





On-line workshop:

'La digitalizzazione nei cantieri navali'

04 Febbraio 2022







'Fincantieri for the Future: il cantiere digitale'

Dott. Tharsis PILUTTI NAMER

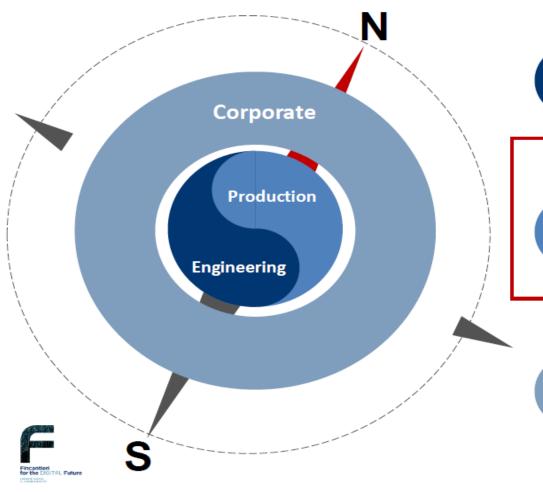
Fincantieri spa







FINCANTIERI'S VISION



ENGINEERING



Integration of all design phases and disciplines adopting a full 3D approach; design process extremely focused on the simplification of the production operations

TODAY FOCUS

PRODUCTION



Adoption of a bespoke automotive model based on constant workload, just in time logistic, automatization of the low value tasks and workforce specialization.

CORPORATE



Drive the factory of the future strategy across all the company dimensions and regions. Enable and serve both production and engineering with lean and digital processes, adopting a data driven approach

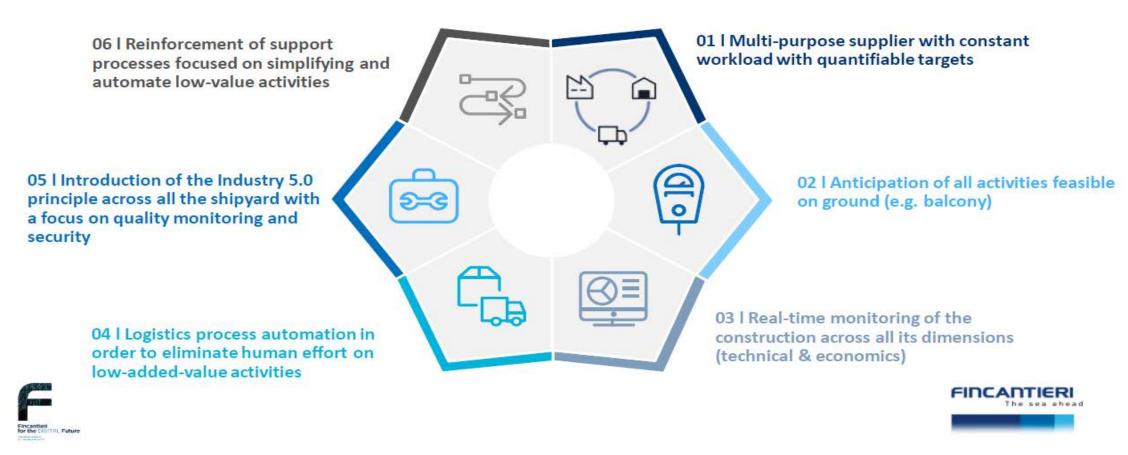






PRODUCTION: EVOLUTION PILLARS

Fincantieri's vision for production aims to apply automotive model to shipyards, converting work onboard in work executed on the ground. This allows to introduce agility, improve efficiency and reduce overall costs.

