Why Microsoft Does DevOps

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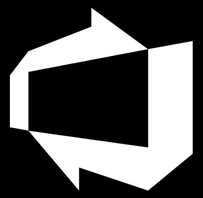

Visual Studio
Team Services

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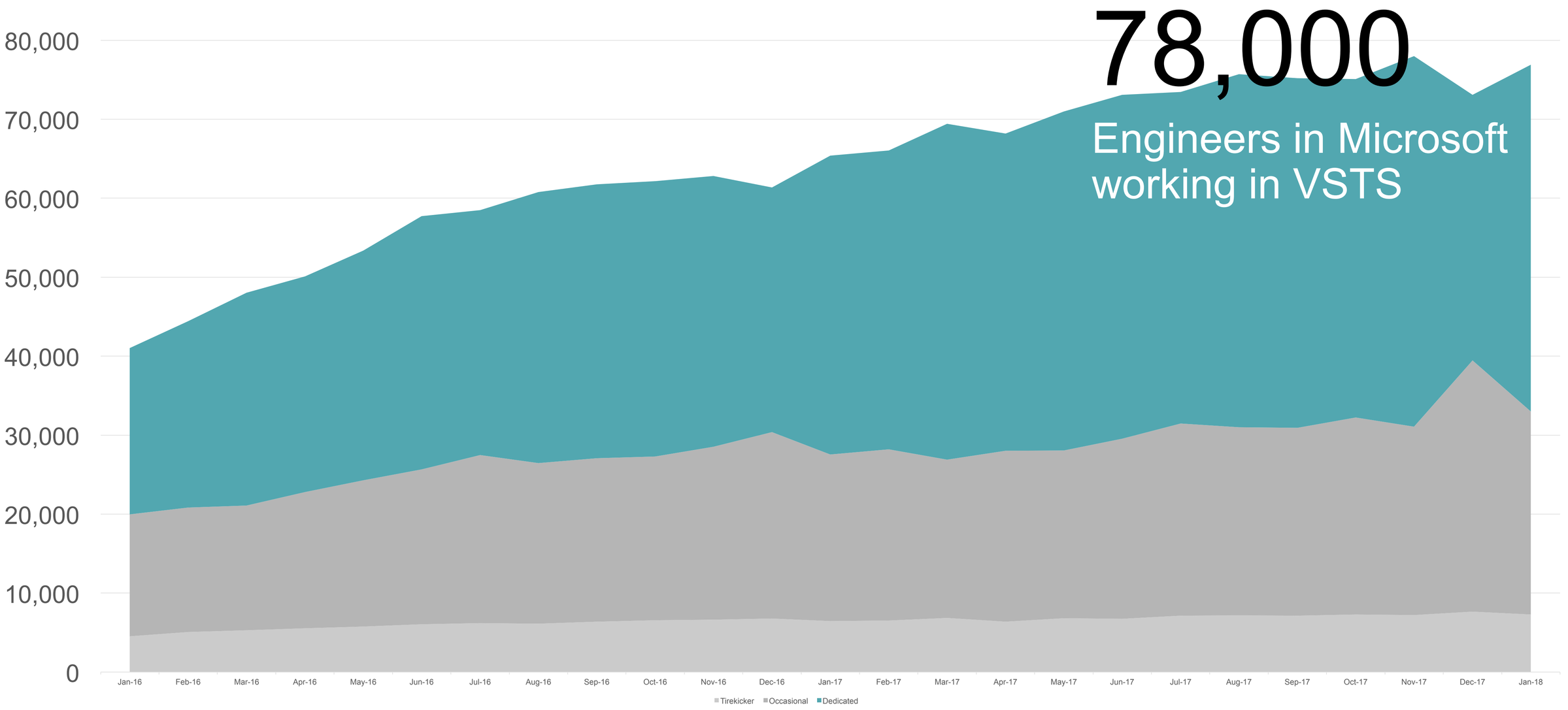
Microsoft

