

Value creation through Innovation



STRATEGY UPDATE

Saipem's Strategic pillars

ACTIONS

- 1 Business portfolio refocus
- 2 De-risking the business model
- 3 Cost optimisation & process efficiency

- FIT FOR THE FUTURE 2.0
 - NEW BUSINESS MODEL IMPLEMENTATION
 - 2015 COST OPTIMISATION PROGRAMME €1.7BN PROCEEDING AS SCHEDULED
- ASSET BASE RATIONALIZATION
- COMMERCIAL SELECTIVITY

4 Technology and innovation

- ENHANCING INNOVATION CULTURE
- BUDGET INCREASE
- FOCUS ON COST-EFFECTIVE SOLUTIONS

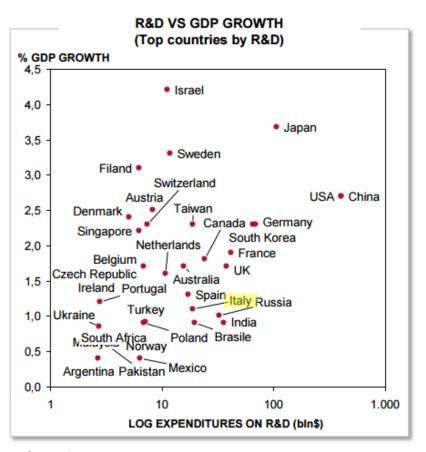
5 Debt reduction and capital discipline

- FOCUS ON WORKING CAPITAL MANAGEMENT
- CAPEX CONTROL

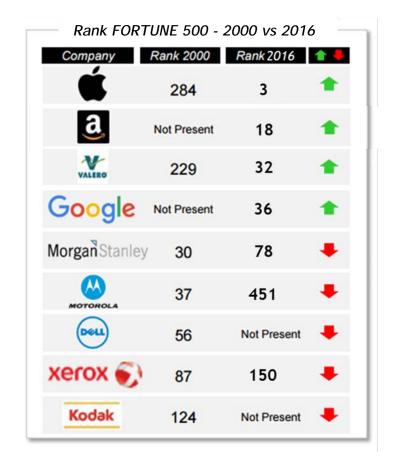


Why Saipem must always keep innovating?

