Test Driven Microservices

System Confidence through Journeys, Traces & Contracts.

@russmiles











Say "Microservices" one more time...



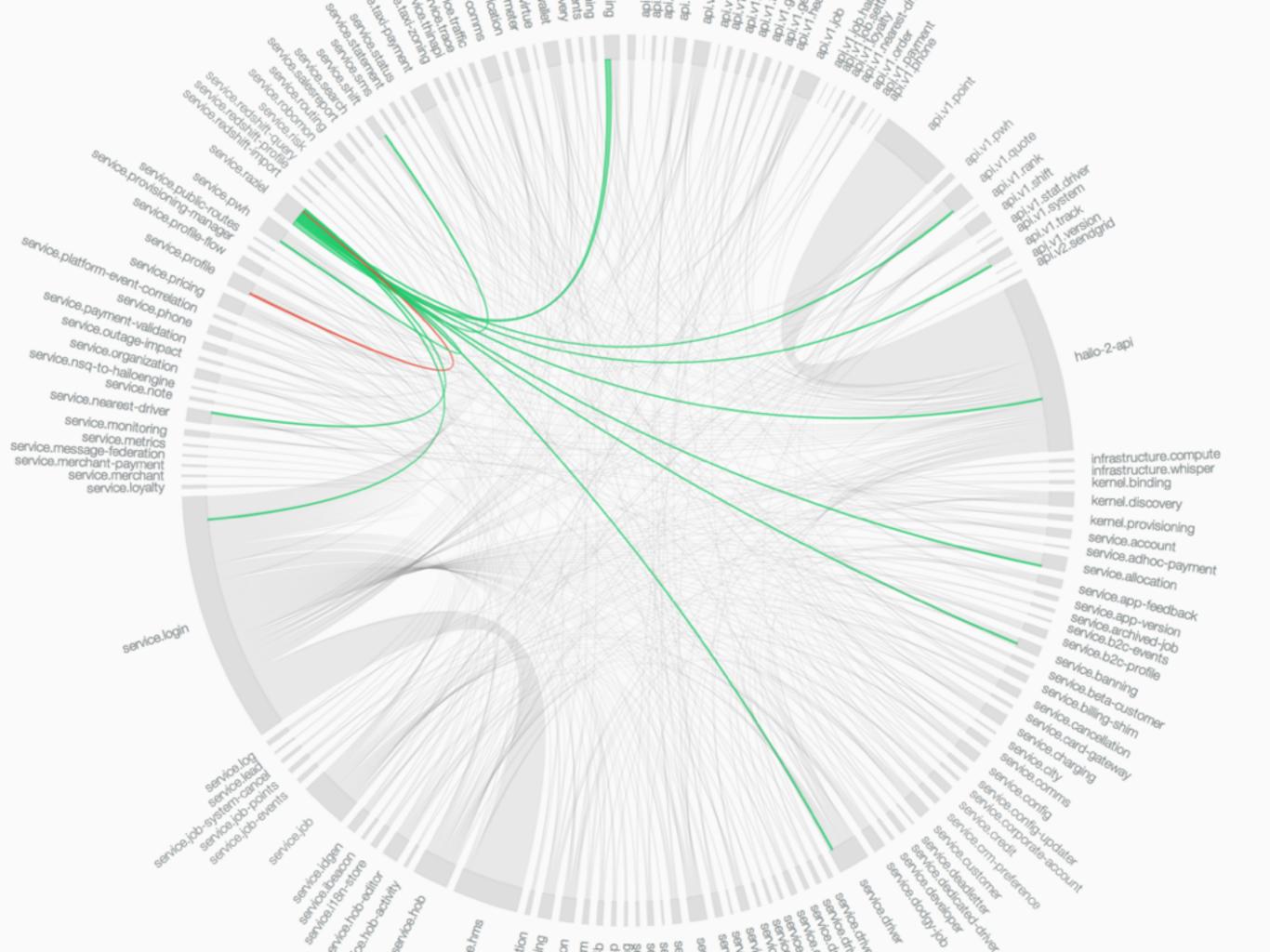
Humps for

A Definition...

