



INFRAHUB

Unified data management for
infrastructure automation and AI

The screenshot displays the InfraHub web application. The top navigation bar includes the InfraHub logo, a search bar, and a breadcrumb trail showing 'main' and 'Device'. The left sidebar contains a menu with categories like Organization, Location, Device Management, Circuit Management, Network Configuration, Routing & Peering, Services, IPAM, and Other. The main content area shows a 'Device' page with a table of network devices. The table has columns for Device, Site, Name, Description, and Type. The devices listed include atl1-core1, atl1-core2, atl1-edge1, atl1-edge2, atl1-leaf1, atl1-leaf2, den1-core1, den1-core2, den1-edge1, and den1-edge2. Each device entry has a status indicator in the rightmost column, represented by a green circle.

Device	Site	Name	Description	Type	Status
atl1-core1	atl1	atl1-core1	-	MX204	-
atl1-core2	atl1	atl1-core2	-	MX204	●
atl1-edge1	atl1	atl1-edge1	-	7280R3	●
atl1-edge2	atl1	atl1-edge2	-	7280R3	●
atl1-leaf1	atl1	atl1-leaf1	-	7010TX-48	●
atl1-leaf2	atl1	atl1-leaf2	-	7010TX-48	●
den1-core1	den1	den1-core1	-	MX204	●
den1-core2	den1	den1-core2	-	MX204	●
den1-edge1	den1	den1-edge1	-	7280R3	●
den1-edge2	den1	den1-edge2	-	7280R3	●

The Automation Valley of Death

Day 1 Scripts

"It Works!"

One-time-use scripts executed manually. PoC demonstrates clear value.

Team celebrates early success with approximately 80% completion achieved in just 3 months.

- Manual execution and validation
- Individual device focus
- High team excitement and buy-in

The Gap

Reality Sets In

Critical questions emerge that weren't considered in the initial excitement. The complexity of production environments becomes apparent, and the team realizes their solution won't survive real-world operational demands.

- Auditing, logging, SSO, RBAC
- Comprehensive testing frameworks
- Knowledge transfer and ownership
- Production vs. lab environment gaps
- Version control and collaboration workflows
- Exception handling and edge cases

Lifecycle Automation @ Scale

"It keeps working"

Multi-device orchestration with federated sources of truth.

Automated testing, CI/CD pipelines, and self-service capabilities with appropriate guardrails.

Complete observability and auditing mechanisms enabling team scaling.

- Automated testing and validation
- Integrated CI/CD pipeline
- Self-service with safety guardrails
- Full observability and monitoring
- Scalable team operations



About us

- Founded by Damien Garros, pioneer in network automation
- 20 infrastructure automation specialists across Europe and North America
- Networking & infrastructure automation expertise
- Decades of combined experience delivering large-scale network automation projects

Proven at Scale

Major Financial: \$1M+ investment, billion-dollar security requirements

Global Media Brand: 2,000-5,000 device environment

EU SP: ISO27001 certified, security audit compliance

Hedge Fund: Custom RBAC and compliance workflows

Automation @ Scale - Journey Requirements



Unify Data

Sync network and infrastructure device, service, and policy data into a unified SoT

Rich metadata and robust UI and API access



Automate

Generate, validate, and deploy configurations

Support full lifecycle management: provisioning, upgrades, decommissioning-across vendors