Correlation between Innovation and Growth



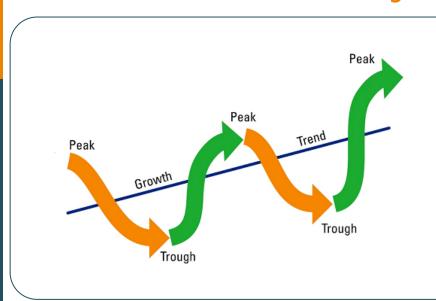
Innovation is necessary to **Survive**

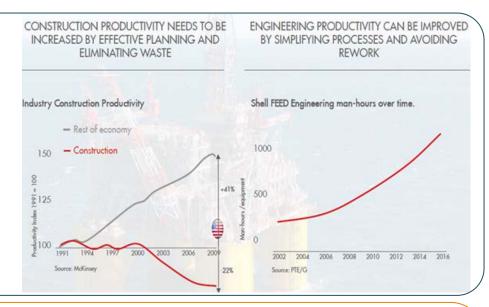


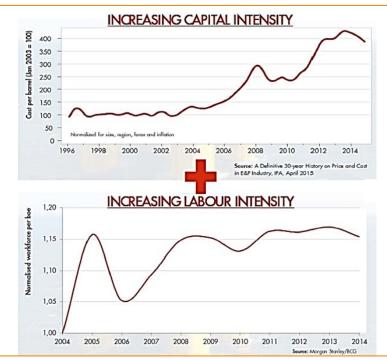
Source: Accenture, 2016



Our industry current scenario



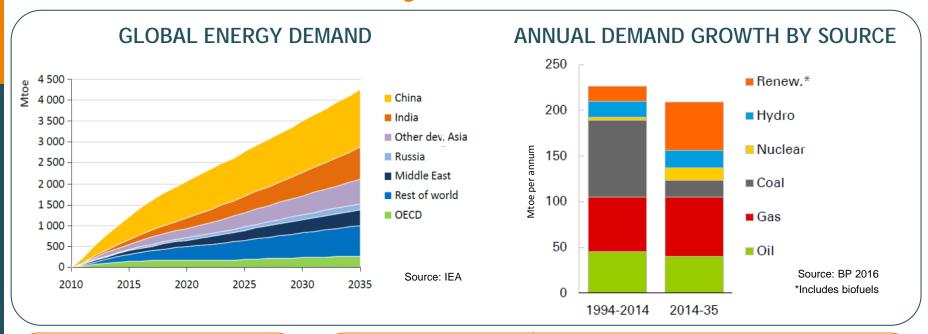




Over the last 10 years

- Project cost increased 5-fold
- Productivity declined
- Project schedule slippage increased 1-2 yrs
- Construction cost 25% -> 50% of EPC
- Craft labour ~ 30% to 40% of project budget
- Competition stronger than ever
- O&G projects increasingly complex

Our industry future scenario







Our way to cope with both scenarios

Short period

driven by **PROJECTS**

- increase efficiency
- boost productivity
- increase market coverage

Med/Long period

driven by MACRO-SCENARIOS

prepare for the future challenges

DIGITAL TRANSFORMATION

costs

reduction

increase efficiency

offer new value propositions



Our Strategic Roadmap - Offshore business

SUBSEA as a prime area of election by

- our business footprint into SUBSEA PROCESSING
- TIE-BACKS and Subsea-to-Shore distances, Ultra Deep Waters
- our URF EPCI offering into the LIFE OF FIELD

Exploit the growing **DECOMMISSIONING** business Consolidate our leadership in **T&I and TRUNKLINE**

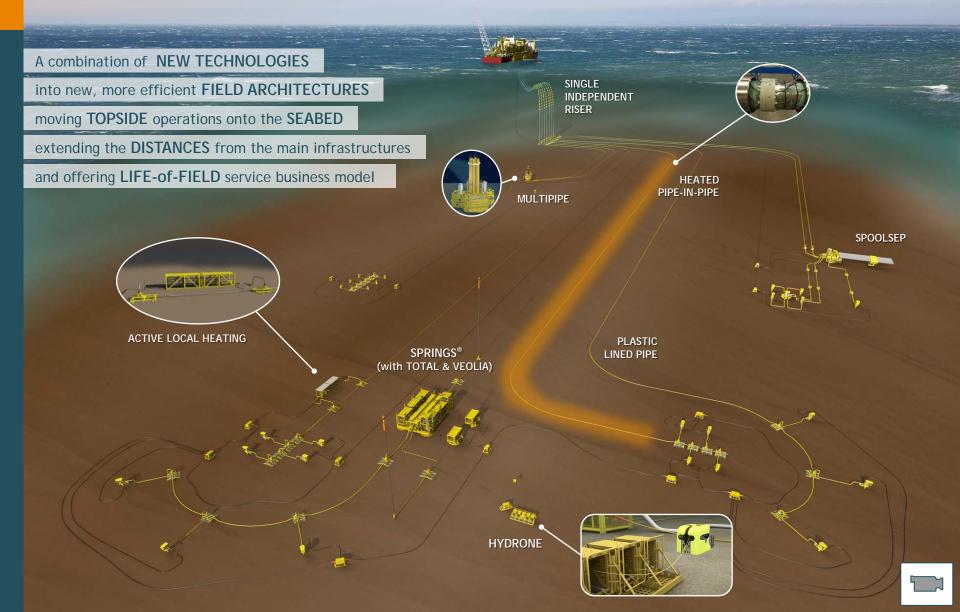
Diversify in **RENEWABLES** market (Offshore Wind Farms)

Complement our FLEET capabilities with equipment, enabling or optimizing installation and maintenance operations

