

Achieving Ops-Led Development Through Al-Driven Observability

Adam Frank, VP Product & Design Moogsoft

October 15, 2020



Speaker Intro

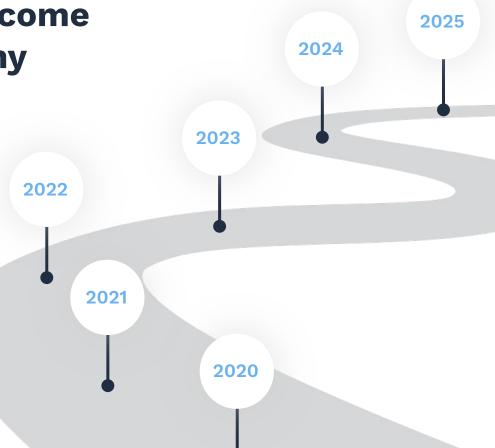
Adam Frank has been with Moogsoft for three years and currently leads the product and design teams. He has brought insights from a user perspective to focus on making better user experience, simple messaging, ease of use and self-service, each a focus of Moogsoft's latest platform advancements. He has also led the company's push to a cloud-native and SaaS-first model.



Every company has become a software company

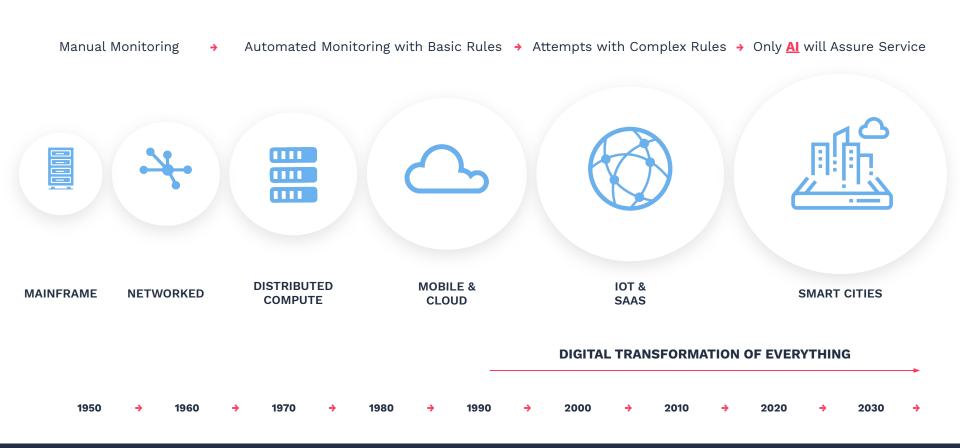
All software requires continuous operation and innovation.

- Continuous customer value is a Board level priority.
- Intelligent Observability is uniquely positioned to provide self-learning, self-adapting and self-healing capabilities.





Complexity and Dependency is Increasing Exponentially...



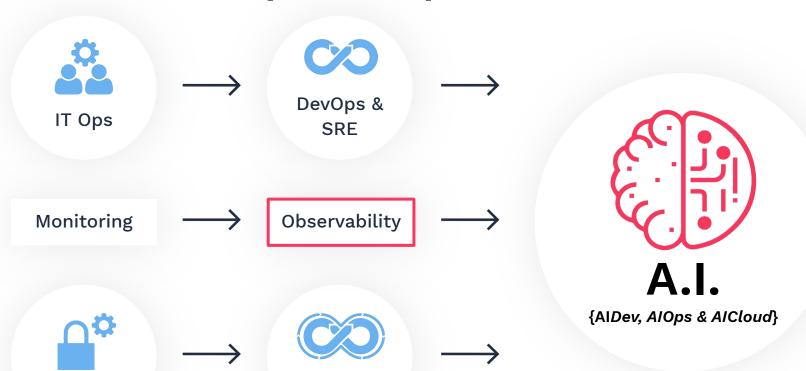
The Tail of Toil, and Reducing It

How introducing visibility and control over incidents earlier in the development cycle can reduce toil

... Causing Productivity & Agility to Diminish



IT Development & Operations Evolution

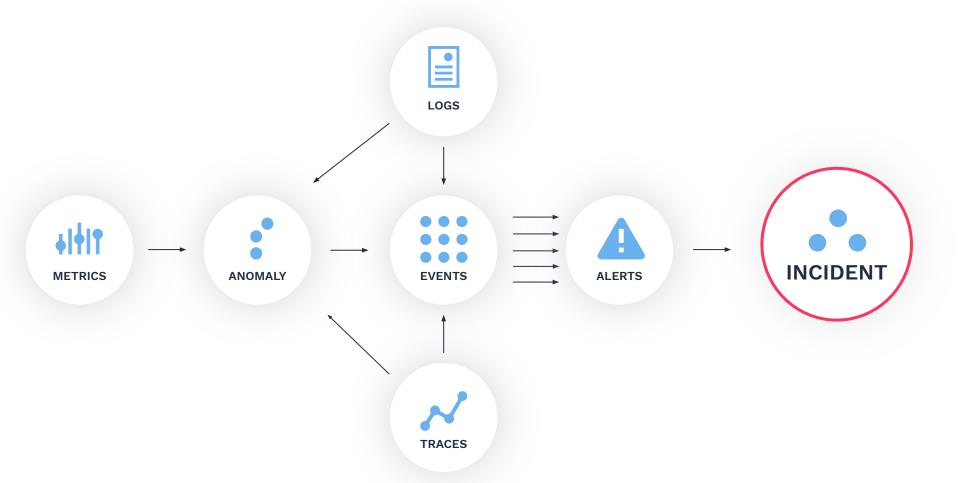


DevSecOps

SecOps



Telemetry Everywhere





LOGS

Purpose written messages (error 123 occured)







