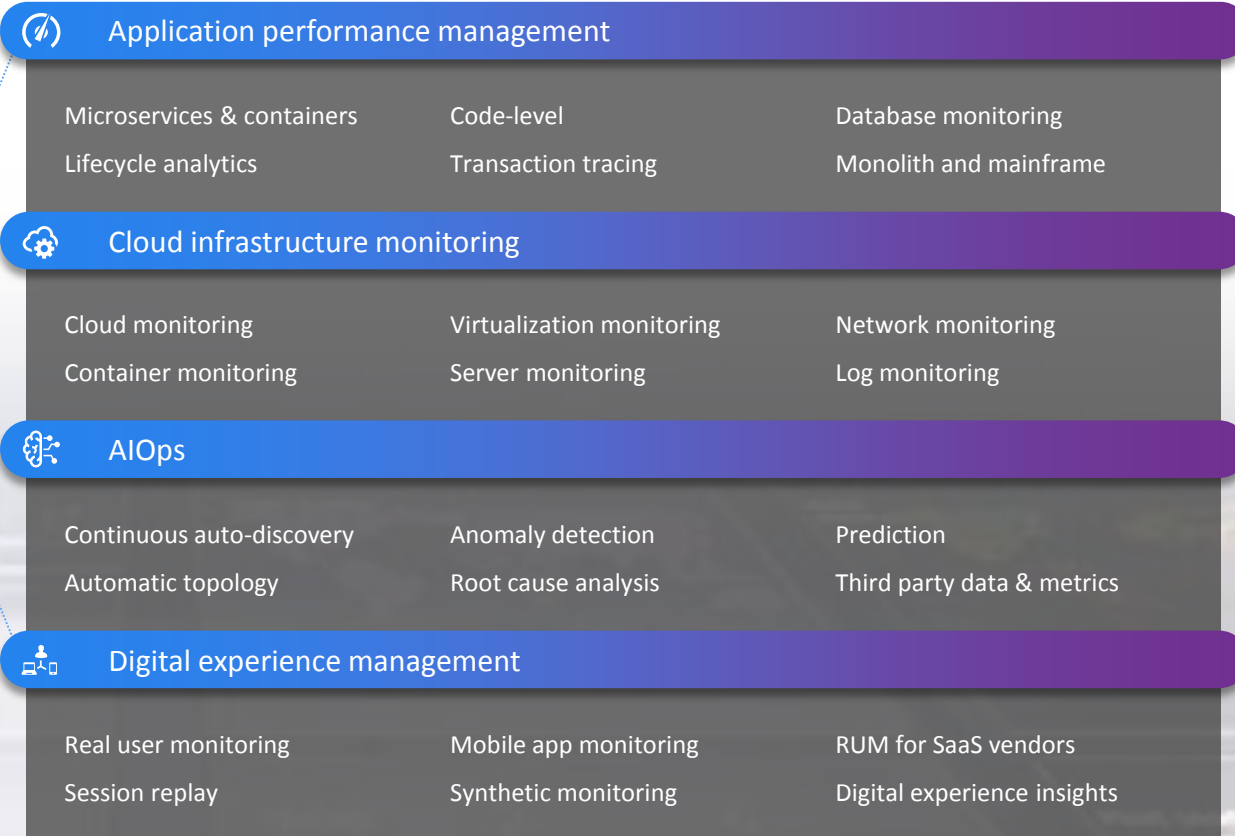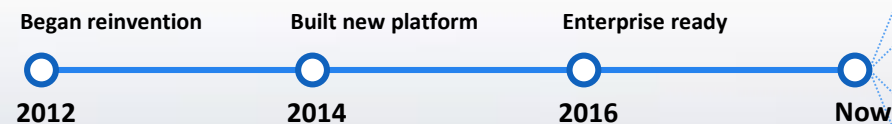We are going into the fourth industrial revolution and facing "transformation" unlike anything humankind has experienced before.

Klaus Schwab,
Head of World Economic Forum

Reinventing Dynatrace

We saw this coming…

Began reinvention
Built new platform
Enterprise ready

2012 ─── **2014** ─── **2016** ─── **Now**

Application performance management

| Microservices & containers | Code-level | Database monitoring |
| Lifecycle analytics | Transaction tracing | Monolith and mainframe |

Cloud infrastructure monitoring

| Cloud monitoring | Virtualization monitoring | Network monitoring |
| Container monitoring | Server monitoring | Log monitoring |

AIOps

| Continuous auto-discovery | Anomaly detection | Prediction |
| Automatic topology | Root cause analysis | Third party data & metrics |

