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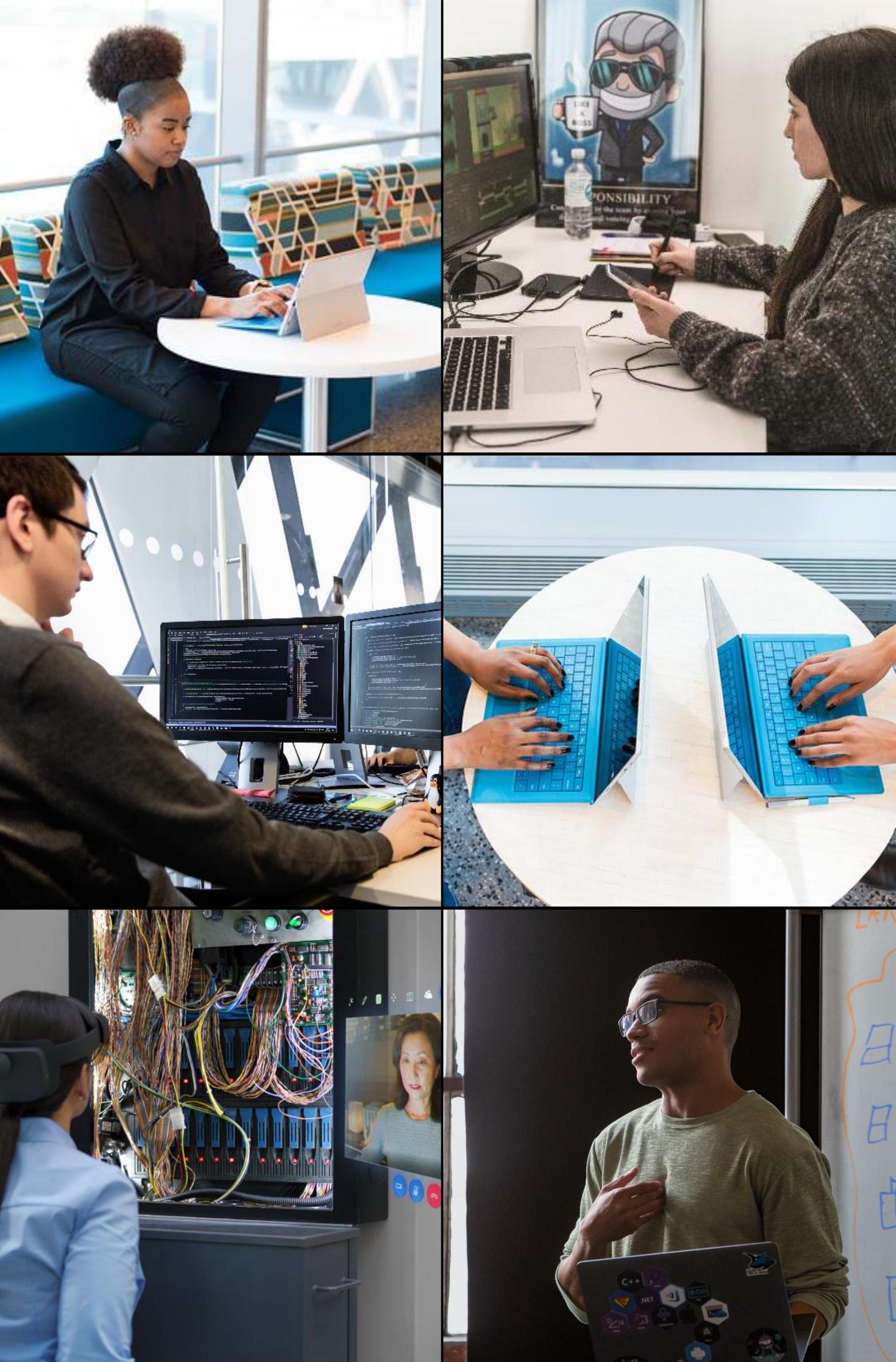
# Still Trying to Unlock Developer Velocity?

