# **AECOM Technical Innovation and Digitization (July 2022)**

**REMEDIATION / HAZARDOUS WASTE** 



**PFAS Treatment** Technology



Integrated Restoration and Remediation of Mercury-Contaminated Riverbanks



In Situ Wetland Remediation



In Situ Treatment of Predictive Integrated 1,4-Dioxane Stratigraphic Modeling (PRISM\*)

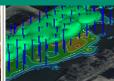


Harmful Algae **Bloom Mitigation** and Prevention



DNAPL

**High Concentration** "Chemometrics" **Explosives** Remediation



Sub-Aqueous Sediment Stabilization



In-House Treatability Laboratories Support Remedial Innovation



Reef Balls Support a Living Shoreline to Eliminate Exposure



Biooxidation for Risk-Based Management of Complex NAPLs

Studies

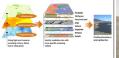


Chlorpyrifos Destruction in Soils

## **ENVIRONMENTAL PLANNING & PERMITTING (EPP)**



Archaeology and Cultural Heritage Predictive Modeling



OptiSite and RouteAnalyst



**Unmanned Aerial** Vehicles



Archaeology and Cultural Heritage (mobile) Data Capture



Advanced Visualization



**Virtual Consultation** Tool



PlanEngage Tool for Digital Reporting



Remote Noise and Immersive Sound Vibration Monitoring Studio



Digital Data Management



Automated

**LNAPL** Sensing

Spatial Data Science and Analytics



**Next-Gen Data** eDNA Sampling Technology for Ecological Field Capture

**CLIMATE CHANGE SOLUTIONS** — from Mitigation to Adaptation



Plant Propagation/ Seed Bulking Facilities

**AIR QUALITY** 

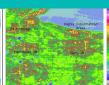
**EQUITABLE ENGAGEMENT** 



Real-time Continuous Fenceline Air Monitoring System and Electronic Dashboard for Refinery Rule



Web Camera Capture of Visible Emissions for Regulatory Compliance Data Collection



Satellite Collection of Heat Release Data



Automated Backpack Enhanced Monitoring System for Real Time AQ **Data Collection** 



Automation of Daily AQ Field Reports



Air Quality Sensors for Internet of Things (IoT)



**GHG Emissions** Modeling and Digitization for Airlines



Leak Detection -GHG/CO2/CH4



Database **Emissions Tracking** and Emissions Reductions



Carbon Markets Communication and Offset Gate Key



Climate Action for **Urban Sustainability** Tool (CURB)



Forecasting Local Facility Climate Risk Extremes (FLEx) Tool Assessments



Disaster Resilience Scorecard

### **CLIMATE CHANGE SOLUTIONS**



Climate Resilience Planning and Preservation for Historic and Cultural Resources



Climate Adaptation Pathways Approach





EPA Climate Changerelated Vulnerability Indicators



Equity-Focused Project Planning & Prioritization



Integration Model (SSIM)



Sustainable Systems



Engagement

Co-creation with Community-Based Organization



AECOM's Suitability for Action Viable Engagement (SAVE) Model



Rosetta

**PROCESS & WORKER SAFETY** 



**AECOM Energy** Analytics



Machine Learning Asset Inspection Management



ev-readi



Charging as a Service

#### **EHS MANAGMENT**



Virtual Reality for Training





Virtual Audits



Toolbox

Automated

Management and

Staff Notification



Next-Gen Data Capture



Virtual Reality for Training



**Unmanned Aerial** Systems (UAS) and other Autonomous **Technologies** 



Terrestrial Hand-Held LiDAR Capture



FieldCom

#### **EHS DATA MANAGEMENT**



Information Systems

**EHS Compliance** Assurance



and Analytics



