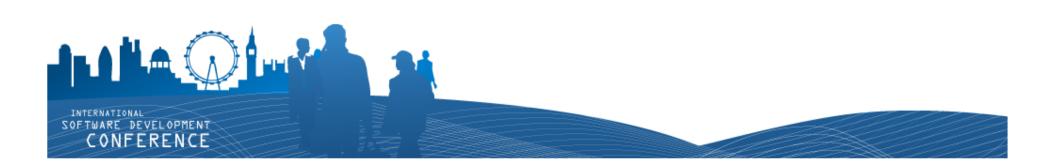


Please evaluate my talk via the mobile app!





Instrumenting Your Business For Success With DevOps Robert Benefield Evolve Beyond, Ltd rbenefield@evolvebeyond.com



CTO, Evolve Beyond @leandevops

Over 20 years of experience in Development, Operations and Executive levels from start-ups to large multinationals

Software, Military, Government, Banking, Utilities, Telecom, Internet, Energy, Healthcare, Embedded Systems



I like solving difficult problems









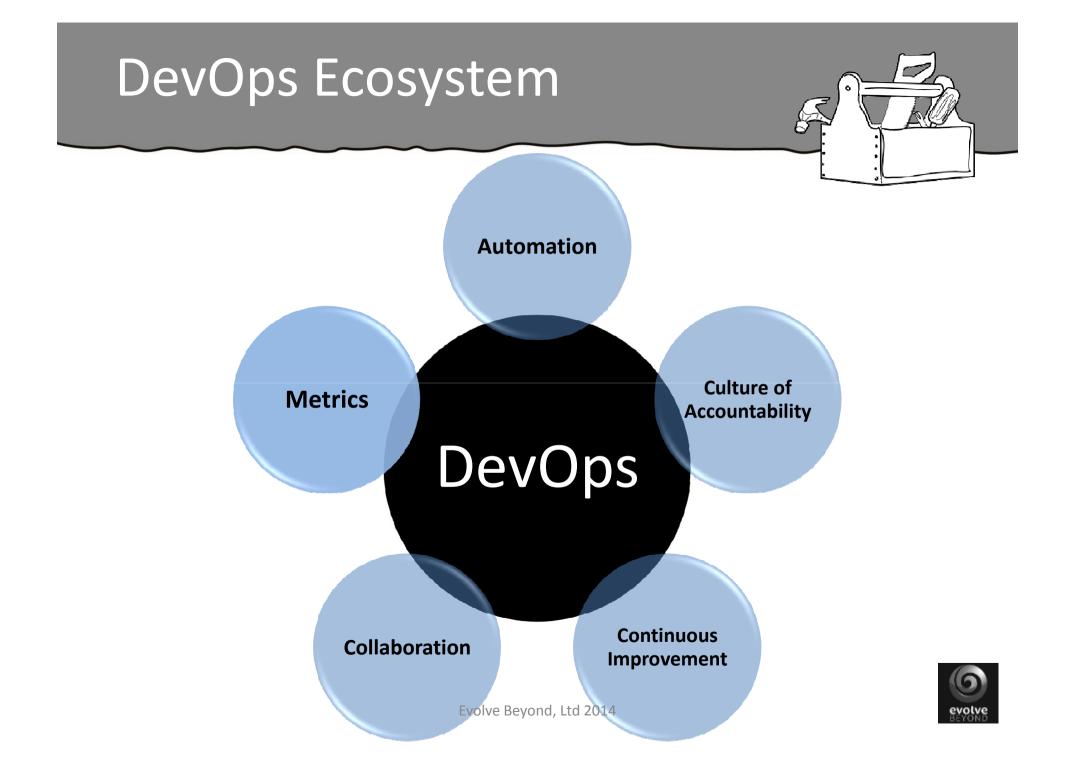




Shared Situational Awareness

Continuous Improvement



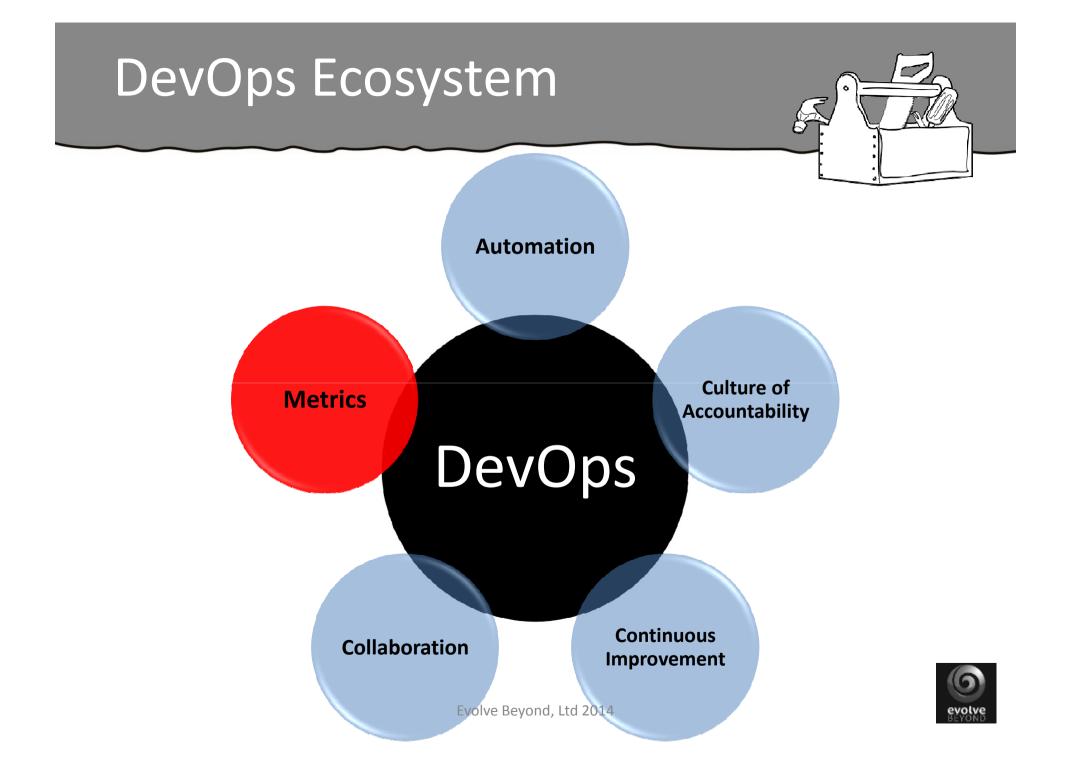


Have the Metrics Changed?











Availability

Mean Time Between Failure (MTBF) Mean Time To Recover (MTTR)

Health

Warnings/Failures/Restarts

Throughput

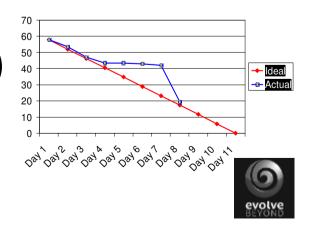
Capacity (CPU, Memory, I/O, etc) Deploy speed & frequency Team Velocity

 Xbox Requests
 Page Generation

 Drillow Har UTC
 Drillow Har UTC

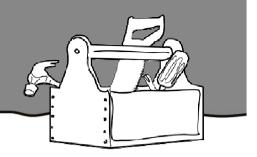
 Web Requests
 PhP Errors

 Drillow Har UTC
 Drillow Har UTC





Are We Missing a Trick?







Business Environment



Customer



Business









Customer's View



The Service <u>is</u> the Product!

Available

- Does it work when I need it?

Usable

- Does it do what I need it to do?
- Is it easy to use and performant?

Provide Value

- Is it value for money?
- Is it better than I could do myself?

Secure

– Is my data safe?









"Agile just means we deliver faster, right?"

"Cloud/SaaS is just a distribution channel"

"DevOps is Cloud + Automation to go even faster!"





