



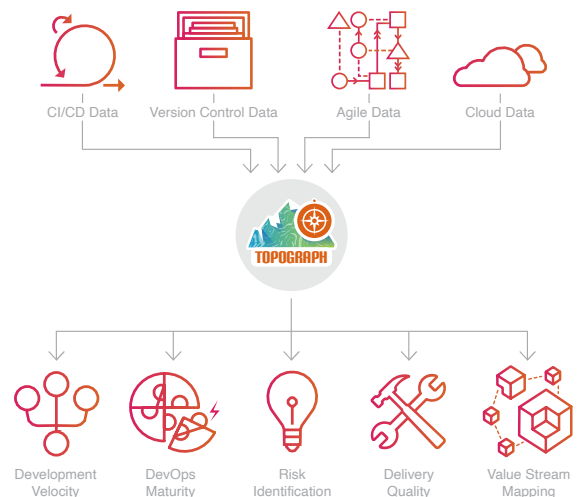
## SOLUTION BRIEF

# Topograph<sup>™</sup> : Data Driven DevOps

Code is the new currency of cloud-based modernization. Measuring and optimizing DevOps Maturity & Developer Productivity is critical to steering business strategy.

Applications are increasingly central to business transformation. Evaluating an entire enterprise's DevOps landscape is a formidable task, given the landscape comprises thousands of applications and hundreds of tools developed over the decades. This has become even more critical with the increased use of remote development teams. The gap in real-time, comprehensive visibility has become one of the major drivers in failed DevOps-led transformations.

Topograph offers enterprises a way to address this challenge. It assists you to rapidly measure, value and benchmark DevOps maturity and developer productivity. Topograph is the industry's first platform agnostic, automated solution to use data as the means of assessing overall enterprise DevOps maturity and improving developer productivity, and provides specific recommendations to improve them.



## Challenges around DevOps Maturity

- Siloed data and proxy metrics — Business and IT alignment issues
- Waterfall release times of 1-3 months vs DORA Elite Class
- Difficulty tracking and enforcing policies across development teams
- Struggle to show quantifiable value to business
- Issues finding a balance between tool empowerment and sprawl



## Challenges in Improving Productivity

- Difficulty in determining value delivered — Agile is emotional and qualitative
- Managing large vendors with limited visibility and review
- Large amount of technical debt generated by pivots and quality issues
- Manual handoffs and expensive refactors required for releasing code
- Slow pipelines, limited testing, frequent failures
- Lack of developer growth culture focus

# Topograph in Action

Topograph starts with an overnight crawl and quick assessment to establish a baseline. We provide our findings within just a few days. It first creates a single source of truth for enterprise DevOps, Agile, and cloud systems, and then uses this ground-up visibility for refining the DevOps and cloud migration roadmap. By aggregating data from Version Control, CI/CD, cloud, and DevOps tools, it captures DevOps Research and Assessment (DORA) Accelerate benchmarks, and calculates industry specific KPIs using our proprietary algorithms. Topograph benchmarks enterprises against leaders, identifies bottlenecks, and provides actionable insight to surface high value-driven opportunities to directly impact DevOps maturity and developer productivity. Importantly, it then allows enterprises to drive a pareto-based set of remedies based on its concrete recommendations. This results in immediate and prioritized improvements for any DevOps and Application Modernization initiative.



## Benefits from Data-driven Automation

- Visibility into velocity, maturity, risk, quality and value
- DevOps single source of truth — learn more in a day than months of analysis
- Proven Data Science methodologies analyzing 1000s of data points — categorizing attributes and detecting tools
- Algorithms developed by DevOps experts, validated through benchmarking industry leaders

## Value provided to Decision Makers

Topograph addresses the needs from the C-suite to Project Manager, providing the appropriate level of visibility and granularity of insights. It assesses the current status, investigates value stream trends, and digs deep into the raw metrics. Without taking up a lot of your management time.

- Holistic visibility of entire development ecosystem
- Data-driven project discovery using DORA accelerate metrics
- Migration status and DevOps maturity assessment
- Unify data and proxy metrics for Business and IT
- Benchmark for industry leadership
- Value stream correlation of DevOps trends within an enterprise
  - **Agility vs Outcome**
  - **Investment vs Value**
  - **CI/CD Quality vs KPIs**
  - **DevOps Maturity vs Application Metrics**

## Broad Level of Applicability



CEO

- Drive enterprise transformation goals
- Accelerate time-to-market and revenue generation
- Rapidly deliver margin improvements
- Rapidly deliver new business models, services to new markets



CIO/CTO

- Post Pandemic Rapid Renewal Program
  - Reprioritization of Modernization tenets & timelines
  - Run & Change Programs
- Accelerate DevOps to improve resiliency and reliability
  - Idea to production
  - Improve resiliency and reliability
- Lower Costs: consolidate, automate
- Data-driven enterprise — Dashboard for fast decisions



VP Engineering

- Ability to deliver quickly
- Eliminate technical debt
- Reprioritize in-flight modernization
- Accelerate cloud native development
- Deliver to enterprise KPIs — speed, high quality, resiliency and cost