Driving innovation and business performance

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# Ground Hog Day

Is every day the same

Filled with busy work

Trouble modernizing your workloads

Trouble retaining talent

Cannot win executives over to your ideas



# Developer Velocity



# McKinsey & Company

## *Driving business outcomes through Developer Velocity 2020*

### *Published report*

### *Findings: summary & by industry (finance, retail, manufacturing)*

McKinsey & Company: Driving business outcomes through Developer Velocity 2020  
1. Measured by level of adoption of new technologies and ability to innovate faster and beat competition through innovation led growth

The screenshot shows a white header with the McKinsey & Company logo and a search bar. Below the header is a large image of a person's hands working on a laptop keyboard. Overlaid on the image is the article title: "Developer Velocity: How software excellence fuels business performance". Below the title is the date "April 20, 2020 | Article". To the right of the title are social sharing icons for LinkedIn, Twitter, Facebook, Email, Print, and a magnifying glass. A text excerpt follows: "With technology powering everything from how a business runs to the products and services it sells, companies in industries ranging from retail to manufacturing to banking are having to develop a range of new skill sets and capabilities. In addition to mastering the nuances of their industry, they need to excel first and foremost at developing software." At the bottom right is a "DOWNLOADABLE RESOURCES" section with a link to "Article (PDF-295KB)".

<https://aka.ms/developervelocity-report>

# Developer Velocity Thought Leadership w/McKinsey

## Introducing Developer Velocity

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As companies pursue digital strategies, they increasingly need to **act like software companies**

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This entails enabling developers to build productively, collaborate globally & securely, and scale innovation

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Developer Velocity is **not just about speed**, but about unlocking developer ingenuity to drive business outcomes

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Our hypothesis: companies with **higher Developer Velocity**, achieve better business results

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McKinsey & Co. conducted a comprehensive review of **what it takes for a company to become a technology company (have tech intensity)** and converged on a single holistic metric—**Developer Velocity Index (DVI)**

**Every company wants  
to digitally transform...**

... however, realizing true business value from  
software remains challenging

**20M**

software engineers worldwide<sup>1</sup>

**50%+**

outside tech industry<sup>1</sup>

**70%**

of digital transformation initiatives do  
not achieve targeted outcomes<sup>1</sup>

<sup>1</sup> McKinsey & Company: *Driving business outcomes through Developer Velocity 2020*

**Best-in-class tools  
are the #1 driver of  
business performance**

McKinsey & Company: *Developer Velocity: How software excellence fuels business performance*. April 2020

**+65%**

**more innovative**

**+47%**

**developer satisfaction  
and retention rates**

# Developer Velocity Index (DVI)

McKinsey conducted a comprehensive review of software development and converged on a single holistic metric – Developer Velocity Index

 Deep structured interviews

100+ industry experts

 Comprehensive survey

440 large organizations across 12 industries and 9 countries

 Statistical correlation analysis

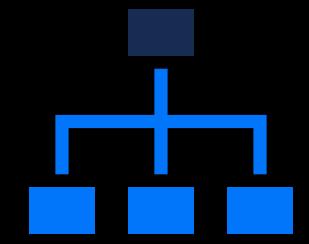
Business performance (financial performance, innovation, customer experience, brand, talent) against the various dimensions of DVI



Technology



Working practices



Organizational enablement

# Developer Velocity Thought Leadership with McKinsey

## 46 different drivers across 13 dimensions



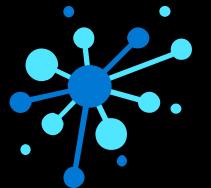
### Technology

1. Architecture
2. Infrastructure and platform
3. Testing
4. Tools



### Working practices

5. Engineering practices
6. Security and compliance
7. Open source, inner source
8. Agile team practices



### Organizational enablement

9. Team characteristics
10. Product Management
11. Organizational agility
12. Culture
13. Talent management

**Companies with top DVI  
outperform the market**

**4-5x**

Higher revenue growth

**55%**

Higher innovation<sup>1</sup>

McKinsey & Company: Driving business outcomes through Developer Velocity 2020

1. Measured by level of adoption of new technologies and ability to innovate faster and beat competition through innovation led growth

# McKinsey Research

## Key findings

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Top drivers for business performance: developer tools, product management capabilities, culture, and talent management

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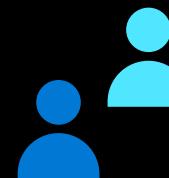
Open source is the #1 differentiator for top performers

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Public cloud adoption is a key differentiator driving business performance for non-digital companies

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Top performers: empowering citizen developers score 33% higher on innovation

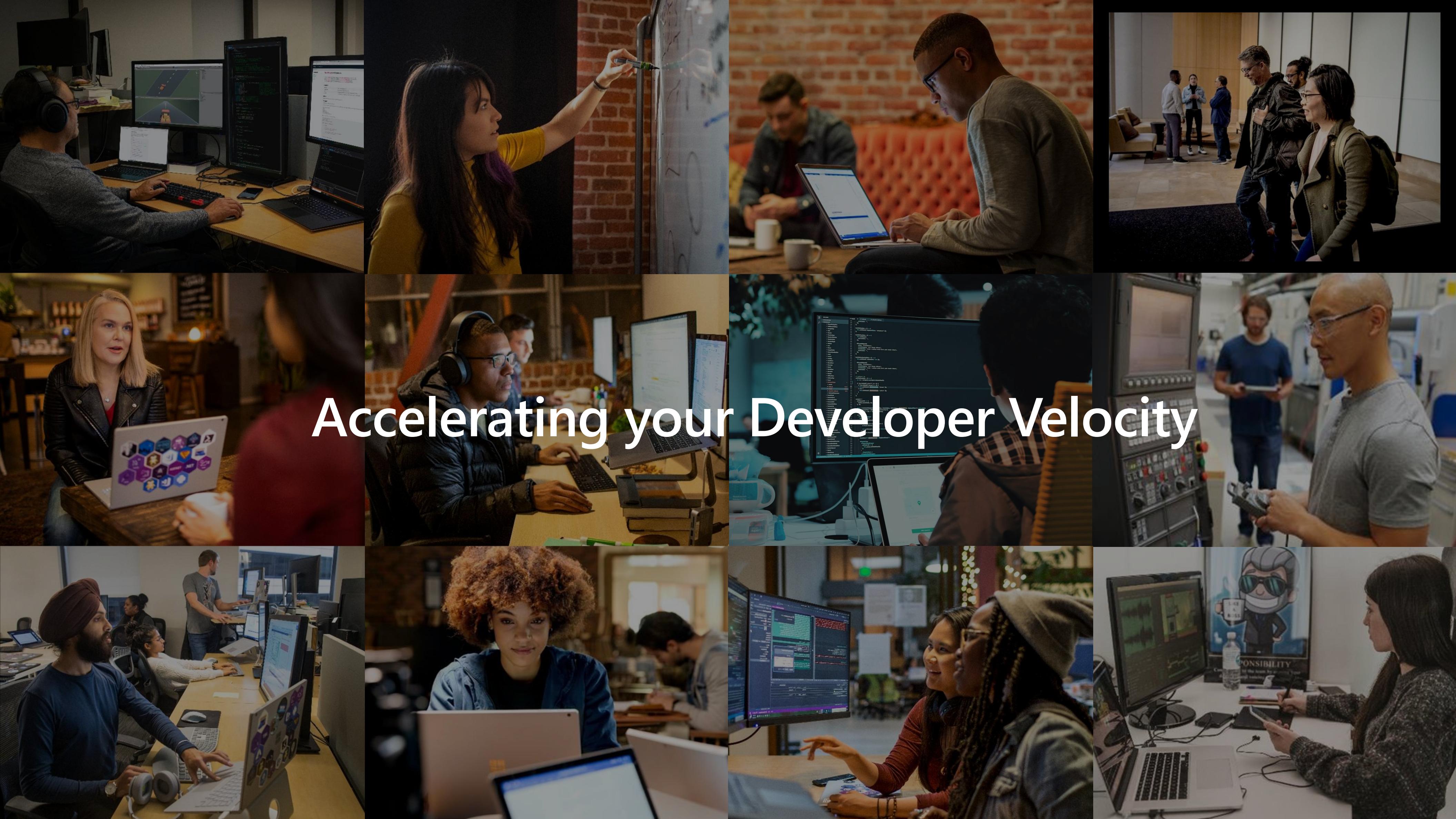
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Accelerating impact: AI/ML, Live site automation, product telemetry

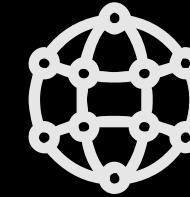
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# Accelerating your Developer Velocity



# Accelerating your Developer Velocity

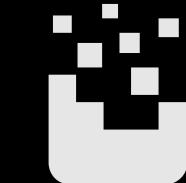
## Action Recommendations



### DVA + Review



#### Identify Teams



Identify Teams

Position the value of the DVA

Enable a culture of psychological safety and 'fail fast & learn'

Conduct DVA with teams

Capture backlog items and prioritize areas of focus

Action and track progress

Leverage Microsoft's offerings to accelerate

Start with focus on 1-3 drivers, then rinse and repeat

Continuous review and improvement

# Running the Assessment

A series of questions of perception and understanding

3 main categories

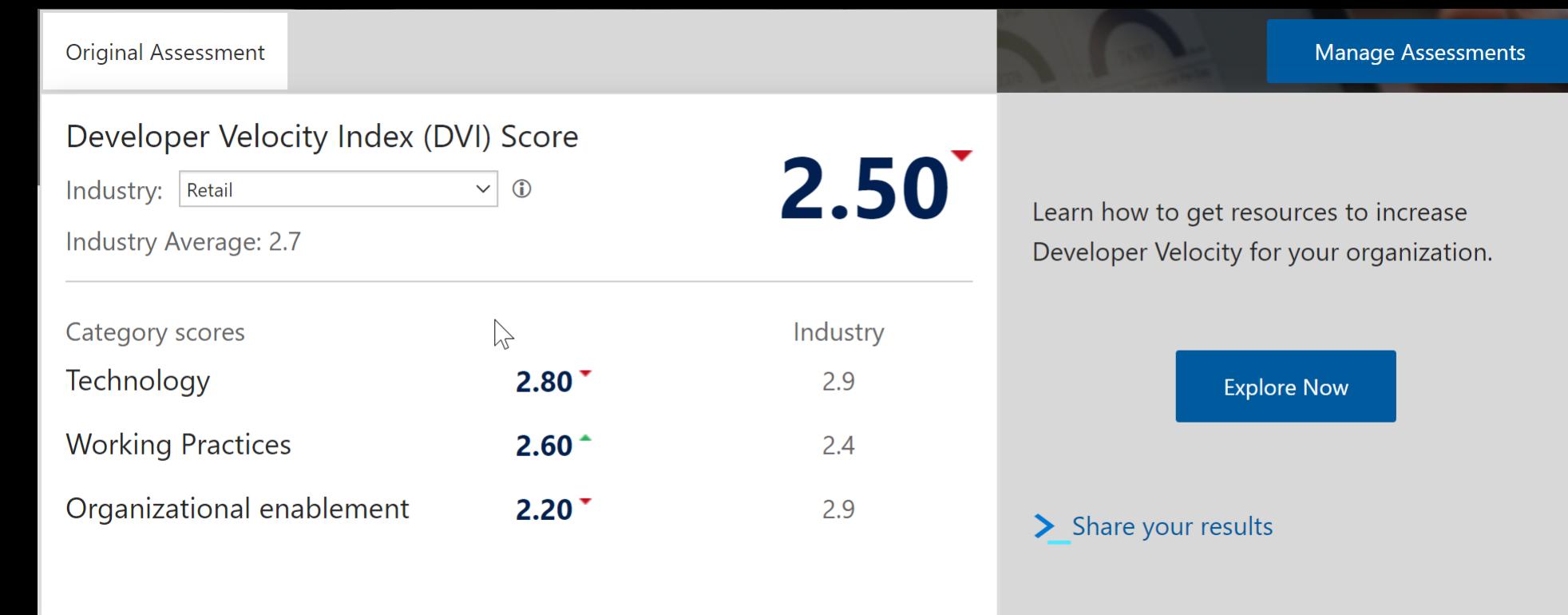
More innovation, led to higher revenue and growth.

The image shows a survey interface with three main sections:

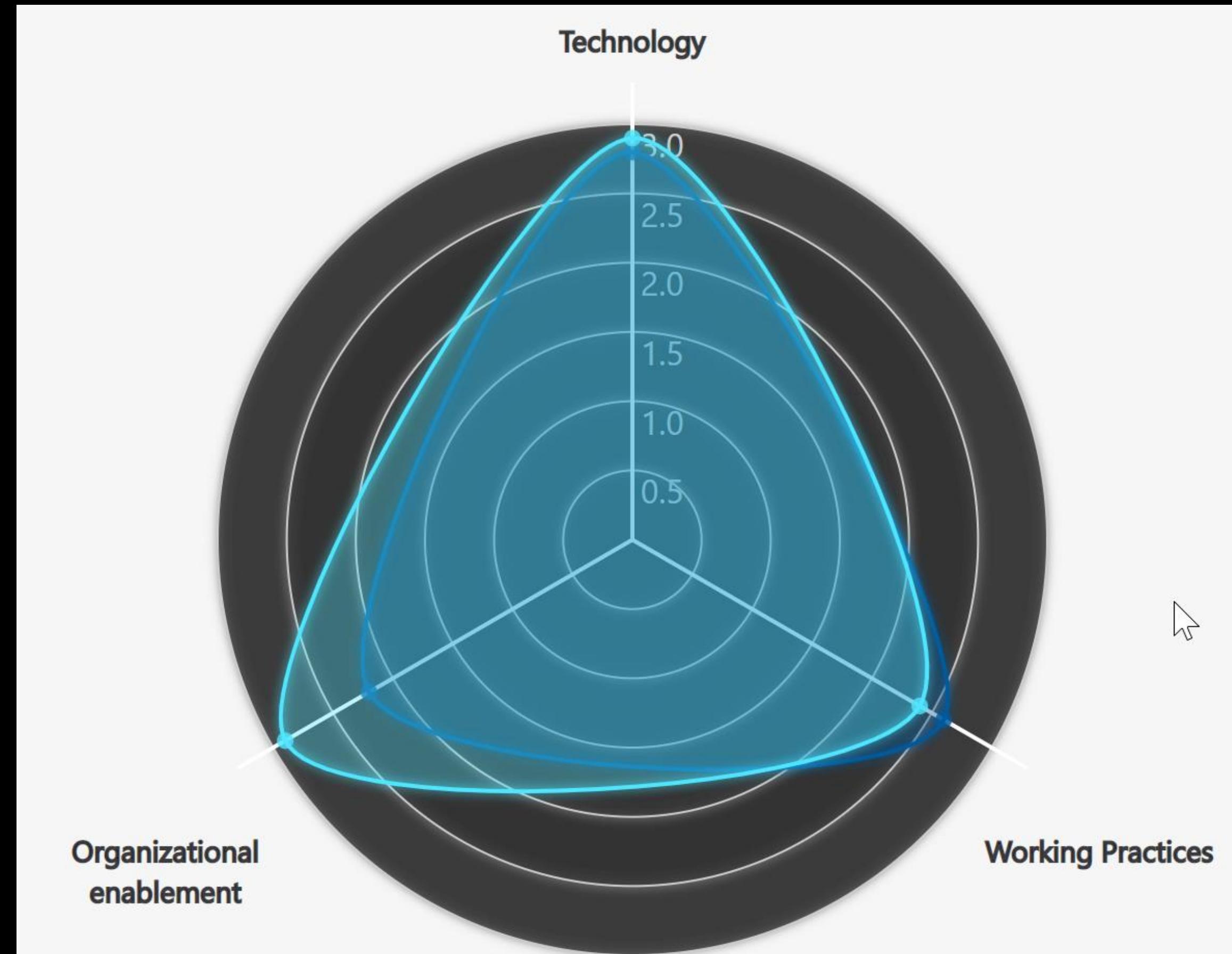
- Architecture**: A question about software architecture directionality. The question asks: "Directionally what % of your organization's applications are using modular and loosely coupled architecture that allows developers to make small changes quickly?". The options are:  0-20%,  21-40%,  41-60%,  61-80%, and  81-100%.
- Organizational agility**: A question about organizational agility practices. The question asks: "On a scale of 1-3, please indicate how often does your organization follow the below practices". The text below the question is partially visible: "Software development funding allocated based on a clear business case and strategic priorities: We use an agile **funding** model (e.g., Budgeting is done for a product on an asynchronous basis) instead of a traditional yearly project-based model (e.g., fixed budget allocated to projects on a yearly basis): Teams can easily address **interdependencies** through clearly defined processes:".
- Engineering Practices**: A section about code reviews. The question asks: "In general, how does code get reviewed?". The options are:  Code is not peer reviewed unless bugs or issues are found,  Only priority code areas are peer reviewed. A defined coding standard exists against which code quality can be measured,  Almost all code is peer reviewed. Reviews are scheduled and tracked manually, and  Almost all code is peer reviewed. Peer reviews are automatically triggered through pull requests using source code management tool.

