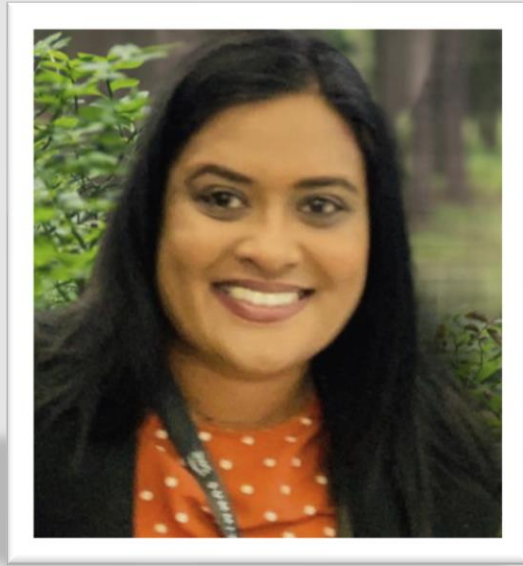# The Art of Practices

...what happens when the tester gets hold of the paintbrush

Natasha Anderson
Practice Lead: Software Engineering

About Me
What I do
Why I love it

Software Engineering Practices

Our Creative Interpretation

Image: https://www.pexels.com/

What is a Practice responsible for?

Data Driven Insights

Developing metrics and measures for engineering

Future-Proofed our Workforce

Attracting and growing talented engineers across the continent

Engineering Improvement

Driving improvement of methods, tools and techniques based on lean and agile

Learning Organization

Driving continuous learning by creating space and platforms for Engineers to share and learn

Peter Senge

"The only sustainable competitive advantage is your organisation's ability to learn faster than the competition."

Marc R. Benioff

"Speed is the new currency of business."

Engineering Practices

Exam Question:

How can **Software Engineering** become our **Competitive Advantage?**

Making the Shift to Continuous

From:

To:

- Feature Delivery → Value Delivery
- Service Providers → Co-Innovators
- Limited Visibility of Metrics & Health → End to end visualisation of Engineering Metrics
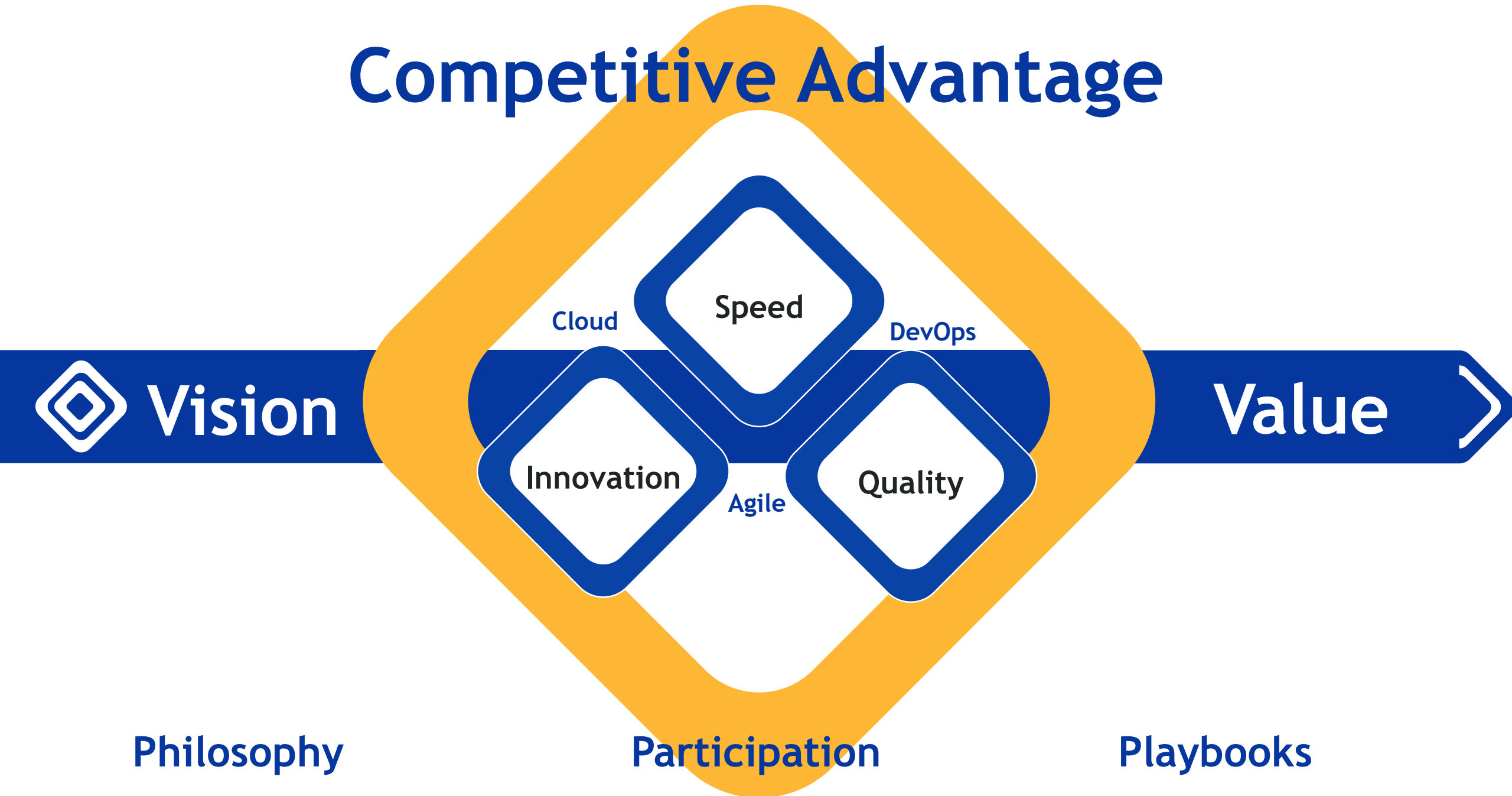- 'Fractured' Engineering Community → One Aspirational Engineering Identity
- Followers of the Global Industry → Active Global Industry Contributors & Thought Leaders

