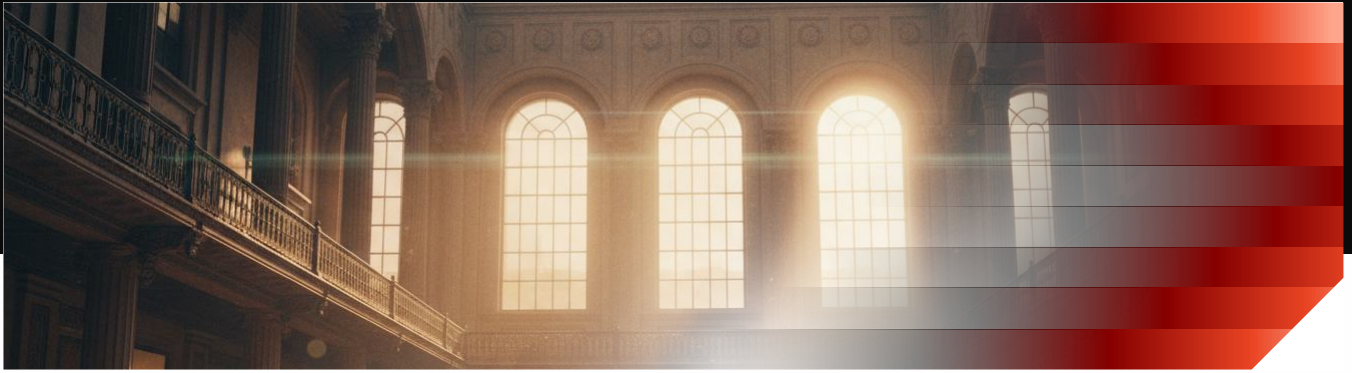




## GOVERNMENT

# Mission-critical optimization for federal agencies

Government agencies make high-stakes decisions daily. Gurobi makes sure they're the best ones.

### The piece most AI stacks are missing

Government agencies face a host of critical decisions every day—including program selection, and how to allocate funds, personnel, equipment, and time in a way that improves public benefits, all while staying within complex operational, regulatory, and budgetary constraints.

These very public decisions must not only maximize available resources, but also offer transparency and explainability—the kind that only mathematical optimization can provide.

### Stretch taxpayer dollars further

From workforce scheduling to fleet and asset utilization, logistics and supply planning, infrastructure investment prioritization, and emergency response planning, Gurobi helps government agencies stretch taxpayer dollars further, deploying resources where they deliver the greatest public benefit.

### Keep operations mission-ready, from depot to deployment

Knowing tomorrow's demand forecast with 95% accuracy does not tell you how to staff your facilities, route your fleet, or allocate your inventory across a network. The decision itself is a different problem, and it requires a different tool.

- ◆ **End-to-end logistics optimization:** Optimize transportation routing, supply chain flows, depot operations, and asset positioning across multi-node networks while explicitly accounting for capacity, readiness levels, maintenance cycles, and security requirements—reducing delays, bottlenecks, and excess inventory to improve mission readiness.
- ◆ **Understand the consequences of every trade-off:** Support contingency planning and “what-if” analysis for disruptions, surge demand, and shifting mission priorities. Understand the consequences of every trade-off and quickly re-optimize plans as conditions evolve.
- ◆ **Guide critical, real-world operations:** Solve highly complex models with millions to billions of variables and constraints, enabling decision-making that would otherwise be infeasible due to performance limits, and allowing teams to evaluate alternatives quickly enough to guide critical, real-world operations.

## Maintain compliance while maximizing efficiency

- ◆ **Complex workforce planning:** Optimize the assignment and scheduling of large, temporary, and geographically distributed workforces while accounting for labor rules, availability, skills, training requirements, overtime limits, and budget constraints in a single model.
- ◆ **Operational efficiency and cost control:** Minimize overstaffing, understaffing, and unnecessary overtime while meeting service-level and coverage requirements, improving workforce utilization during peak operations (such as census operations or emergency mobilizations).
- ◆ **Fairness, compliance, and transparency:** Embed fairness, equity, and compliance rules directly into scheduling models to ensure consistent, defensible outcomes, with clear and auditable decision rationale to support oversight and public accountability.

## Build once. Deploy anywhere. Drive lasting value.

- ◆ **Flexible deployment:** Build in the language you know and deploy across local, cloud, or cluster environments, with integration across Python, Java, C++, .NET, and analytics platforms commonly used by federal agencies and contractors.
- ◆ **Institutional decision capability:** Build reusable optimization models that capture policy, operational rules, and institutional knowledge—delivering lasting value and clear, best-possible improvements across cost, revenue, risk, and more.

## Why now?

- ◆ **Plans that adapt as quickly as conditions change:** From emergency response to supply chain volatility, plans must adapt quickly as conditions change.

- ◆ **Decisions your agency can explain and defend:** Public sector decisions must be explainable and auditable, placing renewed emphasis on defensible, data-driven approaches.
- ◆ **Do more with less—mathematically proven:** Many agencies must do more with less, maximizing the impact of constrained budgets, personnel, and infrastructure.

## Powering better public sector decisions

Ready to put optimization to work for your agency? **Gurobi offers:**

- ◆ Evaluation licenses to test your models
- ◆ Expert advisory on performance and scalability
- ◆ Training and support for teams new to optimization

## NAICS Codes

- ◆ **541511** – Custom Computer Programming Services
- ◆ **511210** – Software Publishers

## Example customers

These Gurobi customers use mathematical optimization to maximize their resources, increase efficiency, and reduce waste:

