

The background of the slide features a complex network diagram. It consists of numerous circular nodes of varying sizes, some solid and some with concentric circles, connected by thin lines. The nodes are colored in shades of blue, purple, and teal. A large, semi-transparent blue circle is centered behind the main title.

ARCLIGHT

AI Dependency Intelligence & Resilience Platform

"Know your dependencies before they become your failures."

Dependency Mapping

Sovereignty Score

Shock Simulation

Resilience Planning

Executive Summary

A strategic overview of the Arclight platform and its mission.

"AI is becoming critical infrastructure — yet organizations have almost no visibility into AI dependency risks."

— Arclight Platform Vision, 2025



What is Arclight?

Arclight is an AI Dependency Intelligence & Resilience Platform that enables organizations to map their AI ecosystems, quantify sovereignty risks, simulate real-world disruptions, and build proactive resilience strategies. As AI transitions from an experimental tool to critical business infrastructure, the need for dependency intelligence becomes paramount.

The Core Problem

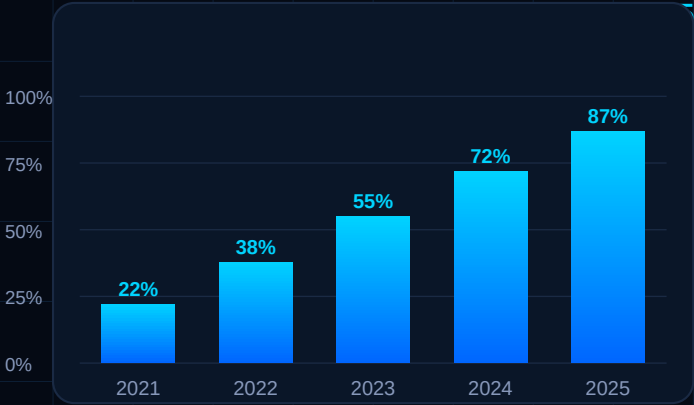
Modern enterprises have invested heavily in cybersecurity dashboards and cloud monitoring, yet there exists a critical blind spot: AI dependency risk. Organizations cannot identify which workflows depend on which AI providers, nor can they simulate what happens when those providers face outages, regulatory restrictions, or cost surges.

The Arclight Solution

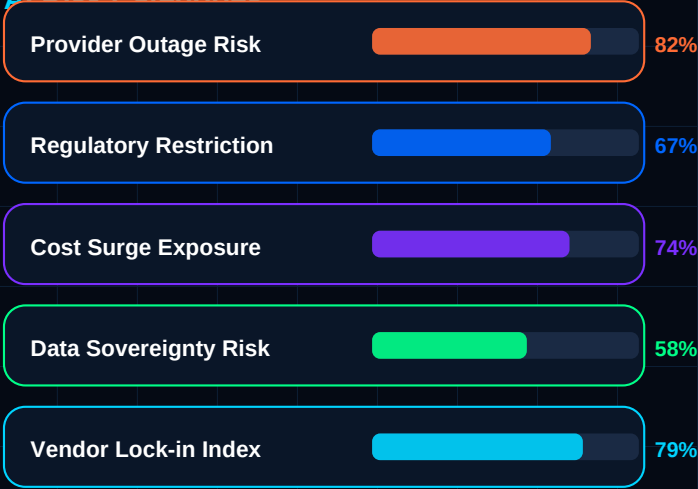
By combining graph-based dependency mapping, sovereignty scoring, shock simulation engines, and AI-powered resilience recommendations, Arclight provides the world's first comprehensive AI dependency intelligence layer — turning invisible risks into actionable resilience plans.

Why This Matters Now

AI adoption is accelerating — and so is the risk of invisible dependencies.



AI Risk Categories



The convergence of AI adoption and digital transformation has created an unprecedented dependency landscape. Organizations integrate AI into customer-facing products, internal tooling, data pipelines, and decision systems without mapping or measuring the risks those integrations carry. Arclight fills this gap.

Problem Statement

AI adoption is outpacing AI risk visibility at a dangerous rate.

