Test Report - Roadmap Visual v1.0.0.1

Date: 18 January 2026 | Testers: Claude (Anthropic), Gemini (Google)

Summary: PASS WITH RECOMMENDATIONS

Category	Status
Security	PASS
Temporal Logic	PASS
Performance (<1K items)	PASS
Power BI Certification	PASS
Accessibility	NEEDS WORK

Issues Found

Critical

1. Memory leak in destroy() - Window event listeners (mousemove.dragpan, mouseup.dragpan) not removed

Moderate

1. No high contrast mode - Missing colorPalette.isHighContrast support
2. DST edge case - daysBetween() may drift 1 day during Australian DST transitions

Security: PASS

- XSS prevention: All 5 HTML entities escaped in sanitizeString()
- URL whitelist: Only http://, https://, data:image/ allowed
- No innerHTML, no eval, no external calls

Temporal Logic: PASS

Test	Result
Leap year transitions	PASS
ISO Week 53 handling	PASS
DST awareness	AWARE (minor edge case)

Power BI Certification: PASS

All required features implemented:

- Rendering Events API (lines 177, 222, 226)
- Selection Manager with multi-select
- Context menu support
- destroy() method
- No special privileges

Recommendations

Priority	Action

HIGH	Fix destroy() - add d3.select(window).on("mousemove.dragpan", null).on("mouseup.dra...
HIGH	Add high contrast mode support
MEDIUM	Use UTC normalization in daysBetween() for DST safety
LOW	Virtual scrolling for datasets >1,000 items

Test Environment

Node.js 18+ | TypeScript 5.3.3 | Power BI API 5.8.0 | D3.js 7.8.5