Competitive Advantage

Vision

Value

Speed

Cloud

DevOps

Innovation

Agile

Quality

Philosophy

Participation

Playbooks

The Engineering Practice **Approach** & 'System'

Philosophy
- Continuous Everything
- You Build it, You Run it!
- Quality is Everyone's Responsibility
- Automate All Things
- Learn, Experiment, Grow... Repeat

Participation
- Coach Teams
- Influence Industry
- Develop Thought Leaders
- Contribute to Open Source
- Publish Whitepapers
- Participate in Guilds & Soapboxes

Playbooks
- Policies & Standards
- Shared KPI's
- Guidelines
- Technical Frameworks
- Tooling
- Training
- Engineering Maturity
- Health Indicators
- Recruitment & Onboarding

Engineering Metrics & Tools

Our Practices
- Software Engineering
- Knowledge Management
- RTE/Scrum
- Site Reliability Engineering
- Engineering Tools

Metrics and Dashboards

Are we getting better?

Playbooks

SRE
DevOps

Learning and Development

Maturity Assessments

Identify Areas for Improvement

Improvement Roadmaps and Plans

Engineering Practices Toolbox

Engineering Coach Or Self Service

9

Software Engineering Practices

Our Lessons Learnt

Image: https://www.pexels.com/

**Culture is the Canvas
for creating your Engineering Masterpiece**

Image: https://www.pexels.com/

Artist: John Adams

BEN CURTIS/AP

Leadership

Learning

Safety

When you Master
your craft,
you can create
Magic anywhere

Parting thoughts...

- As a Leader, its our job to make sure that there is a sparkle in the eyes of our people.

- There has been no better time for Engineering to rise up and take your teams an organizations to a new level. Leverage tech, use open source, report on metrics that matter.

- Keep expanding your skills and restocking on your supplies through your network, your learning and your curiosity.

Leonardo Da Vinci combined art and science and aesthetics and engineering, that kind of unity is needed once again.

— Ben Shneiderman —

Thank You