Digital experience management

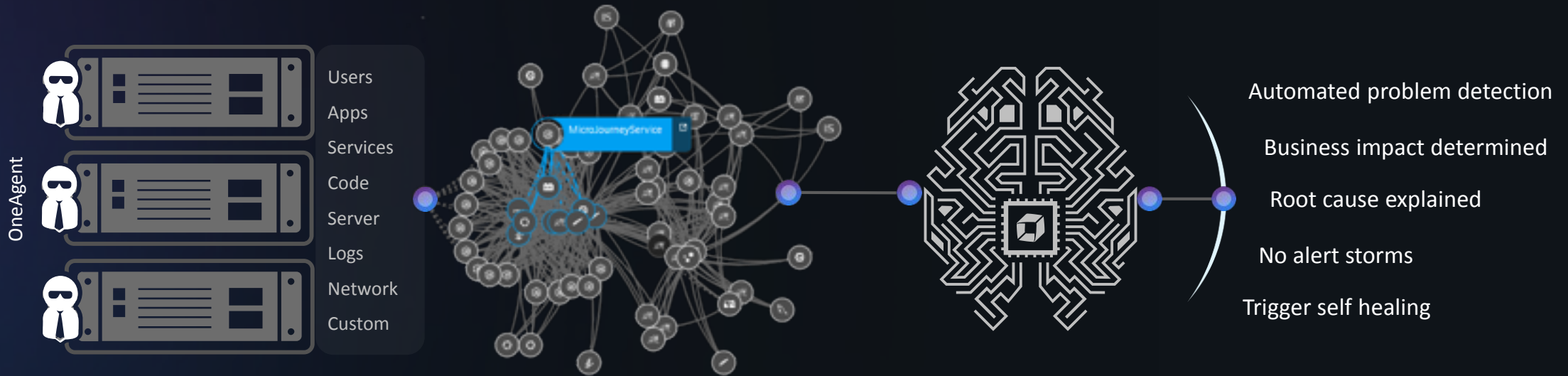| Real user monitoring | Mobile app monitoring | RUM for SaaS vendors |
| Session replay | Synthetic monitoring | Digital experience insights |

All-in-one software intelligence platform.

Better data makes Dynatrace A.I. and massive automation possible

| High fidelity data | Mapped end-to-end | Deterministic AI | Answers + Action |

OneAgent

Users
Apps
Services
Code
Server
Logs
Network
Custom

MicroJourneyService

Automated problem detection

Business impact determined

Root cause explained

No alert storms

Trigger self healing

Completely automated

The world needs software to work perfectly

Davis is monitoring how many dependencies per problem?

