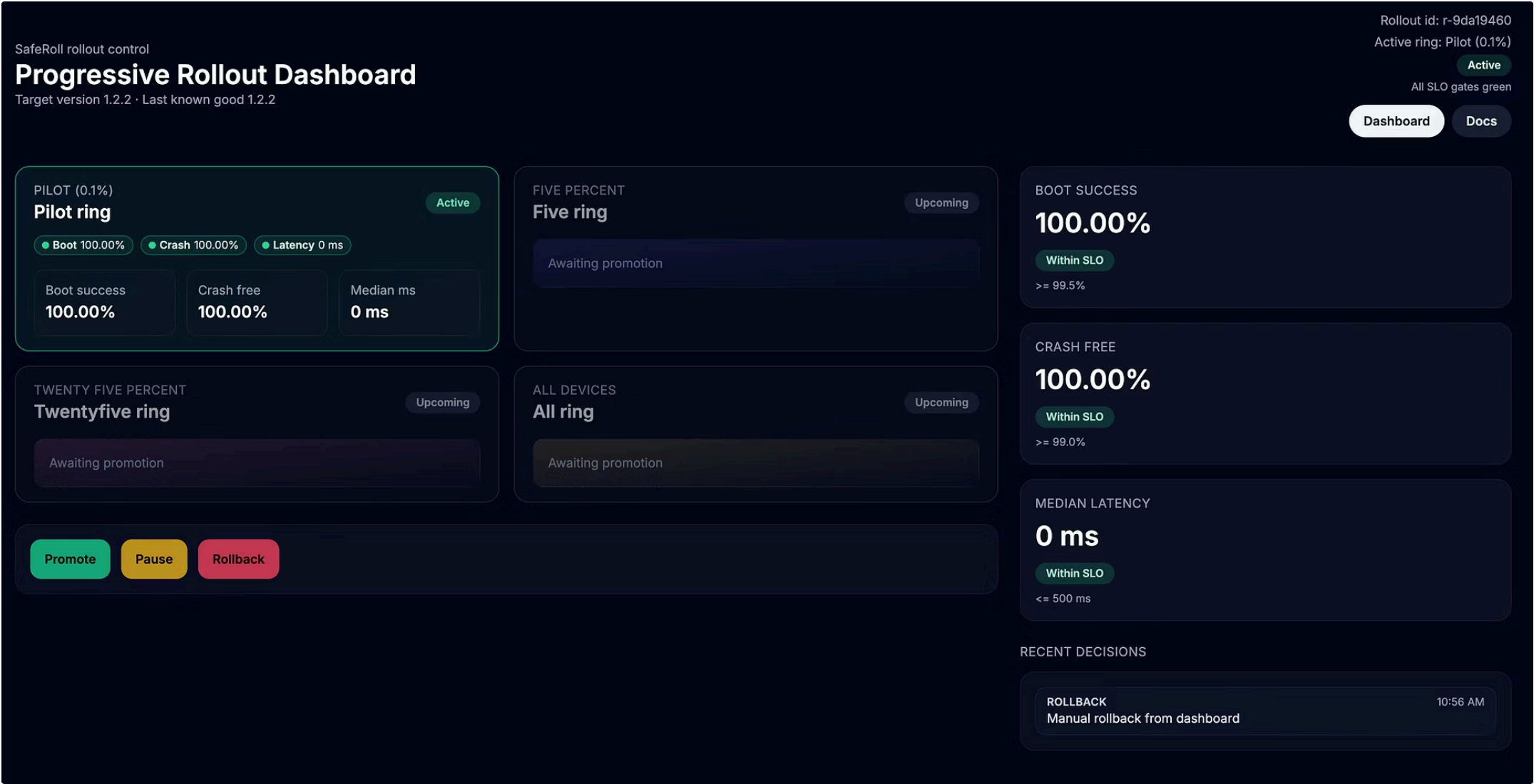


SafeRoll: Protecting 1M+ Hospital TVs from Update Disasters

Built for PDi Communication Systems



Live Demo Available

Intelligent progressive rollout orchestrator preventing catastrophic firmware update failures

