

SEARCHING DATE
OVERVIEW
SCOT SKYOB ADDRESS

TestExpo™



GO DIGITAL

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Transform Your Business - Combine industry best practices on Design Thinking, Lean Startup, Agile Development, DevOps, and Cloud to build and deliver innovative solutions

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Disruptors are reinventing business processes and leading their industries with digital transformations

Frontline decision making

New **mobile** apps are consolidating decision making at the fingertips of people who need to act

Real-time, insight-driven processes

Insight from **nontraditional data sources** is infused in business processes to create new business moments

Digital innovation

New innovations are leveraging **design thinking** and are delivered by composing digital services from a broad ecosystem

How can we deliver the **right**
outcomes at the **speed** the
market demands?

IBM Bluemix Garage Method



**Innovate.
Disrupt.
Transform.
Fast.
@Enterprise Scale.**



To learn more visit:
ibm.com/devops/method

Culture To Successfully Innovate Rapidly Business & IT Must Become Aligned & Lean

Development **Design** **Business**
Ops



IBM Cloud

Culture

Foundational
values and principles

Agile principles



Diverse Teams

include primary **Organizational** roles
importance of **Autonomous, co-located**
Aligning Dev & Ops



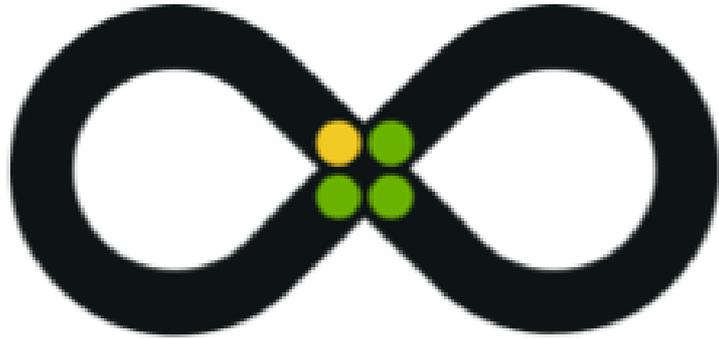
Think

“Designers...don’t try to search for a solution **until they have determined the real problem**, and even then, instead of solving that problem, they stop to consider a wide range of potential solutions.

Only then will they finally converge upon their proposal. This process is called ‘design thinking.’ ”

DON NORMAN

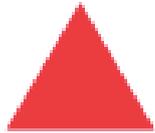




Observe

Reflect

Make



Hills



Playbacks



Sponsor
users



Hypothesis



Minimum
Viable
Product

IBM Design Thinking

Scales design thinking to complex distributed projects

Helps cross-functional team deliver the experience, not just design it

Establishes shared practices

Applied at the Bluemix Garage

Emphasizes elements of Lean Startup

Hypotheses & assumptions

Define Minimum Viable Product to reduce risk and cost by building the smallest possible solution needed to test your assumption

Code

Generation, enhancement,
optimization and testing of
features



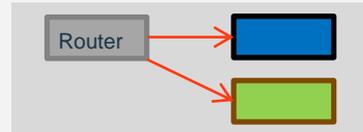
Daily Standup
Small Batch
Automated Test
Continuous Integration



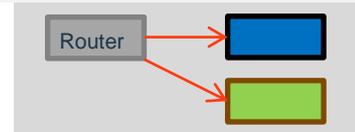
Deliver

Automated production and delivery of offerings

Continuous Delivery



Blue/Green deploy



Blue/Green deploy

IDS Pipeline: Automated build, test, and deployment to 3 Production Datacenters in 30 minutes