The kingdom of heaven is like a mustard seed, which a man took and planted in his field. Though it is the smallest of all seeds, yet when it grows, it is the largest of garden plants and becomes a tree, so that the birds come and perch in its branches (Matthew 13:31-32). - Of Mustard Seeds and Microservices (Micah Blalock) – <u>https://www.credera.com/blog/technologyinsights/java/mustard-seeds-microservices/</u> *"Loosely coupled service oriented architecture with bounded contexts"*

Loosely Coupled Services that can change

Which is GREAT! but...



Testing in an Uncertain World?

Confidence in an Uncertain World



Testing the Pieces is Good







How to make sense?

Confidence, Comprehension, Intent

Across MANY Microservices...

We have a tool for that...







Stories are powerful

Utnapishtim

Noah

Learning and Comprehension through Stories

Confidence, Comprehension, Intent

The problem?

Front-end Only sucks

Acceptance in Microservices is Across Pipeline

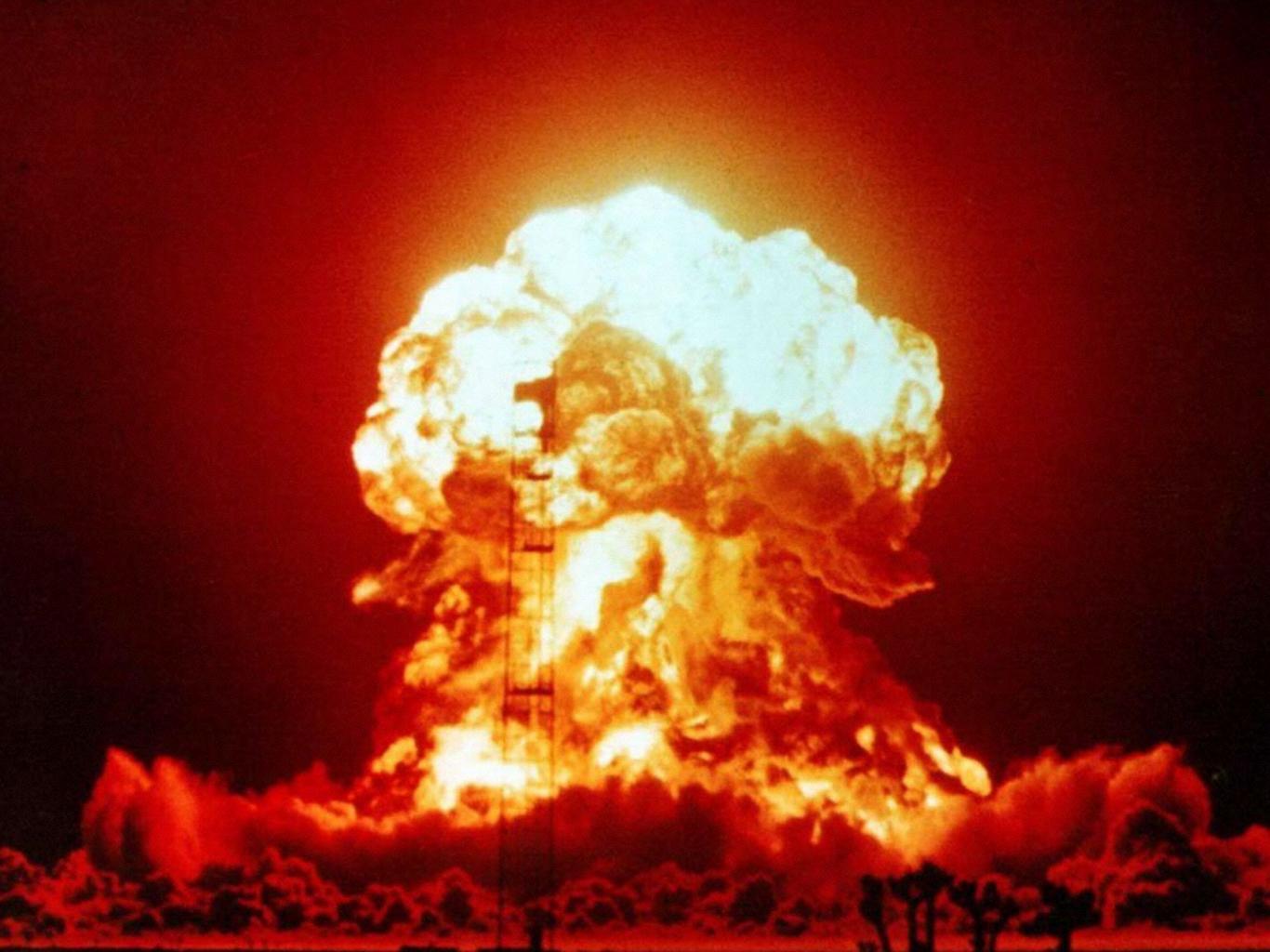
Introducing 'Journeys'

Introducing 'Pipeline Journeys'

Just expectation?