Infrastructure As-a-Service

Expose automation through catalogs and APIs

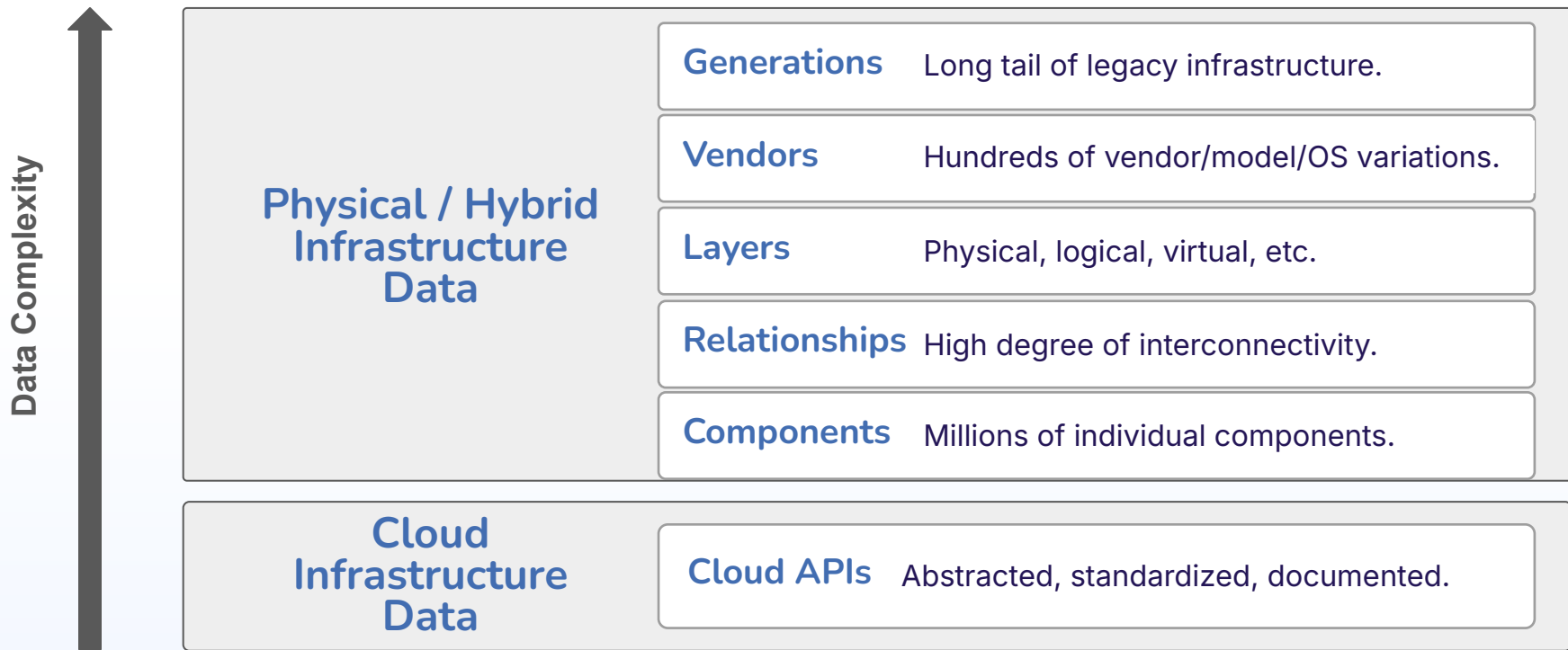
Speed time to delivery, reduce errors, and make infrastructure more responsive to the business

Validation

Compliance

SSO/RBAC

Managing and automating the data for physical infrastructure is 100x more complex than cloud services



Current solutions can't cope with this data complexity



CMDB

Good for asset tracking.
Not useful for automation.
Not built for DevOps.



IaC/Git

Good for cloud API automation.
Strong DevOps support.
Data model too simple for physical infra.



Infra Mgmt Tools

Inflexible or vendor-locked.
Poor DevOps support.

Pain Points

Data Fragmentation

Disparate data sources and inconsistent data formats prevent a unified view and consistent automation, leading to manual reconciliation and errors.

Lack of Visibility

Without adequate monitoring and logging, teams struggle to understand automation performance, debug issues, and ensure compliance in real-time.

Extended Development Cycles

Over-reliance on manual processes and inefficient workflows drastically slows down the creation, iteration, and deployment of new automation features.

Not Enterprise-Ready Tooling

Under-resourced tools often lack the necessary features, governance, security, and integration capabilities required.

Testing Gap

The absence of comprehensive, automated testing frameworks results in unstable automation that frequently breaks in production environments.