Davis analyzed
209,492,640,819,000 dependencies

Deterministic AI performs a step-by-step fault tree analysis as is common in safety engineering.
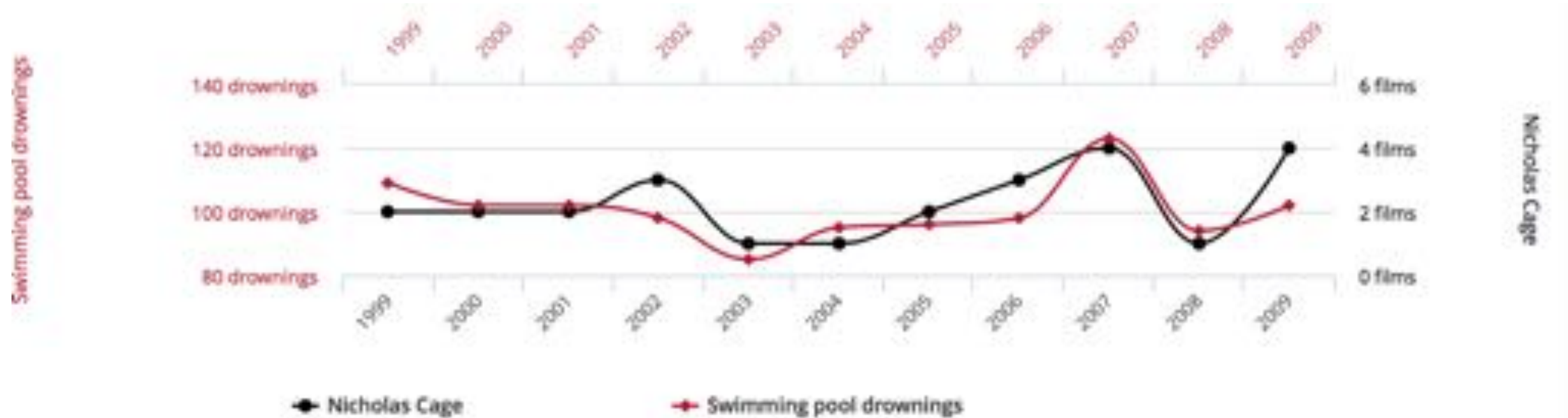
Machine learning AI is a statistical approach that correlates metrics, events, and alerts to build a multi-dimensional model of the analyzed system.
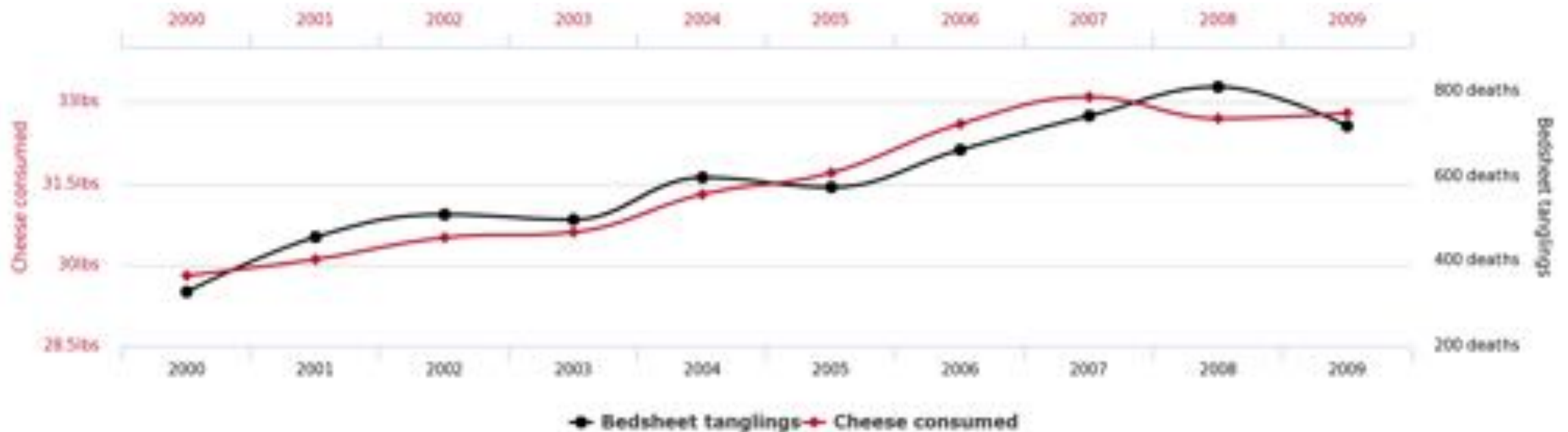
Correlation vs Causation

Per capita cheese consumption
Correlates with
Number of people who died by becoming tangled in their bedsheets

It's personal

"Dynatrace helps me, and my team, sleep at night. When everyone is struggling to do more with less, Dynatrace picks up the slack, and enables my team to have a better work/life balance."