'Live too'

That's all good but...





Even Drop-in Replacement can be a Challenge!?

But there's worse...



*?it Happens...

We need to deal!

Event Sourcing is Key!

Size doesn't matter

SLOC doesn't matter

Cognitive Overhead DOES

What can your System DO?

WT*?!





The real problem?

The general problem...

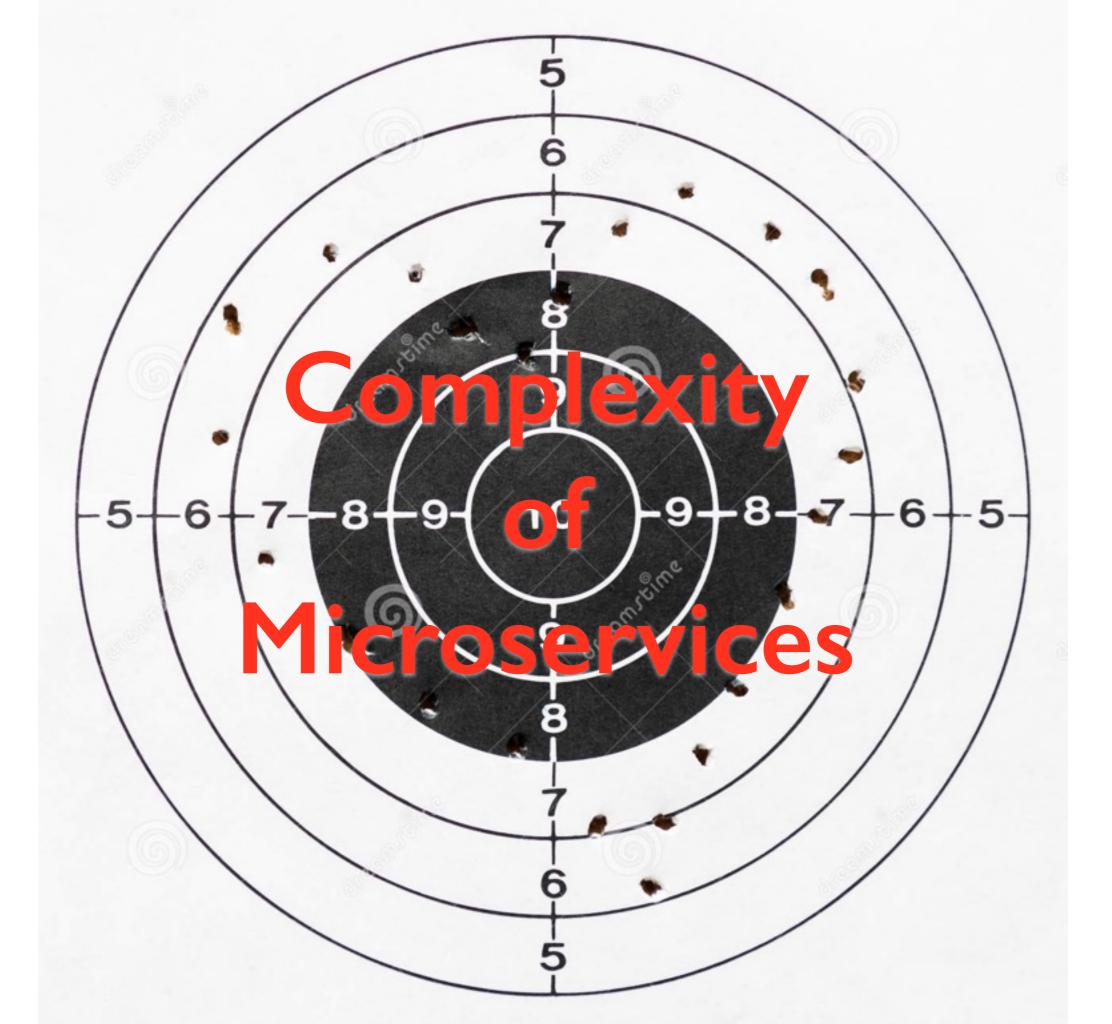


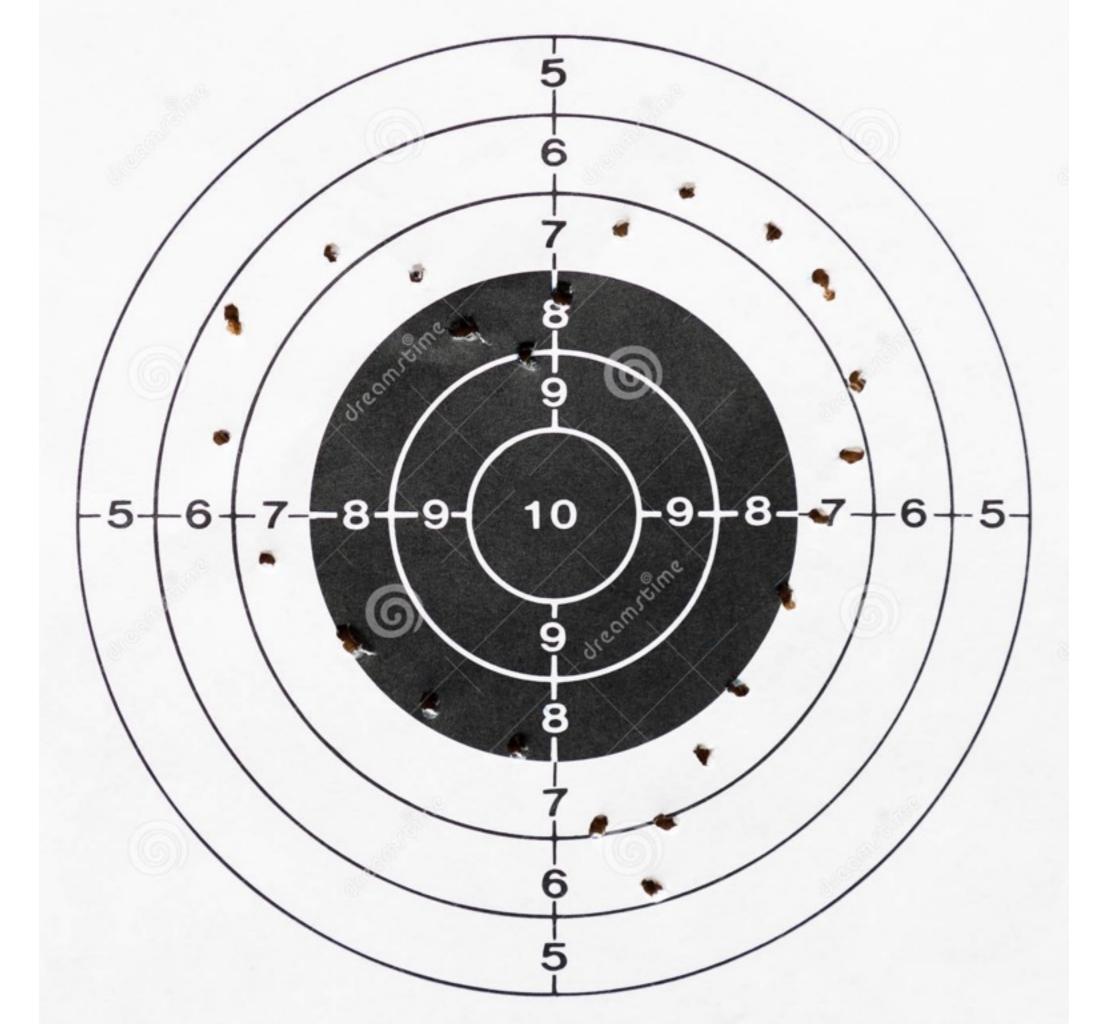














We can do <u>much</u> better 4 5 6 7 8 () 8 7 6 5 4 3 2

We have done this before...

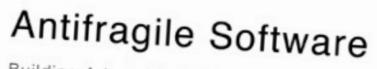




Simplify Enterprise Java

Simplify Microservices

What can you do?



Building Adaptable Software with Microservices

Russ Miles

Grant Tarrant-Fisher Sylvain Hellegouarch

www.leanpub.com/antifragilesoftware

Get Involved!

Thanks for your time!

Orussmiles

russmiles.com