



**Our approach towards a collaborative project
life-cycle management & managerial challenges
while building an innovation ecosystem**

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Such a big opportunity

Why

Over the last 10 years project costs increased 5-fold and productivity declined, while other industries (automotive, aerospace, logistics, ...) benefited from automation and digital technologies

In a volatile scenario, our Clients wants us to deliver complex projects with reduced costs and faster time-to-market

How

Digitalization is a must to exploit to boost productivity, increase efficiency and chase new value propositions

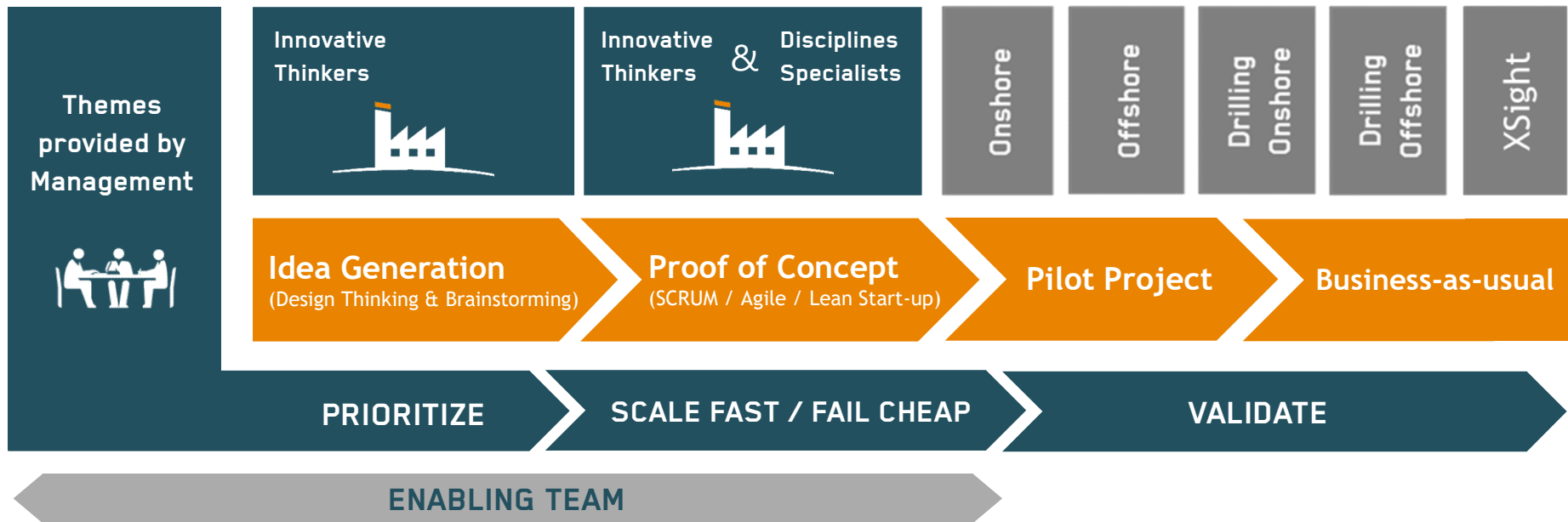
Embracing the Digital Journey requires a new approach towards people and a focus on disruptive technologies, while processes are adapted or reinvented

Innovation Factory integrated approach

Open Innovation
 Network of internal competencies collaborating on strategic themes with the ecosystem

Humanization
 Balance management with smart leadership and nurture the digital competencies of the future workforce

Creative Destruction
 Exploiting the benefits of digital technologies (big data, machine learning and automation)



The Innovative Thinkers

Cross-functional colleagues willing to innovate:
Dream big + Get things done fast + Know how to enjoy the day @ work

Personal Skills' set

VISIONNAIRES

- Lateral thinking
- Entrepreneurial Attitude
- Cultural Greediness
- Passion

DESIGNERS

- Analysis
- Creative Problem solving
- Empiricism
- Open Mindness

CONNECTORS

- Team-working
- Smart Risk-taking
- Public speaking
- Storytelling



Digital Competencies



- Software Development
- Data Science
- User Experience

1 Year of Innovation Factory - delivered Proof of Concepts

DIGITAL SITE

- Track & trace of material
- Warehouse smart logistics
- Prefabrication progress monitoring
- Remotely operated Inspections at height via drones
- Security patrolling via terrestrial rover
- Aerial inventory via drones



ONSHORE ROBOTICS

- Pipe support robotic welding



OFFSHORE AUTOMATION

- Automated Line-Up System via vision technology



PREFABRICATION AUTOMATION

- Offshore structures welding Automation
- Full process automation



AUGMENTED SUPPORT to OPERATIONS

- Remotely based experts
- Olographic equipment instructions
- Virtual and Mixed Reality for Site Visit
- Topside/windturbine installation advisory tool
- Predictive maintenance for Saipem 12000 equipments



SMART HSE

- Safety connected wearable devices
- e-Permit to work
- Man\Machine anti-collision system



VIRTUAL TRAINING

- Vessel HSE training
- Welding operation simulator



INTEGRATED PROJECT MANAGEMENT

- xDIM™ - Collaborative project life-cycle management



INSIGHTS for BUSINESS DECISION MAKING

- A. I. for Offshore construction market
- Urea plant demand predictive model
- Cognitive engineering
- Analytics for supply chain Total Cost of Ownership



xDIM™ - SAIPEM AS ENGAGING PlatFirm

- Digital collaborative platform integrating the stakeholders' activities along the full project life-cycle
- Adoption of a strong collaborative approach, enforcement of a data-centric methodology of co-creation and redefinition of work processes
- Real-time decision making, increased productivity, improved risk & opportunity management, continuous handover to client, reduced claims or litigation

