



DEVOPS
WORLD

by CloudBees

CDF

DevOps squared – Digital Transformation @ Fidelity Investments!

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About Me

Director of Cloud Engineering at Fidelity Investments.

Chapter Leader for the DevOps Enablement Chapter focusing on cloud migration of ALM (Application Lifecycle Management) tools to cloud, building new platforms, establishing standards and best practices, etc.

Experience as Software Engineer, Solutions Architect, IT Manager, and Director in various companies.

Agenda

- DevSecOps – Security practices integrated into DevOps
- Why is Digital Transformation essential for organizations today?
- DevSecOps & SRE trends across the industry
- Industry predictions for next 5 years and the role of DevOps & SRE
- Why is Fidelity Investments recognized for DevOps Transformation?
- Wrap up!

Digital Transformation – Why is it essential?

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- Every organization is/intends to be technology driven today through a Product operating model
 - There are no more confined boundaries and competition may spring up from anywhere
 - Keeping up with changing market transitions/demands is essential
 - Today's business is all about speed, scale, quality, and security
 - Automation-only approach becomes critical to accelerate realization of business benefits
 - Measure and Manage Reliability and turn your Ops from a cost center to a value center

Key DevOps and SRE trends

Agile and DevSecOps continue to be rapidly embraced across industry

AIOps innovation and adoption make an entry, as much as DataOps

GitOps gains momentum- immutable infrastructure (IaC) is a required thing

Observability, Chaos Engineering, etc at the core of engineering excellence

Hybrid models at the center of everything; more “open” to Opensource everywhere!

Cloud, microservices, containers, serverless, etc are adopted big time

CALMS framework of DevOps & SLO/SLI/SLA, Error Budgets of SRE

VSM (Value Stream Mgmt), (Re)alignment, upskilling & cross skilling of workforce

Right pick of platforms and tools to improve developer productivity and experience

Predictions from Industry Analysts....not too far into future!

AI/ML disrupts everything
and becomes mainstream

Hyper automation

Multi cloud & Edge
architectures

Product-centric teams
based on business
outcomes

Total Experience (TE)

Internet of Behaviors
(IOB)