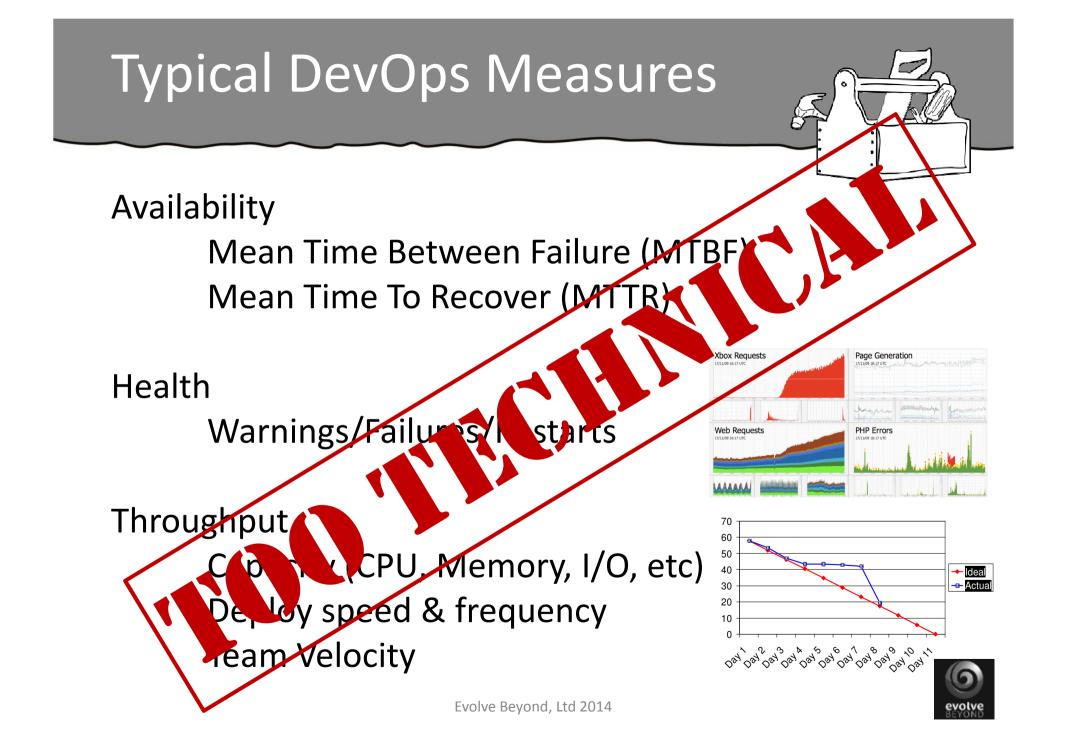


Increase revenue & market share Reduce costs & delivery friction Protect – manage risk to revenue & market

Which all boils down to:

Understanding the Customer & Market Understanding resident capabilities & risks







BUILDING THE BRIDGE



Building Situational Awareness

What causes friction?

What are our **risks**?

What are our **capabilities**?

Do we really **understand our customers**? *Remember: We run the service!* How are **decisions** made?











How quickly can we **deliver**?

How quickly can we scale?

How quickly can we **respond**?

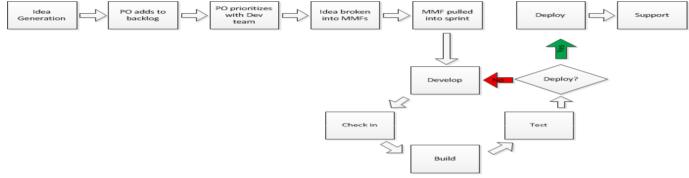
How quickly can we **resolve**?

How often is there **rework**?





