

# #DATADRIVENDEVOPS

"Without data you are just  
another person with an opinion"


W. Edwards Deming

**COBBLER'S  
CHILDREN HAVE  
NO SHOES**





**SOFTWARE I  
LIKE**



**SOFTWARE I  
KNOW REALLY  
WELL**

“Every software is 80% ready 80%  
of the time

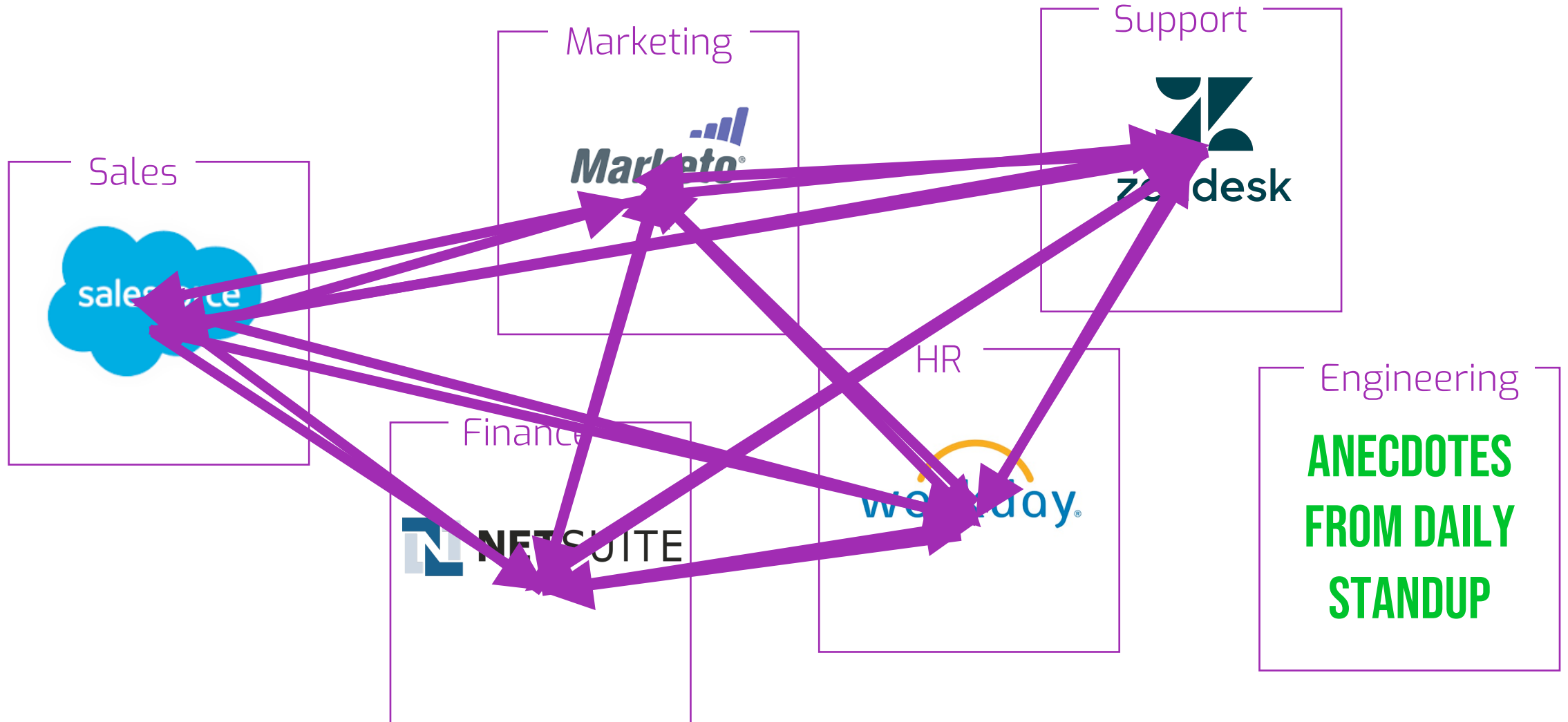
Every developer, ever

# IT'S FINE

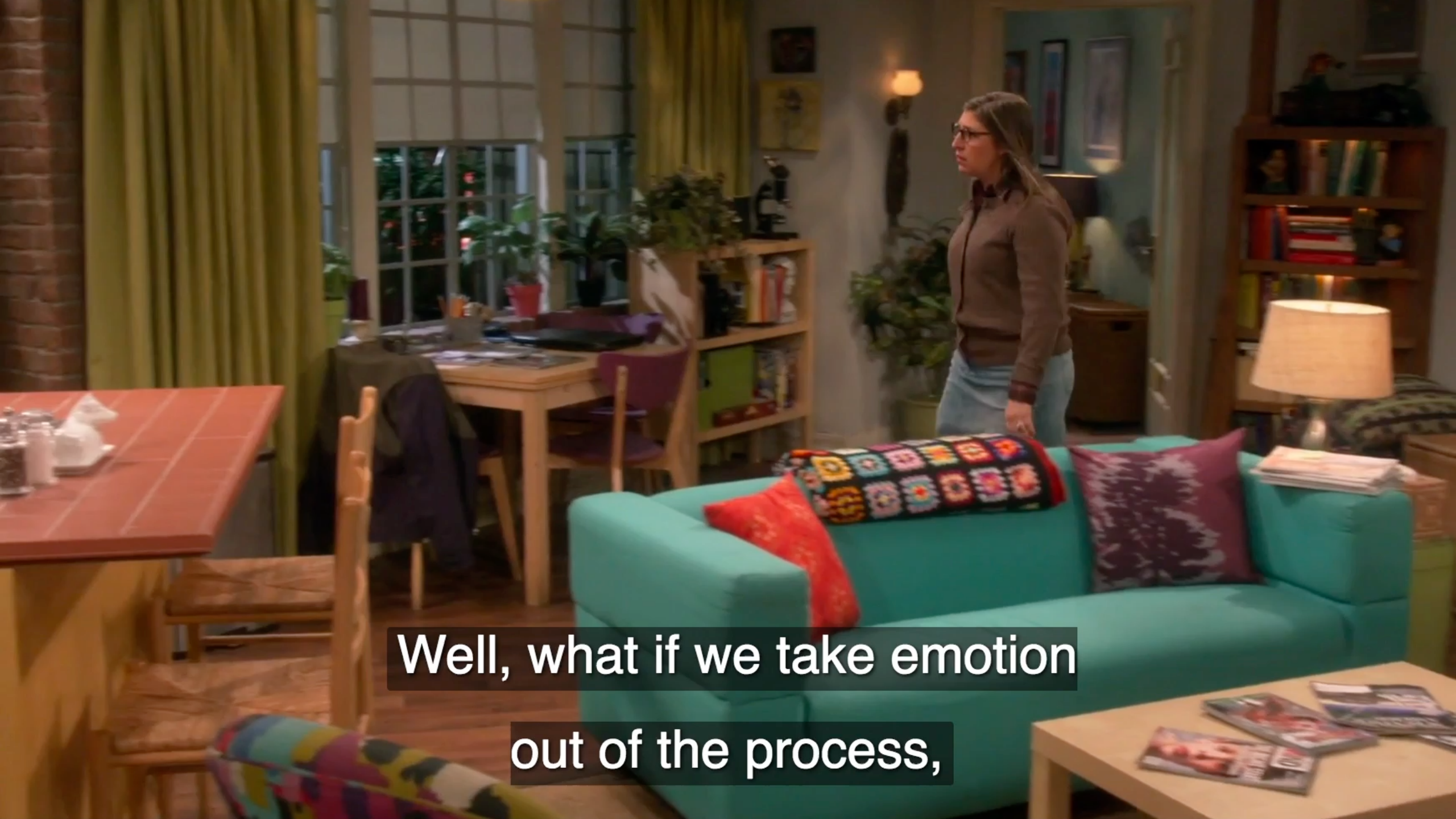


@jbaruch #DataDrivenDevOps #DevOpsDays <http://jfrog.com/shownotes>

# HOW DEPARTMENTS MEASURE





A woman with long brown hair and glasses, wearing a brown zip-up sweater and a light blue skirt, stands in a living room. She is looking towards the left. The room features a teal sofa with a red pillow, a colorful patterned blanket, and a purple patterned pillow. A wooden coffee table with magazines is in the foreground. In the background, there is a dining table with a red top, a wooden bookshelf, and a large window with green curtains. A lamp with a white shade is on a side table to the right.

Well, what if we take emotion  
out of the process,

