



City of Baltimore: Modernizing Infrastructure Planning with CIPAce™

Replacing manual processes with a unified cloud solution to manage the planning of 500 million dollars in annual capital projects.

The City of Baltimore Department of Public Works manages a complex infrastructure portfolio with an annual capital budget exceeding 500 million dollars. To meet federal requirements and ensure fair resource allocation, the City transitioned from a manual email and spreadsheet planning culture to a modern data driven framework.

By deploying the CIPAce™ Enterprise Platform, Baltimore successfully implemented the EPA mandated Integrated Planning Framework in just three months. Our platform streamlines the CIP lifecycle, prioritizing infrastructure by asset condition, equity, and regulatory mandates.

Customer Profile: A Hub of Infrastructure Complexity

Founded in 1729, Baltimore is the second largest seaport in the Mid Atlantic and serves over 620,000 residents. The Department of Public Works is responsible for the construction and maintenance of critical water, wastewater, storm water, and solid waste systems.

The Business Challenge: Overcoming Process Inefficiency

When planning data lives in spreadsheets and siloed systems, organizations face common risks:

- **Fragmented Data:** Project managers used individual Excel forms to track phase durations and funding needs.
- **Quality Issues:** Submission quality varied between departments, leading to frequent bottlenecks and a need for data resubmissions.
- **Complexity of Scale:** Every year, the Department of Public Works evaluates hundreds of submissions with unique cost sharing arrangements with surrounding counties.
- **The Planning Mandate:** The City needed to implement 15 qualitative matrices for ranking project priorities, which was nearly impossible to manage manually while ensuring accuracy.

Strategic Objectives

Digitalize the Planning Process:

Move the Integrated Planning Framework into a fully electronic, weighted scoring system.

Ensure Financial Accuracy:

Automate the calculation of funding splits and spending curves to eliminate human error.

Meet Strict Deadlines:

Complete the entire digital overhaul within 90 days to meet the City Council's budget presentation schedule.



The Solution: CIPAce™ Enterprise Platform

The City selected CIPPlanner for its ability to rapidly customize solutions for the public sector. The platform was configured to mirror the City's exact business processes, organized into discrete and user friendly tabs.

Core Technical Capabilities

- **Automated Fund Management:** The system automatically projects funding needs and splits across a six year planning cycle.
- **Visual Planning Tools:** Project managers now use a graphical interface for project phase durations, which improves the overall project schedule.
- **Dynamic Workflow Engine:** Approval processes are generated automatically based on the current organizational hierarchy.
- **Enterprise Grade Security:** This cloud solution passed the City's strict internal IT security standards.

Value Driven Results

The implementation of CIPAce™ has transformed Baltimore's Department of Public Works into a model of efficiency.

- **Rapid Implementation:** The solution moved from project kick off to go live in just three months.
- **Enhanced Transparency:** Stakeholders now have a shared view of project rankings and optimization based on financial constraints.
- **Operational Savings:** Reduced implementation time and low annual maintenance costs helped the City realize significant savings.
- **Unprecedented Accuracy:** Automated spending curve projections give the Fiscal Department total assurance of accurate data.

Project Results at a Glance

Implementation Speed: 3 months from project kick off to live operations.	Annual Budget Managed: Over 500 million in infrastructure investment.	Planning Horizon: 6 year multi year capital improvement cycle.	Priority Framework: 15 Matrix qualitative ranking system for project selection.
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About CIPPlanner Corporation

CIPPlanner is a leading provider of cloud based enterprise solutions for capital infrastructure program management. Since 2005, the CIPAce platform has helped government agencies and private organizations optimize investments and enhance operational efficiency. Trusted by local governments and global enterprises, we deliver scalable solutions for the entire project lifecycle.