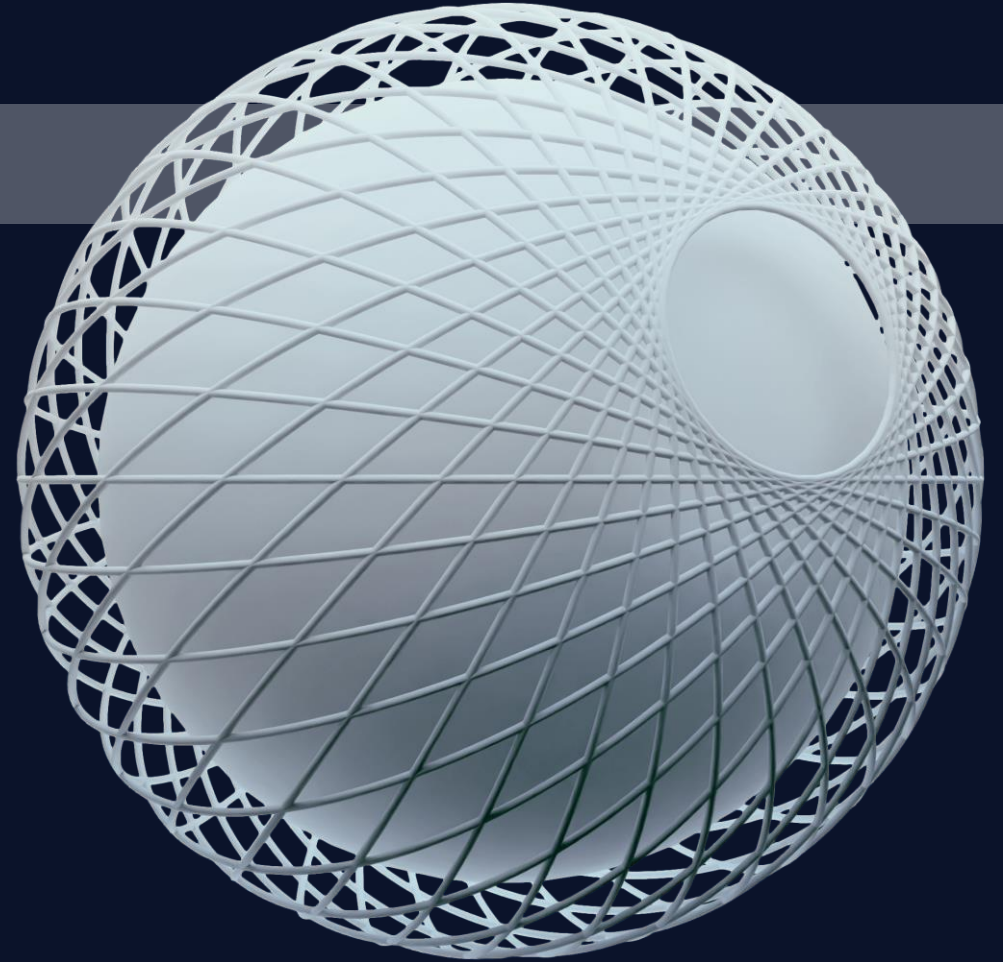


TRACE3 | Cloud Solutions Group

GitHub Copilot Acceleration Program

—
Derek Smith



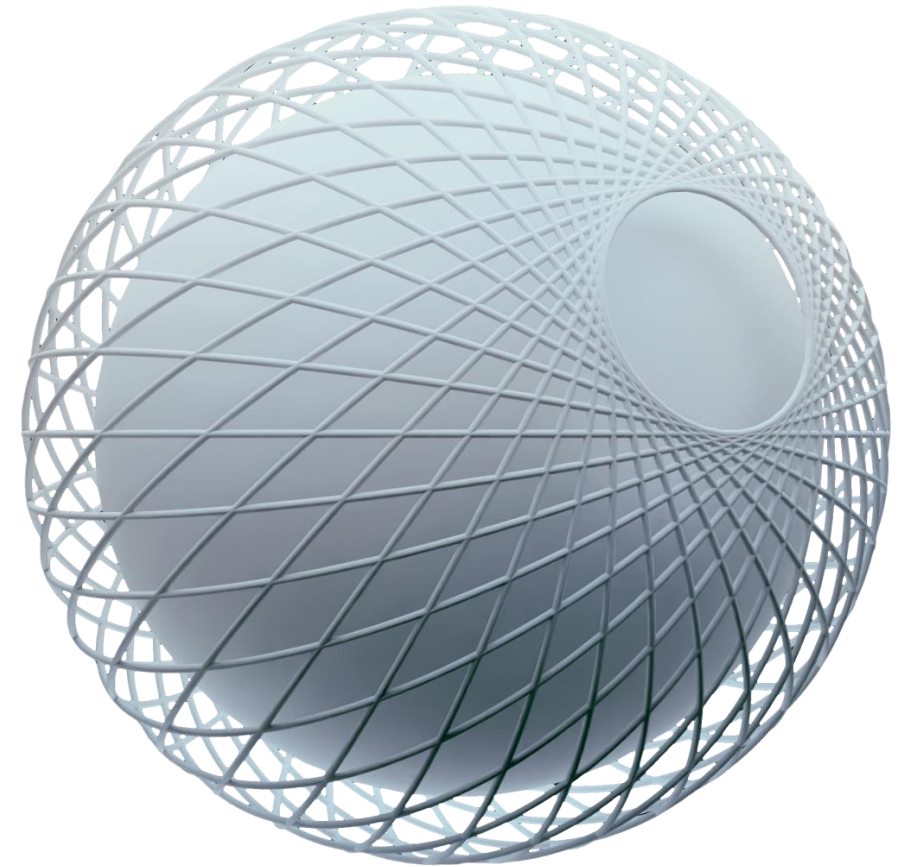
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Challenge and Solution

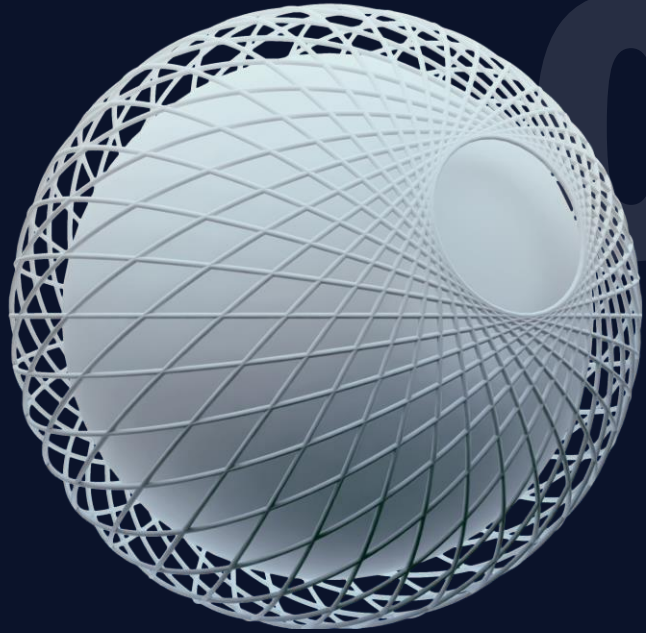
The Challenge

AI-assisted development tools like GitHub Copilot offer significant benefits in terms of productivity and efficiency, they also present a series of challenges that organizations must navigate. Balancing the advantages with the potential pitfalls will be key to successfully integrating AI into software development practices.

The Solution

Ensuring that developers are actively engaged with GitHub Copilot, by ensuring developer workflows follow best practices, implementing proper governance and compliance on code repositories and streamlining collaboration to ensure the right balance.

Developers are a critical part of any organization, making their experience better and easier helps drive meaningful impact.



Assess, Envision, Design & Execute! – Trace3's GitHub Copilot Accelerator

Unmanaged adoption of GitHub Copilot could lead to BIG PROBLEMS

Legal Issues (Licensing, Terms of Use, etc.)

Poor or nonexistent end user readiness & engagement strategy

Missing or poor operationalized security capabilities (DevSecOps, Code Security, IAM, etc.)

Lacking a functioning community of practice

Missing or poorly operationalized AI Governance Program

Lacking vision and strategy on how GitHub Copilot is to be used beyond basic use cases

Long code reviews, lack of improvement in team speed

Inadequate Data Hygiene/Security controls

Inability to make timely code changes

AEDE Approach



Trace3 will work to help adopt and operationalize the use of AI assisted developer tool GitHub Copilot to fulfill enterprise use cases relating to the improvement of developer experience, drive increased application adoption inside of Azure and productivity with the creation of processes, governance, secure integration, and ongoing administration of GitHub Copilot.