# BARUCH SADOGURSKY

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(ALSO 🎩 OF DEVELOPER ADVOCACY)



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# SHOWNOTES

 <http://jfrog.com/shownotes>

 Slides

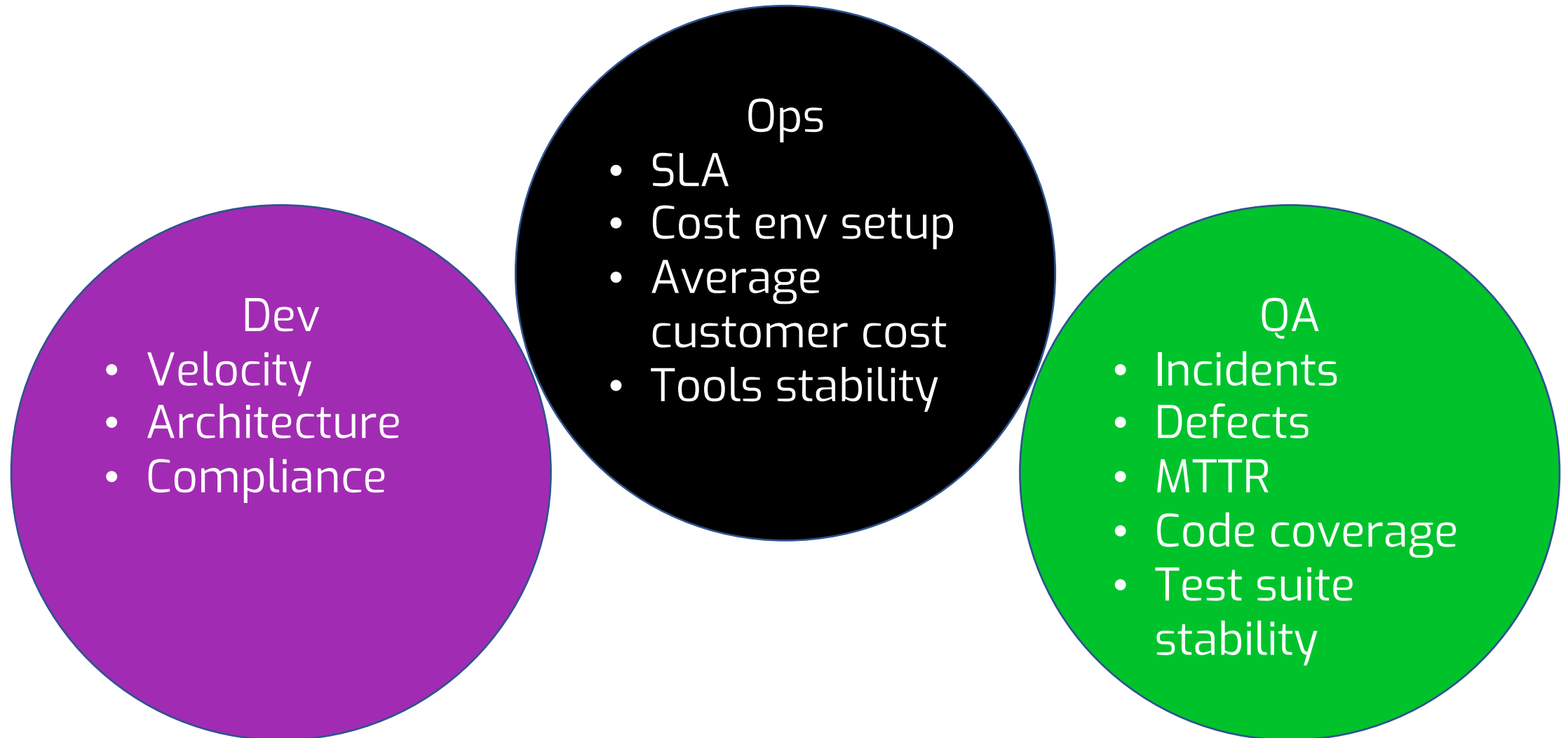
 Video

 Links

 Comments, Ratings

 Raffle

# ENGINEERING METRICS IN PRE-DEVOPS ERA



# HOW DO METRICS COLLABORATE?

<b>INFLUENCED AFFECTED</b>	<b>DEV</b>	<b>OPS</b>	<b>QA</b>
<b>DEV</b>		<ul style="list-style-type: none"><li>• Time to build</li><li>• Release pipelines stability</li><li>• Artifact replication topology</li></ul>	<ul style="list-style-type: none"><li>• False reopen count</li><li>• QA coverage</li></ul>
<b>OPS</b>	<ul style="list-style-type: none"><li>• Avg cost of customer</li></ul>		<ul style="list-style-type: none"><li>• Smoke tests quality</li></ul>
<b>QA</b>	<ul style="list-style-type: none"><li>• Test suite stability</li><li>• Incoming defect velocity</li><li>• Test execution time</li></ul>	<ul style="list-style-type: none"><li>• Time to create new QA lab</li></ul>	