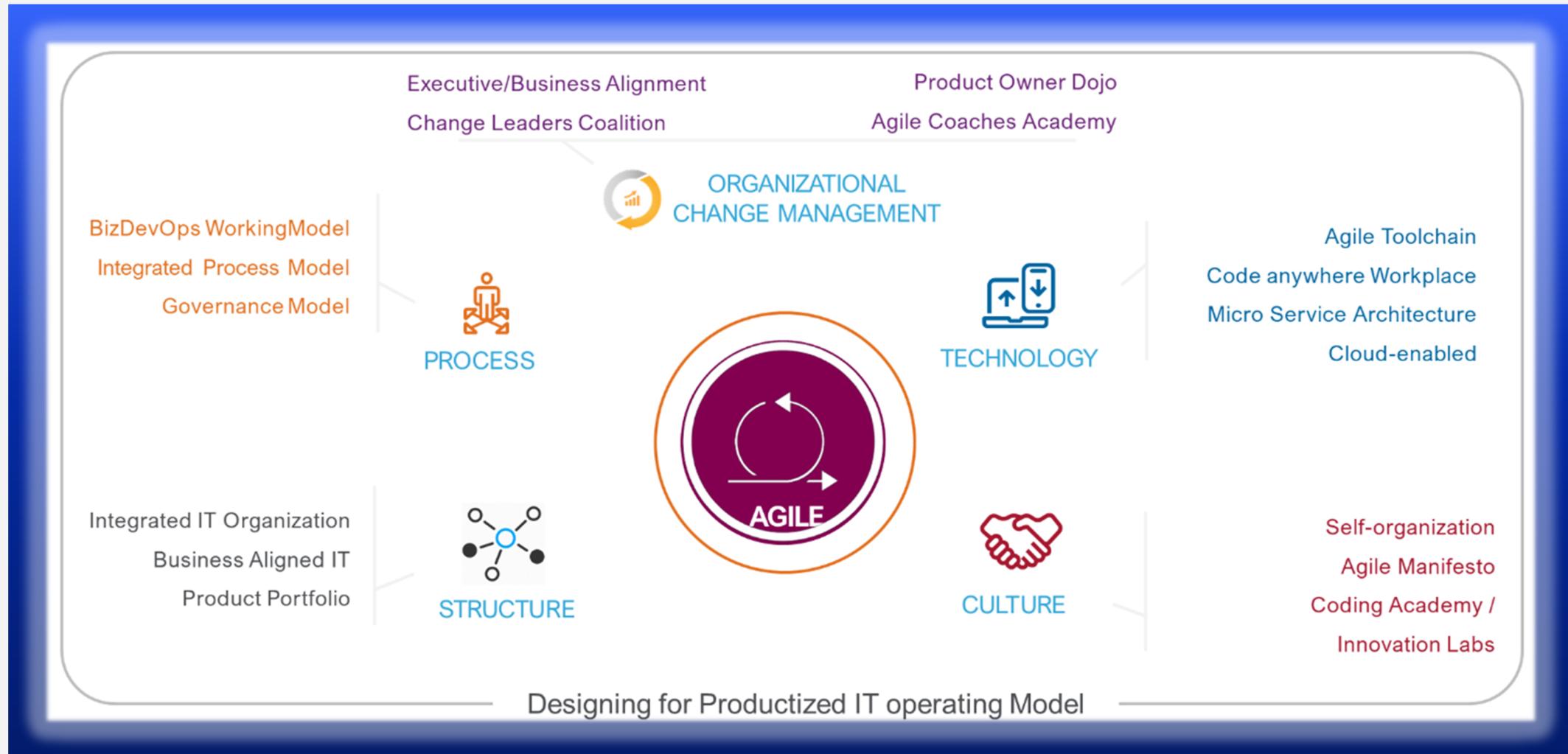
Privacy-enhancing
computation

DevOps & SRE all over!

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Why is Fidelity Investments recognized for DevOps Transformation?

Key Tenets of Digital Transformation



Using Key Principles as Guardrails



Leverage Open Source



Buy vs. Build



Minimal customizations



Self-service capabilities



Everything as a Service with APIs



Everything as code



Full automation



12-Factor App design methodology



Pace over perfection



De-coupled architectures



Use our own capabilities, follow our own best practices, adopt from the industry too



Mentoring and training

Culture pillars

Enabling an open, transparent and inclusive culture

WORK OUT LOUD

Be open and transparent in what we do – from the code we write to the challenges we encounter.

BE CURIOUS

Be relentless in the pursuit of mastery of our craft, experiment and be curious finding new pathways to success.