Copilot COE Roles & Responsibilities

Role	Responsibilities	Department	Team Member(s)
Executive Sponsor	Send Copilot Launch announcement. Help identify and prioritize top HR needs. Connect with Security, HR and IT leaders across the organization. Actively participate in and use the Copilot capabilities to help drive and reinforce adoption.	Human Resources	Jane Doe
Department Leads	Represent department needs to support scenario and use case development Attend train the trainer sessions and become subject matter expert of Copilot Co-develop applicable departmental documentation	Human Resources Sales Marketing IT Finance	Jane Doe John Doe Jon Smith Jane Smith
Security Lead	Define security and compliance requirements for Copilot Co-develop Copilot administration standard Support data security posture and technical review (security) assessments	Information Security	Jack Doe

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6

Develop
COE and
establish
R&Rs

Assess

CENTER OF EXCELLENCE

Identify stakeholders, develop charter, define R&Rs

DEVELOPER EXPERIENCE

Review developer productivity metrics, feedback, review process, measurement.

ADOPTION STRATEGY

Value realization framework, measurement and reporting plan, engagement & training strategy

Developer
Experience



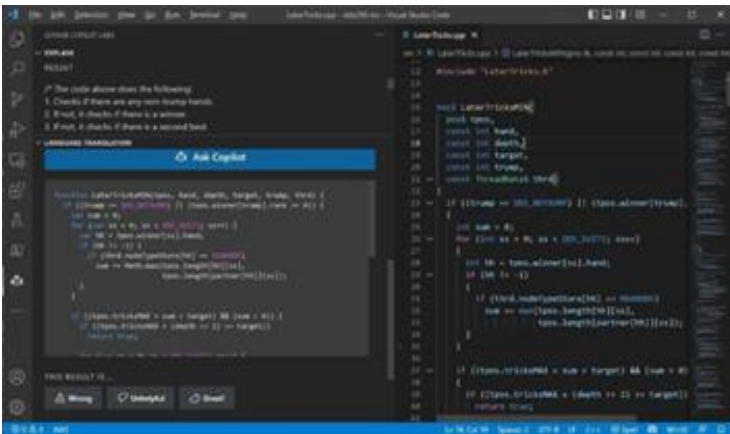
Scenario Examples

Knowledge Worker	Productivity	Skills
Generate summary of document x	Respond to email in outlook with a certain tone	Review business results and summarize key trends
Write a draft email about a topic x	Create a table of pros and cons for topic x	Analyze sales report from last month
Get a new coworker up to speed on project x	Summarize emails missed while out sick, flag important items	Provide a gap analysis based on x documents
Create a presentation based of this word document	Identify decisions made and suggest next steps in a meeting	Develop a RACI for this process

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Develop
scenarios and
use cases



Educate

ENVISION

EDUCATE

Education and envisioning workshops with Copilot COE on key capabilities and business scenario/use case prioritization

Developer Productivity

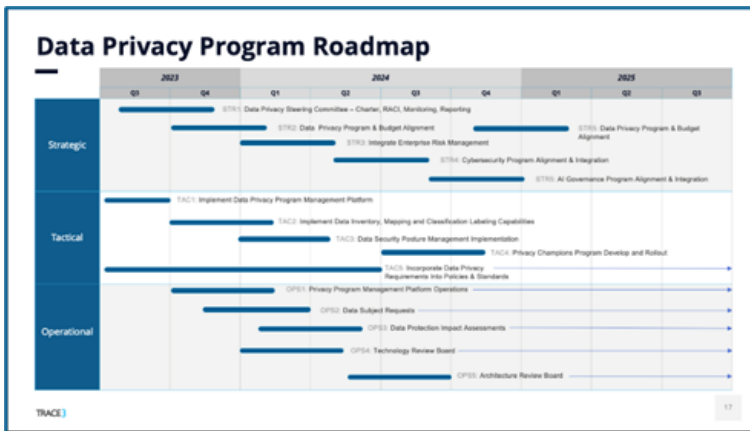
Automated Application Deployments <small>Automating the deployment of application code brings efficiency, consistency, reliability, scalability, reproducibility, support for CI/CD practices, rollbacks, disaster recovery capabilities...</small>	Deployment Process	1 <small>Current Score</small> >>> <small>Projected Score</small> Level 2 Level 3
Code Reviews and Code Quality <small>Having multiple peers review a piece of code brings various benefits, including error detection, quality assurance, knowledge sharing, consistency, continuous improvement, and risk mitigation...</small>	Development Process	1 <small>Current Score</small> >>> <small>Projected Score</small> Level 2 Level 3
SLA Governance for high severity bug fixes <small>Not fixing high and critical bugs can result in insecure software and poor quality customer. We recommend fixing high and critical bugs before the release.</small>	Quality and Resilience Testing	1 <small>Current Score</small> >>> <small>Projected Score</small> Level 2 Level 3
Governance in build pipelines <small>Enforcing quality, security gates in the build pipelines enables service owners to catch and fix issues and vulnerabilities very early in the delivery process, shifting these crucial processes...</small>	Build Process	0 <small>Current Score</small> >>> <small>Projected Score</small> Level 1 Level 3

DEVELOPER PRODUCTIVITY

Analyze developer objectives and key results, measurements of code review process, quality checks and happiness.

TRANSITION STEPS

Surface and identify steps to move towards an improved software delivery framework centered around AI assisted development.



Identify, Prioritize and Remediate Data Risk

PRIORITIZED REMEDIATION RECOMMENDATIONS

Develop prioritized remediation roadmap based on risk and aligned to code best practices, industry standard frameworks and compliance requirements

Executive Summary

Autodesk has partnered with Trace3 to conduct a resiliency assessment of Autodesk's Tier-0 Service portfolio. Autodesk and Trace3 have utilized the Trace3 resiliency assessment methodology to conduct a series of resiliency assessments to identify gaps in knowledge of systems design and integration, understand latent risks that may exist in critical services/platforms, and understand specific opportunities to improve the overall resiliency posture.

Four high-level themes have emerged among the 30 completed assessments:

High-Level Themes Across the Assessments



Single-region resiliency across services is strong – resiliency efforts are apparent
All Tier-0 services demonstrate a high level of single-region resiliency.



Lack of Disaster Recovery capabilities across many services
Many services do not have critical DR capabilities in place while others have not established and tested comprehensive DR plans.



Multi-Region, automated failover, and self-heal are not implemented
To achieve the high availability objectives necessary for Tier-0 services, automated failover across regions and self-heal capabilities are necessary.



Outdated documentation
Documentation must be kept up to date to reduce Mean Time To Restore and to speed up onboarding of new team members.

Majority of service teams are required to implement these Engineering experiments in Production today, which might indicate the low level of confidence Autodesk has in the resilience of these services.

MVP Plan

DESIGN

MVP PLAN

Prerequisites check including, licensing and software.

Onboarding, training and testing of basic functionality and features

Testing of stakeholder specific scenarios, as defined in envisioning workshops

COE Artifacts



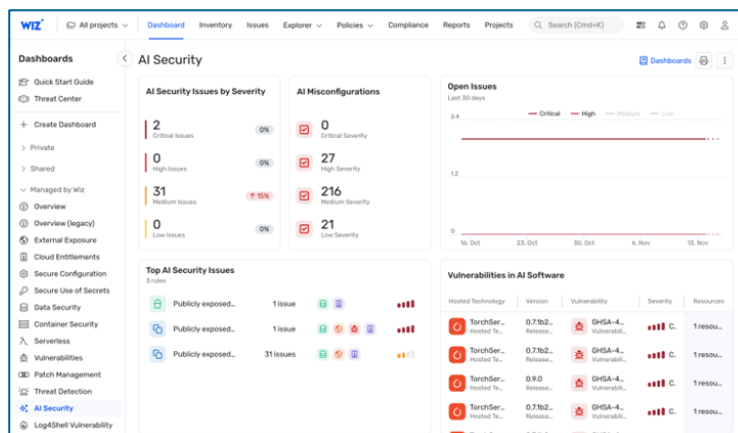
EARLY ADOPTER ONBOARDING

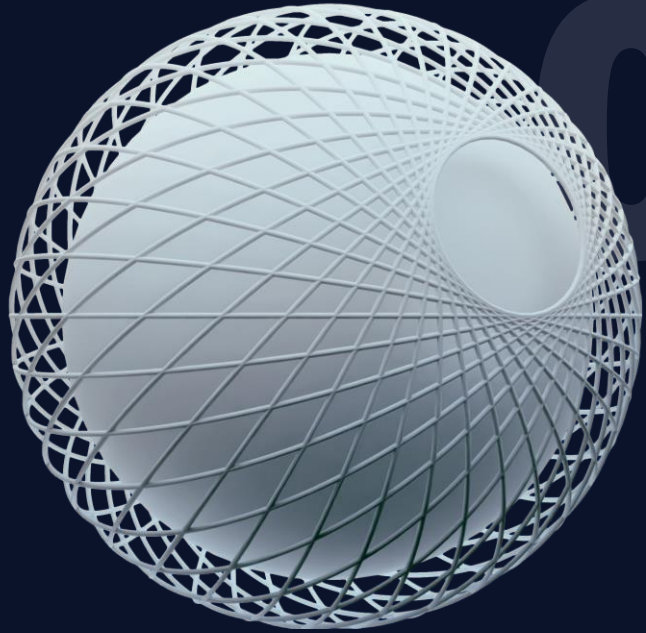
Development of Copilot COE artifacts including, but not limited to onboarding guides, training artifacts, best practices, FAQs, communication templates, etc.

TECHINCAL & SECURITY READINESS

Collaborate with key personnel on development of policy, standards, process and or platform configuration to address roadmap remediation requirements prior to Execute phase.

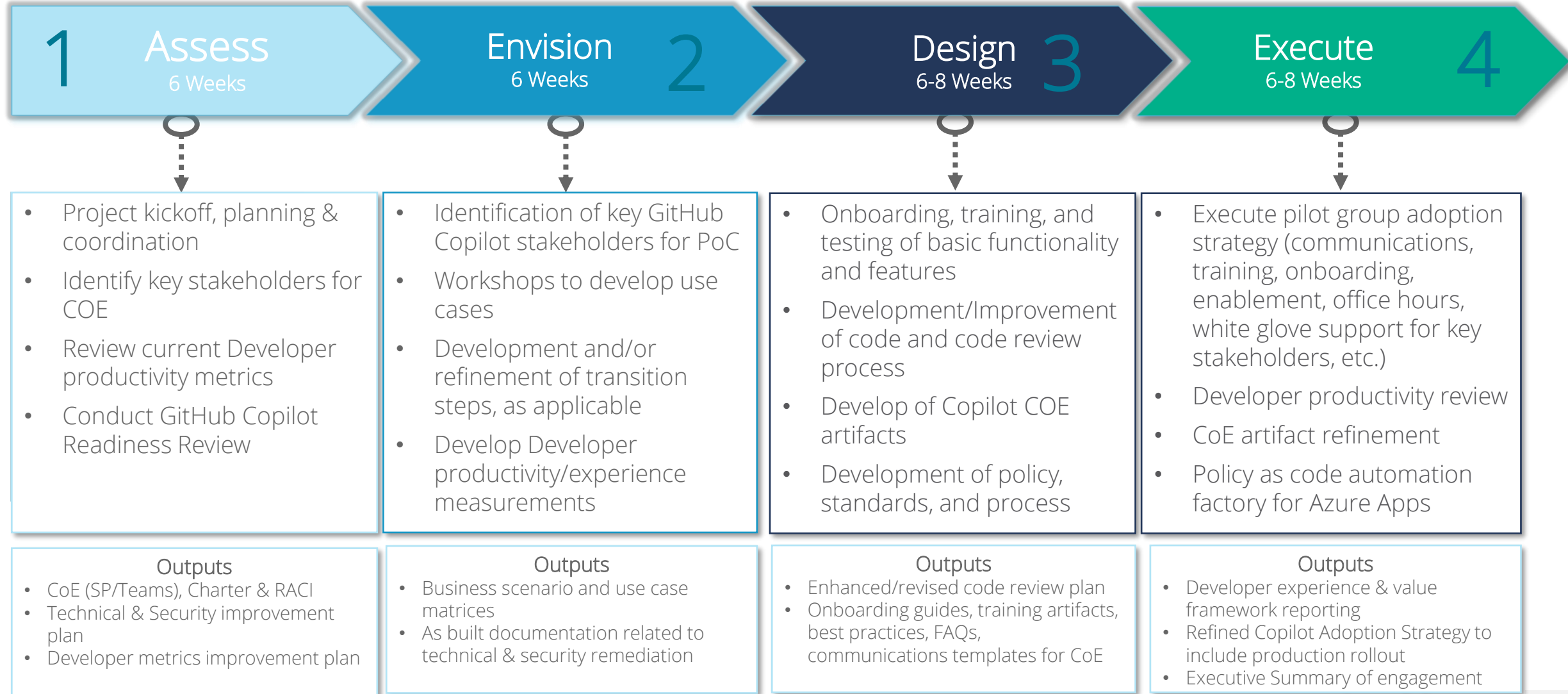
Collaboration with staff on security remediation

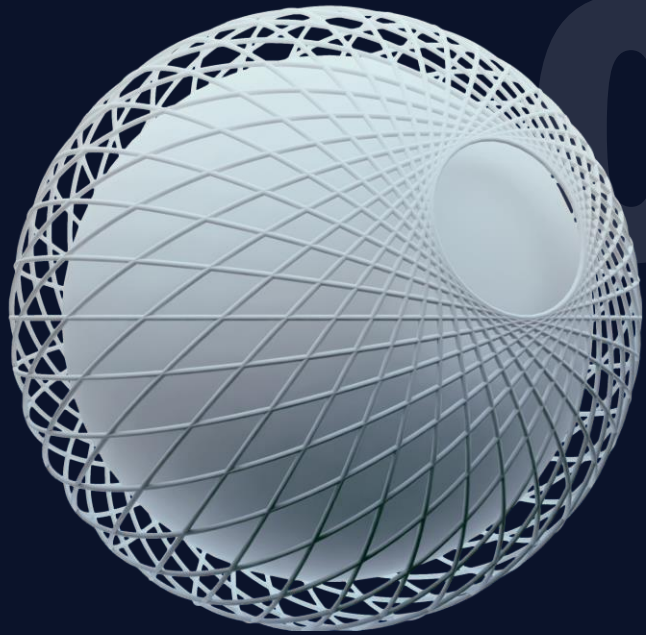




Trace3's Approach To GitHub Copilot Adoption

Trace3's Approach To GitHub Copilot Adoption



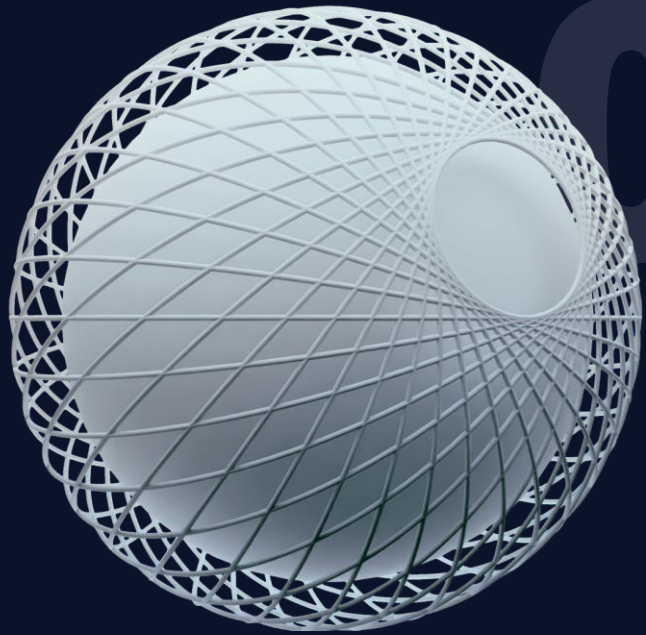


04

Questions



Thank You!



Trace3 Overview

At Trace3, we believe:

All possibilities live in technology

PREMIER PARTNER

We are the premier technology solutions provider for enterprise and commercial clients. Trace3 provides access to emerging tech from Silicon Valley coupled with elite engineering that drives end-to-end solutions in cloud, data and analytics, security, and the data center.

INNOVATION

Trace3 empowers executives and their organizations with technology innovation to keep pace with evolving business needs and give them a competitive advantage.

TRACE3'S VISION

Our vision statement is to always be an innovator in the industry, with commitment to business value realization for our clients.