Pipeline: All Stages

Build	Unit Tests	Deploy to Test	SEO Build	Acceptance Test	E2E Tests	License Scan	Deploy to Production (Dallas)	Deploy to Production (UK)	Deploy to Production (Sydney)
<p>STAGE PASSED</p> <p>LAST INPUT: Latest commit by Bruno Ties 23 hr ago</p> <p>JOB: Notify Timeline Succeeded 23 hr ago, Build Succeeded 23 hr ago, Verify Deplo... Succeeded 23 hr ago</p> <p>LAST EXECUTION RESULT: Notify Timeline 110, Build 110, Verify Deployment Script...</p>	<p>STAGE PASSED</p> <p>LAST INPUT: Stage: Build / Job: Build</p> <p>JOB: Test Succeeded 23 hr ago</p> <p>LAST EXECUTION RESULT: No results</p>	<p>STAGE PASSED</p> <p>LAST INPUT: Stage: Build / Job: Build</p> <p>JOB: Deploy Succeeded 23 hr ago, Notify Timeline Succeeded 23 hr ago</p> <p>LAST EXECUTION RESULT: bmmethod-test-green, Build 110</p>	<p>STAGE PASSED</p> <p>LAST INPUT: Stage: Build / Job: Build</p> <p>JOB: Deploy Succeeded 23 hr ago, Build Rende... Succeeded 23 hr ago</p> <p>LAST EXECUTION RESULT: Build Rendered Pages 115, bmmethod-seo, Build 110</p>	<p>STAGE PASSED</p> <p>LAST INPUT: Stage: SEO Build / Job: Bu...</p> <p>JOB: Deploy to B... Succeeded 23 hr ago, URL Verific... Succeeded 23 hr ago, Sitemap Ver... Succeeded 23 hr ago</p> <p>LAST EXECUTION RESULT: Build Rendered Pages 115, bmmethod-beta-green, Build 110</p>	<p>STAGE PASSED</p> <p>LAST INPUT: Stage: SEO Build / Job: Bu...</p> <p>JOB: Run Functio... Succeeded 22 hr ago</p> <p>LAST EXECUTION RESULT: Run Functional Test 76</p>	<p>STAGE PASSED</p> <p>LAST INPUT: Stage: SEO Build / Job: Bu...</p> <p>JOB: Run License... Succeeded 22 hr ago</p> <p>LAST EXECUTION RESULT: Run License Scan 62</p>	<p>STAGE PASSED</p> <p>LAST INPUT: Stage: SEO Build / Job: Bu...</p> <p>JOB: Deploy to D... Succeeded 3 d ago, Notify Timeline Succeeded 3 d ago, Noisy Google Succeeded 3 d ago</p> <p>LAST EXECUTION RESULT: bmmethod-green, Build Rendered Pages 108</p>	<p>STAGE PASSED</p> <p>LAST INPUT: Stage: SEO Build / Job: Bu...</p> <p>JOB: Deploy to UK Succeeded 3 d ago</p> <p>LAST EXECUTION RESULT: bmmethod-green, Build Rendered Pages 108</p>	<p>STAGE PASSED</p> <p>LAST INPUT: Stage: SEO Build / Job: Bu...</p> <p>JOB: Deploy to S... Succeeded 3 d ago</p> <p>LAST EXECUTION RESULT: bmmethod-green, Build Rendered Pages 108</p>

Run

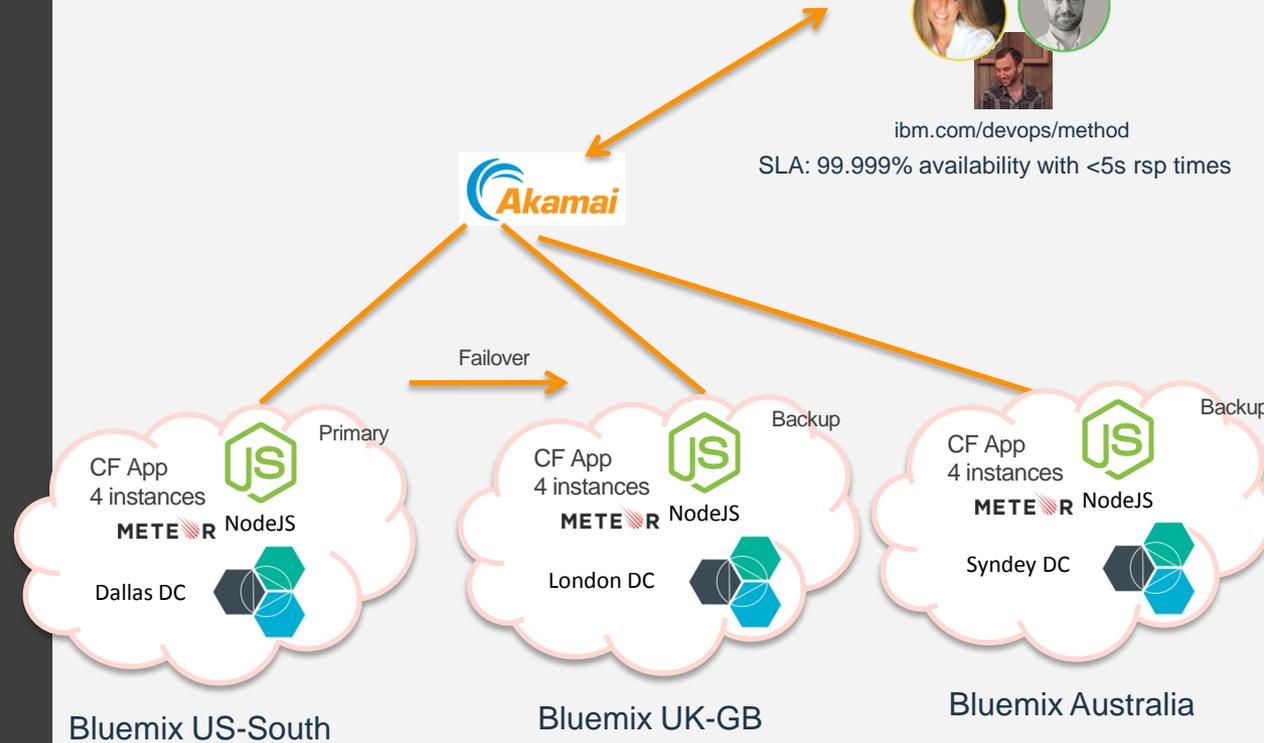
Services, options, and capabilities required to run offerings