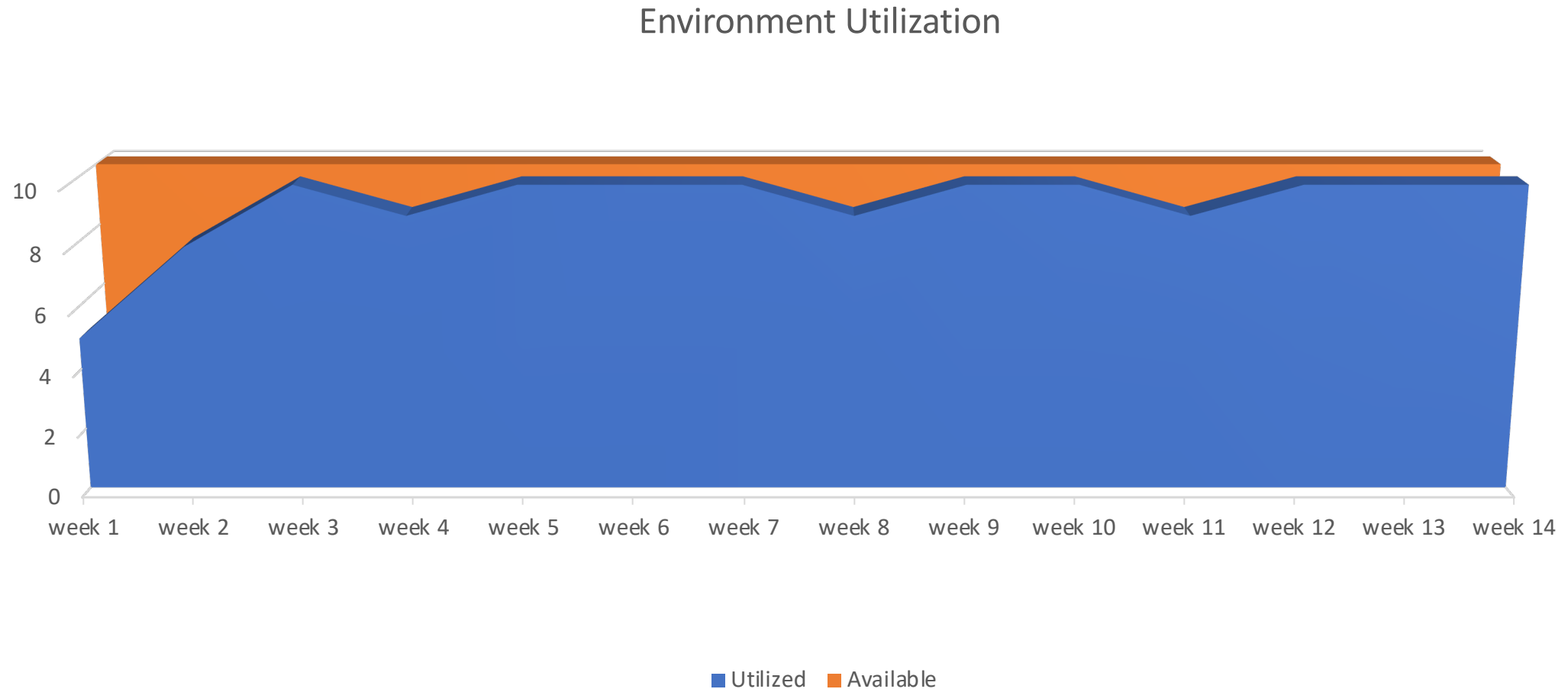
MEET SCRUM TEAM "AVENGERS"

# ANECDOTES FROM THE DAILY SCRUM STAND-UPS

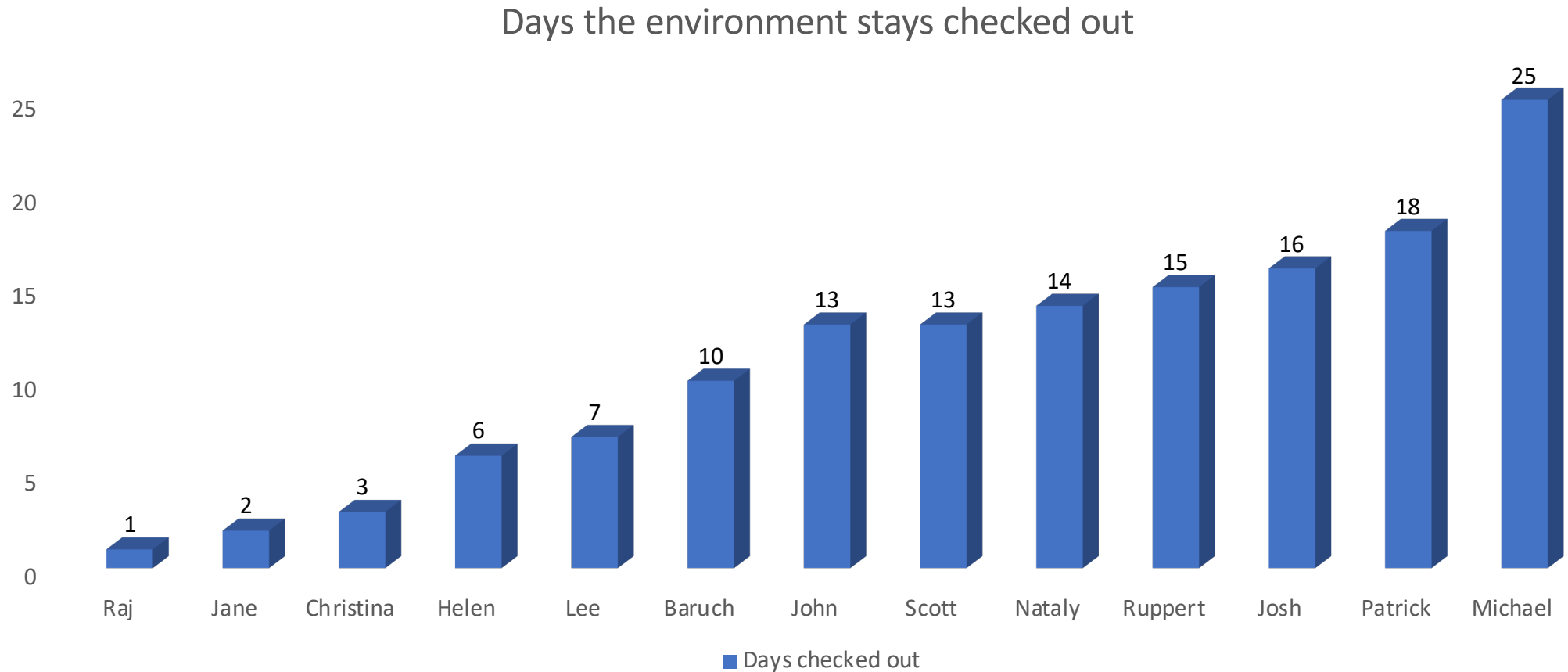
“ We never get enough testing environments from Ops, QA is suffering.

