AI
RFI Management
Dashboard

Key metrics

60%

Time saved per RFI
→ Manual admin reduced
through AI intake and auto-
routing.

94%

SLA compliance achieved
→ Automated alerts and
tracking ensured deadlines
weren't missed.

These metrics show the
measurable impact of the RFI
Management Dashboard. By
cutting admin time, boosting
compliance, and improving
reporting speed, project
teams saved hours each week
and reduced costly delays.

2x

Faster project reporting
→ Real-time dashboards
gave managers immediate
visibility.

2m

Deployment timeline
→ From prototype to
working solution delivered in
under 2 months.

Arbieter

Design

The dashboard design focused on clarity and speed of use for construction teams.
We built a clean layout with real-time metrics at the top, interactive filters on the left, and a sortable RFI table at the center.

Key improvements included:
- Accessible UI: WCAG AA compliance for navigation and color contrast.
- Consistency: Unified design system for desktop, tablet, and mobile.
- Focus on usability: Quick filters, sortable columns, and visual cues for deadlines and SLA compliance.
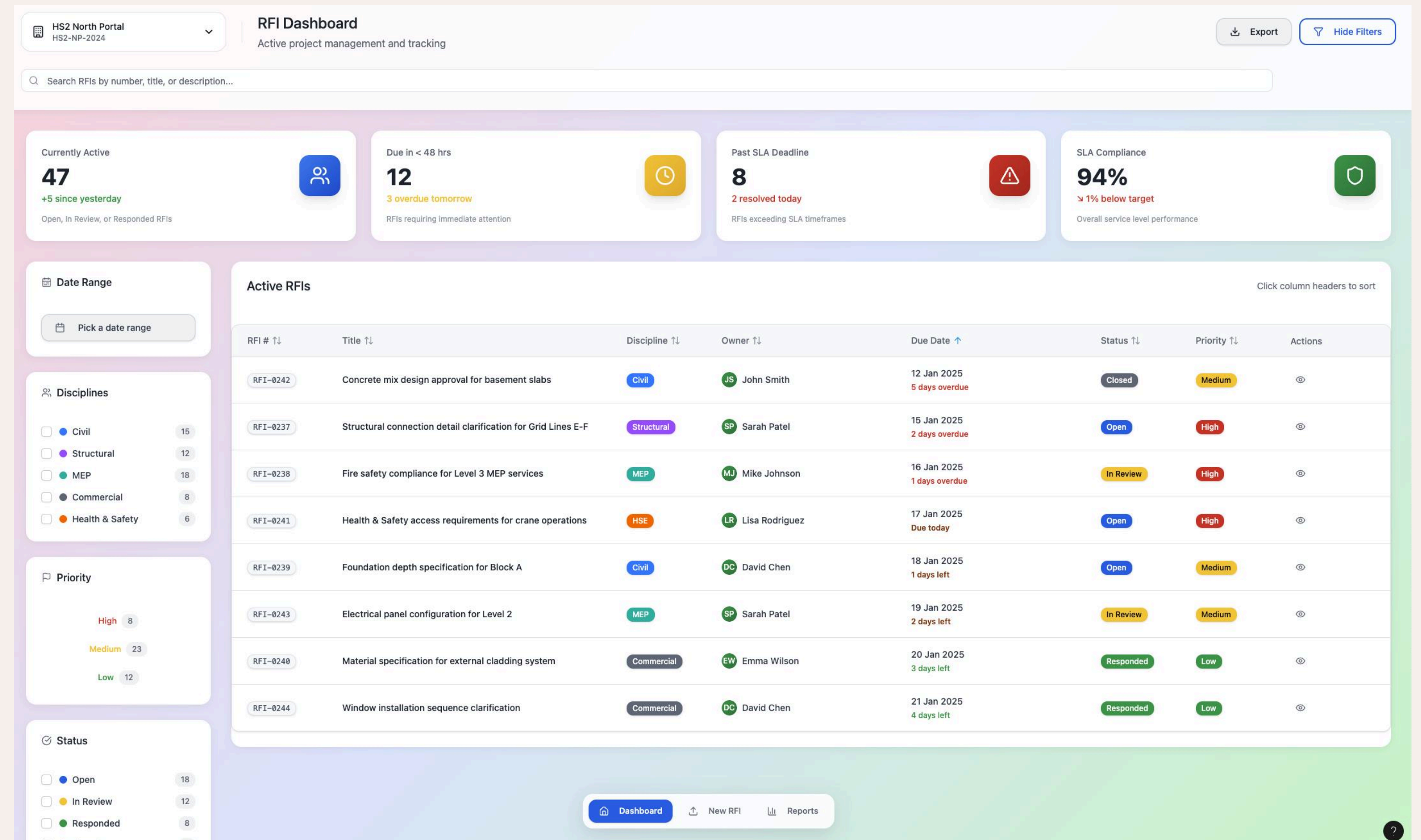
Design