barbri

Keeping DevOps cool in a heated environment

- November 2018, Woolsey fire, considered worst wildfire to hit S. California in modern history.
    - Consumed over 150 sq miles of canyons, homes, and businesses.
    - Displaced over ¼ million residents, burning for 2 weeks.

- When thousands of lives are at risk, software infrastructure can make the difference between life and death.
    - Traceability, scalability, and reliability are crucial aspects of a cloud strategy
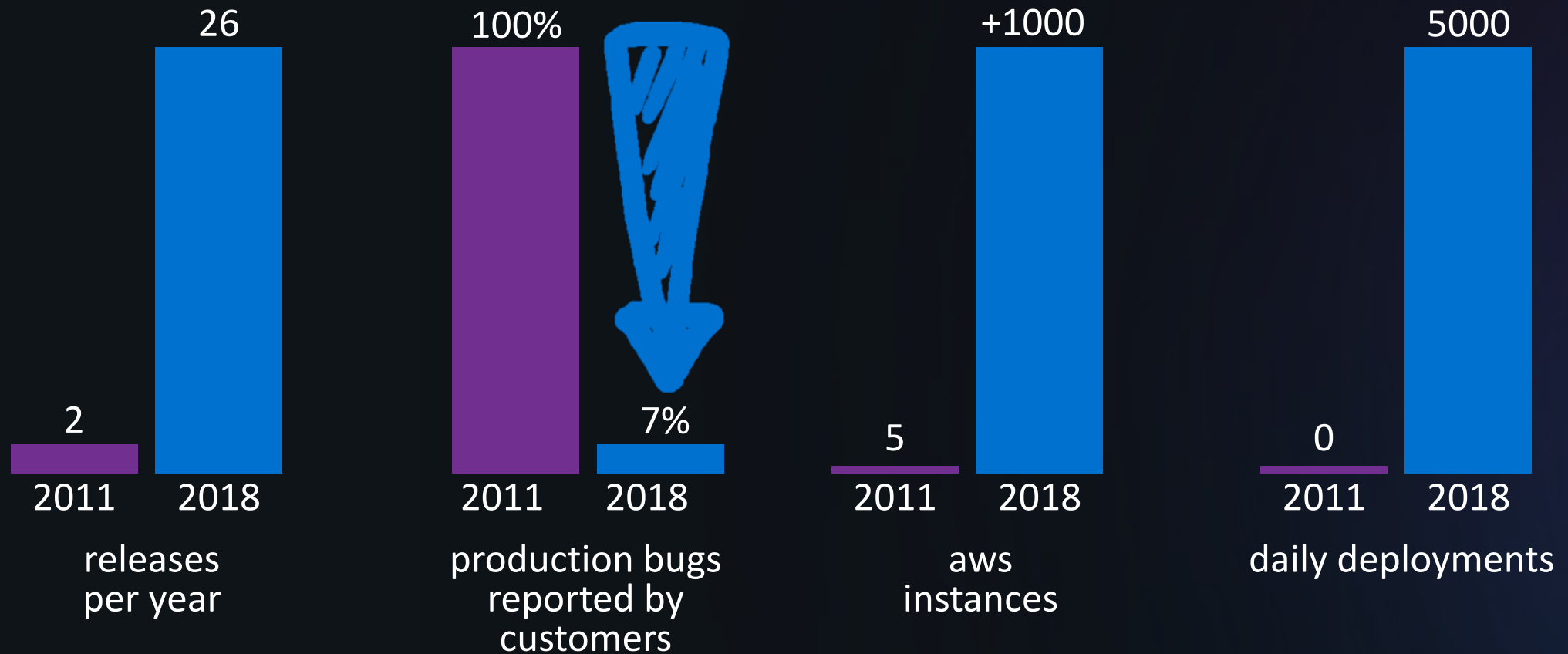
Automate with confidence