Value Streams

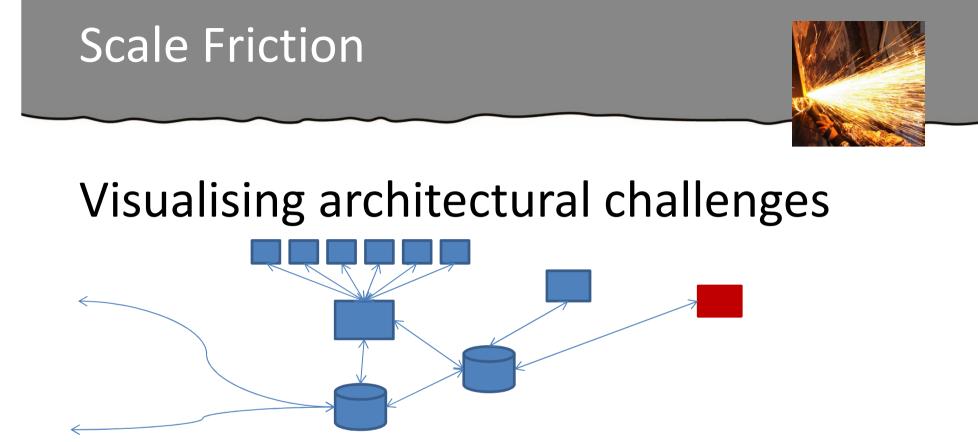


Workflow Visualisation

Work Board					
Accepted	Scheduled	In Progress	Blocked	Done	



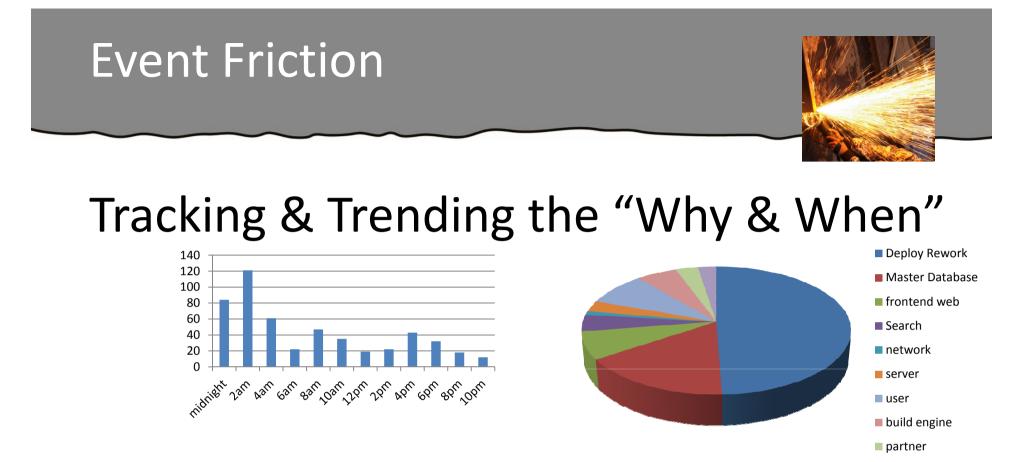




Acquisition Dependencies







Effort due to change rework







Where is the **technical debt**? Where are the **"known unknowns"**? Where are the **SPoFs**? Where are the **dependencies**?