This screen shows how the system streamlines individual RFI management. Instead of manual drafting, the platform generates a suggested AI response based on project documents and specifications, which can be reviewed and approved in seconds.
On the left, project managers can quickly see RFI details, deadlines, and attachments, ensuring no missing context.

The AI response is paired with confidence scores and context references, making it transparent and verifiable for engineers and clients.
To reduce risk, the system highlights assumptions and missing information, prompting follow-ups before approval.
This balances automation with human oversight, cutting admin time while keeping technical accuracy intact.

RFI-0242 — Concrete mix design approval for basement slabs
Request for Information Details

Approve & Send   Request Changes

RFI Details

RFI Number
RFI-0242

Project
HS2 North Portal

Civil   Medium Priority

Issued Date
10/01/2025

Due Date
2025-01-12

Days Left
5 days overdue

Originator

JS   John Smith
Balfour Beatty
john.smith@balfourbeatty.com

Attachments

RFI_237_details.pdf

A-402_floor_plan.dwg

View All Attachments

View in CDE

AI-Generated Response
Review and edit the suggested response before approval

Thank you for your RFI regarding the firestopping detail conflict between Drawing A-402 and Specification 07 84 00.

Based on our review of the referenced documents and current project requirements:

Resolution:
The firestopping detail shown in Drawing A-402, Detail 3/A-402 shall take precedence, with the following modifications:

1. All penetrations through the fire-rated wall assembly shall use UL-listed firestopping systems as specified in Section 07 84 00, clause 4.2.

2. The firestopping methodology shall follow the manufacturer's tested assembly configurations, maintaining the 2-hour fire rating of the wall system.

3. Coordinate with the MEP contractor to ensure all services are installed and tested before firestopping installation.

Next Steps:
- Submit shop drawings for the proposed firestopping system for approval
- Schedule pre-installation meeting with fire safety consultant
- Provide test certificates for all firestopping materials prior to installation

Please confirm receipt and advise if any clarification is required.

● Response generated with 94% confidence   Regenerate   Edit Format

Context References

Specification 07 84 00 - Section 4.2   95% match

Drawing A-402 - Detail 3/A-402   88% match

Fire Safety Strategy - Section 3.1.2   82% match

⚠ Assumptions & Missing Information

1. Fire rating requirement assumed to be 2-hour based on building type

2. Awaiting confirmation of specific firestopping product from specialist contractor

3. MEP coordination meeting scheduled for 16/01/2025

Design

RFI intake screen supports both document upload (PDF, DOCX, XLSX, images) and guided form entry.

Uploaded files are processed using:
- AI text extraction (Python, scikit-learn, OCR) to capture scope, dates, and requirements.
- React + TypeScript frontend for a clean, responsive interface.
- PostgreSQL backend to store structured RFI data.

This ensures every RFI enters the system in a standardised format, ready for automated routing and reporting.

Design

The Reports & Analytics dashboard transforms raw RFI data into actionable insights:

- D3.js + React power the interactive charts for real-time performance tracking.
- PostgreSQL stores historical RFI trends for SLA compliance and response times.
- AI-driven anomaly detection (Python + scikit-learn) highlights bottlenecks and risks before they escalate.

