

INDUSTRIAL INSPECTIONS WITH DRONES-MARITIME & OFFSHORE



OPG INNOVATIONS – MISSION

MAKE THE MARITIME & OFFSHORE INDUSTRY SAFER AND EFFICIENT

OPG INNOVATIONS – VISION

FIND, DEVELOP & COMMERCIALIZE INNOVATIVE HIGH TECH
SOLUTIONS TO INCREASE SAFETY AND EFFICIENCY IN THE
MARITIME AND OFFSHORE INDUSTRY



OPG INNOVATIONS-COMPETENCES & CERTIFICATIONS

OPG INNOVATIONS PERSONNEL & PARTNERS

- a. EXPERIENCED HIGH TECH ROBOTICS SPECIALISTS
- b. EXPERIENCED CERTIFIED FORMER CLASS SURVEYORS
- c. EXPERIENCED SHIP & OFFSHORE REPAIR MANAGERS
- d. EXPERIENCED MAINTENANCE SUPERINTENDENT ENGINEERS
- e. LARGE INNOVATIVE NETWORK RANGING FROM HIGH TECH SOFTWARE TO HARDWARE COMPANIES
- f. EXPERIENCED PRODUCT DEVELOPMENT PARTNERS
- g. CERTIFIED DRONES AND PILOTS BY : ABS, LLOYDS, RINA BV, KRS
- h. FULLY CERTIFIED TO FLY IN MULTIPLE COUNTRIES
- i. SKILLFUL PILOTS WITH 20 YEARS OF AVIATION KNOWLEDGE



INSPECTION WITH DRONES-MARITIME

✓ CARGO TANKS

✓ BALLAST TANKS

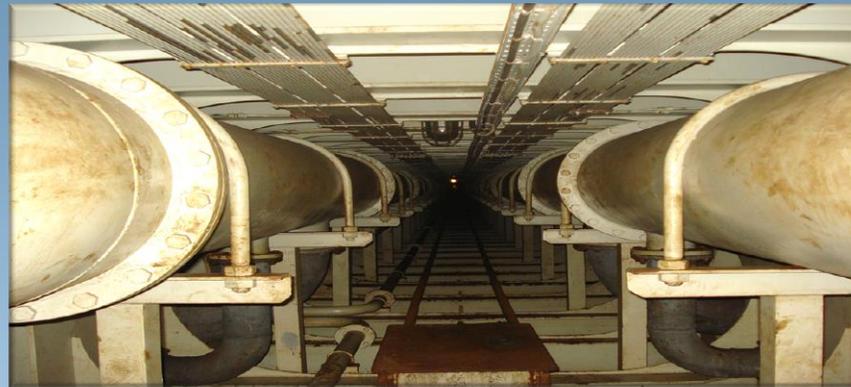
✓ VOID SPACES

✓ DUCT KEELS

✓ POTABLE WATER TANKS

✓ STORAGE TANKS

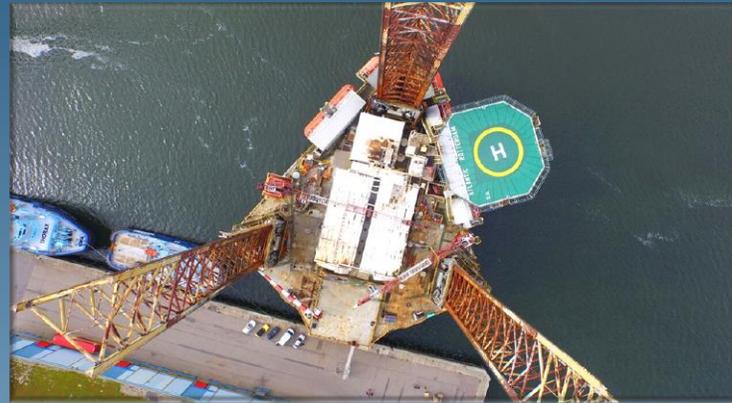
✓ MASTS



INSPECTION WITH DRONES-OFFSHORE

SAME AS MARITIME PLUS:

- ✓ NON ACCESSIBLE AND RISKY AREAS
- ✓ FLARE/CRANE BOOMS
- ✓ DRILLING DERRICKS
- ✓ PIPE LAY TOWERS
- ✓ JACK UP/SEMI-SUBMERSIBLE/JACKET LEGS
- ✓ BRACINGS & CONNECTIONS



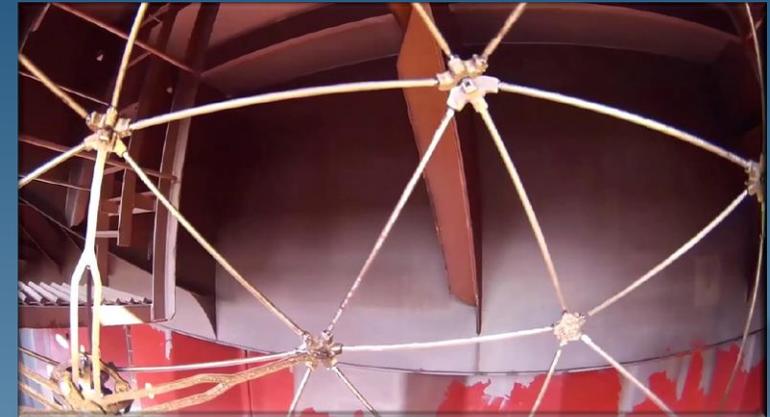
WHY DRONES ?