Scrum team “Avengers”

# LET'S GATHER SOME DATA!

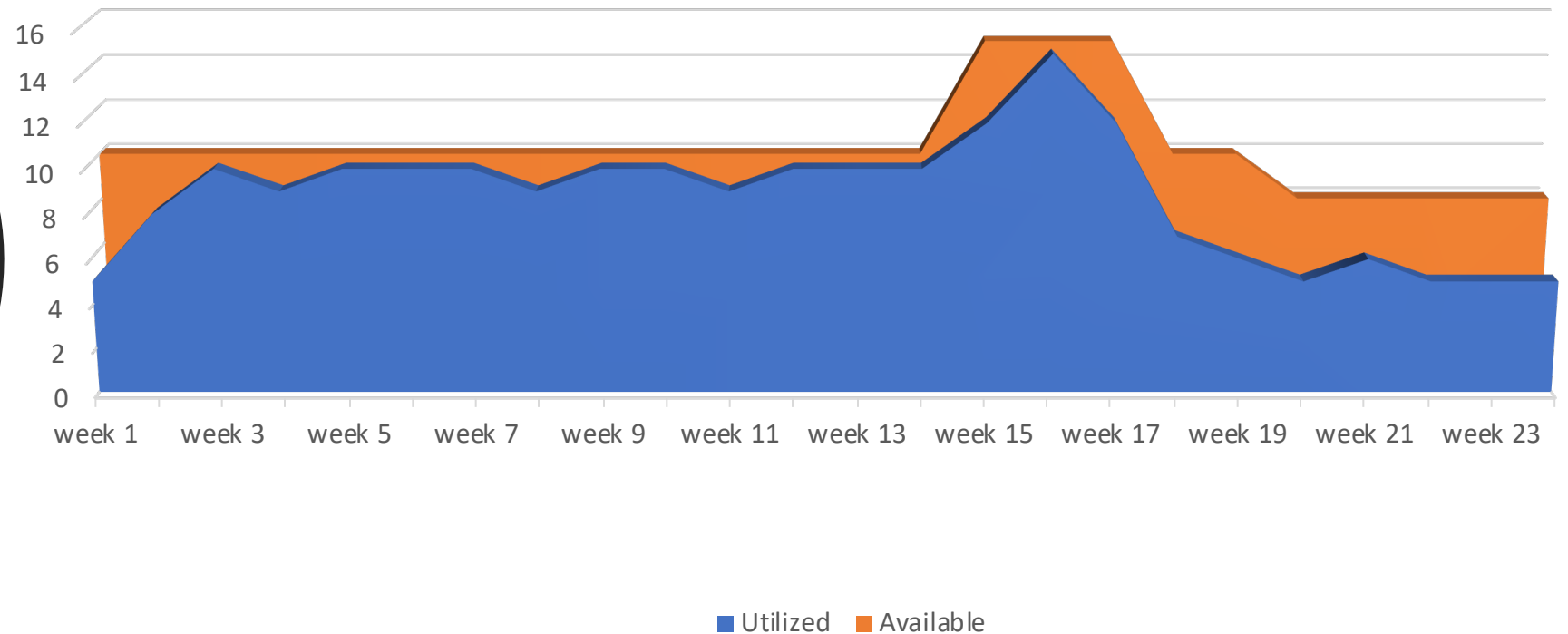


# THAT DOESN'T LOOK GOOD! BUT WHY?



CONTINUOUS  
IMPROVEMENT

## Environment Utilization



# ANECDOTES FROM THE DAILY SCRUM STAND-UPS

“ Tests are failing, because the test suite is not stable, QA makes our builds fail without reason.

Scrum team “Avengers”

# LET'S GATHER SOME DATA!

Create Issue

Configure Fields

Project\*

Artifactory Binary Repository ...

Issue Type\*

Test Suite Stability

?

Summary\*

Component/s

Start typing to get a list of possible matches or press down to select.

Description

Style B I U A A Link List Bulleted List Emoji +

?