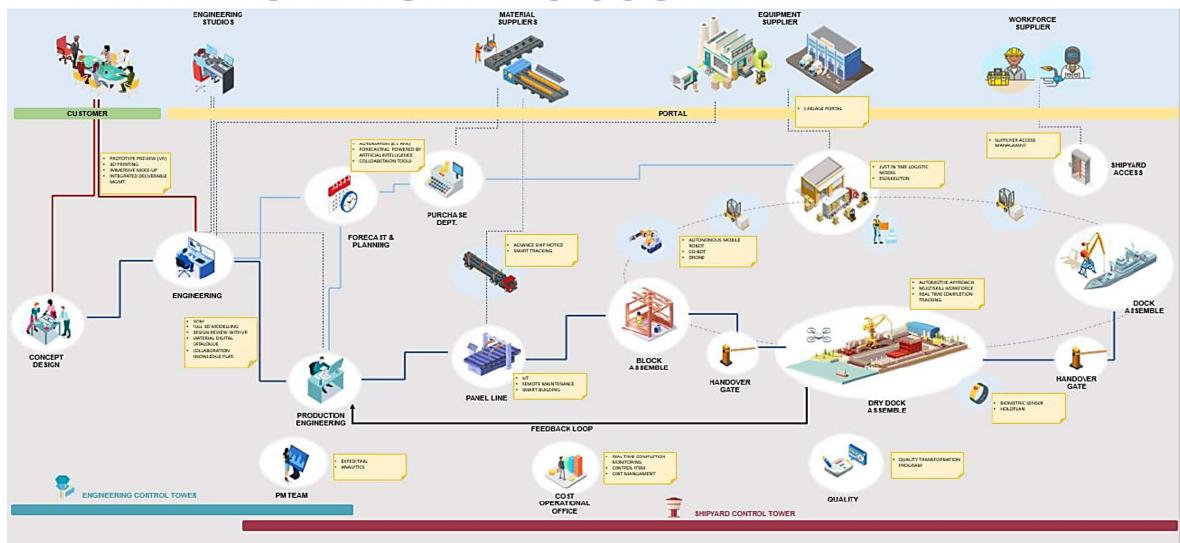








2025: THE SHIPBUILDING JOURNEY



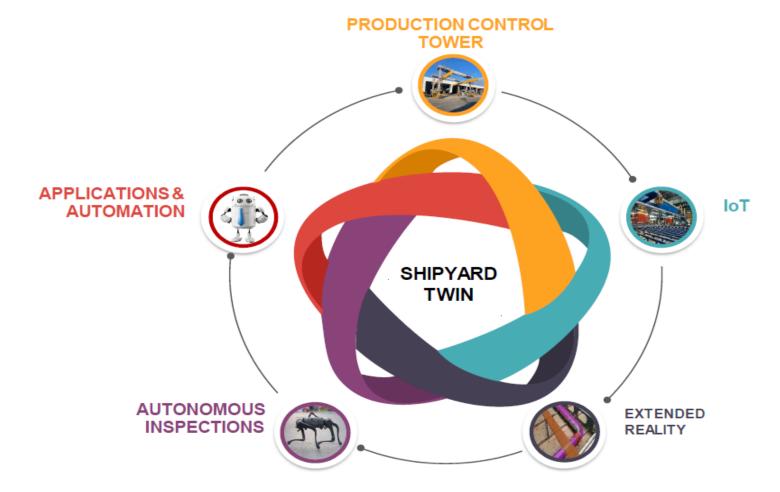






SHIPYARD TWIN: BUILDING BRICKS

MULTIPLE TECHNOLOGIES WHICH WORK AS A SINGLE APPLICATION













PRODUCTION CONTROL TOWER

BUILD AN ECOSYSTEM OF TOOLS ABLE TO SUPPORT THE OPERATORS ACROSS THE ASSEMBLY ACTIVITIES

THE PRODUCTION CONTROL TOWER IS A **TOOLBOX** WHERE EACH APPLICATION IS BOTH FOCUSED ON **SOVING A SPECIFIC NEED**AND **CONNECTED WITH THE OTHER APPS**, IN ORDER TO RETURN A **HOLISTIC VIEW OF ALL THE PROCESS**