High Availability Active-Active Instance in each DC Active-Standby across Regions



ibm.com/devops/method

SLA: 99.999% availability with <5s rsp times



Run: How fast do you want to take your clients to the cloud?

From idea to production MVP in 4-10 weeks on Bluemix

Manage

Ongoing monitoring, support, and recovery of offerings



- Monitors:
- IBM URL
 - Dallas
 - London
 - Sydney

Synthetic



Monitors availability from 9 locations around the world.

Incident



collaborate



Page, SMS



On Call Engineer



Escalation



Operation Manager

timeline



Learn

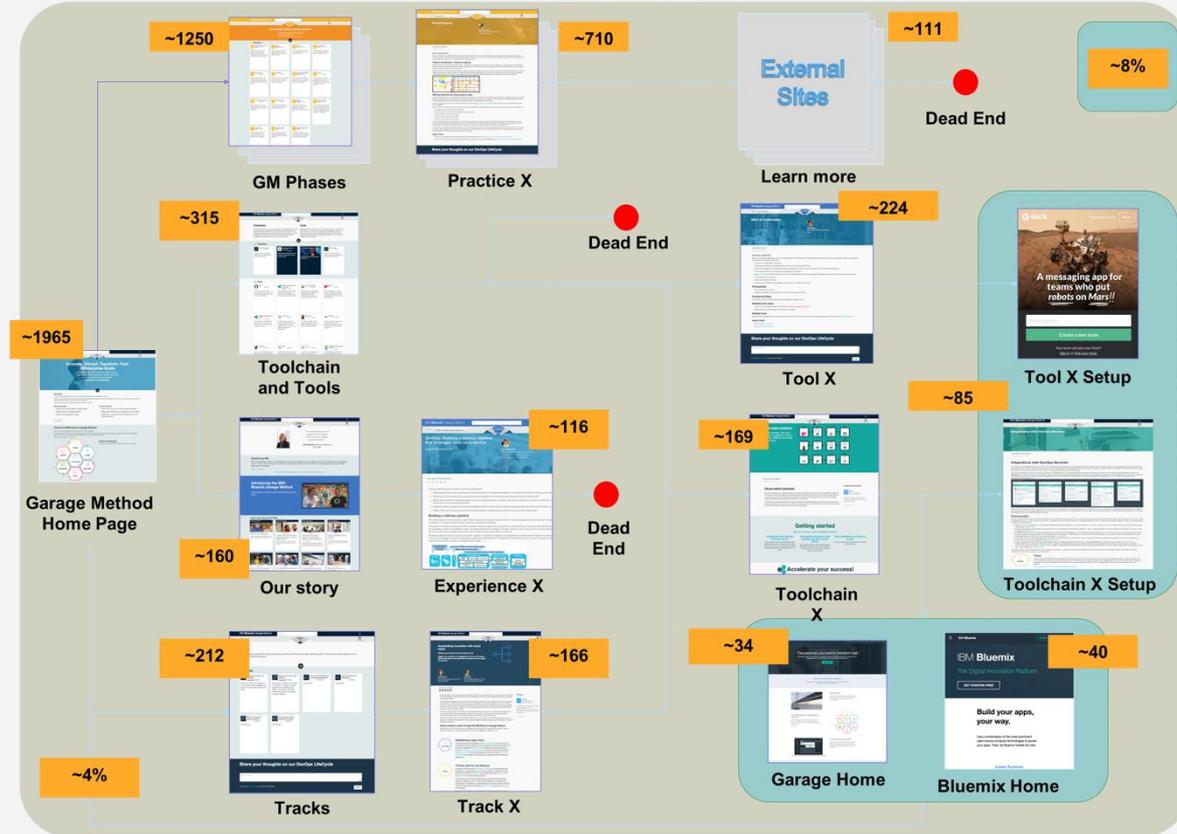
Continuously learn based on outcomes from experiments