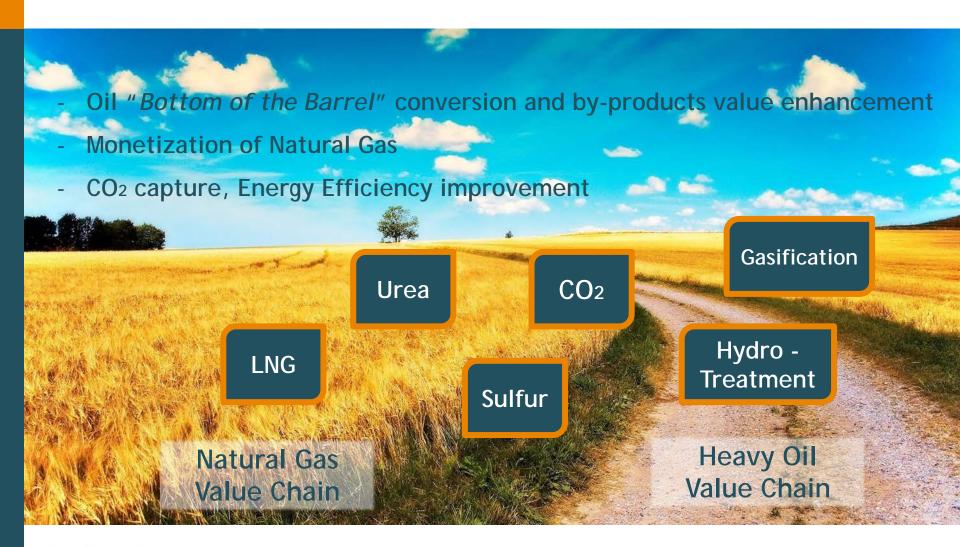
Explore GAME CHANGING innovative solutions