REAL-WORLD SCENARIO — OPENAI OUTAGE, NOV 2023

WORKFLOW	AI DEPENDENCY	STATUS
Customer Support	OpenAI GPT-4	[X] FAILED
Internal Search	OpenAI Embeddings	[X] FAILED
Knowledge System	OpenAI GPT-3.5	[X] FAILED
Code Assistant	OpenAI Codex	[X] FAILED

Result: 4+ critical workflows simultaneously disrupted. Zero fallback. 4.5-hour business impact.

What Organizations HAVE

- ✓ Cybersecurity Dashboards
- ✓ Cloud Monitoring Tools
- ✓ SLA Agreements
- ✓ Incident Response Plans
- ✓ Network Topology Maps
- ✓ Infrastructure Alerts

What Organizations LACK

- ✗ AI Dependency Maps
- ✗ Sovereignty Risk Scores
- ✗ AI Outage Simulations
- ✗ Provider Fallback Plans
- ✗ AI Supply Chain Visibility
- ✗ Resilience Benchmarks

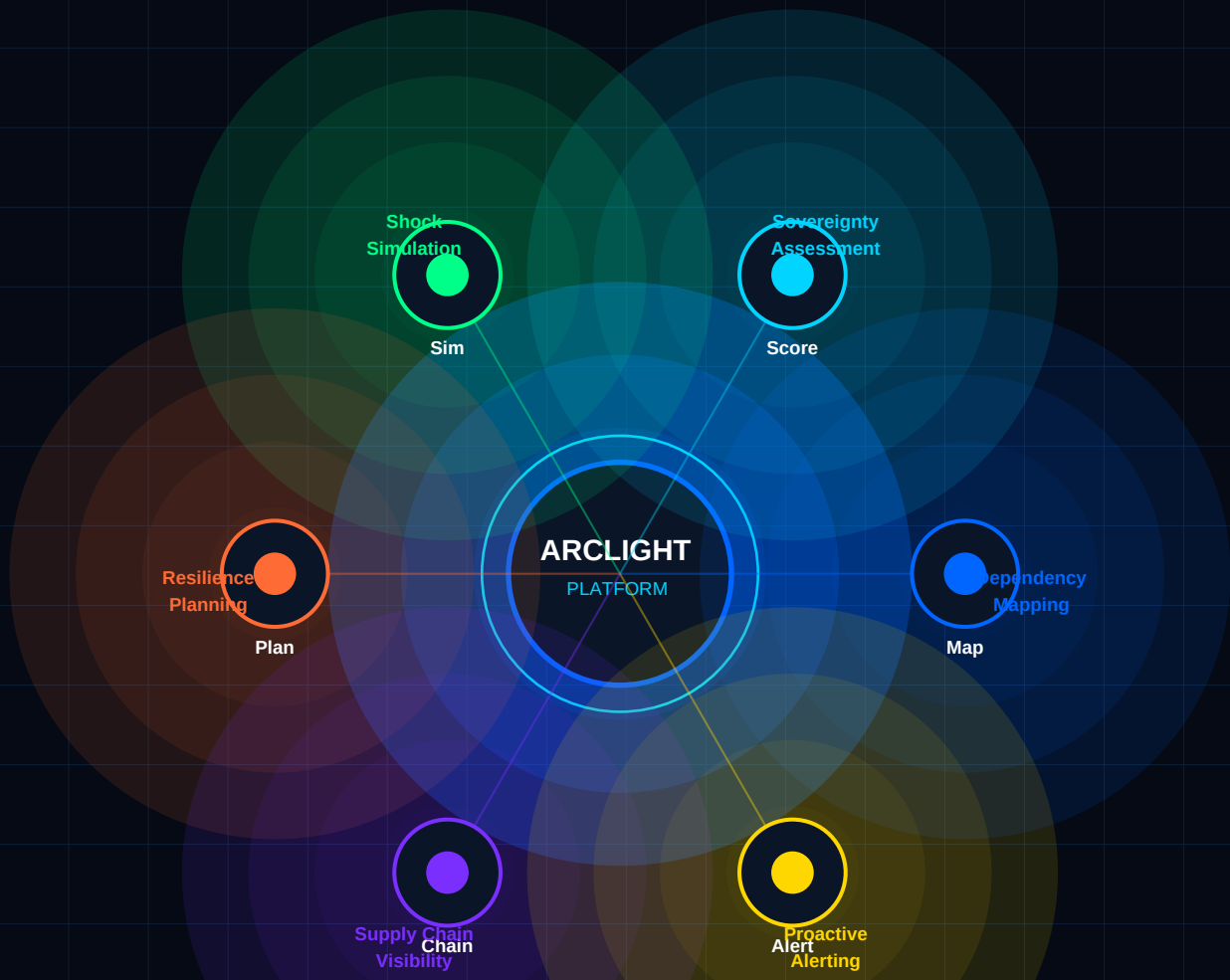
What Arclight PROVIDES

- + Live Dependency Graph
- + AI Sovereignty Index
- + Shock Simulation Engine
- + Resilience Playbooks
- + Ecosystem Risk Heatmaps
- + Proactive Alerting

The critical gap is not about technology capability — it is about visibility. Organizations have invested billions in monitoring their IT and cloud infrastructure, but AI systems operate as black boxes within their ecosystems. Without Arclight, organizations are flying blind in an AI-dependent world.

Introducing Arclight

The world's first AI Dependency Intelligence & Resilience Platform.



01

Dependency Mapping

Visual graph of all AI models, cloud providers, APIs, databases, and internal workflows with real-time status.

02

Sovereignty Assessment

Quantified AI Sovereignty Score with risk tiers, concentration analysis, and regulatory compliance flags.

03

Shock Simulation

Simulate provider outages, cloud failures, regulatory changes, and cost surges with cascading impact analysis.

04

Resilience Planning

AI-generated backup strategies, mitigation actions, and projected resilience improvement scores.

Dependency Mapping

Real-time graph visualization of your entire AI ecosystem.