Bringing the Dynatrace culture to the world

26	100%	+1000	5000

releases per year: 2 (2011) → 26 (2018)

production bugs reported by customers: 100% (2011) → 7% (2018)

aws instances: 5 (2011) → +1000 (2018)

daily deployments: 0 (2011) → 5000 (2018)

Dynatrace transformed Autonomous Cloud Operations

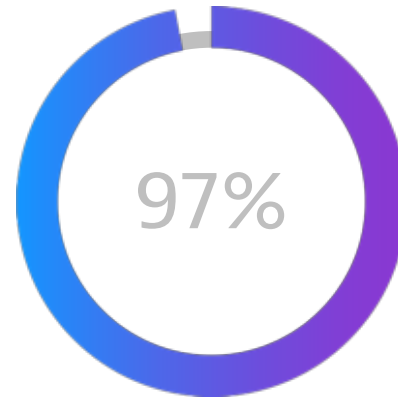For Development, Operations, Business

ACM focuses on delivering software better, faster, and more frequently.

Better

75%
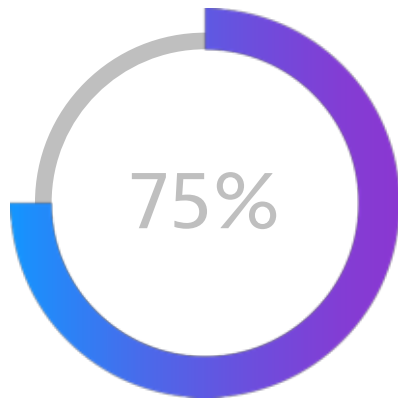
fewer production incidents

Faster

97%

reduction in deployment lead time

More frequent

8 ➡ 26

releases per year

Top Customer challenges

Consolidate tools and automate monitoring

2.5 weeks average time from change to production

Moving towards Cloud-Native DevOps

3 out of 10 deployments contained errors and affected users

Integrating into application lifecycle ecosystem

On average 10 hours until production issues are assigned to a developer

Automating operational tasks

Average MTTR is almost 5 days

Get applications ready to manage themselves
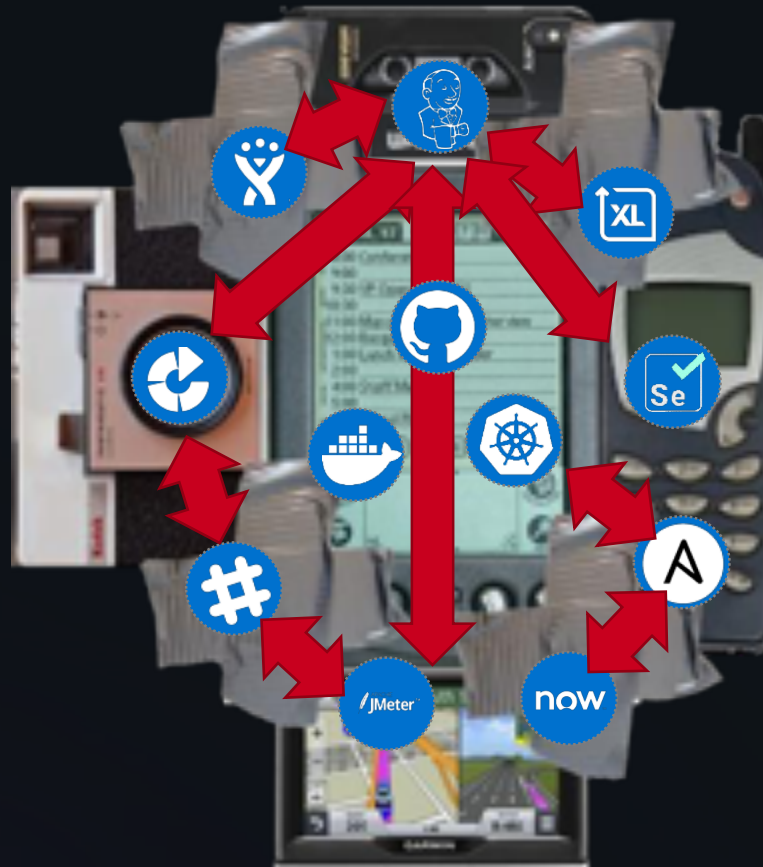
Average hotfix time for an application is almost 5 days
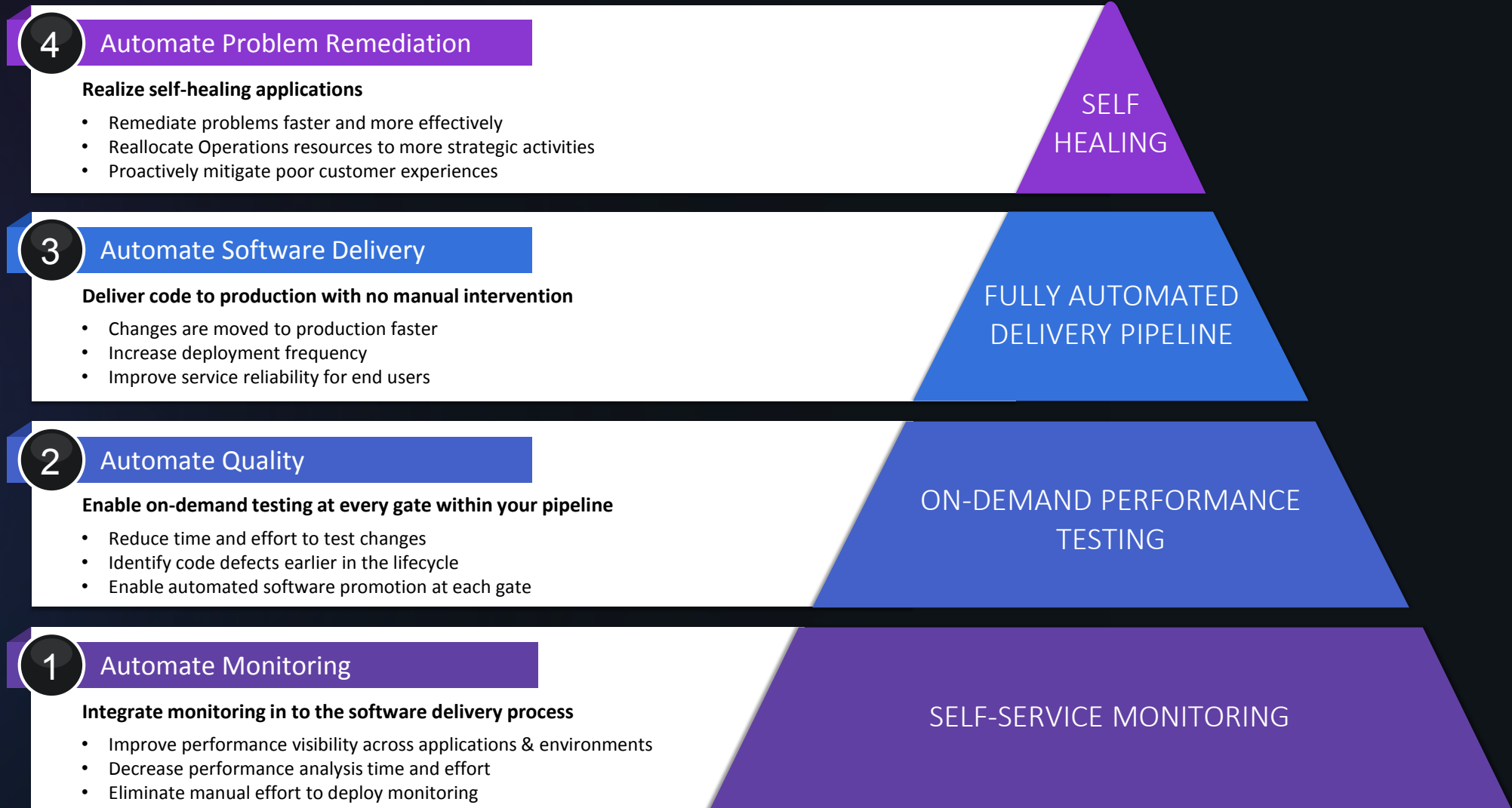
Running applications autonomously

7 out of 10 issues are handled manually today

What we have seen organizations actually do!