One Bad Update = \$100M Disaster

Current State: All 1M+ TVs Updated at Once

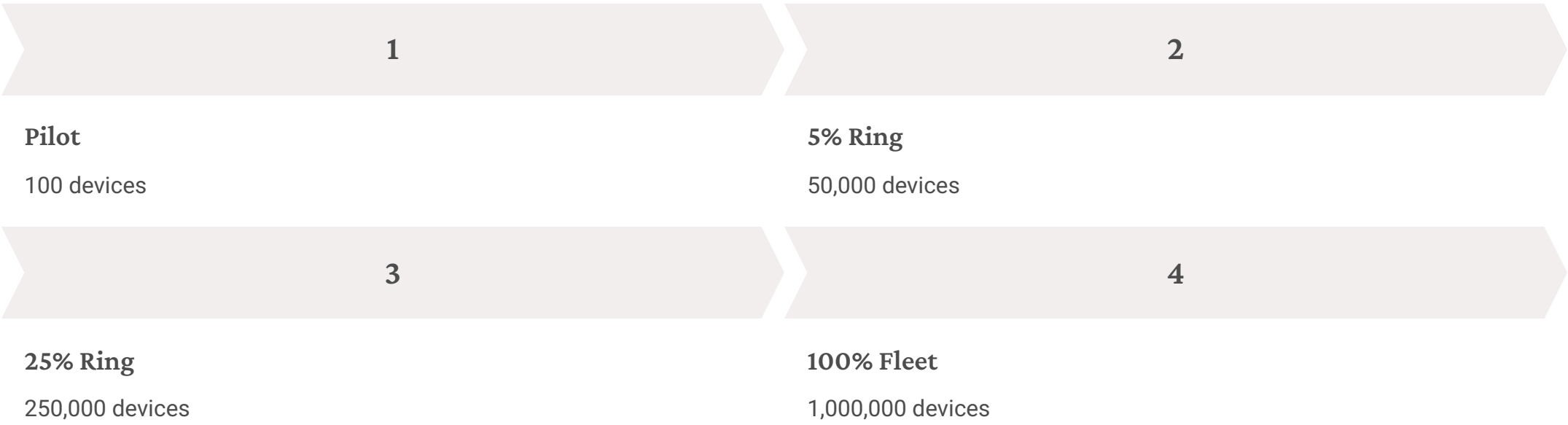
Real risk: Microsoft 2018 - bricked millions of devices

PDi's Specific Pain:

- \$50-100M potential loss
- ICU/ER TV failures = patient safety risk
- 24-72 hour recovery time