# Completing the Assessment

**Getting your own DVI, with links to explore your results and share your results**



# Visualize your Position



# Remediation and Next steps

## Included Recommendations

Empowering developers with the latest technologies and tools.

### Talent Characteristics

Score: 2.50

Organizations that enable software teams to experiment, fail, and learn in a safe environment see consistently better results.

[Cloud Adoption Framework Docs - Guide to establish teams >](#)

### Product Management Capabilities

Score: 1.86

Companies with high DVI scores continue to drive an outstanding customer experience due to the right products being the right way. The importance of delivering this kind of experience is why the product-management function has become so critical over the past decade and why these capabilities rank as the third-leading driver of Developer Velocity.



[Cloud Adoption Framework Docs - Guide to Develop a cloud adoption strategy >](#)

### Organizational Agility

Score: 2.33

Companies with high ability to address customer concerns, adapt its funding mechanisms, dependencies and portfolio with a customer first mindset.

[Cloud Adoption Framework Docs - Build a cost-conscious organization >](#)

### Culture

Score: 3.17

Creating a culture that fosters psychological safety, a shared belief that risk-taking in the pursuit of innovative problem-solving is permitted and protected, see consistently better results. Companies with high DVI scores more frequently recognize employees for their achievements, publicly acknowledging individual and team efforts and rewarding outstanding contributions.

[Cloud Adoption Framework Docs - Organizational antipatterns: Silos and fiefdoms >](#)

### Remote work

Score: 0.71

Remote work factors most correlated with high rates of Developer Velocity are well-defined remote working models and adoption of best practices (e.g., focus on mental health, robust remote working tools).

[Create resilience through remote development >](#)

### Talent Management

Score: 2.40

Talent factors most correlated with high rates of Developer Velocity - in addition to the impact of tools on talent outcomes - are incentives, multifaceted recruiting programs, a rich program of ongoing learning, well-defined engineering career paths, and an active measurement of team health.

[Build Talent across your organization >](#)

