

Evolver OPTIMIZE

AI-Powered Workflow Optimization & Interoperability Acceleration

Deliver mission-grade workflow optimization and interoperability, securely and fast.

Customer Challenge

U.S. Federal government agencies often struggle with how best to optimize information technology (IT) workflows (data exchange, shared services, approvals) that are often brittle, manual, and inconsistently implemented across systems.

IT Modernization often stalls due to unclear process ownership, fragmented data semantics, cybersecurity constraints, and integration backlogs. Programs need a secure, repeatable way to baseline and optimize performance, isolate the highest-leverage interoperability and automation fixes, and field changes without degrading compliance or continuity.

Evolver Integrated Solution – Unique Features

Mission Tuned Workflow Models

- Built around real program constraints and decision rights

Simulation before disruption

- Time-boxed sprints, gated Government reviews, controlled change

Interoperability with compliance built-in

- API and data-standard recommendations tied to logging, security controls, and governance

Low-risk delivery model

- Time-boxed sprints, Government gate reviews, rollback-ready cutovers

Transition-ready outputs

- Runbooks, KPIs, training, and sustainment planning included cutovers

Solution Description: Services + Platform

Evolver OPTIMIZE pairs Evolver’s mission engineering, enterprise architecture/integration, cybersecurity expertise, and agile delivery with the Predictus platform to execute deep-dive, AI-powered workflow optimization. The OPTIMIZE solution delivers measurable operational improvements.

OPTIMIZE builds specialized World Models that learn:

- Workflow patterns
- Data flows
- Bottlenecks
- Decision points

These models allow agencies to:

- Simulate improvements before implementation
- Quantify tradeoffs
- Prioritize high-impact changes

End-to-End Delivery

OPTIMIZE delivers:

- Workflow discovery and KPI baselining
- Interface and data mapping
- Interoperability architecture (APIs, standards, integration patterns)
- Secure prototyping of automation and decision support
- Integration and testing
- Authorization-aligned governance and evidence package

Expected Customer Benefits



Better Modernization Decisions

Leaders receive evidence-backed baseline performance, quantified optimization roadmap, pilot-proven changes, documented assumptions and traceable inputs.



Improved Mission Outcomes

Reduced cycle time fewer manual handoffs, higher data quality, and more reliable cross-system interoperability



Reduced Risk

Disciplined data handling, enclave-aware engineering, audit-ready evidence from day one, and Lower ATO and compliance risk



OPTIMIZE Use Cases

Develop enhanced system interoperability for NIH's 27 Institutes and Centers to enable consistent data exchange and shared services that:

- Improve cross-institute research operations, grants/finance workflows, and enterprise reporting
- Maintains privacy, security, and continuity of operations

How it Works

1. Executive Scoping

- Define mission outcomes to improve
- Identify decision owners and users
- Establish constraints (privacy, performance, ATO)
- Define measurable success metrics (e.g., cycle time, handoffs, error rates, availability)

2. Current State Mapping

- Process mining (where feasible)
- Interface inventory
- Data semantics alignment
- Dependency and bottleneck analysis
- Government-approved data handling (PII/PHI/CIU/classified)

Getting Started

Risks/Dependencies

Risks include incomplete instrumentation, competing priorities, and unmanaged change impacting operations. Mitigate via a short discovery phase, a constrained pilot, transparent weekly reviews, automated baseline-to-post-change measurement, and a monitor-then-enforce rollout with rollback-ready cutovers.

Procurement

Procure OPTIMIZE as a services-led workflow optimization project, which yields a customized software workflow optimization tool for a specific use case with optional software platform licensing for scale and sustainment. AWS/Azure) to scale beyond the pilot.

3. Model & Prioritize

- Build and validate a workflow "world model"
- Simulate improvement options
- Prioritize interventions:
 - Integration changes
 - Automation
 - Policy updates
 - Staffing adjustments

4. Pilot & Transition

- Implement a constrained improvement
- Conduct security testing
- Document assumptions and limitations
- Publish runbooks and metrics
- Stand up quality monitoring
- Deliver ATO-aligned evidence package

Next Steps

- Select one high-value workflow
- Define success metrics
- Execute discovery sprint:
 - Current-state map
 - KPI baseline
 - Data/interface inventory
- Deliver pilot optimization:
 - Prototype integration or automation
 - Evaluation report
 - Transition runbooks
- Scale in phases with quarterly governance & model refresh planning

Why Evolver

Who We Are

Evolver accelerates digital transformation by combining mission engineering with AI-powered analytics and modernization platforms. We build mission-specific world models, optimize workflows, and convert legacy systems into modern digital services. This approach delivers measurable outcomes faster, with lower risk, and with authorization-ready evidence from day one.

Evolver delivers:

- **Predictive Analytics:** Mission-focused tools and use cases like fraud detection, credit scoring, and anomaly detection.
- **Workflow Optimization:** Simulation, process mining, and quantified roadmaps for improvement.
- **Legacy Modernization:** End-to-end modernization to cloud-native, SaaS, or low-code targets using a technology-agnostic logic model.
- **Interoperability & Automation:** API-driven architecture and automated discovery of code and workflows to speed up requirements and testing.
- **Secure & Ready:** Secure deployment (NIPR/SIPR), operational readiness, and built-in governance with ATO/RMF evidence.



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