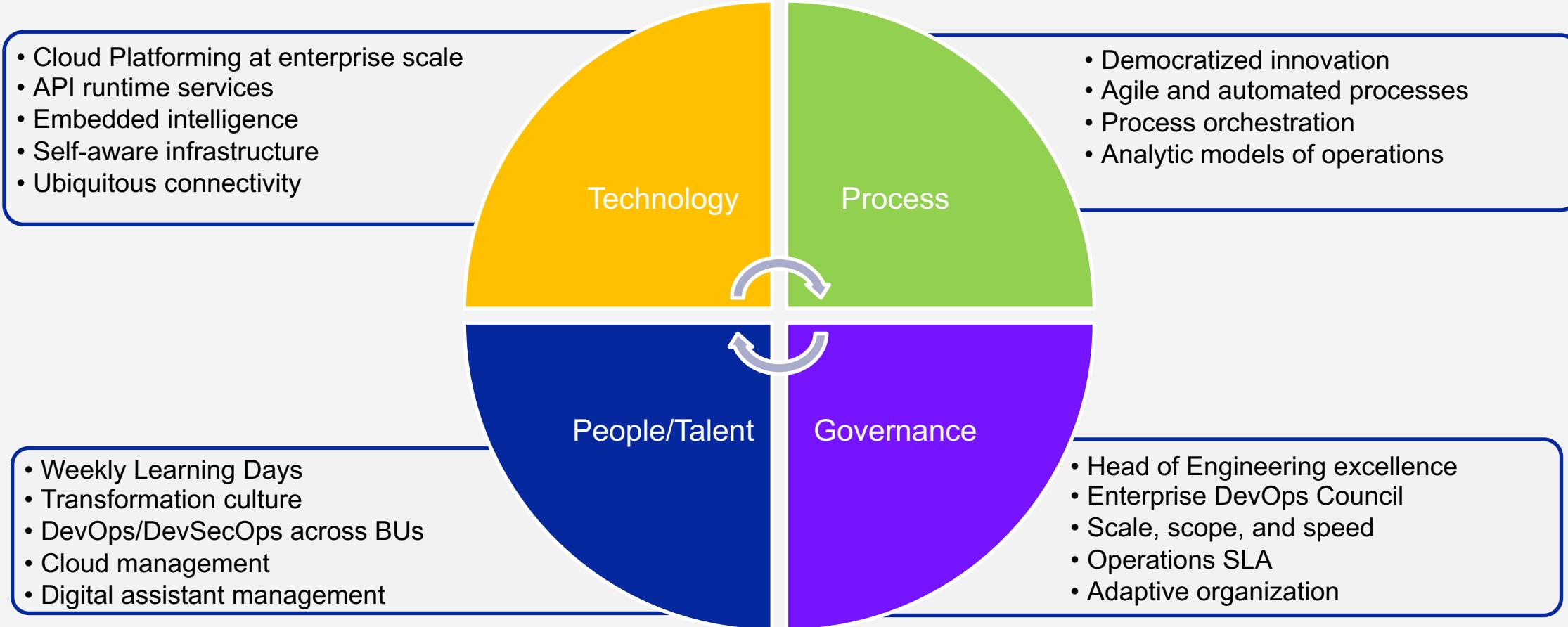
INCLUSIVE

We are all individuals. Celebrate the power of our collective differences and reflect it in the way we work.

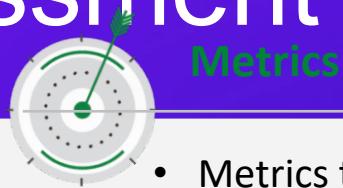
COMMUNITY

Connect endlessly, share knowledge, experiences and challenges . Build lasting connections.