- ✓ COST AND TIME EFFICIENT
- ✓ NO STAGING , TANK PREPARATION, WORK PERMITS
- ✓ FASTER AND SAFER (NO HUMAN PRESENCE IN THE SPACES)
- ✓ HIGH RESOLUTION CAMERA DETECTS ALL DEFECTS EVEN IN DARK COATED TANKS
- ✓ SIGNIFICANT REDUCTION IN DOWNTIME, AS INSPECTION IS DONE DURING OPERATIONS
- ✓ INSPECTIONS IN AREAS NOT ACCESSIBLE BY HUMANS OR HIGH RISK AREAS
- ✓ LARGE DATA ACQUISITION FOR IMMEDIATE DECISION MAKING AND HISTORY RECORDS
- ✓ INSPECTIONS DURING SAILING, DECISION MAKING PRIOR ARRIVING IN THE DRY DOCK.
- ✓ ACCURATE 3D MODELS , LIVE STREAMING
- ✓ MEASUREMENTS FROM PHOTO DATA USING PHOTOGRAMMETRY

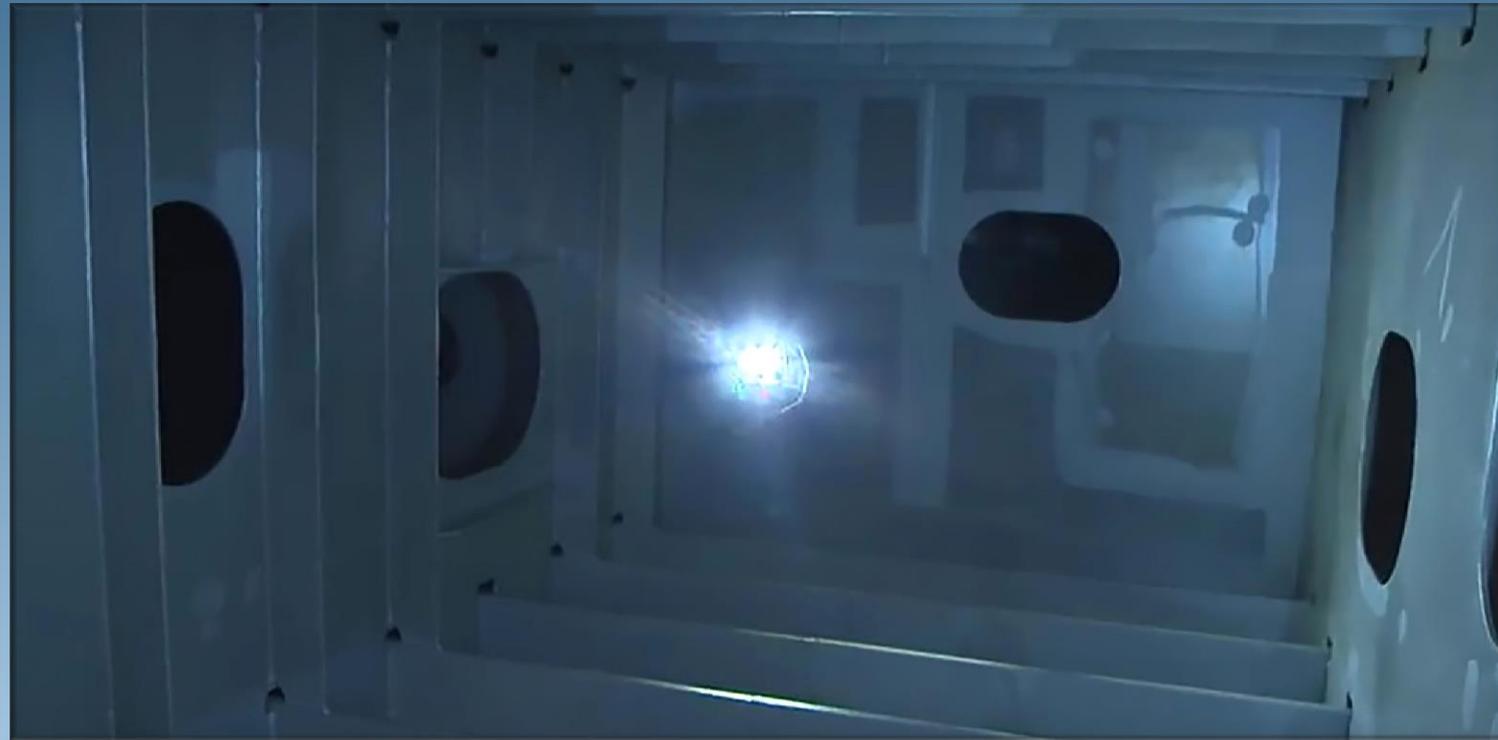


APPLICATIONS

- ✓ CLASS & STATUTORY SURVEYS
- ✓ INSURANCE AND CLAIMS SURVEYS
- ✓ ON/OFF HIRE SURVEYS
- ✓ PREPARATION SURVEY PRIOR DRY DOCK
- ✓ DROPS INSPECTIONS
- ✓ GENERAL SAFETY INSPECTIONS



DRONE IN ACTION-INSIDE BALLAST TANK!



DRONE IN ACTION-EXTERNAL OFFSHORE RIG!



OPG INNOVATIONS DRONE INSPECTION

- ✓ LATEST DRONE TECHNOLOGY
- ✓ UNIQUE COMBINATION OF COMPETENCIES
- ✓ CONFIDENTIALITY
- ✓ CUSTOMIZATION
- ✓ THOROUGH KNOWLEDGE OF
CLASS & STATUTORY REGULATIONS
- ✓ INSPECTION MANAGEMENT
- ✓ PROFESSIONAL REPORTING
 - ADVISING AND CONCLUSIONS
 - EFFICIENT, CONTENT REPORTING
 - SECURE DATA STORING



“CONTINUOUSLY IMPROVING OUR DRONE TECHNOLOGY”



OPG INNOVATIONS

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