ASSEMBLY TRACKING PIPE LIFE CYCLE
MANAGMENT

SUPPLY CHAIN MANAGMENT PRESS FITTING MANAGMENT

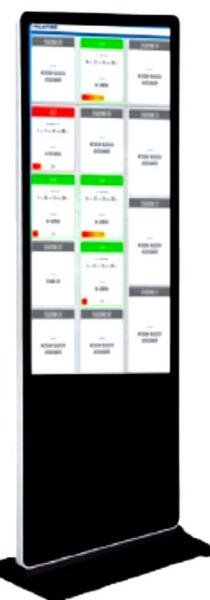












THE FIRST STEP OF THE PRODUCTION CONTROL TOWER JOURNEY

15 WORKING STATIONS IN MONFALCONE SHIPYARD FULLY DEDICATED TO THE BLOCK ASSEMBLY ACTIVITIES POWERED BY

- JUST IN TIME LOGISTIC
- HIGH SPECIALIZED WORKFORCE
- REAL TIME MONITORING

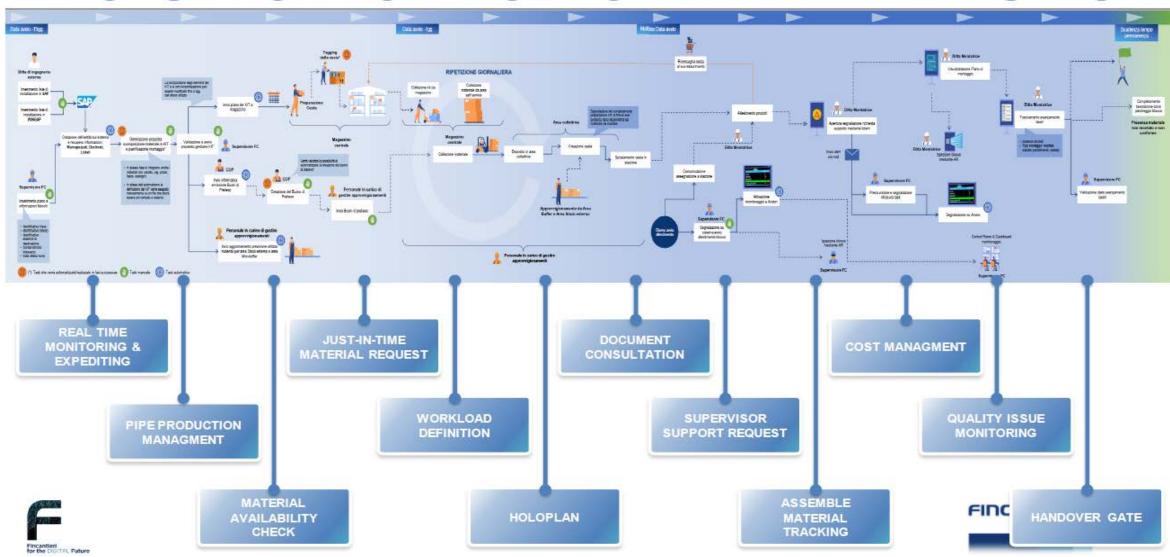








PRODUCTION CONTROL TOWER: MAIN FEATURES









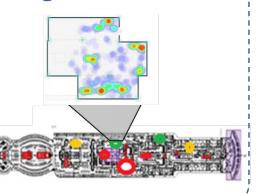
Fincantieri ShipYard IoT examples:

Smart Buildings



Smart Tracking





Assembly Plant monitoring



Always CONNECTED Plant



ONBOARD FULL CONNETTIVITY

THE ABILITY TO HAVE **DATA COVEREGE WILL ENABLE** TO DEPLOY OF A **WIDE RANGE OF USE CASES** (lott, Security, Voip Communication...)

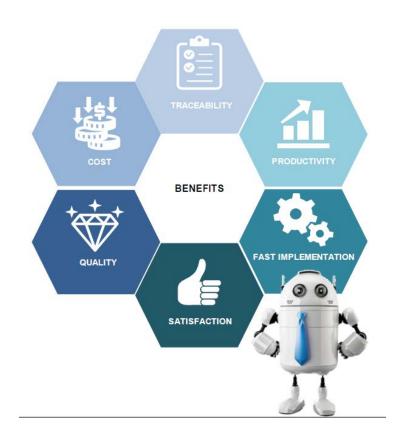


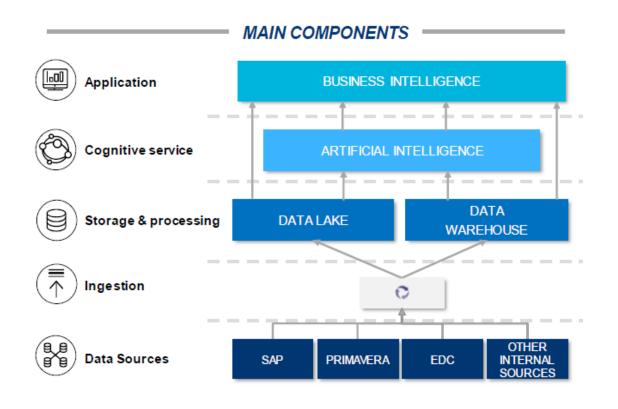




INTELLIGENCE PROCESS AUTOMATION

BUSINESS INTELLIGENCE& ANALYTICS











AUTONOMOUS MOBILE ROBOT (AMR)

EVALUATION AND TESTING IN REAL ENVIRONMENTS OF NEW ROBOTIC TECHNOLOGIES TO SUPPORT COSTRUCTION ACTIVITIES BOTH IN DANGEROUS AREAS AND LOW VALUE TASKS REPLACEMENT



















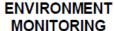


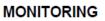
SUPPLY CHAIN

Inventory consistency check

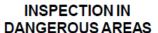
· Material transportation

· Material picking Material sorting





- · Air quality monitoring
- · Metal presence on the ground



- · Inspection in high altitude
- · Accessibility check in double bottom and tanks

 Remote control of a robot arm featured with haptic sensors

CO-BOT