Inability to Scale

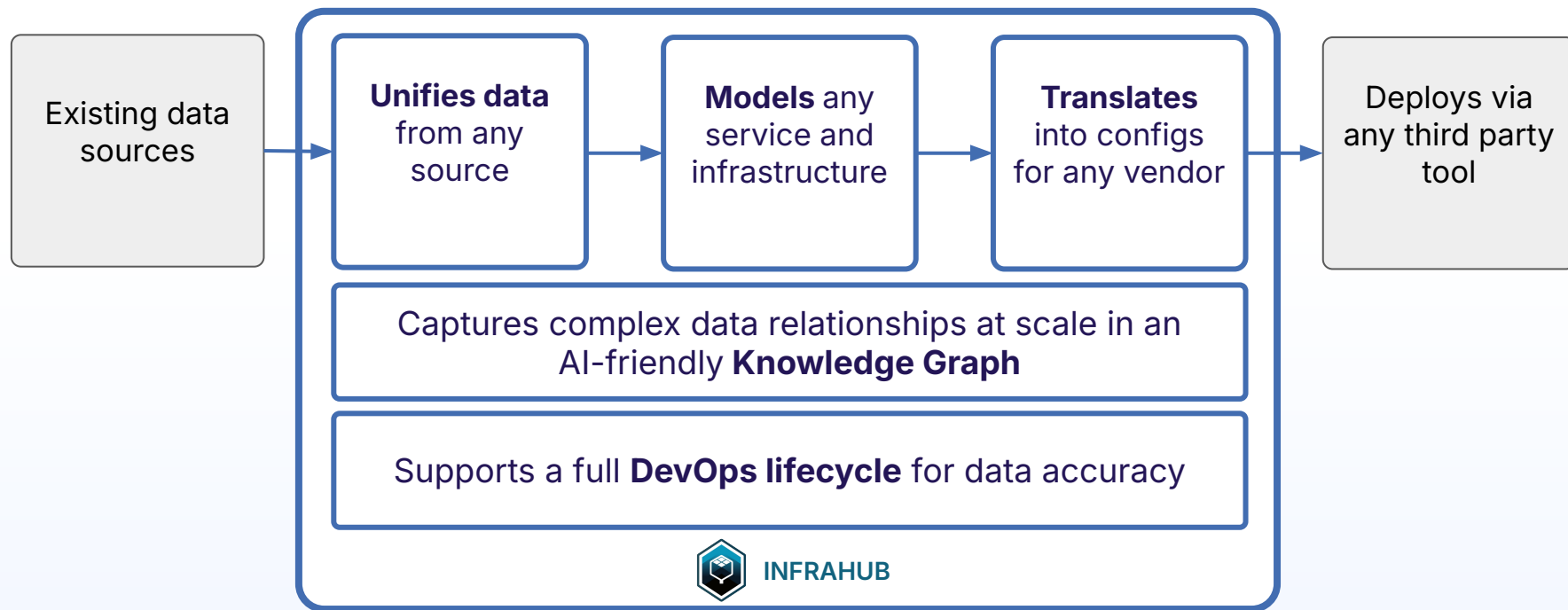
Solutions built for isolated environments often lack the architecture to handle increasing workloads, device counts, or diverse operational demands.

Rigidity & Lack of Extensibility

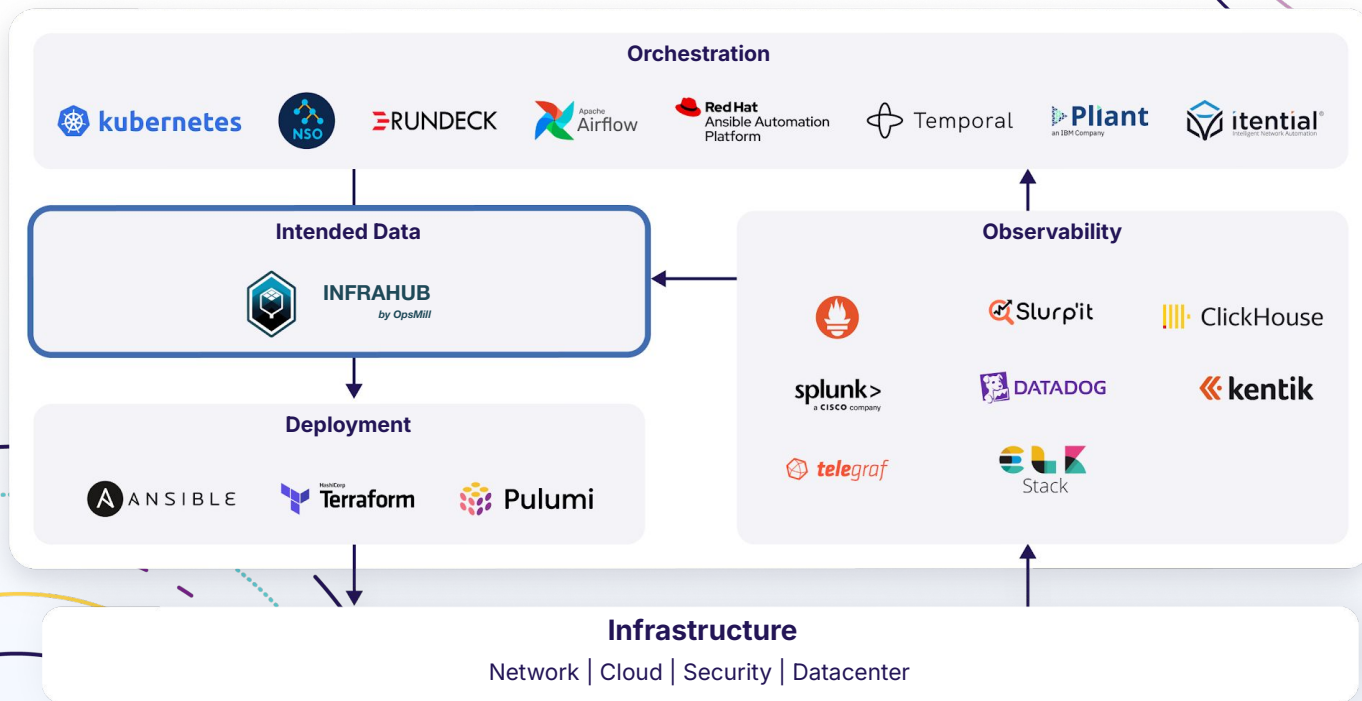
Automation solutions are frequently inflexible, making them difficult to customize, extend, or adapt to evolving business requirements without significant refactoring.