VP/Director  
DevOps

- Improve speed, resiliency and cost of development
- Developer & operations productivity — release time, DORA metrics
- Deliver higher quality software, with strong feedback loops
- Standardize on best practices, benchmarking
- Accelerate DevOps enterprise-wide adoption

## Designed for Decision Making

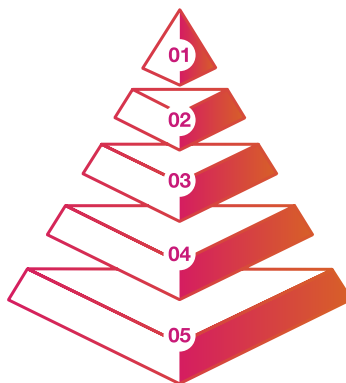
Topograph's reports provide a layered approach to surfacing a range of value – from metrics that matter, driving the actions that count, to insights that roll up from detailed project level analytics for business level decisions.

### 01. BUSINESS RESULTS

More features, less risk, less debt, and happier users. Increasing velocity and quality to improve your bottom line.

### 02. ACTIONABLE INSIGHTS

What to do next and how to expedite transformation. Projects that immediately drive results.



### 03. BOTTLENECKS

Understand the bottlenecks across the organization, and the cost associated with not changing.

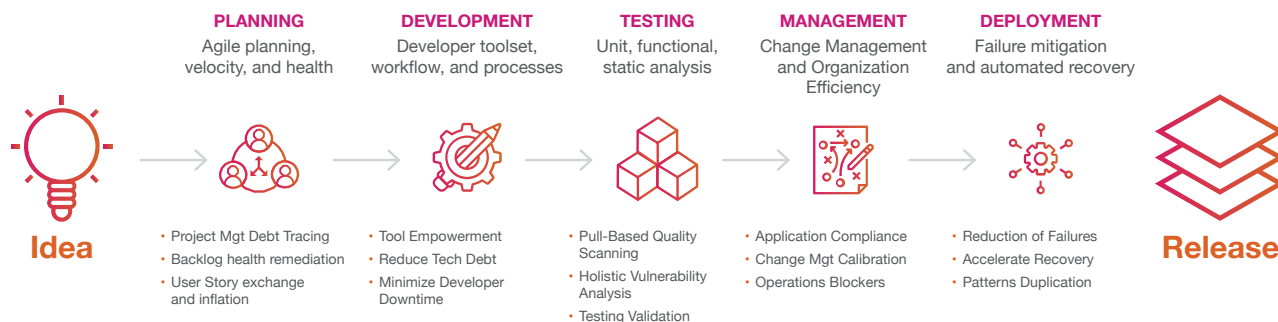
### 04. BENCHMARKING

See how you stack up against FAANG, Accelerate, and Industry leaders.

### 05. ANALYTICS & KPIs

The metrics that matter. Aggregate siloed data and create KPIs that directly tie to the value stream.

















# Focus Areas of the Assessment



## Breadth of Data Analyzed and Deployment Flexibility

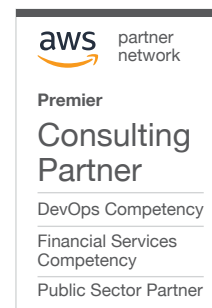
Topograph is designed with the flexibility to reside inside your enterprise, or connect to your systems from our SaaS. Topograph crawls through your code repository (Applications), CI/CD, Agile data and VM/cloud data to create the foundation to analyze and assess the overall DevOps maturity. It anticipates restrictions around privacy and security issues based on Mphasis Stelligent's expertise with regulated businesses, and ensures the built solution is compliant.



Data	Value Area	Metrics and Analytics
 	Development Productivity	Observability into vendor, BU, product team, and personal coding contributions — Delivery velocity, quality, and value.
 	DORA Benchmarking	Pipeline analytics including MTTR, MTTF, rollback frequency, failure rate, etc. Log monitoring from application, infra, and CI/CD.
  	DevSecOps Maturity	Identifying DevOps assets, coverage, tool integrations, CI/CD best practices, security/scanners, and automation.
 	Feature-debt Analysis	Evaluate PRs, Commits, and Diffs — categorize and score features, defects, tech debt, and DevOps efforts.
  	Risk Identification	Security and least privilege (cfn-nag, mc-nag), DevOps file evaluation and rule engine (OS linters, config-lint). Failure correlations from velocity, features and defect.
   	Value Stream Mapping	Aggregating siloed KPIs to paint the entire DevOps story focusing steering the business and uplifting the organization.

## ABOUT MPHASIS STELLIGENT

With over a decade of experience, Mphasis Stelligent is a Premier Amazon Web Service (AWS) Consulting Partner, AWS Public Sector Partner, and holds competencies in DevOps, Security and Financial Services. It has a demonstrated track record in assisting enterprise customers benefit from AWS' continuous innovation. Mphasis Stelligent brings in-depth expertise in DevOps, DevSecOps, and Data/MLOps automation services to enable security-conscious enterprises to focus on developing business-critical software. It uniquely brings a data-driven approach to assess and streamline DevOps maturity and apply proven 'deep automation' techniques to codify and accelerate complex enterprise migration programs for apps and data that is aligned with the AWS Prescriptive Migration Framework. Learn more at [www.stelligent.com](http://www.stelligent.com).



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