- Building Custom Integrations with OpenSource & Commercial tools for

  - Deployment Pipelines

  - Testing Pipelines

  - Auto-Remediation

  - Notifications

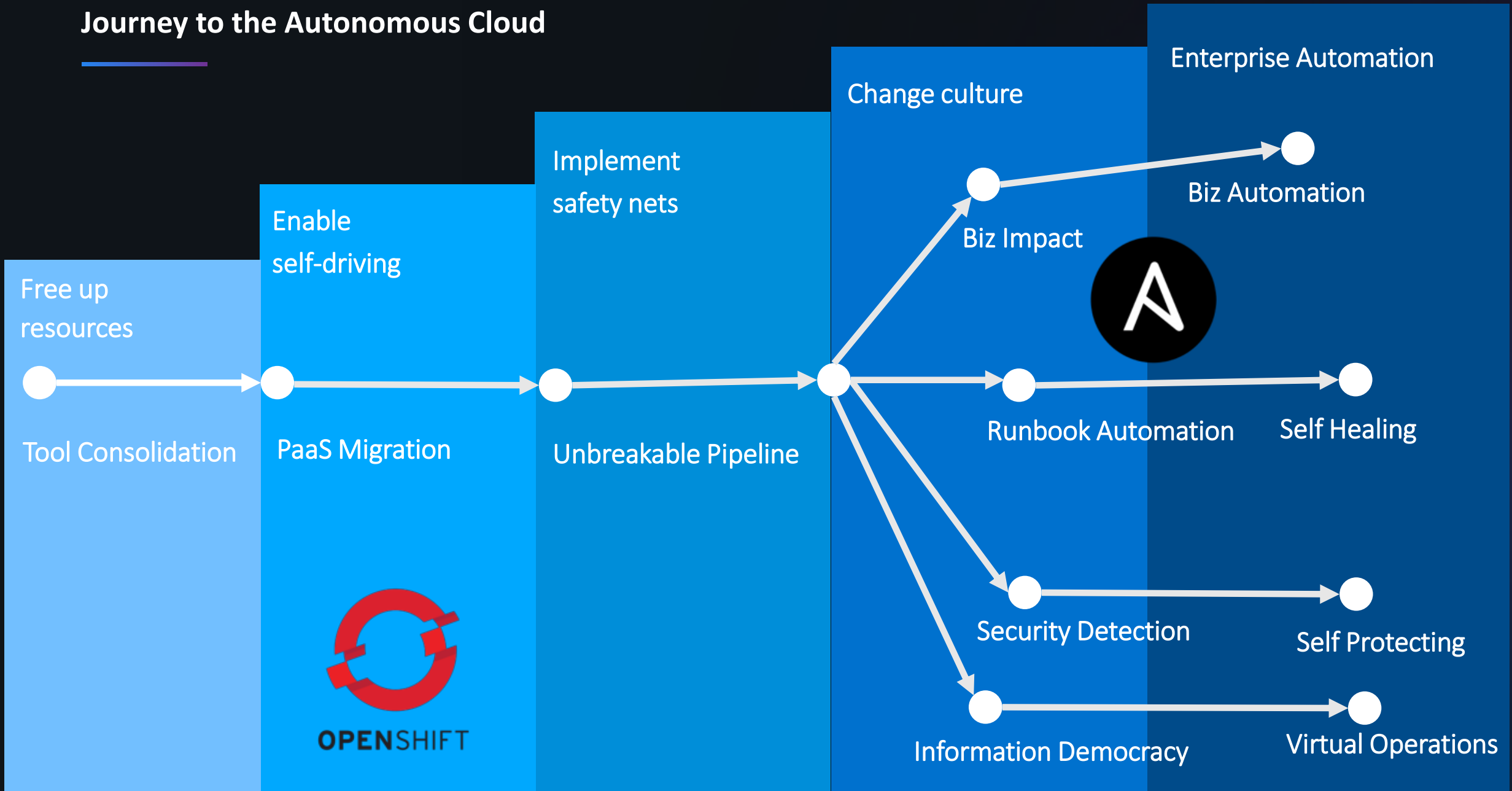 - Auditing

The ACM Methodology

4 Automate Problem Remediation

Realize self-healing applications

- Remediate problems faster and more effectively
- Reallocate Operations resources to more strategic activities
- Proactively mitigate poor customer experiences

