Measuring Flow

Enabling scientific approach to DevOps

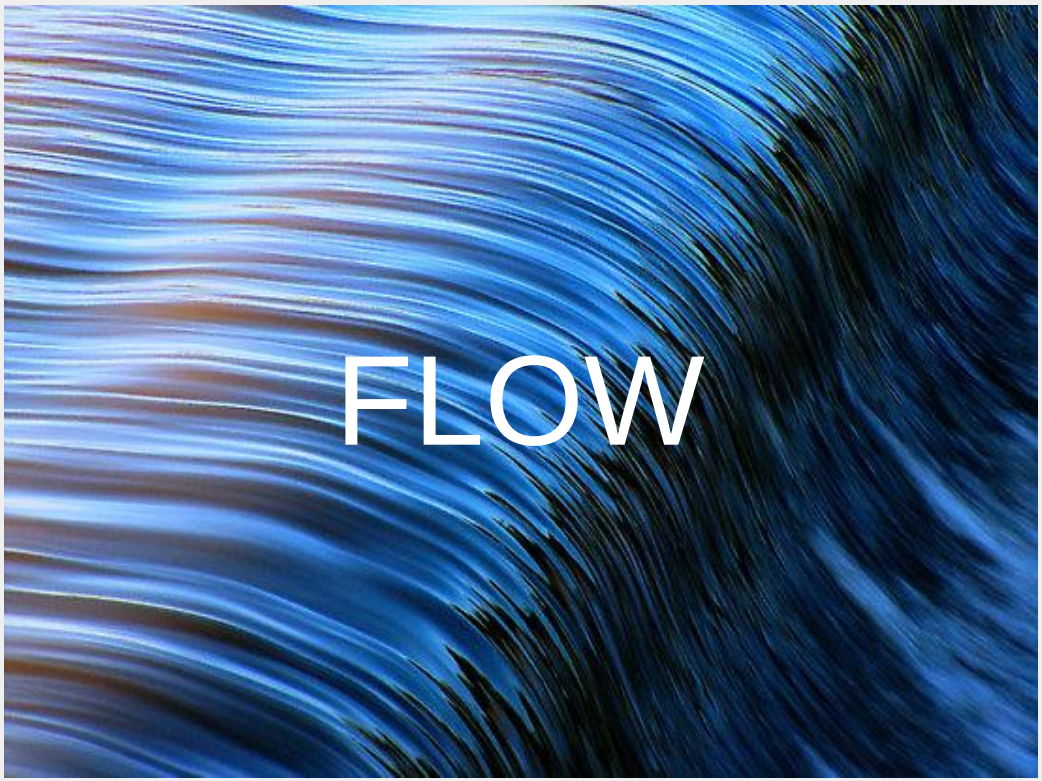
Deliver Better Software Faster

Why Do DevOps?

- Velocity
- Quality

DEFINE FLOW?

the amount of change we can move through our pipeline in a given unit of time



Velocity

MLT
Mean Lead Time

how long does it take for a bit of code to get built, tested and deployed

DCR

Daily Change Rate

number of changes getting committed to mainline and tested per day

MTTE
Mean Time To Environment

how long does it take devs/testers to bring up a testing environment for verifying changes

MTTD

Mean Time To Detect

how much time passes since the original commit of the code until the bug it introduced gets detected

Velocity

MTTR
Mean Time To Resolve

how much time it takes to resolve an issue once it's been detected

MTTA
Mean Time To Approve

how much time it takes to verify and approve a release

BFR

Build Failure Rate

% of failed builds

DFR

Deployment Failure Rate

% of failed deployments

IRFR
Infra-Related Failure Rate

% of builds/deployments failures related to infrastructure issues

RWR
Rework Rate

% of tickets being reopened

ADR
Automated Detection Rate

% of issues being detected by automated testing cycles

UWR
Unplanned Work Rate

% of unplanned issues

Where's the Data

- Project Mgmt Tools
- SCM
- CI Server
- Humans

Prerequisites

- Integrated Tools
- Change Tracking

Where to put Data?

- ELK (G)
- Dashboards
- Knowledge Sharing

don’t forget why

- Continuous Improvement