# Phase 1 Sprint Plan – Platform-Agnostic (Updated)

Timeline: ~12 weeks (6 sprints @ 2 weeks each)

Goal: Deliver a functional MVP for the Central Region covering intake, scheduling, approvals, mapping, and integration with NWS Connect.

## Sprint 0 – Pre-Work (Week 0)

* Finalize high-level technical architecture & AoA decision.
* Stand up GovCloud environments: Dev, Test, and Staging.
* Establish IAM/SSO, RBAC roles, and baseline networking.
* Confirm API credentials for integrations (Google Workspace, NWS Connect, mapping, National Operational Readiness Dashboard).
* Provision CI/CD pipelines, IaC templates, and monitoring hooks.
* Approval: Architecture & environment readiness.

## Sprint 1 – Data Ingestion & Normalization

* Build connectors to pull base schedules and constraints from Google Sheets, CSVs, APIs.
* Apply deterministic validation (required fields, legal codes, PMEF tags).
* Implement normalization logic; store in RFC Central Registry.
* Add LLM-assisted mapping for non-standard headers/codes.
* Internal test with sample WFO schedules; measure ingestion latency.
* Approval: Internal QA + client review of sample ingestion results.

## Sprint 2 – Scheduling & Compliance Engine

* Create schema for schedules, requests, offices, resources, events.
* Implement rules engine for gap detection and constraint checks.
* Build UI for visualizing schedules (calendar/Gantt, constraint overlays).
* Integrate LLM explanations for gap causes and compliance violations.
* Prepare agentic “what-if” scenario assist (read-only in MVP).
* Approval: Client review of schedule visualization and compliance checks.

## Sprint 3 – Mutual Aid Drafting & Scenario Planning

* Enable creation of alternative schedules from base schedules.
* Add scenario types: transfer services between offices, SME support for events.
* Store draft plans with link to base schedules/constraints in registry.
* Include agentic workflow for assembling draft scenarios and routing for approval.
* Approval: Client review of scenario generation workflow.

## Sprint 4 – Map Integration & NWS Connect Publishing

* Integrate map interface for visualizing coverage, requests, office locations.
* Implement NWS Connect publishing for schedule and status data.
* Add validation checks before publish; retry/failure notifications.
* Enable comparison layers: baseline vs. alternatives.
* Approval: Client review of map accuracy, integration, and publish workflow.

## Sprint 5 – Approvals & Workflow

* Implement role-based approval workflow for plans and audibles.
* Add audit trail for all changes/approvals in registry.
* Real-time status view of active schedules, pending requests, and approvals.
* Configure agentic reminders for pending approvals (no auto-approve).
* Approval: Stakeholder sign-off on approval process.

## Sprint 6 – UAT & Go-Live

* Conduct UAT with selected WFOs/SC/RC stakeholders.
* Include performance tests (map load <3s, schedule compare <5s), security tests, and accessibility tests.
* Apply bug fixes, UI/UX polish.
* Deliver training materials and run change management sessions.
* Go-live deployment with post-launch monitoring.
* Approval: Final production sign-off.

## Versioning

Internal builds: v0.x for incremental internal milestones.

Client builds: v1.x for MVP-ready releases.