

EXECUTIVE SUMMARY: GAP-FILL WORKSHEET

INSTRUCTIONS: FILL IN THE BLANKS USING THE SIX "TECHNICAL ANCHORS" FROM THE WORD BANK BELOW.

WORD BANK

- OUR SOLUTION IS DESIGNED TO ENSURE
- WHAT IS ESSENTIAL HERE IS
- WHAT REALLY DRIVES THIS
- IF WE LOOK AT THIS IN OPERATIONAL TERMS
- FROM A TECHNICAL PERSPECTIVE
- THE KEY CONSIDERATION IN THIS CONTEXT IS

(1) _____, THE DEPLOYMENT OF THE BAS (SUBMERSIBLE ARTICULATED BUOY) ENSURES THE SIGNAL'S FOCAL PLANE REMAINS STABLE EVEN IN HIGH-ENERGY SEA STATES, BEHAVING WITH THE RELIABILITY OF A FIXED LIGHTHOUSE. (2) _____ THE PROXIMITY OF THE PORT'S EXISTING CONCRETE FOUNDATIONS; THEREFORE, WE UTILIZE DIAMOND WIRE CUTTING TO REMOVE SUBMERGED ROCK OUTCROPS WITHOUT THE SEISMIC RISKS ASSOCIATED WITH TRADITIONAL BLASTING.

(3) _____ 100% AVAILABILITY OF NAUTICAL SIGNALING THROUGH THE USE OF HIGH-INTENSITY LED LANTERNS EQUIPPED WITH INTEGRATED SATELLITE MONITORING FOR REAL-TIME STATUS REPORTING.

(4) _____, THE HIGH-PRECISION DATA PROVIDED BY OUR MULTIBEAM BATHYMETRY SIGNIFICANTLY REDUCES VESSEL DOWNTIME BY PINPOINTING EXACT MAINTENANCE DREDGING NEEDS.

(5) _____ STRATEGIC SHIFT TOWARD NON-EXPLOSIVE REMOVAL IS THE NEED TO COMPLY WITH STRICT BRAZILIAN ENVIRONMENTAL LEGISLATION, WHICH PRIORITIZES THE PROTECTION OF MARINE FAUNA. ULTIMATELY, (6) _____ THE ABSOLUTE ACCURACY OF THE SEABED MAPPING, AS THIS HIGH-RESOLUTION DATA IS THE ONLY WAY FOR PORT AUTHORITIES TO SAFELY INCREASE THE OPERATIONAL DRAFT FOR THE NEXT GENERATION OF LARGER VESSELS.