Distributed Asset Construction Solutions

Coordination and communication challenges cause program delays and cost overruns.

Infrastructure construction program management involves processing and acting on data from up to thousands of data sources. This data changes continuously, which impacts downstream processes in turn. Program success demands up-to-the-minute data on project status, issues, and changes, whether made at the executive level or at an individual site. Unfortunately, the profusion of assets and geographical scope of many infrastructure construction, expansion, and upgrade programs makes coordination and communication difficult, even with leading project management platforms.

- **COMMUNICATIONS LAPSES:** Miscommunication among project teams and managers can lead to poor handoffs, wasted resources, and missed deadlines.

- **GEOGRAPHICAL BREADTH:** Widely distributed assets or projects bring specific team challenges, including staggered site schedules and geospatial planning factors.

- **MASSIVE ASSET COUNTS:** Even minor inefficiencies can lead to material setbacks due to the extremely high number of assets.

- **BRIEF PLANNING CYCLES:** Inefficiencies exacerbated by high asset counts and geographical vastness bring risk and uncertainty when tight execution cycles demand extraordinary precision.

**Asset profusion, geographical scope, & silos pose risks.**

- **HIGH COMPLEXITY:** Infrastructure program managers rely on many, often far-flung teams, each focused on a specific project element.
The majority of utility respondents *(76 percent)* are busy developing grid modernization plans or already have a strategy for electric distribution in place.

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2018 Black & Veatch Strategic Directions
Smart Cities & Utilities Report

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A secure, scalable, centralized program management portal.

- **SIMPLIFY COMMUNICATION & COORDINATION:** Give all stakeholders a powerful resource for assessing project status; synchronizing across functional and geographical teams; and communicating status changes and other updates vital to keeping construction projects within budget and on schedule.

- **CENTRALIZE PROGRAM RESOURCES:** Leverage secure cloud technologies to provide ready access to schedules, status information, user notes, and activity logs. Share documents, geospatial maps, spreadsheets, project management data, CAD renderings, photos, and asset manifests.

- **DEFINE ACCESS PRIVILEGES FOR ALL USERS:** Give executives, site managers, and contractors the precise read and write access to fully leverage the program management resource for reviewing dependencies, late-breaking status changes, documentation, and other data vital to ensuring success.

- **VISUALIZE STATUS DATA GEOSPATIALLY:** Apply GIS-based spatial engineering and mapping, as well as support for image files, to enable site managers to perform at high velocity while reducing the risk of error.

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Program managers charged with building, expanding, or modernizing infrastructures need a specialized solution to centralize planning, exception, and status data. The solution must complement—not duplicate—prevailing project and program tools. It must provide secure access to a diversity of data and file types, including CAD renderings, geospatial coordinates, schedules, manifests, photographs, contracts, and other materials. The solution must scale, to provide reliable and responsive user experiences no matter how complex or vast the program. Integrated communication capabilities and email integration are also essential, as are user notes and activities logging. And the solution must offer anytime, anywhere access.

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To learn more about Atonix Digital and our **Distributed Asset Construction solutions**, visit:

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