Engineers in VSTS Microsoft



78,000

Engineers in Microsoft working in VSTS

One second per day is like adding

2.7 More People To Microsoft

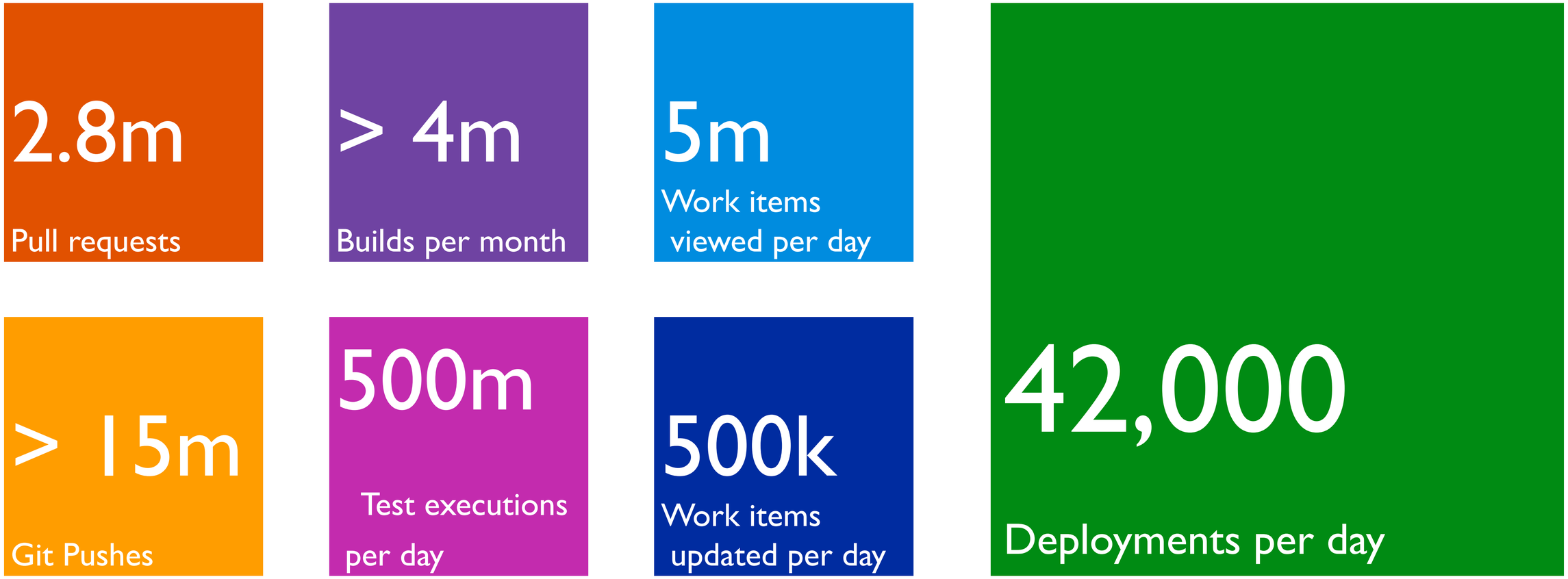
One minute per day is like adding

163 More People To Microsoft

One hour per day is like adding

$1.95B Per year

Microsoft Internal Engineering in VSTS by the Numbers



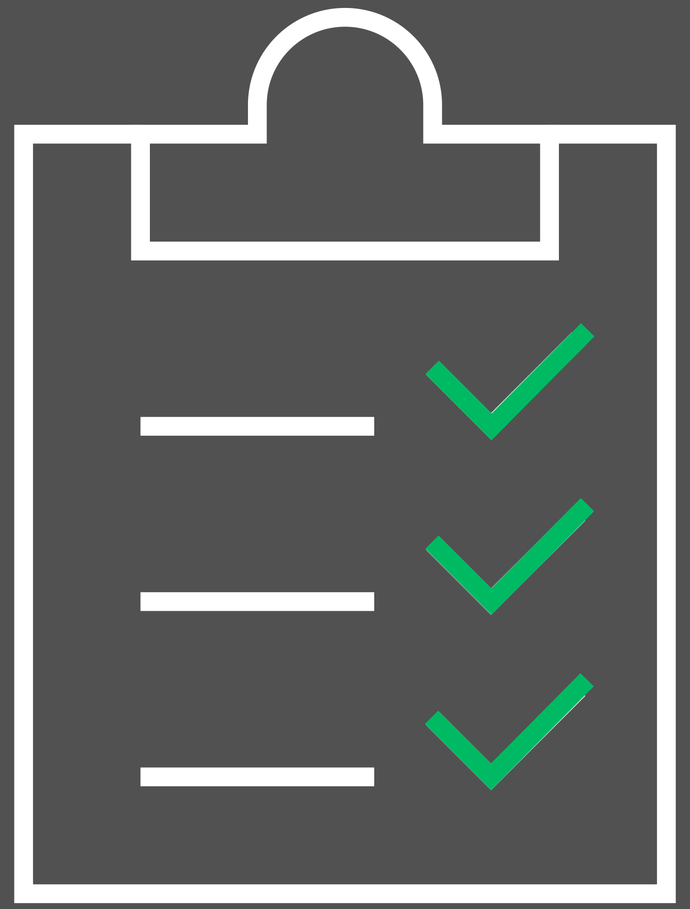
Data: Internal Microsoft engineering system activity during calendar year 2017

Microsoft

Shipping is a Feature

Azure DevOps Definition of Done

Live in production, collecting telemetry that examines the hypothesis which motivated the deployment.