SELF HEALING

3 Automate Software Delivery

Deliver code to production with no manual intervention

- Changes are moved to production faster
- Increase deployment frequency
- Improve service reliability for end users

FULLY AUTOMATED DELIVERY PIPELINE

2 Automate Quality

Enable on-demand testing at every gate within your pipeline

- Reduce time and effort to test changes
- Identify code defects earlier in the lifecycle
- Enable automated software promotion at each gate

ON-DEMAND PERFORMANCE TESTING

1 Automate Monitoring

Integrate monitoring in to the software delivery process

- Improve performance visibility across applications & environments
- Decrease performance analysis time and effort
- Eliminate manual effort to deploy monitoring

SELF-SERVICE MONITORING

Journey to the Autonomous Cloud

Free up resources

Tool Consolidation

Enable self-driving

PaaS Migration

OPENSHIFT

Implement safety nets

Unbreakable Pipeline

Change culture

Biz Impact

Runbook Automation

Security Detection

Information Democracy

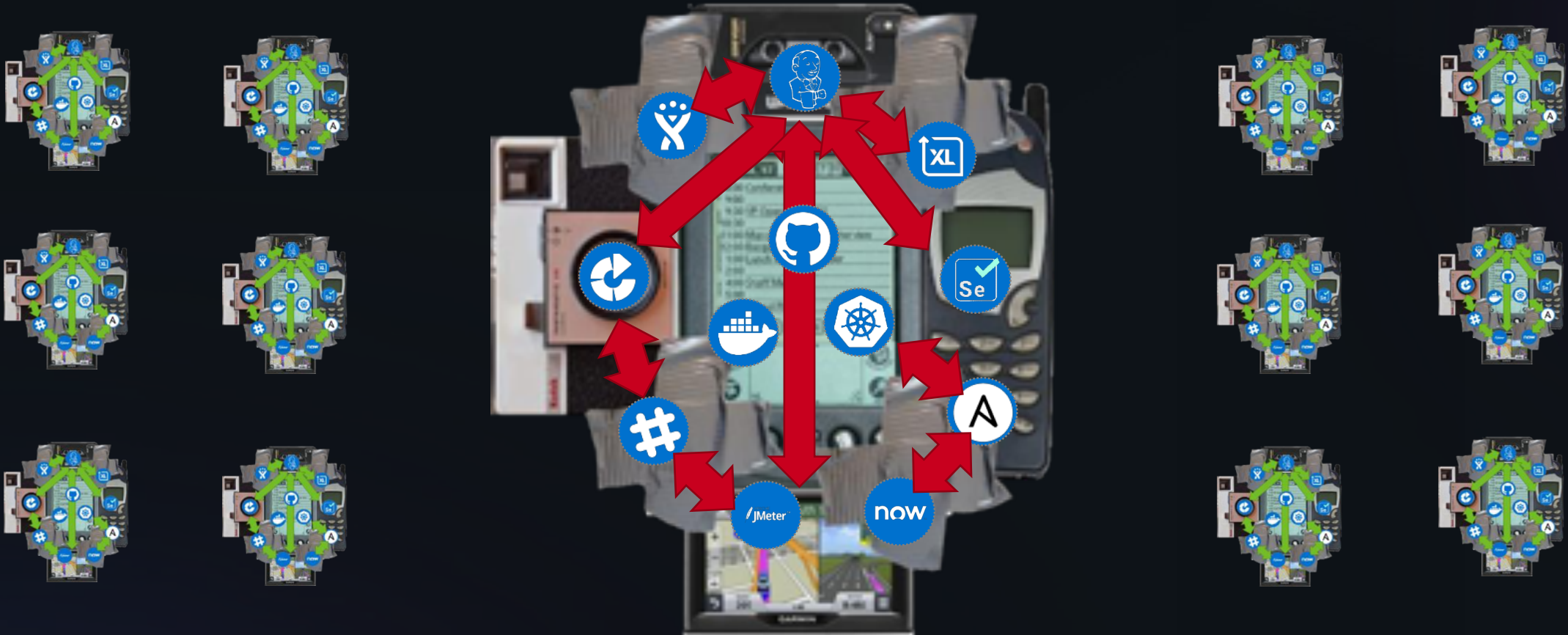Enterprise Automation

Biz Automation

Self Healing

Self Protecting

Virtual Operations

First: keptn solves the Continuous Delivery Problem!

Quote:

"Pipelines seem to be becoming our new future unmanageable legacy code!"

Designed for modern applications

GitOps-based collaboration

All keptn workflows are based on the GitOps paradigm.

Operator patterns for all logic components

Logic components can be reused for other operational tasks.

Monitoring and operations as code

Developer-friendly definition of monitoring and operational tasks.