Priority

Normal

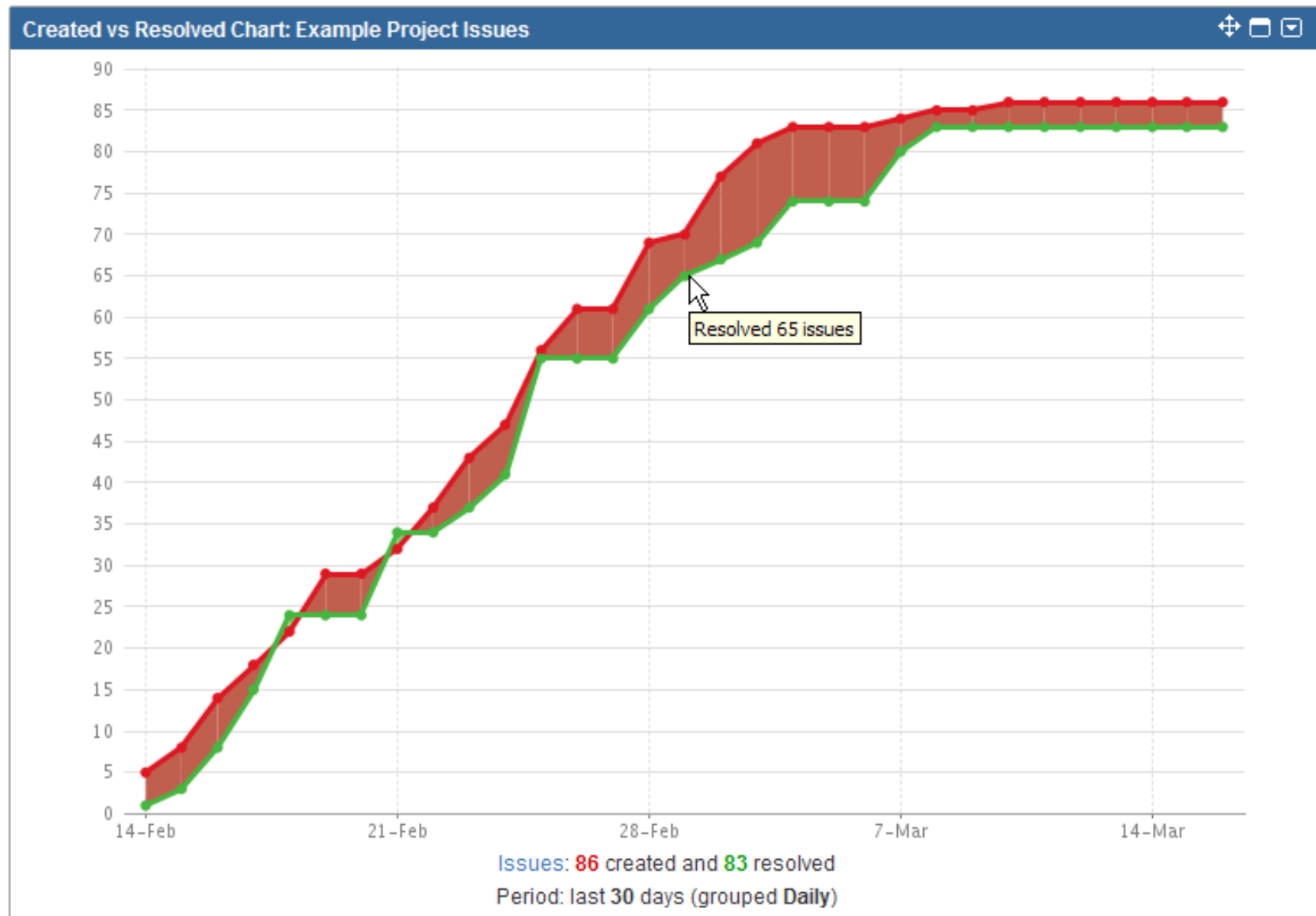
?

Create another

Create

Cancel

## RETURN ON INVESTMENT



# ANECDOTES FROM THE DAILY SCRUM STAND-UPS

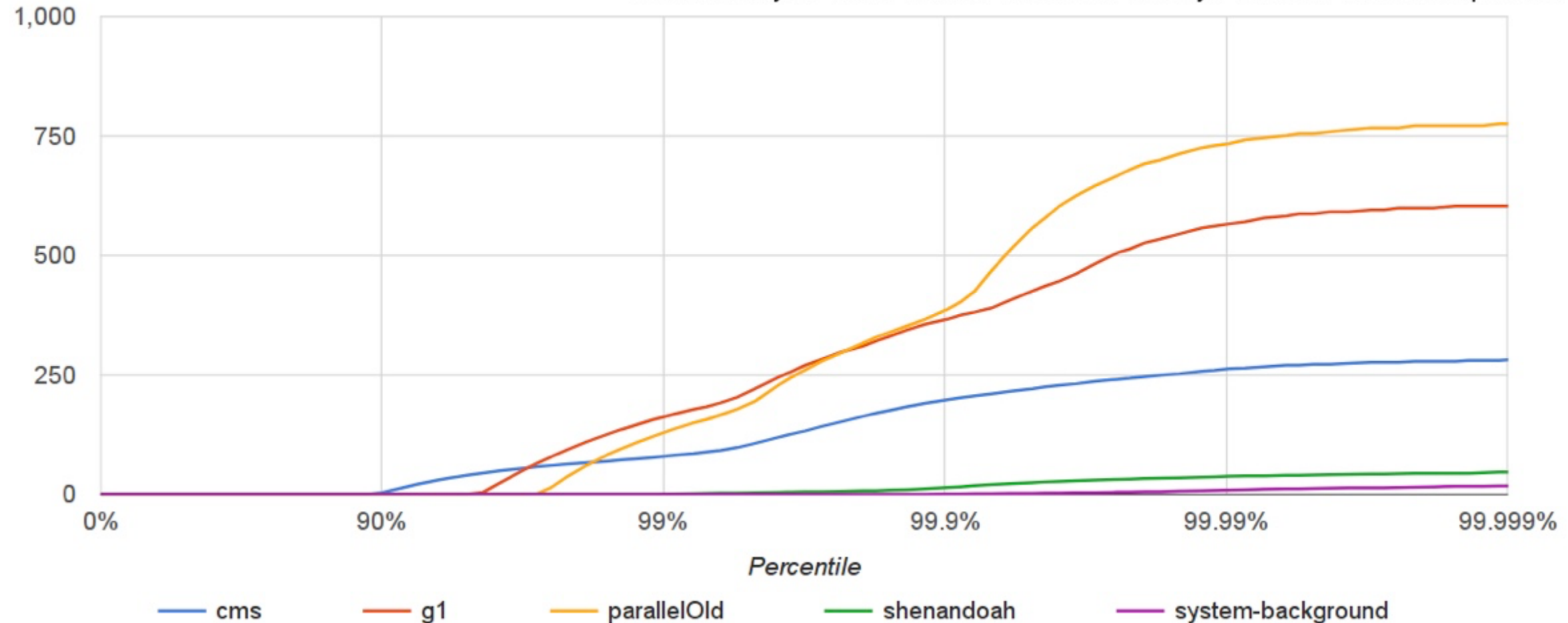
“ Those developers want to deploy new GC, its tons of work, without any profit.