Microsoft

Everybody tests in production

Microsoft

Customer Obsessed DevOps

Measure Impact Not Activity

Usage

Acquisition
Engagement
Satisfaction
Churn
Feature Usage

Process Velocity

Time to Build
Time to Self Test
Time to Deploy
Time to Learn

Live Site Health

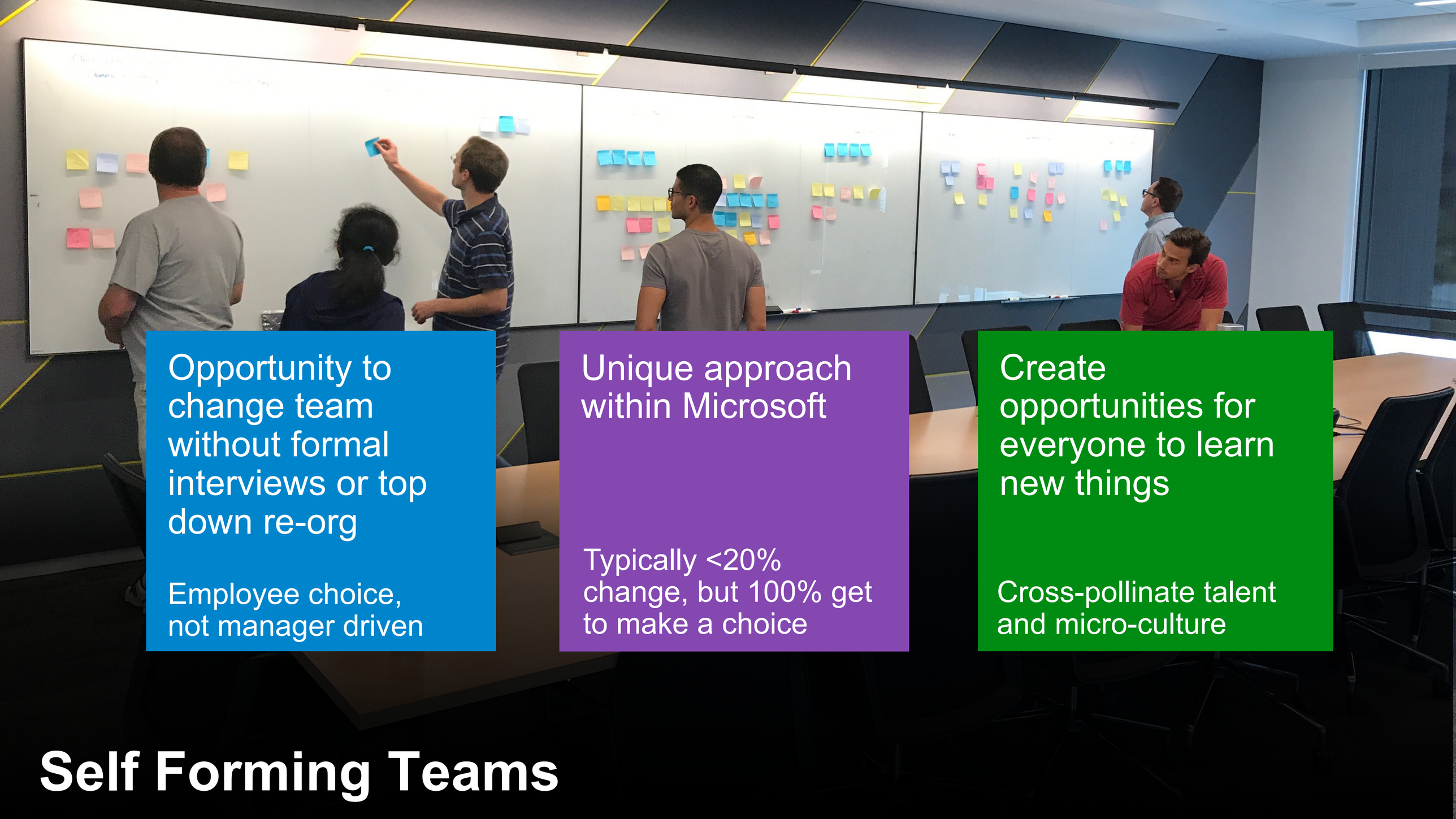
Time to **Detect**
Time to **Communicate**
Time to **Mitigate**
Customer **Impact**
Incident Prevention Items
Aging Live Site Problems
SLA per **Customer**
Customer Support Metrics