# Take your Assessment Today!

## Get access to the Developer Velocity Assessment at:

<https://aka.ms/developervelocityassessment>

Or through the Campaign Page

## Sign in and Register:

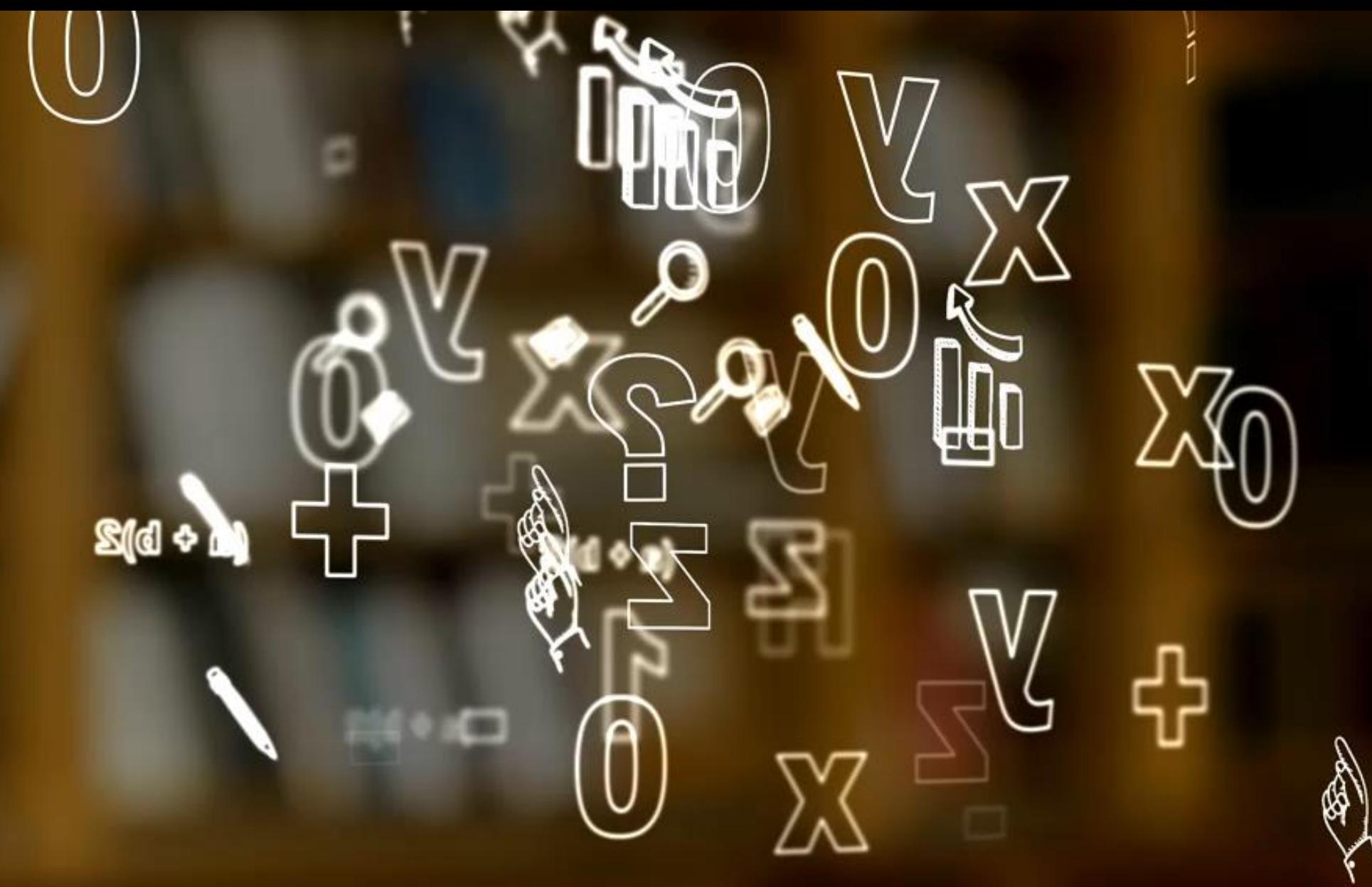
Use a M365 account and fill in the details  
(Company name, Geo, Role at company,  
Industry, Company Size and Division)

## Complete the Assessment and get the DV Report:

There are 3 sections in the assessment:  
Technology, Working Practices and  
Organizational enablement. Allow 15-20  
minutes to go through the questionnaire and  
get your first DV Report.

The collage shows the Microsoft Azure Developer Velocity Assessment process. It starts with the landing page where users can download the report or take the assessment. This leads to a log-in screen using a Microsoft 365 account. Following that is a registration form where users input company information like industry, size, and division. The main report section is shown, which includes three primary areas: Technology, Working practices, and Organizational enablement. Each area has a brief description and a corresponding image. Below these is a summary chart comparing developer velocity scores across different categories and segments over time (May, June, July, August).