Scrum team “Avengers”

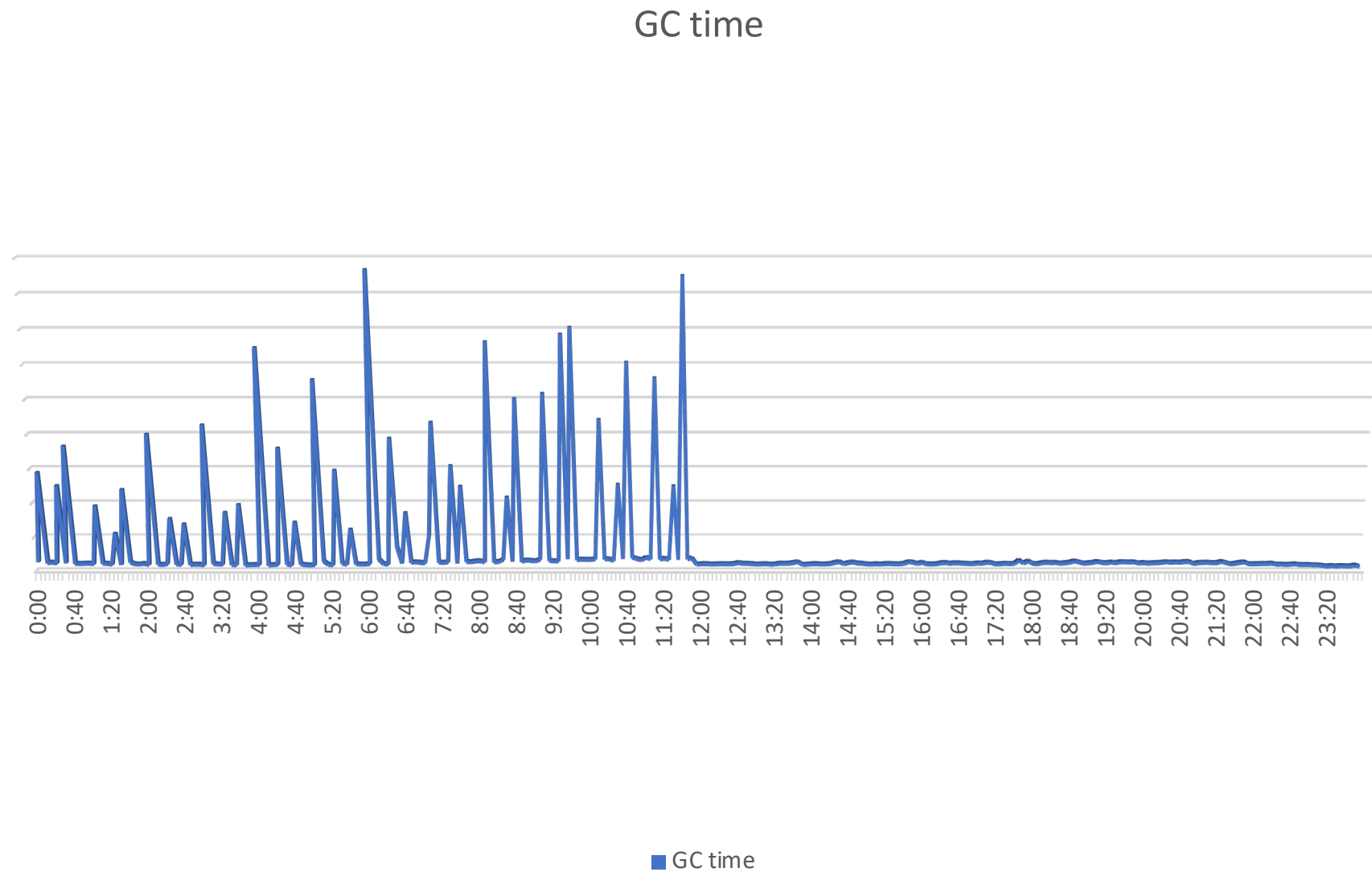
# LET'S GATHER SOME DATA!

**Latency by Percentile Distribution**

1x2x2 4.0 GHz i7-4790K, Linux x86\_64 4.4  
jbb15, preset IR = 4K, 10 minutes, 20 GB heap, ~4 GB LDS  
shenandoah/jdk9 (2017-05-18), +UseTHP, +AlwaysPreTouch, +DisableExplicitGC



