

PROBLEM

- An expanding EWN portfolio requires efficient benefits quantification
- Site access limitations make traditional field surveys difficult
- Lack of standard remote sensing approach leads to inefficiencies

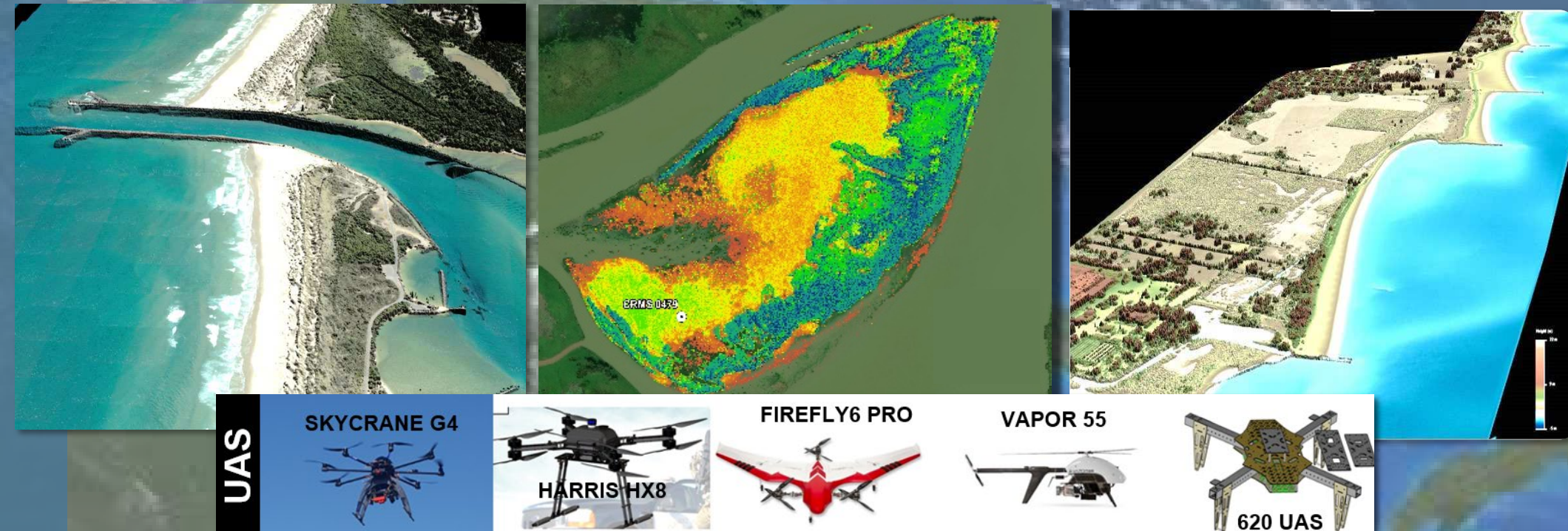
SOLUTION

- 17% increase in number of satellites; >million mi² of annual high-resolution data; open access to DoD
- Map hundreds of mi² with project-relevant spatial detail
- Advance remote sensing technology across EWN project life cycle

IMPACT

- \$371 billion global space economy
- Transform project practices
- Innovative approaches to effectively quantify and communicate environmental benefits

COMPREHENSIVE FRAMEWORK FOR INCORPORATING REMOTE SENSING METHODOLOGIES INTO EWN DESIGN AND APPLICATION



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WHAT'S NEXT

Develop innovative remote sensing methods supporting EWN project life cycle

APPLICATIONS

- U.S. EWN Atlas projects: total >40K acres, average >400 acres (Vols 1 & 2 subset analysis)
- Examine conditions before and after implementation
- Evaluate milestones and benefits across project life cycle
- Compare projects across space and time

STATUS

- New work unit under way
- ERDC Technical Note highlights remote sensing vision (in review)
- Video demonstrates value of remote sensing to EWN (in development)

BENEFITS

- Applicable to hundreds of projects across the country
- Innovative approach to >10 project types in all 5 project phases
- Alignment with EWN Strategic Plan to transform project practices
- Capture impacts beyond the project footprint