Infrahub is a purpose-built data management platform for physical infrastructure automation and AIOps



Infrahub is at the center of the ecosystem and integrates with everything



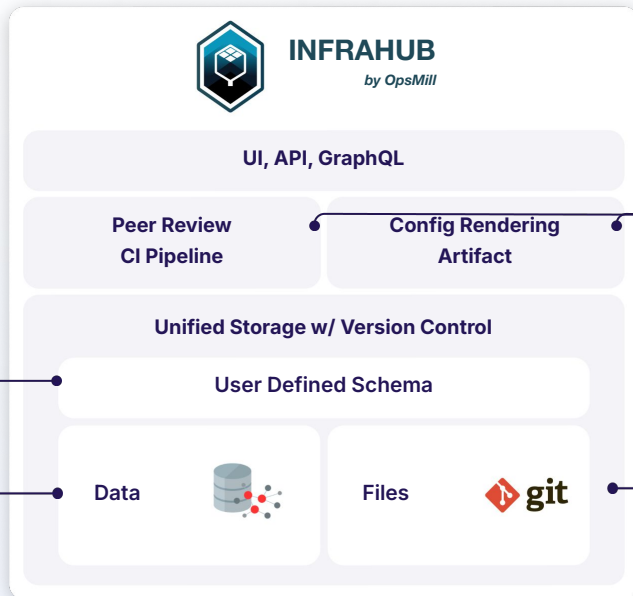
The Infrahub differentiators

Schema Driven

Rich & Flexible schema language to support all use cases

Groundbreaking innovation

Powered by a multi-temporal graph db with built-in version control



Purpose-Built Platform

Designed from the ground up as the data management layer for infrastructure automation and AI.

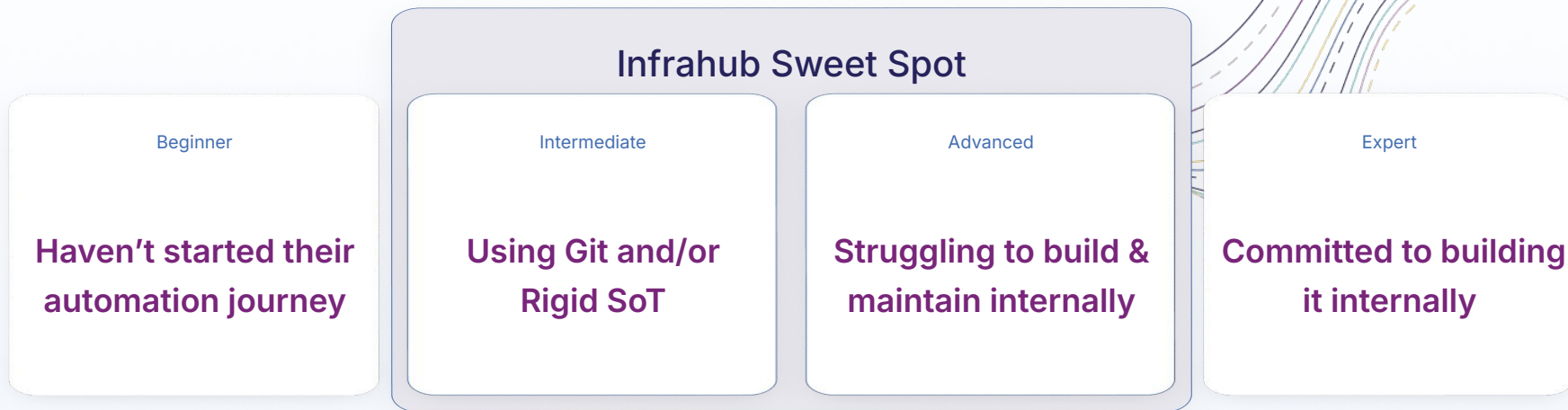
Future-Proof

Built on widely adopted open-source foundations (Neo4j, Git) and designed for extensibility across on-prem and cloud.

Natively Versionable

All data, automation, and tests are version-controlled with branching, peer review, and full audit history.

Infrastructure/Network Automation Journey



**Open Source
Infrahub Project**

<https://github.com/opsmill/infrahub>