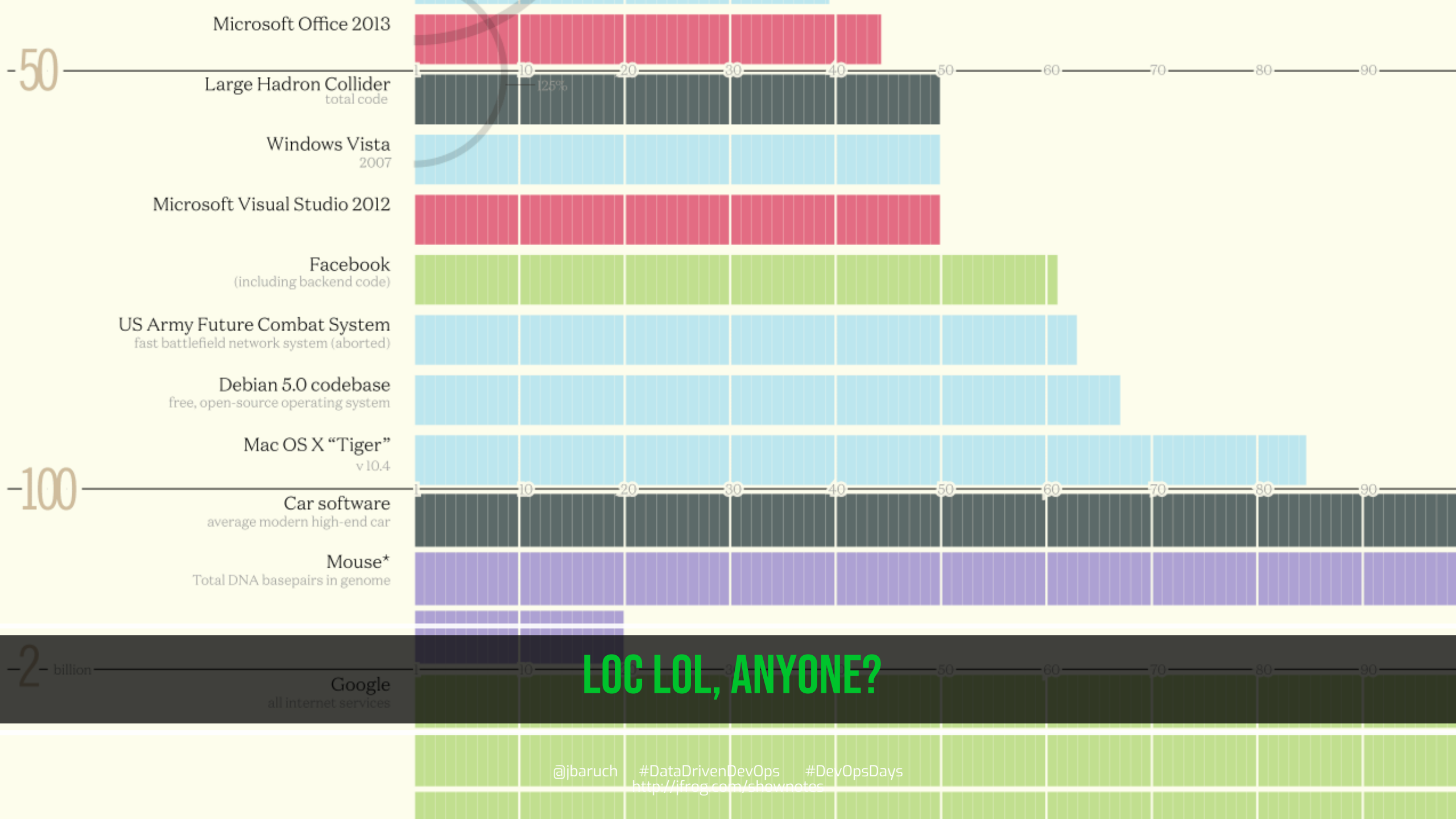
## TRUST AND PREDICTABILITY

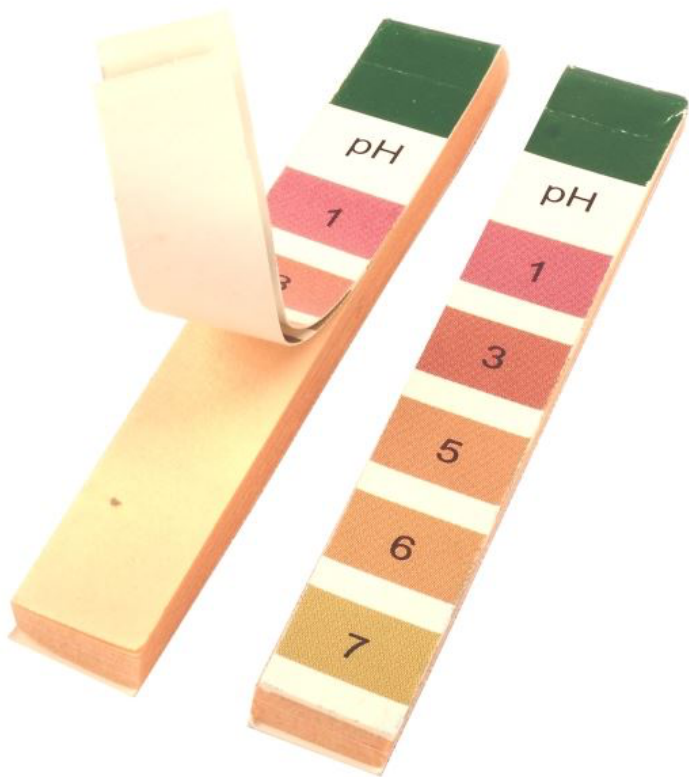


# DOS AND DON'TS



**MEASURING THE RIGHT THING**





**AVOID DATA OVERLOAD**



**USE RELIABLE DATA**



**"MEDIUM" IN BRAZIL**



**"MEDIUM" IN RUSSIA**

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**COMMON VOCABULARY IS IMPORTANT**