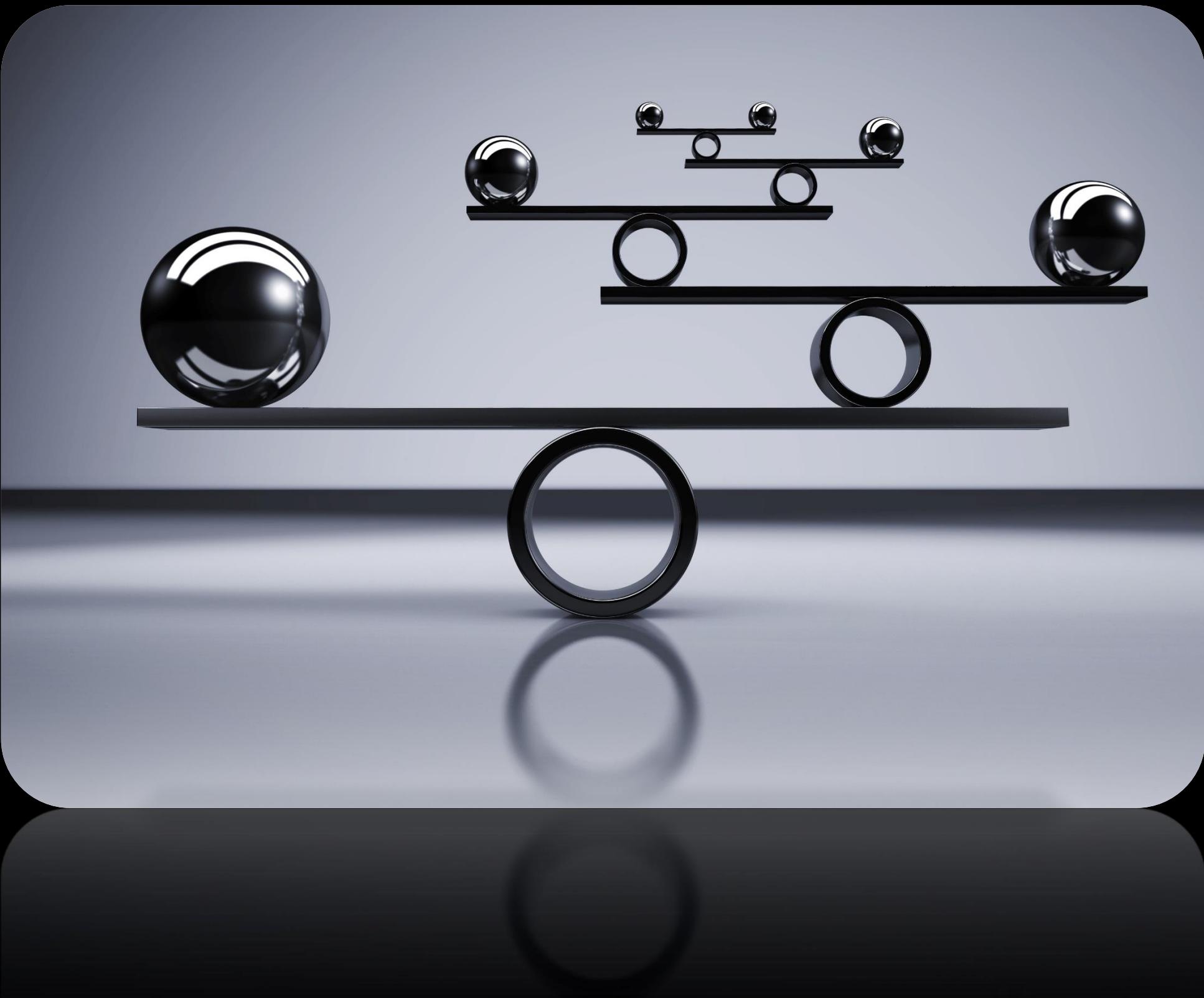
# Case Study



# How has it helped me?

## Client Case Study

- Exposed Enterprise Risk Management opportunity
- Drastically reduced security requirements
- Reduced time to implement new features



# Prairie Dev Con Calgary

## Featured Resources

### DevSecOps principles in the development lifecycle

Webinar on February 9<sup>th</sup> from 11:00am-12:00pm MT

Joylynn Kirui, Senior Cloud Security Advocate, Microsoft

### DevOps Learn-a-thon

Complete self-paced training challenges and earn a chance to win 1 of 5 Air Canada Gift Cards valued at \$1,000 CAD

### Automate your workflow with GitHub Actions

On-demand training to learn how GitHub Actions enables you to automate your software development cycle

Questions? Please reach out to [devca@microsoft.com](mailto:devca@microsoft.com)



[aka.ms/PDCYYC](http://aka.ms/PDCYYC)



# Developer Velocity





Thank you.