Our Technology Roadmap - Subsea

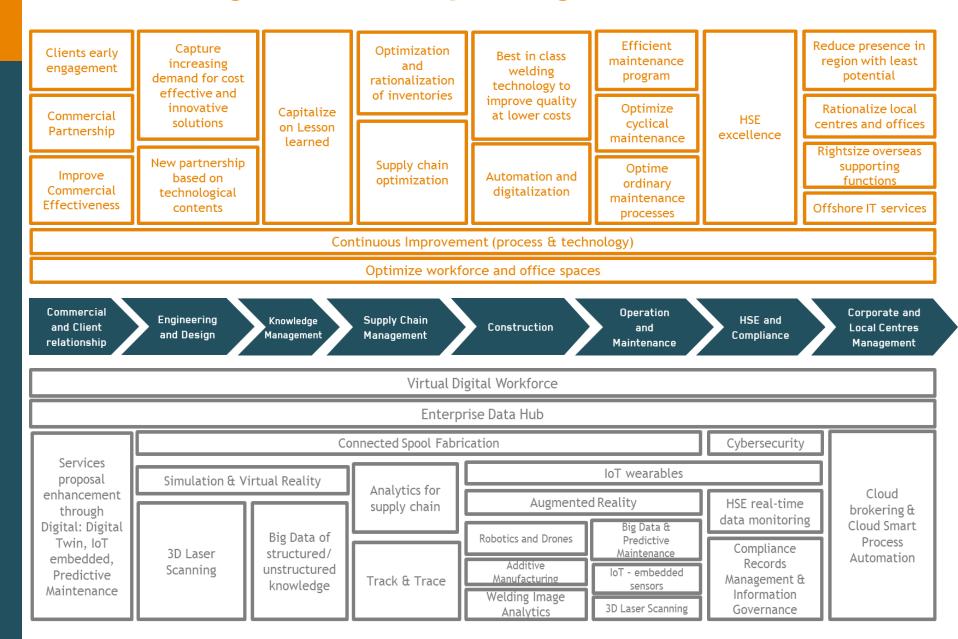


Our Strategic Roadmap - Onshore business

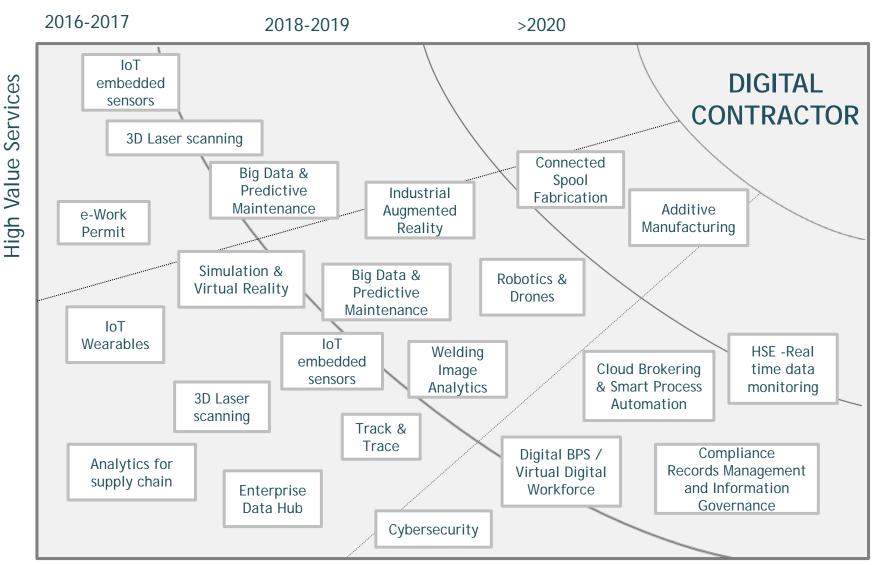




Our Strategic Roadmap - Digital Transformation



Digital Transformation Agenda

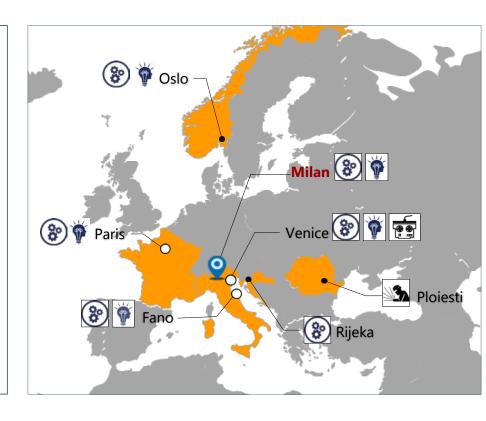




Technology Development 1/4

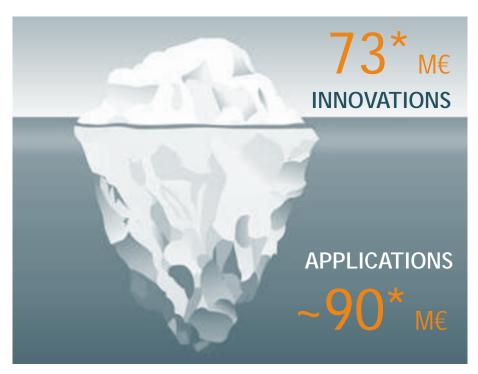


worked hours by year





Technology Development 2/4



* referred to 2012-16 timeframe

Technology Innovations

accounted within the formal R&D budget

Technology Applications

development activities done in commercial or investment projects (i.e. offshore fleet)



Technology Development 3/4

PATENTS PORTFOLIO (December 2016)



36
NEW PATENTS FILED IN 2016

334 PATENT FAMILIES

2308 PATENTS IN FORCE

LICENSED PROPRIETARY TECHNOLOGIES



MTBE + derived techs

(ECOFUEL co-owner)