Built on and for Kubernetes

Built for modern cloud-native environments.

Event-driven and serverless
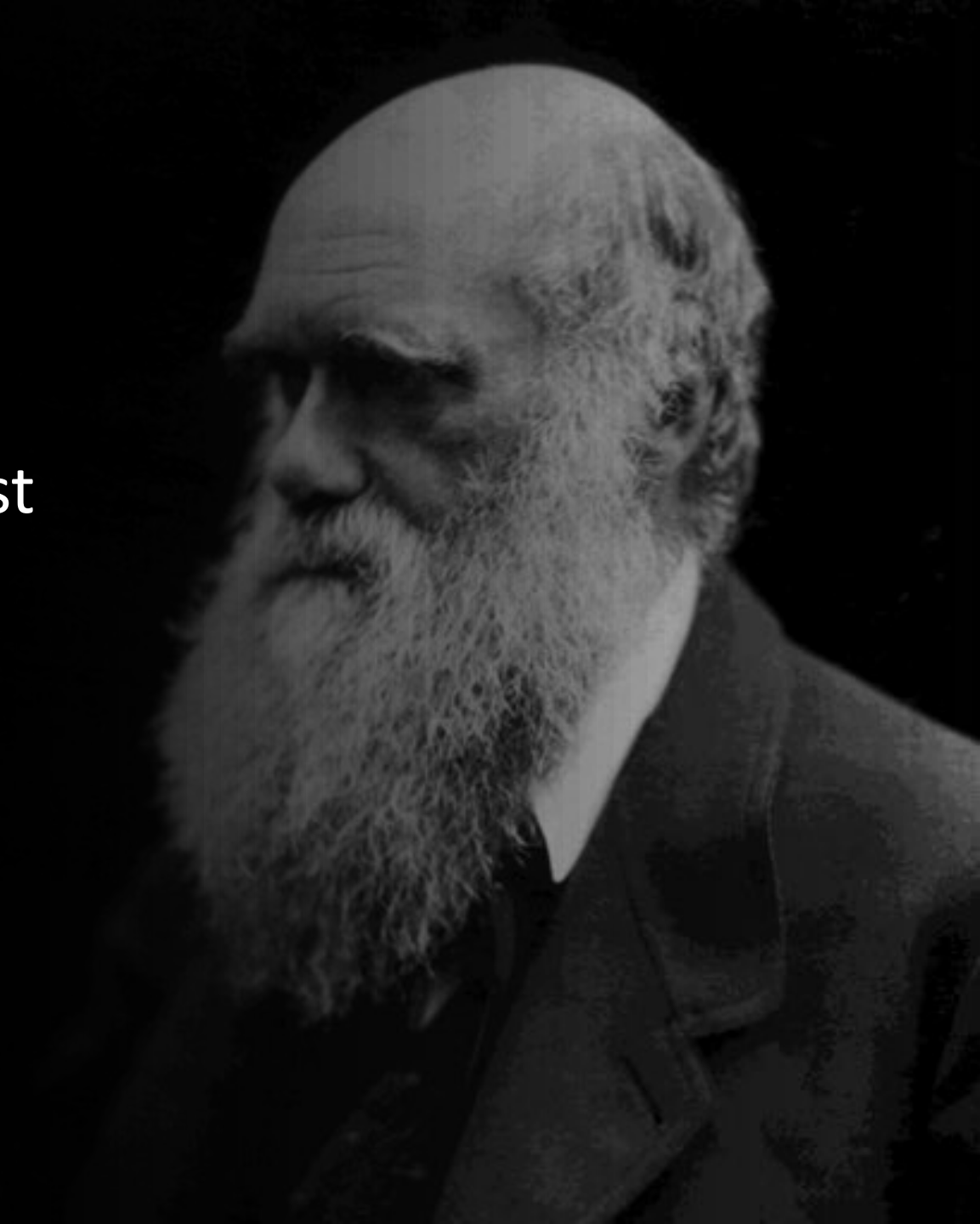
Powerful with a minimal resource footprint.

Pluggable tooling

All tools leveraged by keptn can be replaced based on your tool preferences.

"It is not the strongest of the species that survives, nor the most intelligent, but the one most responsive to *change*."

- Charles Darwin, 1809

Think you know Dynatrace? Think again.

600+ engineers in R&D make it all possible

66% more than nearest competitor

New releases every 2 weeks

26 releases per year

A trusted leader

9 year leader in Gartner MQ

#1 market share leader

Trusted by 72 out of the Fortune 100

Get ready to be amazed in 5 minutes or less

dynatrace.com/trial

Come meet us for a Live demo

OpenShift Primed Partner

Pivotal
Technology partner

Docker Certified

AWS Advanced Technology Partner

Azure Partner