Trace3's Highly Differentiated Business Model

EMERGING TECHNOLOGY

- Innovation embedded in Trace3 DNA
- Unique venture capital ecosystem
- Unmatched insight into new technology

ELITE ENGINEERING

- Significant investment in consulting and engineering talent
- Elite vendor partnerships and loyalty to the client
- Best-in-class service and delivery execution

CLIENT INTIMACY

- Regional model built to optimize client intimacy
- Thousands of clients across all industries
- Early client access to emerging technology



Trace3's Suite of Products and Services

SOLUTIONS

- Cloud
- Cloud Security
- Data Privacy
- Security & Networking
- Data & Analytics
- GenAI Strategy, Adoption & Governance

SERVICES

- Professional Services
- Assessment and Advisory Services
- Managed Services
- Management Consulting
- Project and Program Management

ENABLEMENT

- Innovation Insights
- Emerging Vendors
- Research Engine
- Venture Relations
- Technical Certifications
- Engineering Talent
- Local Resources
- Vendor Partnerships
- Executive Services
- Client Experience Portals

Trace3 Capabilities Overview



TRACE3

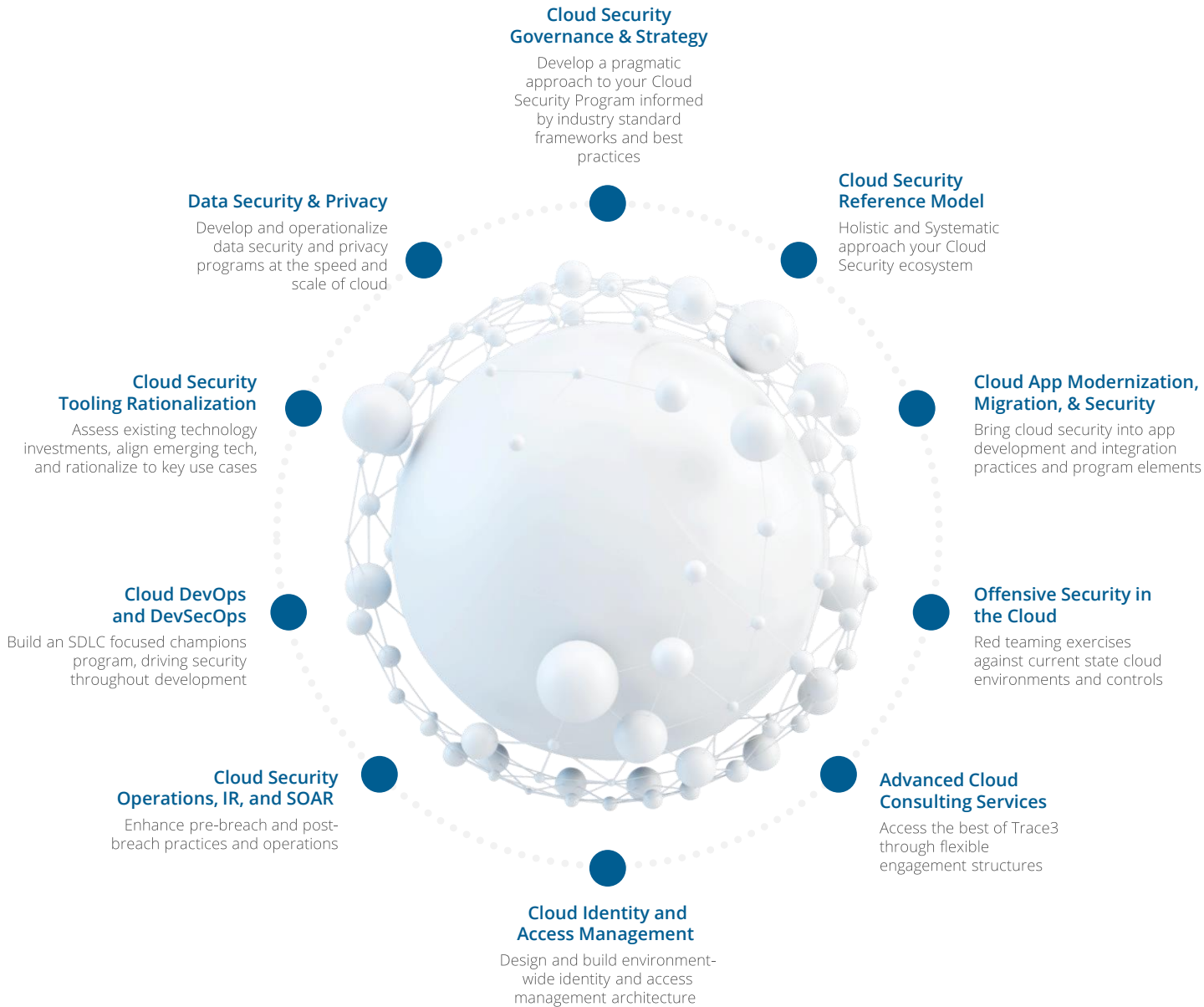
\$2B+ Revenue

5,500+ Clients

60 Top Tier VC Partners

4500+ Tech Solutions

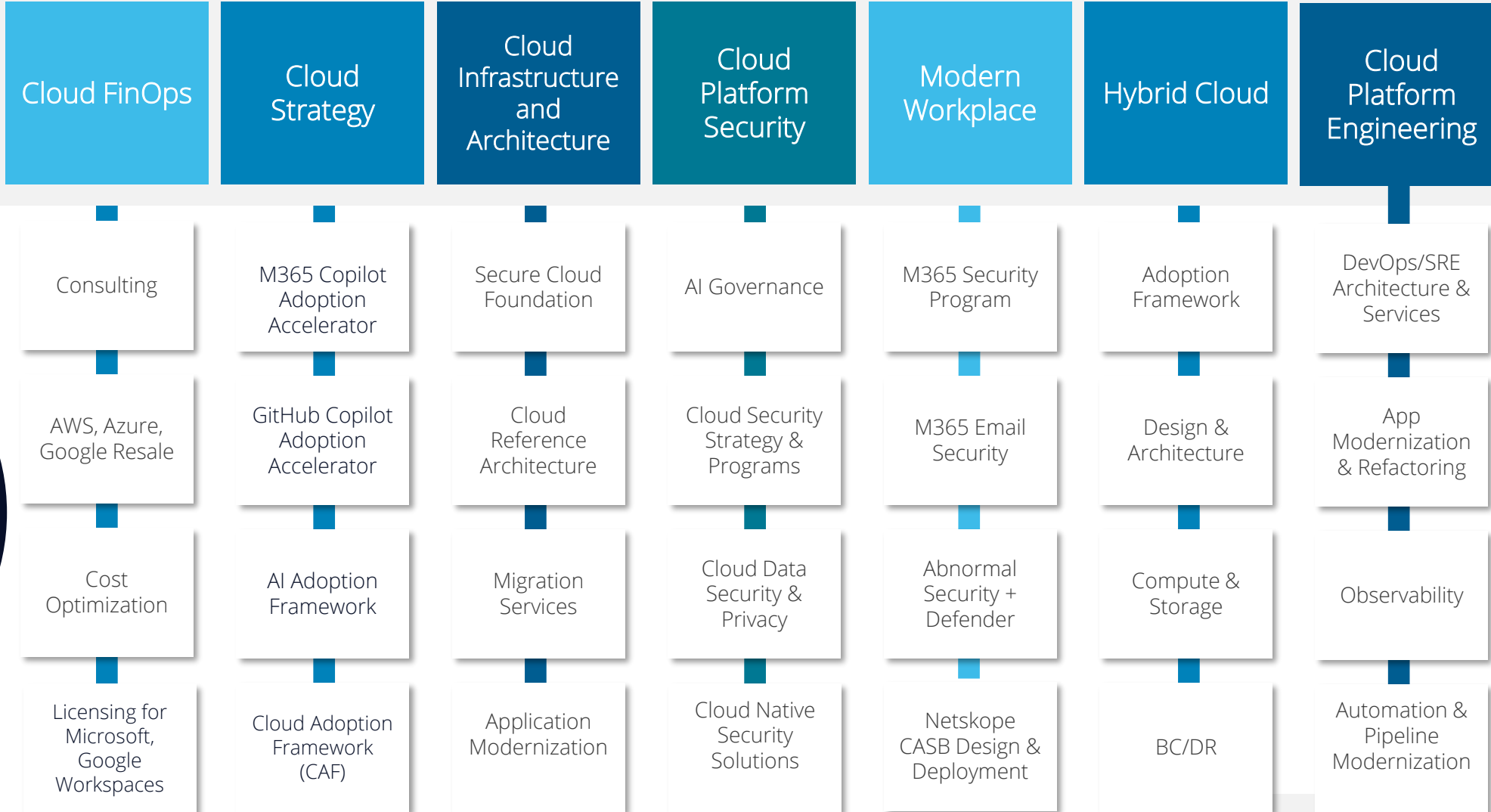
1200+ Employees



Cloud Security Fusion Team

Cloud Solutions at Trace3

World Class
Cloud
Consulting



Security Services at Trace3

Securing
how you do
business.