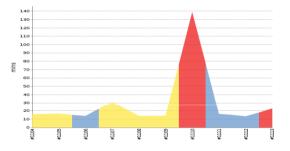






Component Build Failure Rates

Code & test coverage



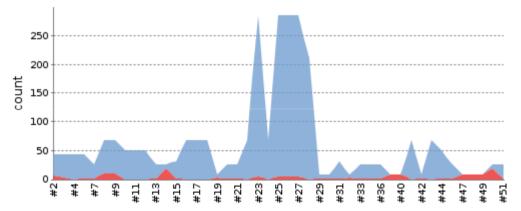
Code coverage dashboard

overage report CR 2012 03 09 52

ja /Source/	36389/344593
/Source/JavaScriptCore/	36389/51296
Source/JavaScriptCore/API/	18 /2401
Source/JavaScriptCore/API/APICast.h	22/26
Source/JavaScriptCore/API/APIShims.h	26/26
Source/JavaScriptCore/API/JSBase.cpp	36/39
Source/JavaScriptCore/API/JSCallbackConstructor.cpp	34/35
Source/JavaScriptCore/API/JSCallbackConstructor.h	8/8
Source/JavaScriptCore/API/JSCallbackFunction.cpp	35/45
 /Source/JavaScriptCore/API/JSCallbackFunction.h 	6/6
/Source/JavaScriptCore/API/JSCallbackObject.cpp	14/14
 /Source/JavaScriptCore/API/JSCallbackObject.h 	52/61
/Source/JavaScriptCore/API/JSCallbackObjectFunctions.h	261/289
/Source/JavaScriptCore/API/JSClassRef.cpp	82/83
Source/JavaScriptCore/API/JSClassRef.h	6/6
 /Source/JavaScriptCore/API/JSContextRef.cpp 	48/100
/Source/JavaScriptCore/API/JSObjectRef.cpp	243/306
/Source/JavaScriptCore/API/JSProfilerPrivate.cpp	0/8
/Source/JavaScriptCore/API/JSRetainPtr.h	11/11
/Source/JavaScriptCore/API/JSStringRef.cpp	38/41
 /Source/JavaScriptCore/API/JSStringRefCF.cpp 	10/10
 /Source/JavaScriptCore/API/JSValueRef.cpp 	151/179
/Source/JavaScriptCore/API/JSWeakObJectMapRefInternal.h	0/7
/Source/JavaScriptCore/API/JSWeakObjectMapRefPrivate.cpp	0/24
/Source/JavaScriptCore/API/OpaqueJSString.cpp	10/12
/Source/JavaScriptCore/API/OpaqueJSString.h	12/15
Source/JavaScriptCore/assembler/	1368/1632
Source/JavaScriptCore/assembler/AbstractMacroAssembler.h	90/93
/Source/JavaScriptCore/assembler/AssemblerBuffer.h	36/37
Source/JavaScriptCore/assembler/CodeLocation.h	31/31
/Source/JavaScriptCore/assembler/LinkBuffer.h	47/48
/Source/JavaScriptCore/assembler/MacroAssembler.h	21/31







Marketing/Sales campaign risks



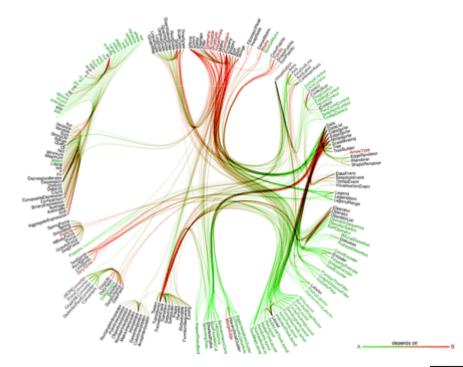




Visibility & Elimination

Top Committers – By LOC

antiweennes	105806
anton	27102
tomasmmm	25017
ekke vaniti	24484
sim	23320
andresen	21540
	20887
runno.si	20623
lkaru	17885
tommi	17154









What are they?

Are they being used?

Are they constrained?



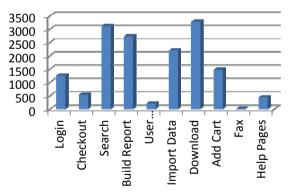
Understanding the Customer



Who they are

What they use (when/how/why)

What is important to them



How do we know how well are we doing?





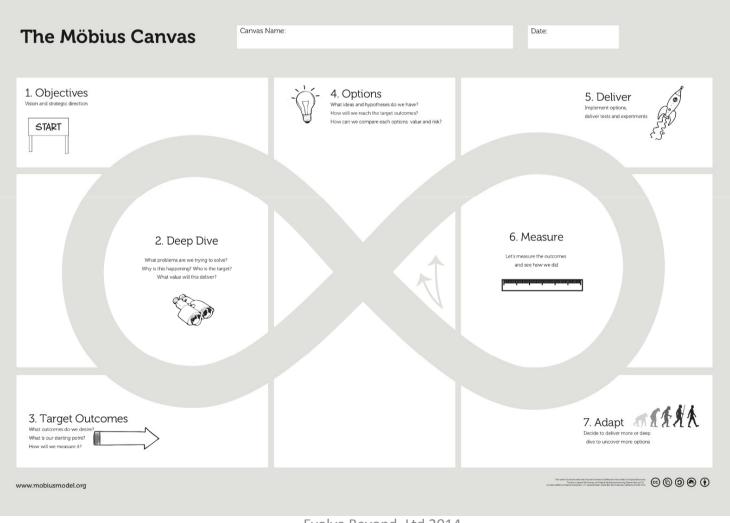


Improving information flows

Building shared context



Building a Continuous Improvement Loop







Fewer Surprises Less Waste Improved Priority Alignment Metrics are useful to everyone Collaborative continuous improvement





QUESTIONS?

@leandevops
rbenefield@evolvebeyond.com
http://cloudagility.blogspot.com





Please evaluate my talk via the mobile app!