REFINERY/PETROCHEMISTRY



134 LICENSED UNITS

+60 REVAMPED UNITS +66 EX MONTEDISON

SnamprogettiTM UREA TECHNOLOGY



Technology Development 4/4

JOINT INDUSTRY PROJECTS

from 2013 to 2016



COLLABORATIONS WITH UNIVERSITIES, SPIN-OFFS, RESEARCH CENTERS, INSTITUTES























ARMINES

































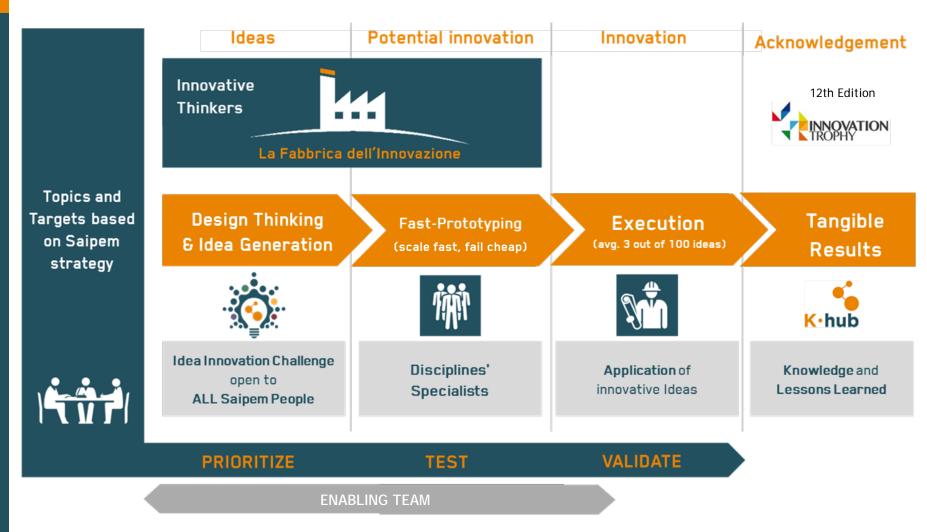








Transformative Innovation 1/4

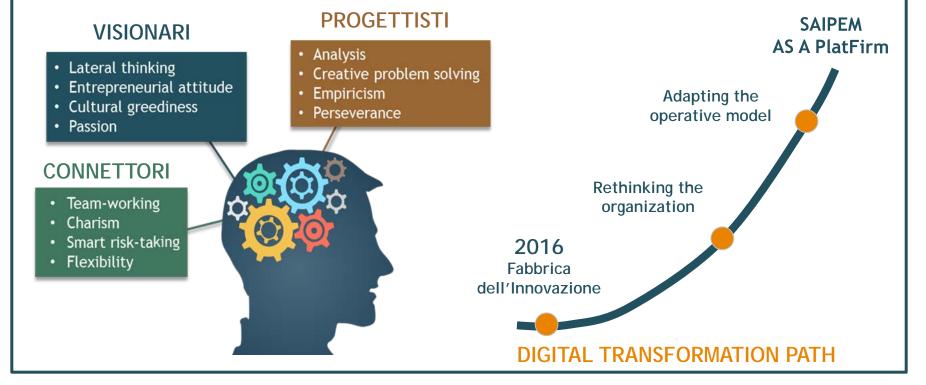




Transformative Innovation 2/4

- Innovative thinkers collaborating with cross-disciplines specialists on strategic themes
- A network of competencies to co-innovate with the ecosystem
- Processes re-design, digital technologies as enabler





Transformative Innovation 3/4

Proof of Concepts

ENGINEERING

PROCUREMENT

CONSTRUCTION

OPERATIONS & **MAINTENANCE**



BIG DATA, ANALYTICS and MACHINE LEARNING



VIRTUAL REALITY and PROCESS SIMULATION



AUGMENTED REALITY



E-P-C DIGITAL COLLABORATIVE PLATFORM



INTERNET OF THINGS and TRACKING



DRONES and UNMANNED VEHICLES



INDUSTRIAL PROCESS AUTOMATION



REMOTE SUPPORT CENTER





Transformative Innovation 4/4

Idea Innovation Challenge

solve specific business challenges through crowdsourcing

Connect People

+
Foster Collaboration
+
Share Ideas

1st Edition RESULTS

NEW IDEAS GENERATORS 33

DEVELOPERS 20
RESPONDING 10

A crowd-innovation initiative open to the external ecosystem will be launched soon



Technology Intelligence

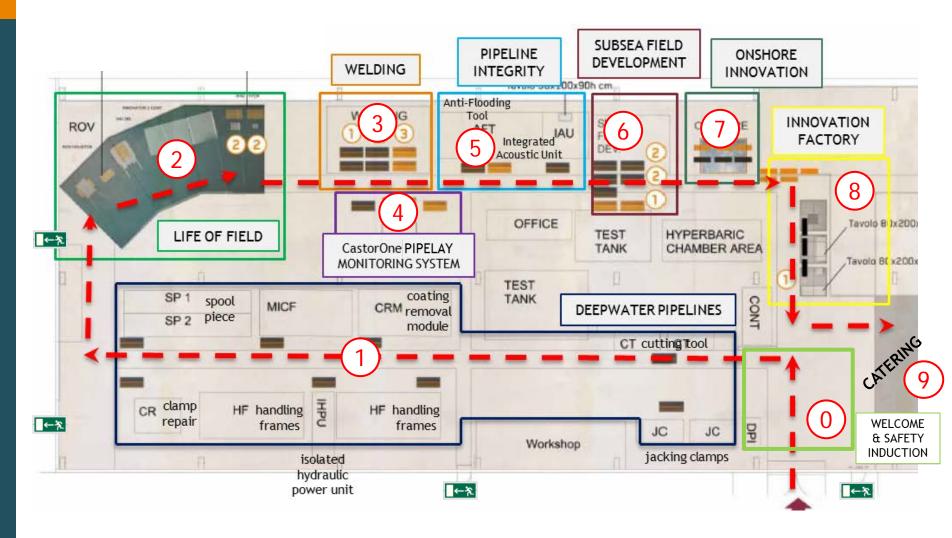
TARGET scout disruptive technologies
chase new value propositions
discover growth opportunities

universities
R&D centres
start-ups
traditional O&G partners
non-O&G firms





TECHNOLOGY EXPERIENCE





Are you too busy to Innovate?