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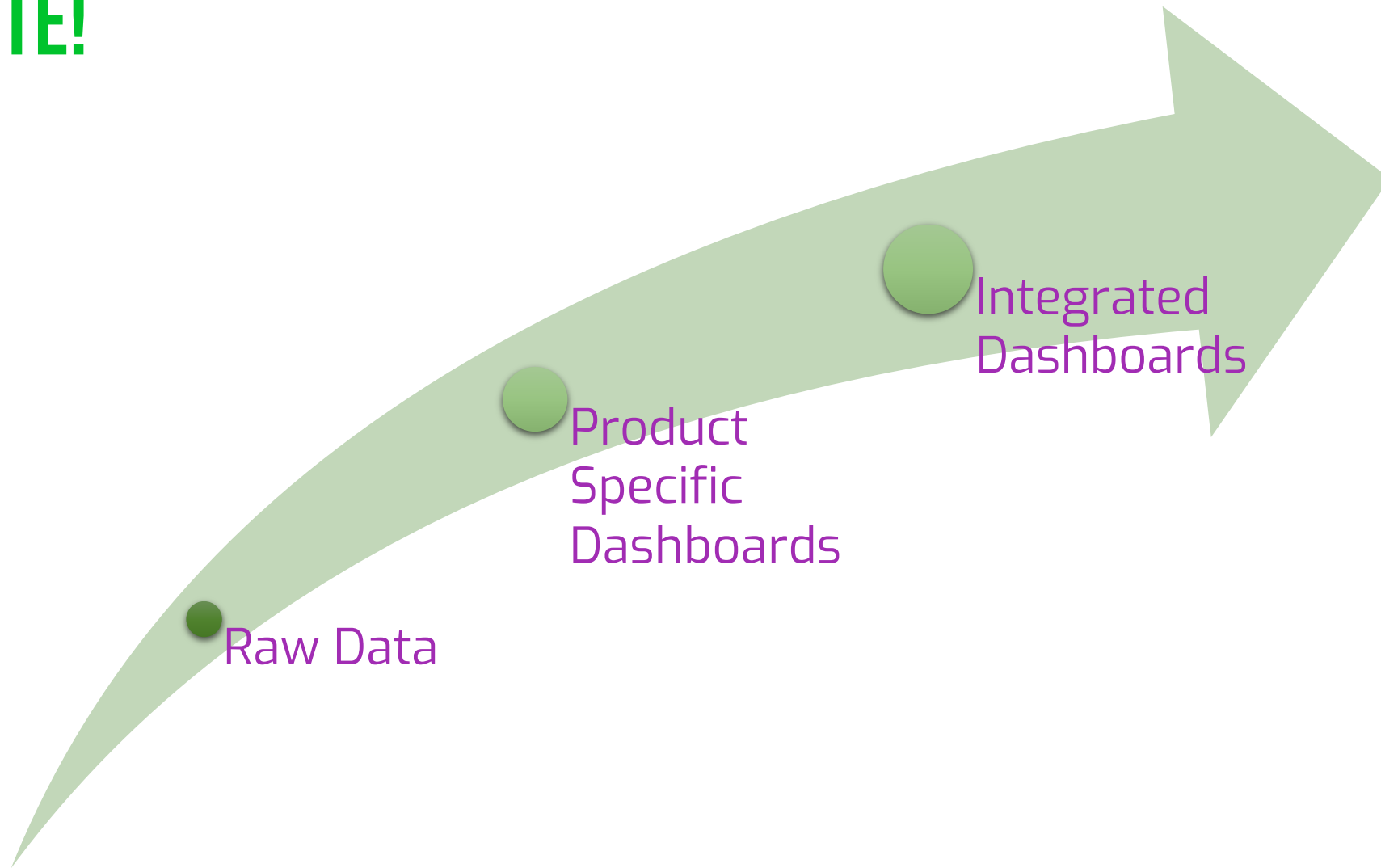
**METRICS  
GENERATE  
INCENTIVES, BE  
AWARE!**





**TWEAK AS YOU GO**

# ELEVATE!



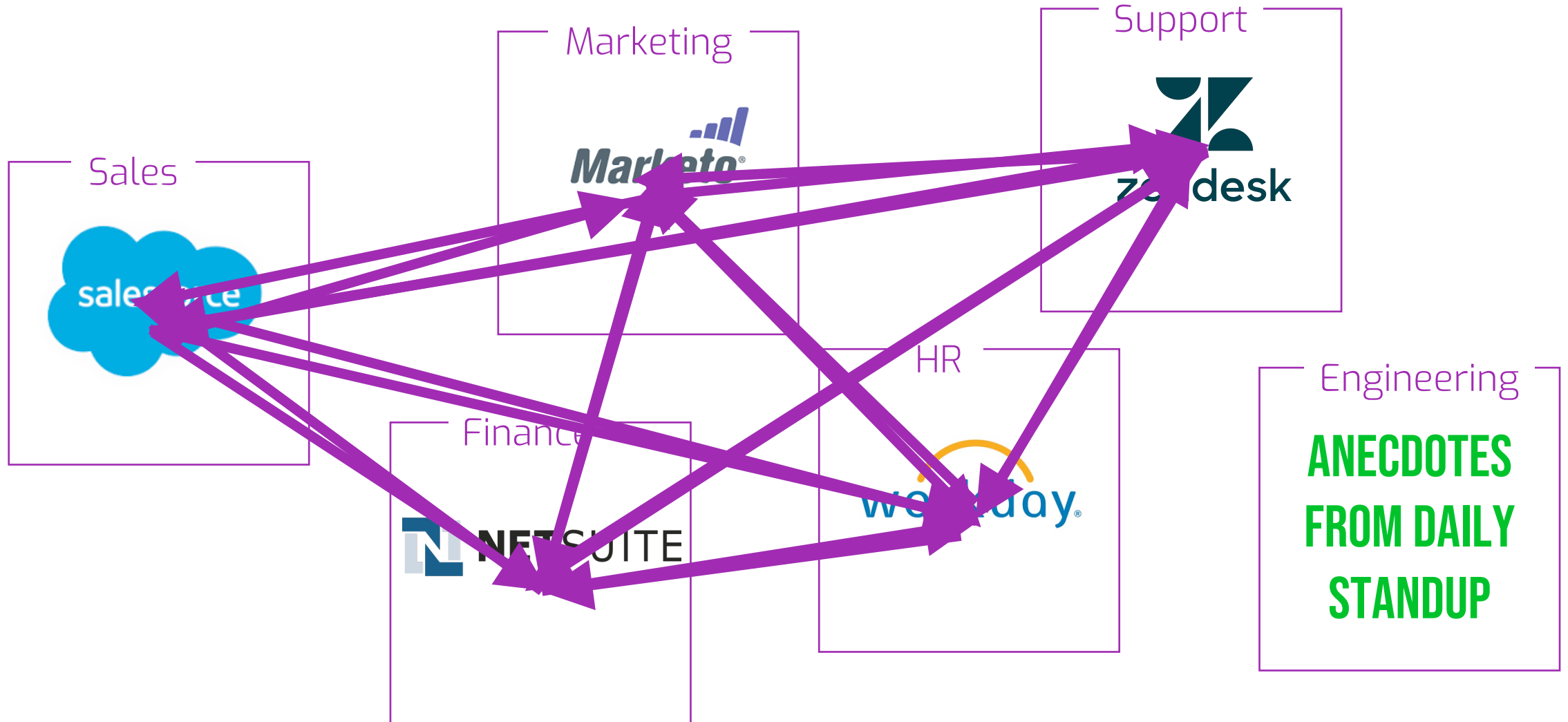
@jbaruch

#DataDrivenDevOps

#DevOpsDays

<http://jfrog.com/shownotes>

# HOW DEPARTMENTS MEASURE



# STEP INTO DATA-DRIVEN LIFE



Removes blame game



Builds accountability and trust



Creates common base for discussion



Enables DevOps

# Q&A AND TWITTER ADS

 @jbaruch

 #DevOpsDays

 #DataDrivenDevOps

 <http://jfrog.com/shownotes>