This enables project teams to track SLA compliance, response time, and workload distribution with precision, driving continuous improvement.
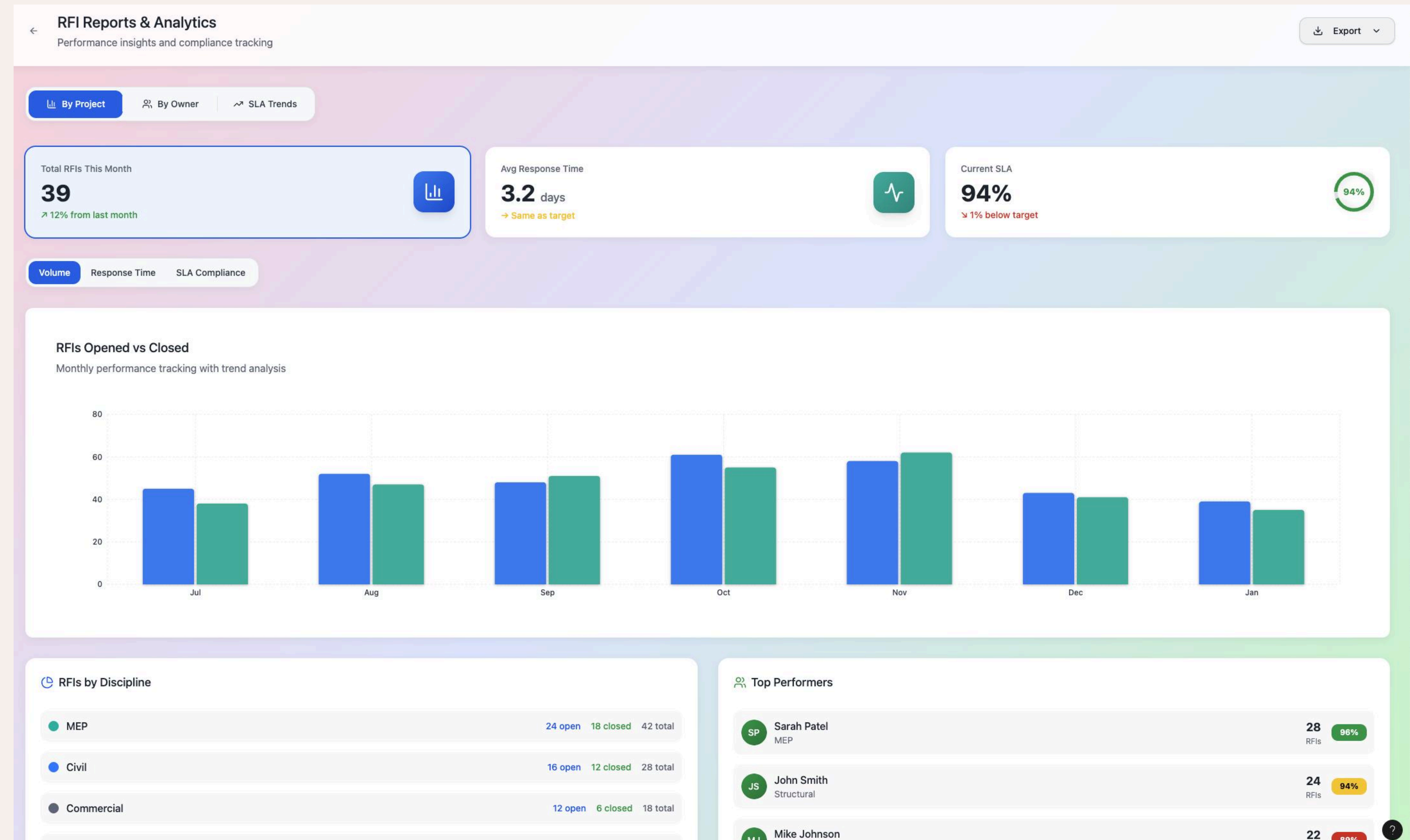
6 Insights or Principles You Need to Know

01 AI SAVES TIME
Automating intake and response reduced admin work per RFI by over 60%.

02 SLA VISIBILITY
Tracking deadlines in real time ensures nothing slips and compliance is transparent.

03 MOBILE-FIRST DESIGN
Tablet and phone layouts keep field teams connected, not just office staff.

04 DATA DRIVES ACTION
Analytics aren't just for reports they highlight risks early so teams can act fast.

05 SEAMLESS INTEGRATIONS
Connecting with existing project systems meant instant adoption and less training.

06 SMALL UX SCALE BIG
Simple hover states, filters, and clear layouts made adoption natural across teams.

FIRST, WE'LL DIGITISE RFI WORKFLOWS

We replaced manual email chains and spreadsheets with a centralized AI-powered dashboard, making intake and tracking fully digital.

THEN, WE'LL ADD REAL-TIME COMPLIANCE TRACKING

Service Level Agreement (SLA) deadlines are now monitored automatically, with alerts and analytics that highlight overdue items before they become risks.

FINALLY, WE'LL DRIVE DECISIONS WITH DATA

Visual reporting and predictive analytics empower teams to make faster, evidence-based decisions reducing delays and boosting project performance.