12 Connected AI Providers

34 Mapped Workflows

3 Critical Failure Points

87% Dependency Coverage

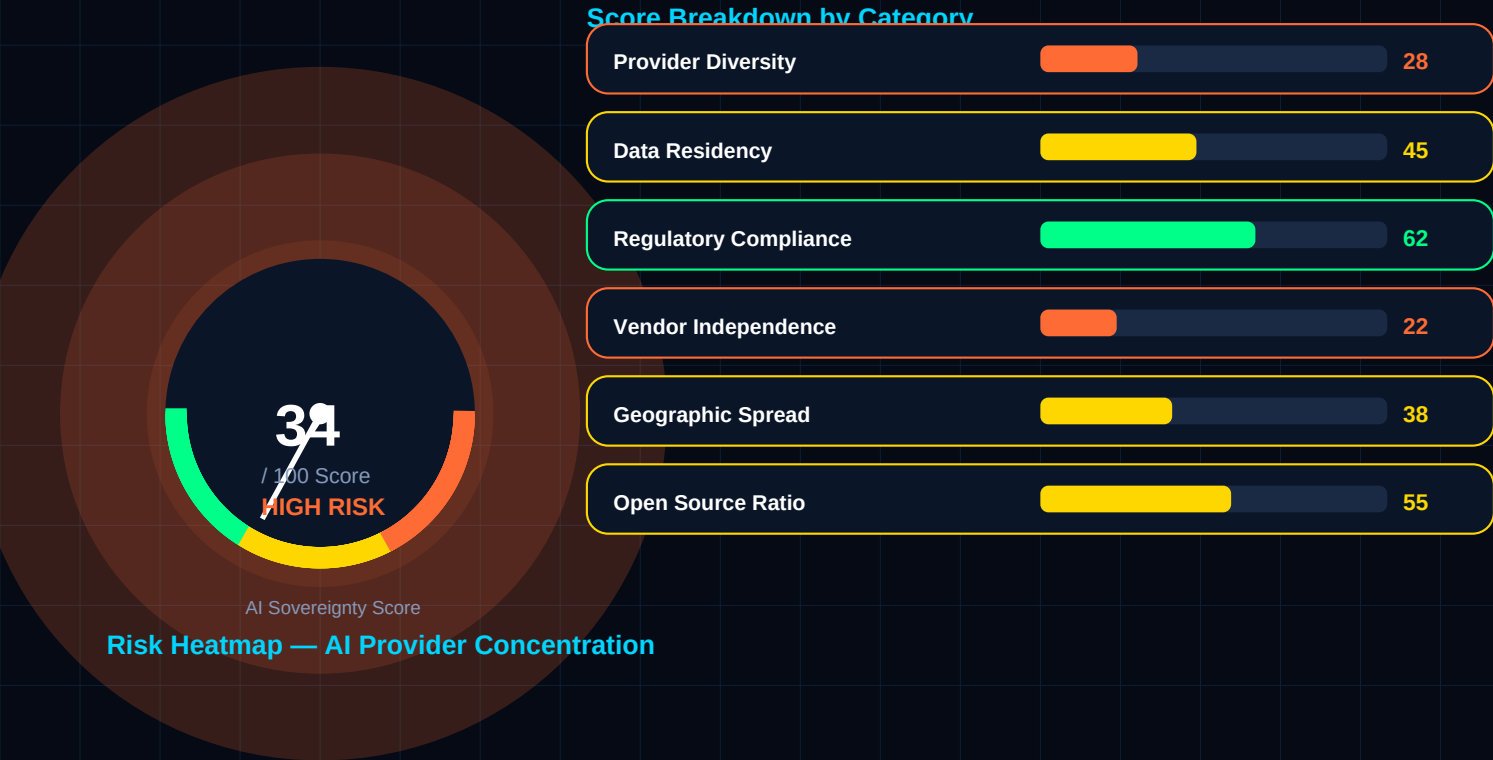
2 Single Points of Failure

Provider Dependency Analysis			
Provider	Workflows	Risk Level	Fallback
OpenAI GPT-4	8	CRITICAL	None
AWS EC2	12	HIGH	Azure
Gemini Pro	4	MEDIUM	Claude
Claude API	3	MEDIUM	GPT-4
Azure OpenAI	5	HIGH	Partial

Arclight's dependency mapping engine continuously crawls API endpoints, cloud configurations, and workflow definitions to maintain a live graph of every AI dependency within your organization. Each node represents a service; edges represent data flows and API call chains.

Sovereignty Assessment

Quantifying AI independence, concentration risk, and regulatory exposure.



Risk Heatmap — AI Provider Concentration

	Availability	Cost	Compliance	Performance	Lock-in
OpenAI	90%	60%	45%	80%	95%
Google	40%	50%	70%	55%	50%
Amazon	55%	45%	60%	70%	65%
Microsoft	50%	55%	75%	60%	60%
Anthropic	30%	40%	80%	50%	35%

