KEY CONTACTS

Vince Allen

U.S. EPA Office of Mission Support, allen.vince@epa.gov, (202) 564-1675

Kurt Rakouskas

Environmental Council of the States, krakouskas@ecos.org, (202) 266-4935

RESOURCES

Digital Strategy

Operationalizing the Principles of the E-Enterprise Digital Strategy

IOT/Sensor Sprint Summary Report

E-ENTERPRISE DIGITAL STRATEGY

Building a path toward a shared digital future for EPA, States, and Tribes

CHALLENGE

Today's environmental programs increasingly require leaner, more flexible, lower cost, and technically savvy business and technology solutions. Environmental regulatory agencies face multiple challenges that require innovative solutions, including improving data exchange, reducing costs to regulated entities, increasing availability and transparency of data, streamlining operations, and delivering faster outcomes. Increasingly tight budgets are also spurring agencies to find efficiencies in their processes, operations, and technology expenditures. These challenges are motivating E-Enterprise partners to collaborate on transformative approaches to environmental management.

BENEFITS

- Offer EPA, States, and Tribes the opportunity to come together to share innovative solutions to modernize current systems and develop services in smart, secure, and affordable ways.
- Provide EPA, States, and Tribes with best practices, standards, shared development opportunities, and practical examples to support more efficient and shareable technology projects.
- Provide resources and guidance for responsive customer-centric services to the public, agency staff, and the regulated community.

ACCOMPLISHMENTS

- The E-Enterprise Digital Strategy serves as a high-level framework to help environmental agencies voluntarily coordinate their technology investments. The Strategy incorporates a broad range of input from government practitioners, the public, and private-sector experts.
- Operationalizing the Principles of the E-Enterprise Digital Strategy describes how environmental programs can practice the principles of E-Enterprise and the Digital Strategy to modernize their business processes, workflows, and information systems.
- With the trend toward the use of Application Programming Interfaces (APIs) expected to accelerate, E-Enterprise developed a first version of an overarching API Product Management Framework to assist environmental agencies in planning a strategy and fully taking advantage of this technology. In addition, the team interviewed API development teams and developed a Collaboration Space Lessons Learned Report along with a set of use cases.
- The E-Enterprise IOT/Sensor Sprint Summary Report provides the findings and recommendations from an assessment of EPA, state, tribal and other federal government sensor programs. The paper lays out the basic components of an IoT-based sensor network, use cases, cross-cutting challenges and gaps in sensor architectures, and a notional interim sensor target architecture.
- The Digital Strategy team conducted a series of sprints to get partner feedback on the concept of a Technology Library of best practices to help E-Enterprise partners make coordinated choices about technology investments and design decisions.

WHAT'S NEXT?

E-Enterprise and the Exchange Network are continuing to operationalize the Digital Strategy in major system modernizations such as the Safe Drinking Water Information System and the Integrated Compliance Information System. The governance also plans to develop practical guidance that agencies can give to developers and contractors to promote more useful, shareable, and interoperable technology projects.

GET INVOLVED

E-Enterprise needs your expertise and perspective! Use the E-Enterprise Community Inventory Platform to comment on the Digital Strategy or express an interest in participating.