Things we don't watch

Original estimate
Completed hours
Lines of Code
Team capacity
Team burndown
Team velocity
Number of bugs fixed

Microsoft

Sustainable DevOps Teams



Opportunity to change team without formal interviews or top down re-org

Employee choice, not manager driven

Unique approach within Microsoft

Typically <20% change, but 100% get to make a choice

Create opportunities for everyone to learn new things

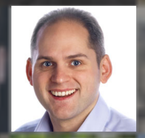
Cross-pollinate talent and micro-culture

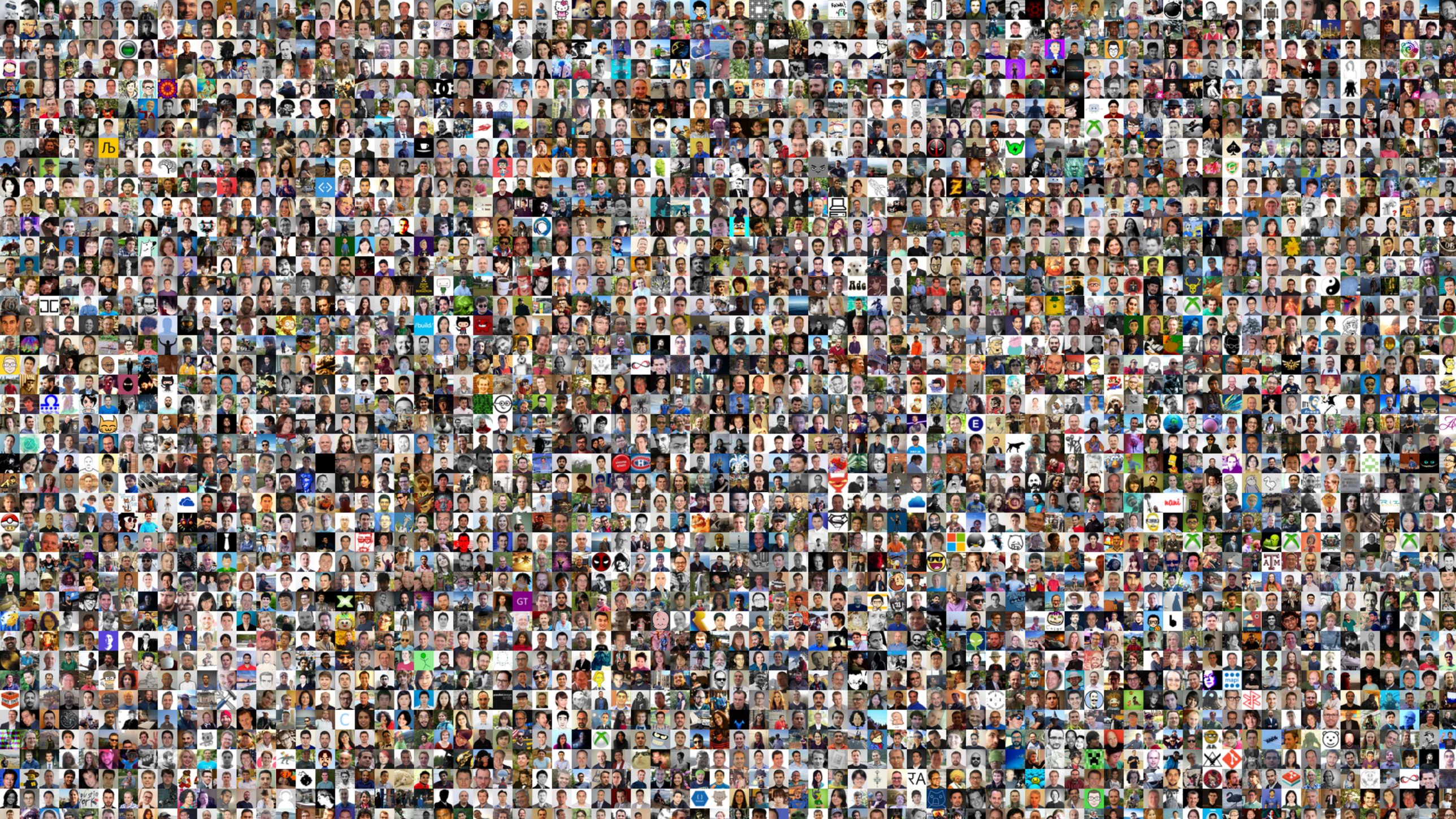
Self Forming Teams

Microsoft
Linux

Microsoft

GitHub





Thank you!

