# Dependencies & Risks

## Dependencies

**External:** - Supabase Cloud availability - Vercel deployment platform - OpenAI API (Phase 3, AI features)

**Internal:** - City of Carrollton IT approval for cloud hosting - User acceptance testing with Department Directors - Training and change management

**Data:** - Migration of existing strategic plan data (if applicable) - Department, user, and fiscal year data setup

## Risks

**Risk 1: User Adoption** - **Description:** Departments continue using Word docs instead of system - **Likelihood:** Medium - **Impact:** High - **Mitigation:** - Engage Department Directors early in design process - Provide training and support during rollout - Make system easier to use than Word (auto-save, templates, validation) - Executive mandate from City Manager

**Risk 2: Data Quality** - **Description:** Departments enter incomplete or inaccurate data - **Likelihood:** Medium - **Impact:** Medium - **Mitigation:** - Required field validation - Finance review and approval workflow - Data quality reports (% complete) - In-app guidance and tooltips

**Risk 3: Performance Issues** - **Description:** Dashboard queries too slow with many initiatives - **Likelihood:** Low - **Impact:** Medium - **Mitigation:** - Optimize database queries (indexes, aggregations) - Implement caching for dashboards - Load testing with realistic data volumes

**Risk 4: Scope Creep** - **Description:** Stakeholders request additional features mid-development - **Likelihood:** High - **Impact:** Medium - **Mitigation:** - Clear MVP definition and prioritization - Change request process with impact analysis - Regular stakeholder communication - Product Owner (Sarah) enforces scope

**Risk 5: Database Migration Complexity** - **Description:** Existing strategic plan data difficult to migrate - **Likelihood:** Low - **Impact:** Low - **Mitigation:** - Start fresh with new planning cycle (FY2026-2028) - Option: Manual data entry from previous plans - Option: Import tool for structured data (future enhancement)