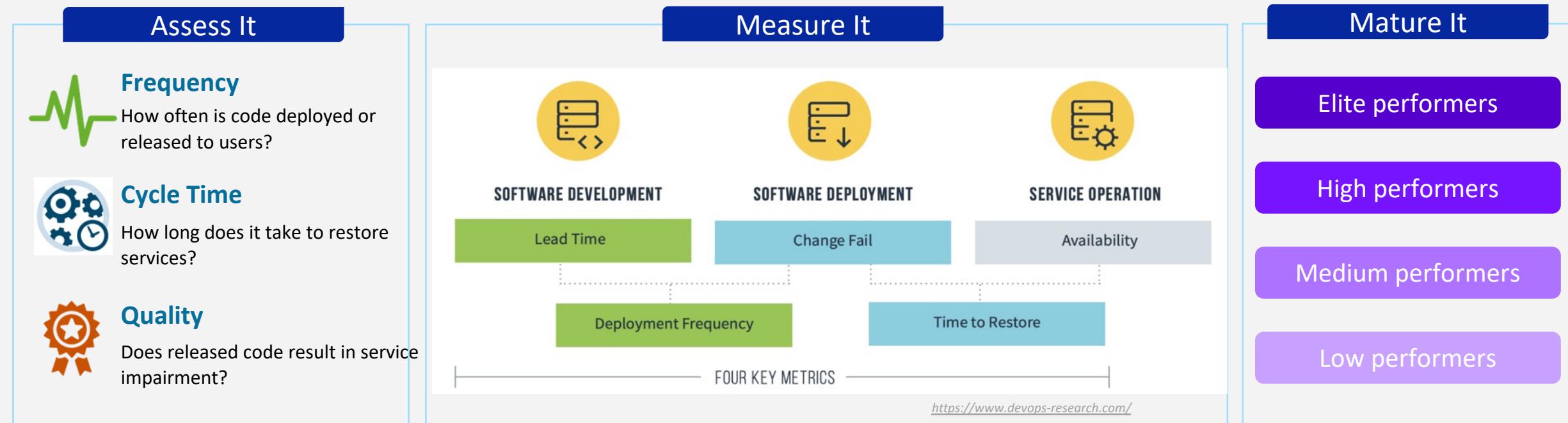
Culture of Innovation



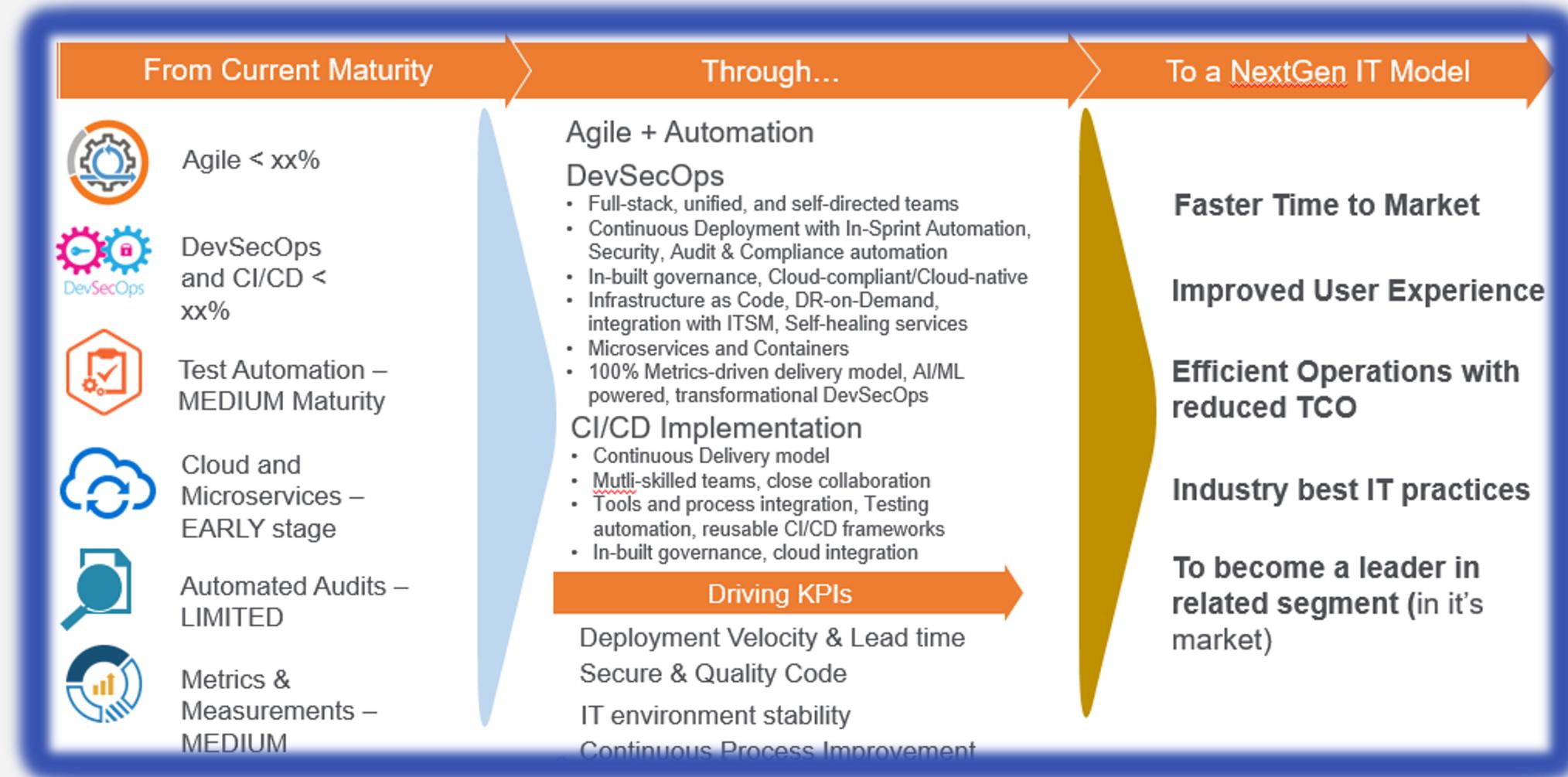
Measuring with DevOps Research and Assessment (DORA) & BU Metrics



- Metrics that matter
- Beyond traditional platform or uptime at the enterprise
- View from our BU team and what value they experience
- Technology → Business value



KPIs and Benchmarking (for reference only)



Act or Accelerate NOW... else

I WISH I KNEW IT
EARLIER!



Thank you!

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