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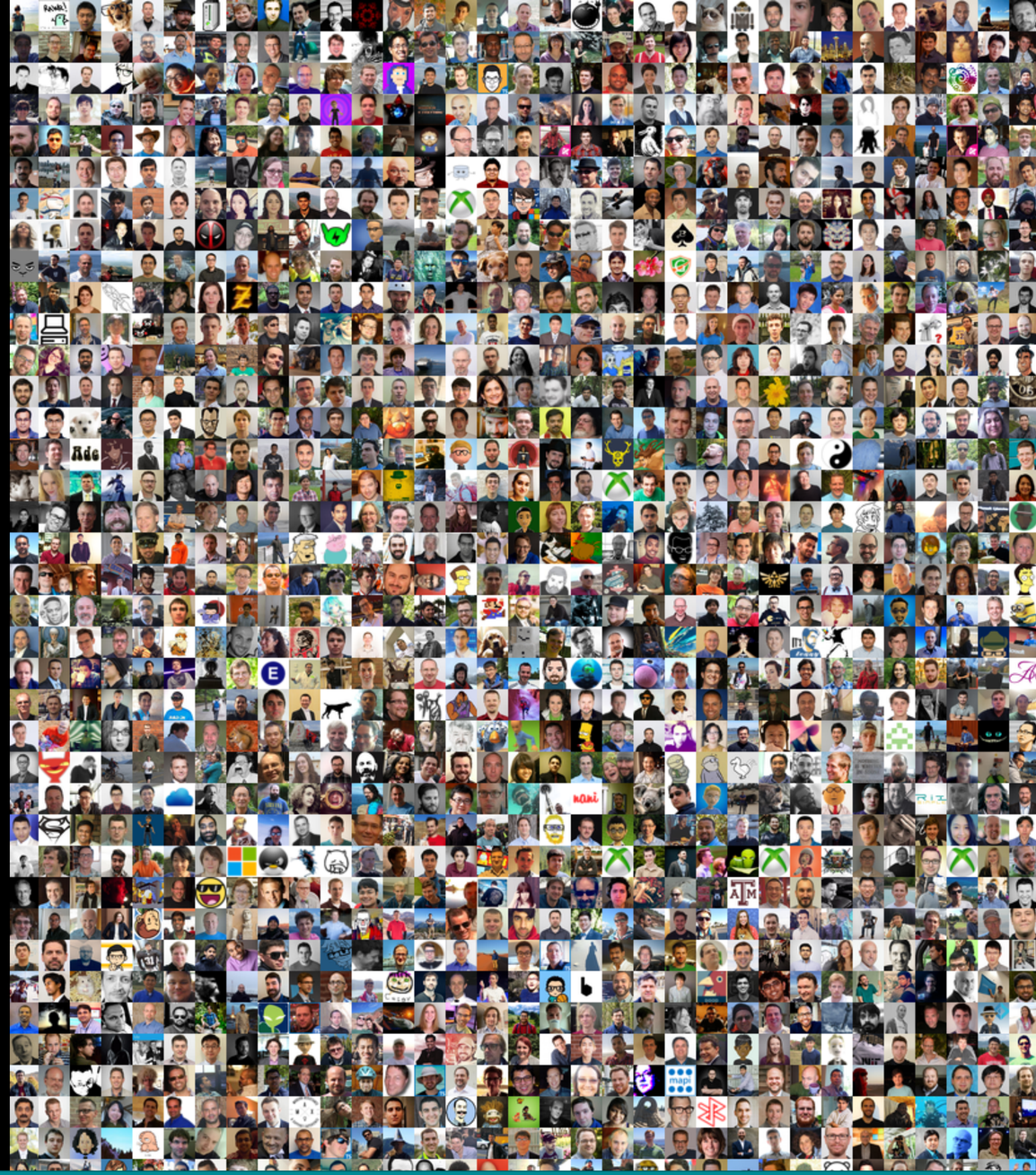
How Microsoft Does DevOps

Wed 1:15pm

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