The AI Sovereignty Score provides a single, board-ready metric for your organization's degree of AI independence. Scores below 40 indicate critical concentration risk, scores 40–70 indicate moderate risk with improvement actions recommended, and scores above 70 reflect healthy AI ecosystem diversity.

Shock Simulation Engine

Simulate real-world disruptions and measure cascading impact before they happen.

OpenAI Outage

AWS Region Fail
HIGH

Regulatory Ban
HIGH

Cost Surge 10x
MEDIUM

SIMULATED: OpenAI Full Outage

OpenAI API Unavailable

Customer Support AI

Internal Search

Knowledge System

3rd-party Integrations

Analytics Pipeline

User-Facing Products

Affected Workflows
8 of 12

Revenue at Risk
\$240K/hr

Recovery Time (Est)
4.5 hours

Users Impacted
~18,000

With Arclight Plan
47 min

Recovery Timeline: Without vs With Arclight



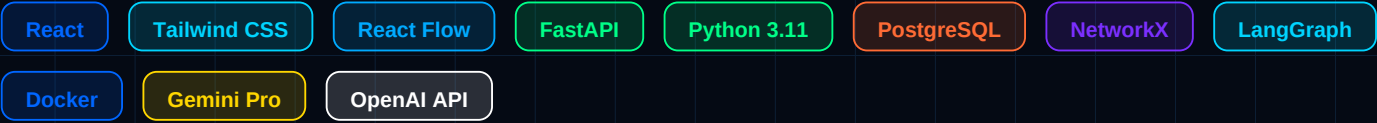
The Shock Simulation Engine models cascading failure scenarios using your actual dependency graph. Each simulation produces a detailed impact report including affected workflows, estimated revenue exposure, recovery timeline, and AI-generated mitigation playbooks.

