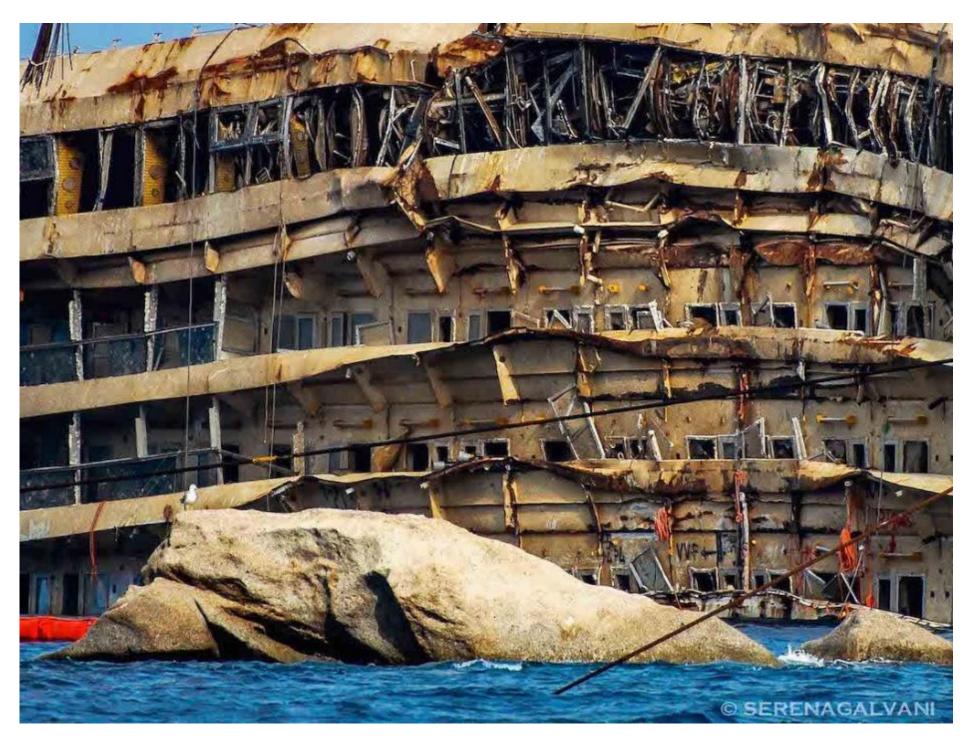












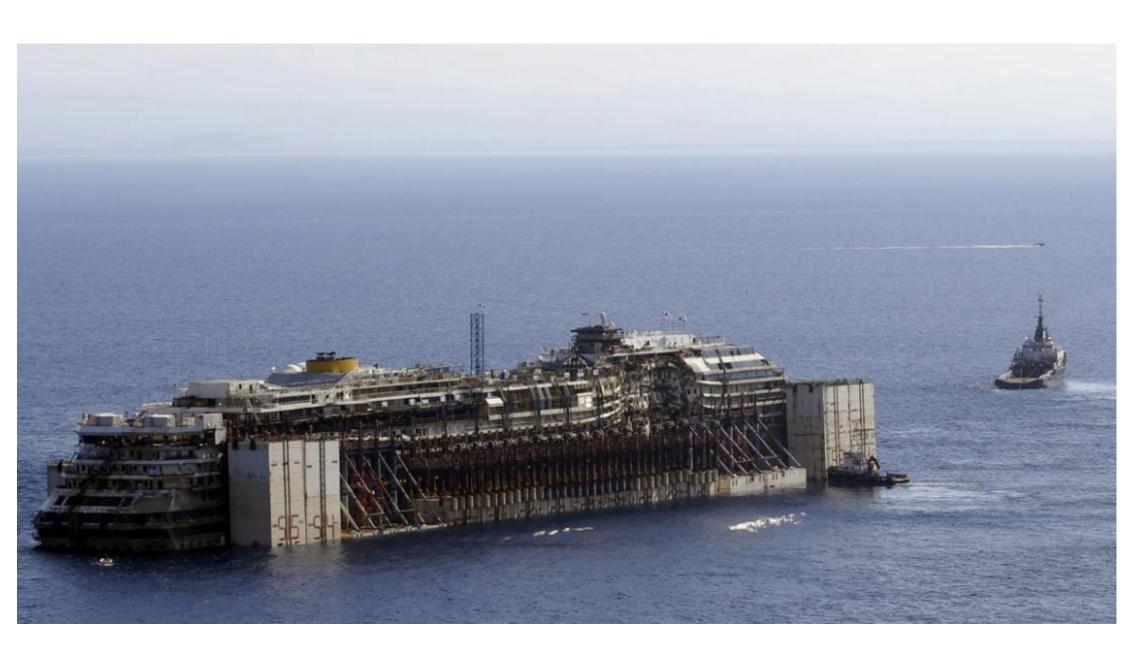




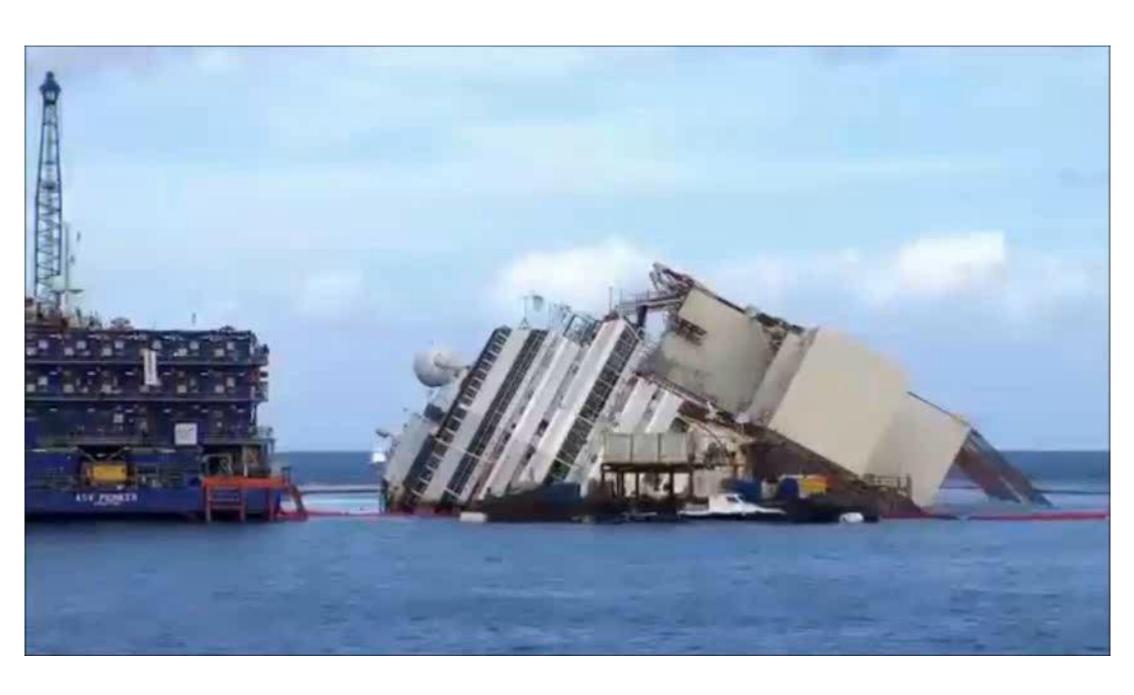












CONCLUSIONS



Human Capital

Yard and Assets

Engineering and Construction Experience

HSE and Risk Assessment

International Experiences

Solid References

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Q&A