SafeRoll Solution & Architecture



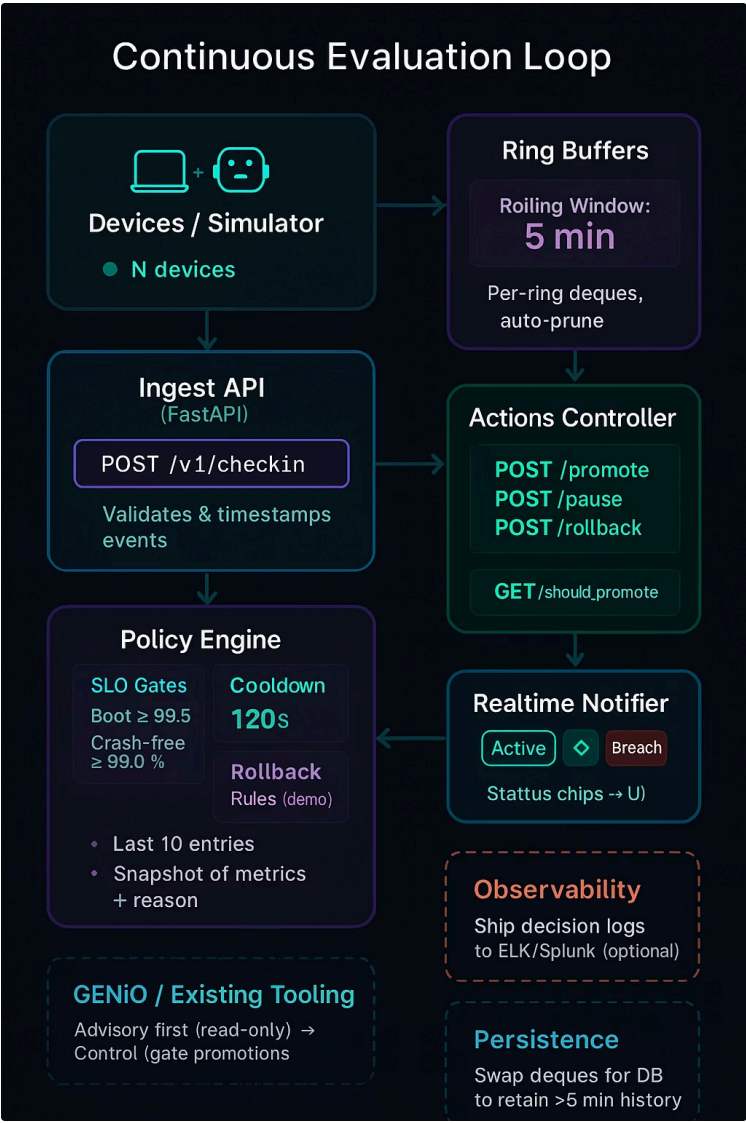
Tech Stack

FastAPI + React + WebSocket