TRACES

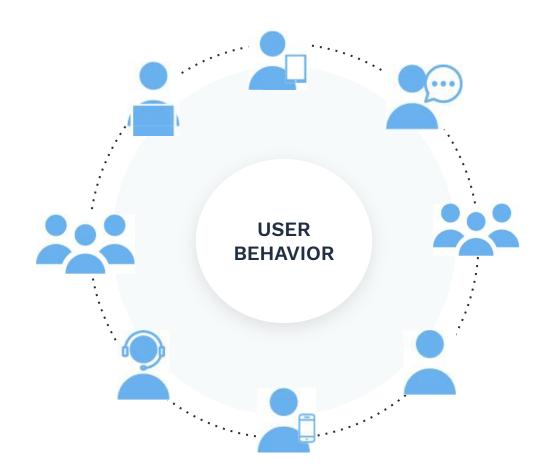
Connecting source to destination (point A to point B)







Time-series data (timestamp + numerical value)





Time of Day, Week, Month, Year

Reacting

Modifications

Status of Other Work

Recent Changes

Observations from Others

Correcting

User Sentiment

World Influences (Local | Global)

Diagnosing

New Dependencies

Anticipate

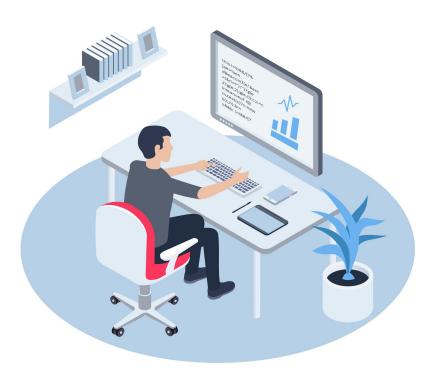
Investigation

ION





Observability Puts Developers in the Driver Seat



- Code features, functionality, and telemetry as a practice
- Emit metrics, logs and trace data
- Automatically discover and collect telemetry data with code pushes
- No updates needed to your observability solution
- Becomes part of your test cases and automated quality value assurance
- ..

Putting Better Ops in DevOps

Leverage A.I. and the 'wisdom of production' to improve the Ops part of DevOps.

A.I. Driven Observability

OBSERVABILITY

A.I.

NOISE!
EXPENSIVE DATA LAKES
MANUAL DIAGNOSTICS
NO CONTEXT

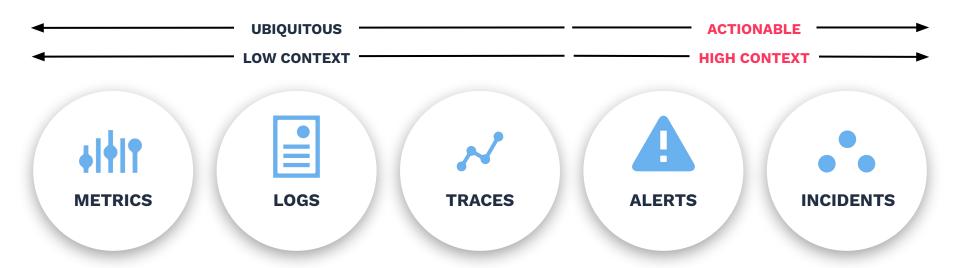
OBSERVABILITY

+

A.I.

CLOSED LOOP AUTONOMOUS ACTIONABLE HIGH CONTEXT INSIGHTFUL

Observe & Monitor Digital Complexity



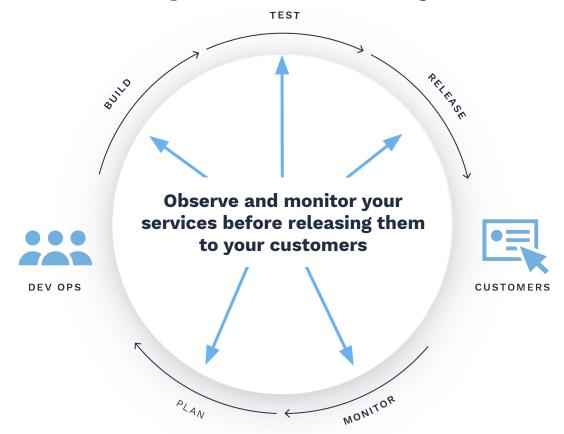
Valuable & Consumable A.I.

Reduce _____ Correlation — → Causality



Anomalies	Significance	Time	Text	Topology	Impact	Feedback	Probable Root Cause	Similarity
Anomalous Deviations	Alert Significance	Timestamp Patterns	Text Value Similarities	Network Proximity Patterns	Critical Node	Learnings from User Behavior	Root Cause Identification	Similar Past and Current Situations

Improve Reliability



Increase Visibility & Improve Uptime



Discover and ingest raw time-series metric data at the source



Establish normal operating behaviors to generate anomaly events for abnormal behaviors



Ingest events and alarms from all your monitoring tools



Discover patterns and relationships in the anomalies and events to correlate them together

Automate monitoring observability data using AI

Enable Agility & Innovation



Actionable insights from analysing multiple streams of data in real time



Remove handoffs between teams and embrace "We build it, we own it"



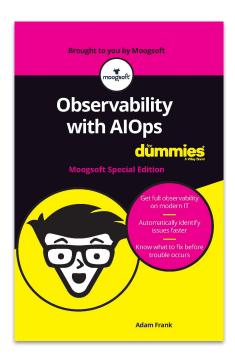
Accelerate root cause analysis



Forecast normal operating behavior for pre-emptive warning

Focus on your customers' experience

Want to know More? Read my Book!



moogsoft.com/dummies



THANK YOU!

Meet me in the Network Chat Lounge for questions



Learn more at moogsoft.com