System Architecture

A modern, scalable, cloud-native platform built for enterprise AI ecosystems.



Technology Stack



Arclight's architecture is designed for scalability, security, and real-time performance. The graph intelligence layer processes thousands of dependency relationships using NetworkX, while the AI layer leverages LangGraph for autonomous resilience recommendation agents. All components are containerized and deployable on-premise or in private cloud.

Competitive Analysis

Arclight occupies a unique, uncontested position in the AI governance landscape.

"Most tools ask: What risks exist? Arclight asks: What happens when those risks become reality?"

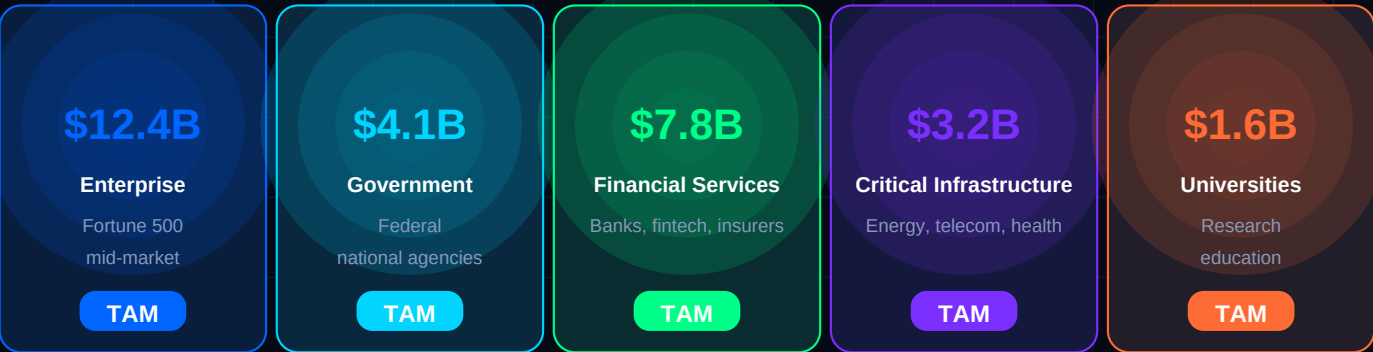
Arclight	Vendor A (GRC Tools)	Vendor B (Cloud Mon.)	Vendor C (AI Govern.)	Vendor D (Risk Mgmt.)
AI Dependency Mapping✓	✗	✓	✗	✗
Sovereignty Risk Score✓	✗	✗	✓	✗
Shock Simulation ✓	✗	✗	✗	✗
Resilience Playbooks✓	✓	✗	✗	✓
Supply Chain Visibility✓	✗	✗	✗	✗
Graph Visualization✓	✗	✓	✗	✗
Proactive AI Alerting✓	✗	✓	✗	✗
Regulatory Impact Sim✓	✓	✗	✓	✓

Key Differentiators

First-mover The only platform dedicated exclusively to AI Dependency Intelligence.	Proactive Simulates impact BEFORE disruptions occur — not reactive post-mortems.	Graph-Native Built on graph intelligence, not bolt-on risk checklists.	AI-Powered Plans LangGraph agents generate context-aware resilience playbooks automatically.
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Market Opportunity & Future Roadmap

A high-growth market with a clear, defensible position.



Revenue Model



Product Roadmap



ARCLIGHT

AI Dependency Intelligence & Resilience Platform

- Understand your complete AI dependency ecosystem
- Quantify sovereignty and concentration risks
- Simulate disruptions before they strike
- Build resilience with AI-powered playbooks
- Reduce single points of failure proactively

Thank You

"Know your dependencies before they become your failures."

Let's See Arclight in Action

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[2025 Whitepaper](#)