Handles 2,000+ checks/second

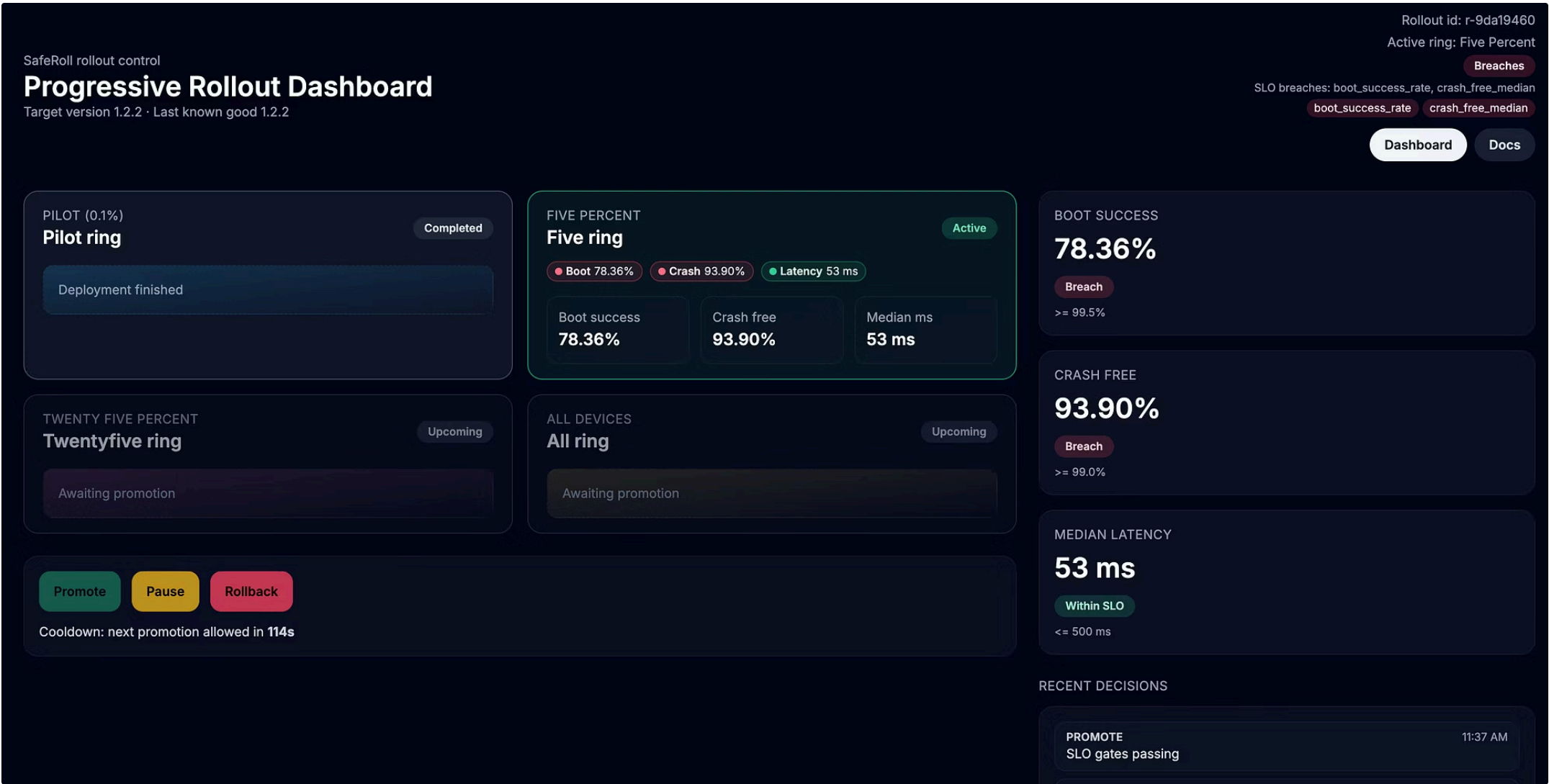
Automatic SLO Gates:

- Boot Success <95% = Auto-rollback
- Crash-free <95% = Auto-rollback
- Latency >500ms = Warning



Integrates WITH GENiO, doesn't replace it

Live Dashboard Screenshot

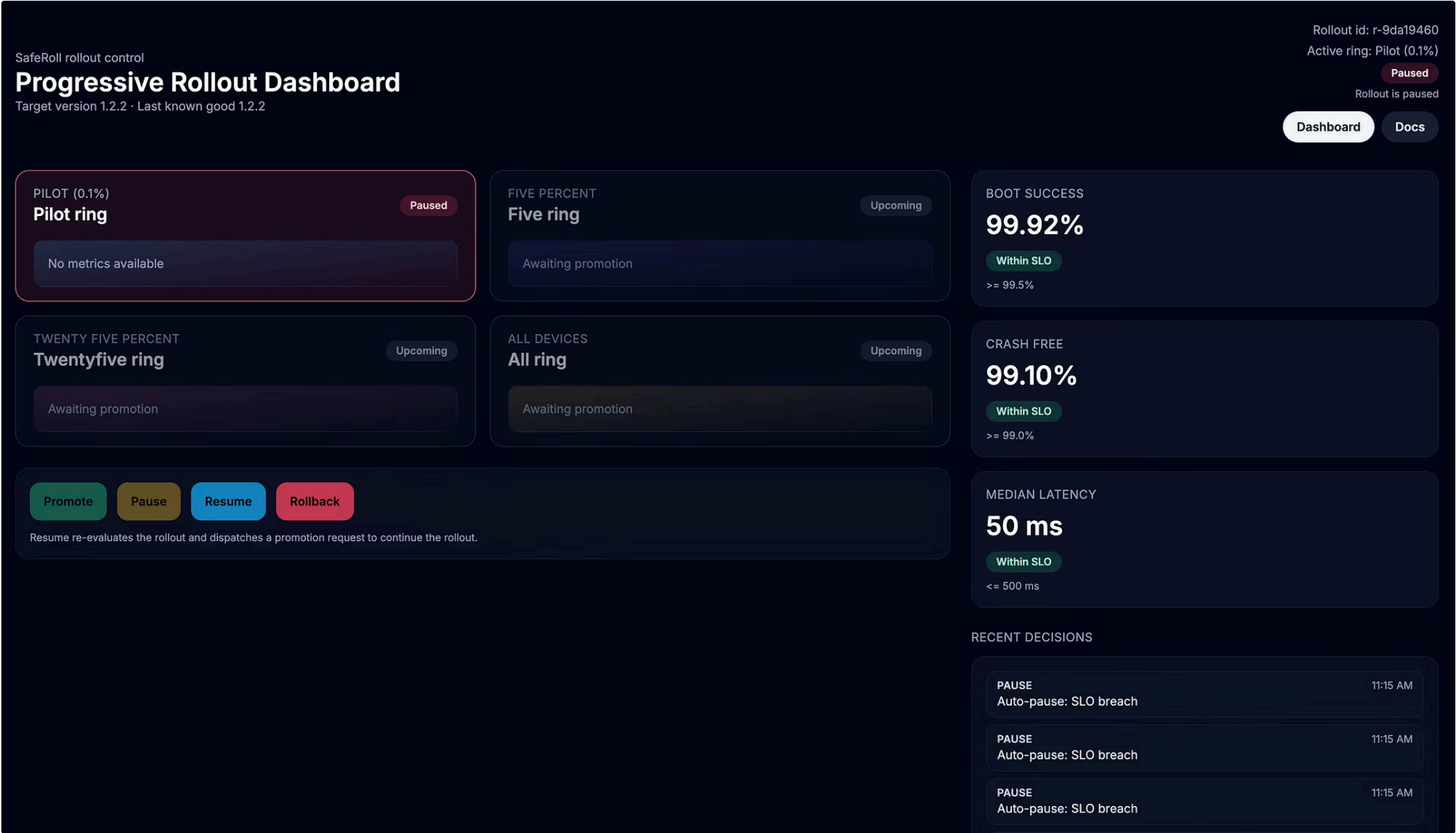
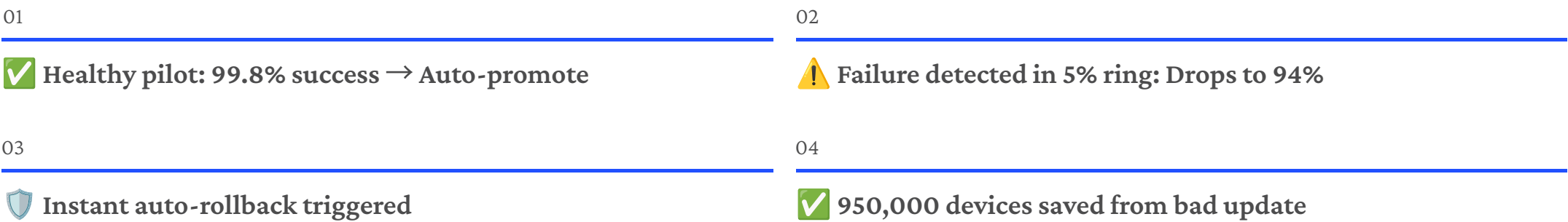


Real-time monitoring across 1,000 simulated devices

Real-time Health Metrics Color-coded status monitoring	Ring Progression Status Current deployment phase tracking
Event Timeline Auto-rollback event history	Manual Controls Promote/Pause/Rollback buttons

Demo - Disaster Prevention in Action

Visual flow of actual demo:



10-second detection, 2-minute recovery

Business Impact

For PDi:

99%

Reduction in Update Incidents

90%

Faster Deployments

\$50M+

Saved Per Prevented Incident

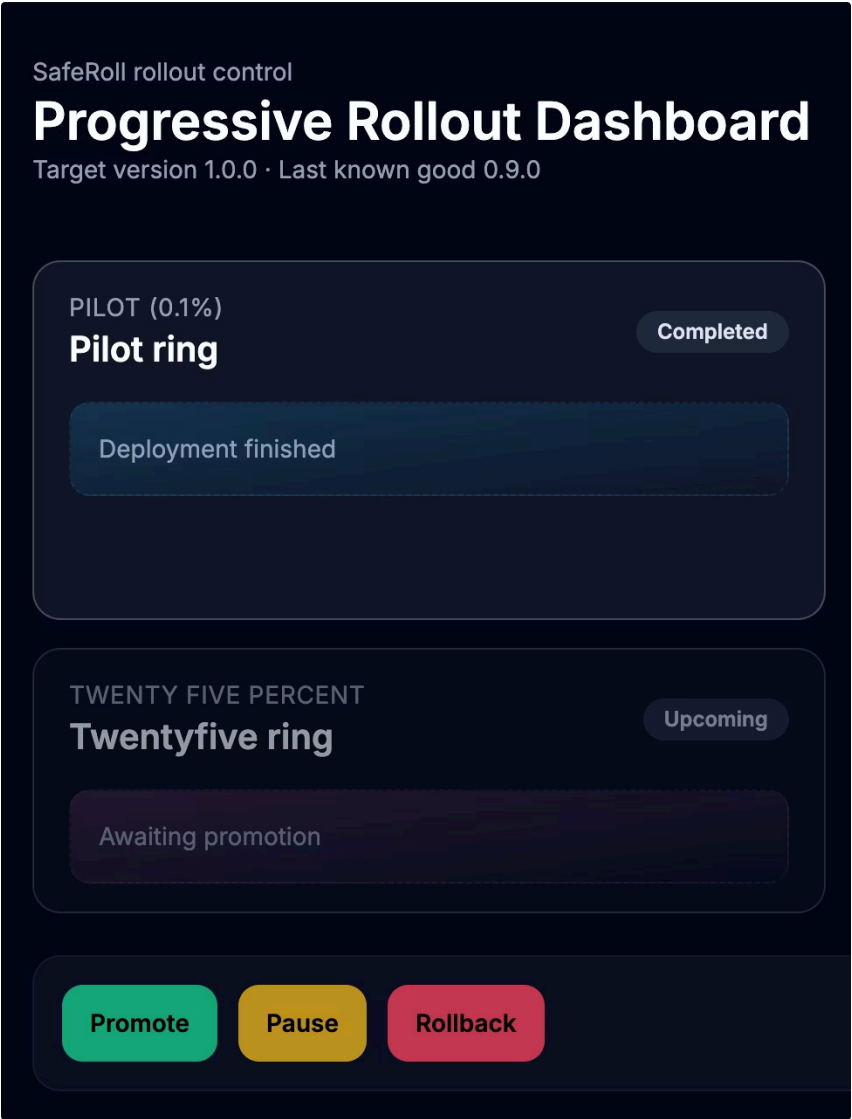
Ensures ICU/ER TV reliability

Implementation:

2-week integration with GENiO

Zero infrastructure changes

Start in advisory mode, then activate



Why I Built This **for PDi**

Built specifically for PDi Communication Systems



Shows Technical Expertise

Modern stack, scalable architecture



Understands Healthcare

Patient safety, ICU criticality



Proves Capability

Working demo with 1,000 devices



PDi-Specific

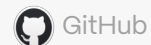
Integrates with GENiO, respects your workflow

GitHub Repository

sharathodepalli/
saferoll




1 Contributor 0 Issues 0 Stars 0 Forks



GitHub – sharathodepalli/saferoll

Contribute to sharathodepalli/saferoll development by creating an account on...

Live Demo URL

 frontend-iota-eight-60.vercel.app



SafeRoll Dashboard

[Video Demo](#)

Built in 5 days

Prototype

Let's Protect PDi's Fleet Together

Ready to eliminate deployment risk?

Proposed Pilot:

- **Duration:** 2 weeks
- **Scope:** 5% of fleet

Success Metrics:

- Zero incidents
- <15min MTTR

Contact Info and Links:

- Live Demo: [click hereh](#)
- GitHub: [hhttps://github.com/sharathodepalli](https://github.com/sharathodepalli)
- Email: Sharathodepalli@gmail.com



Scan for live demo

From \$100M risk to 100% confidence