Hypothesis Driven Development



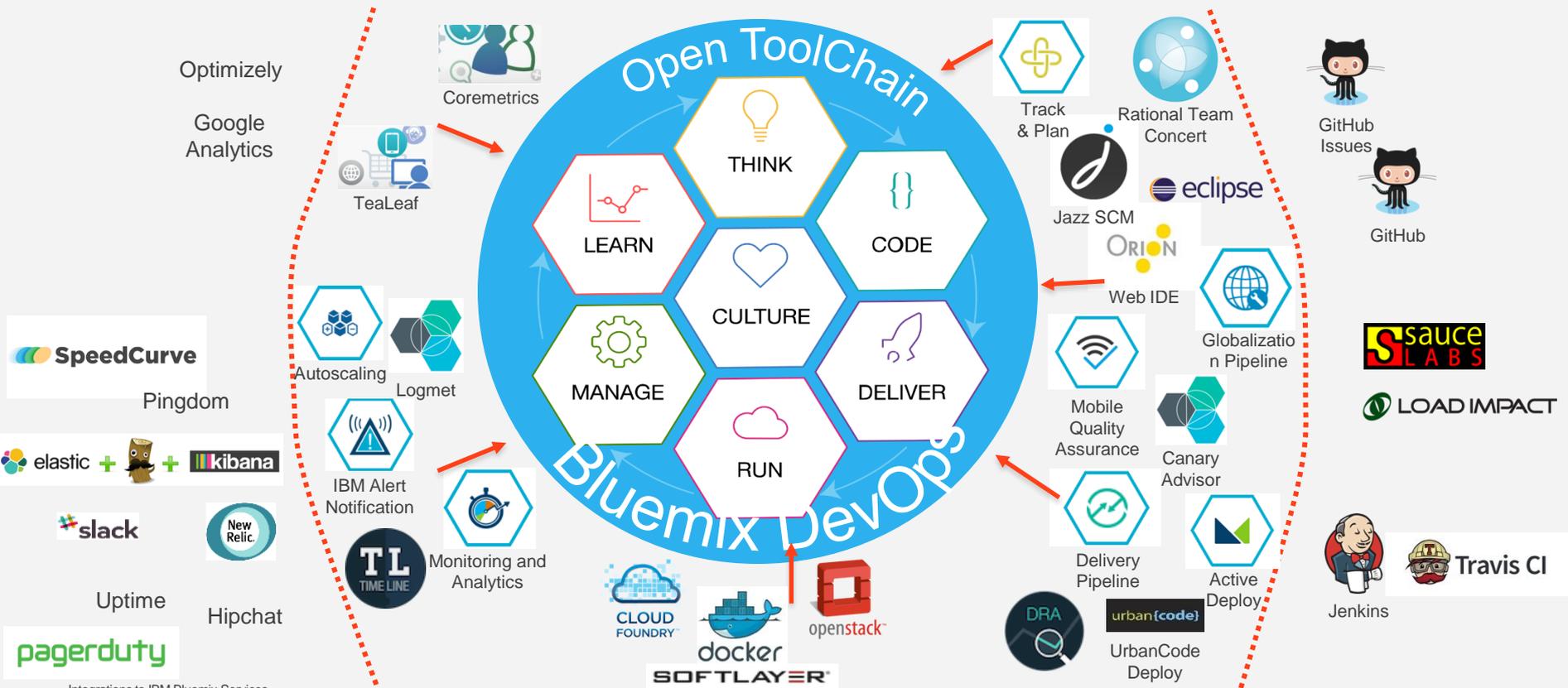
Garage Method Engage Content
The current primary paths

Page Views 1 WEEK Jan 31-Feb 6th



Open Toolchains

Rapidly setup and manage an integrated delivery toolchain following DevOps best practices

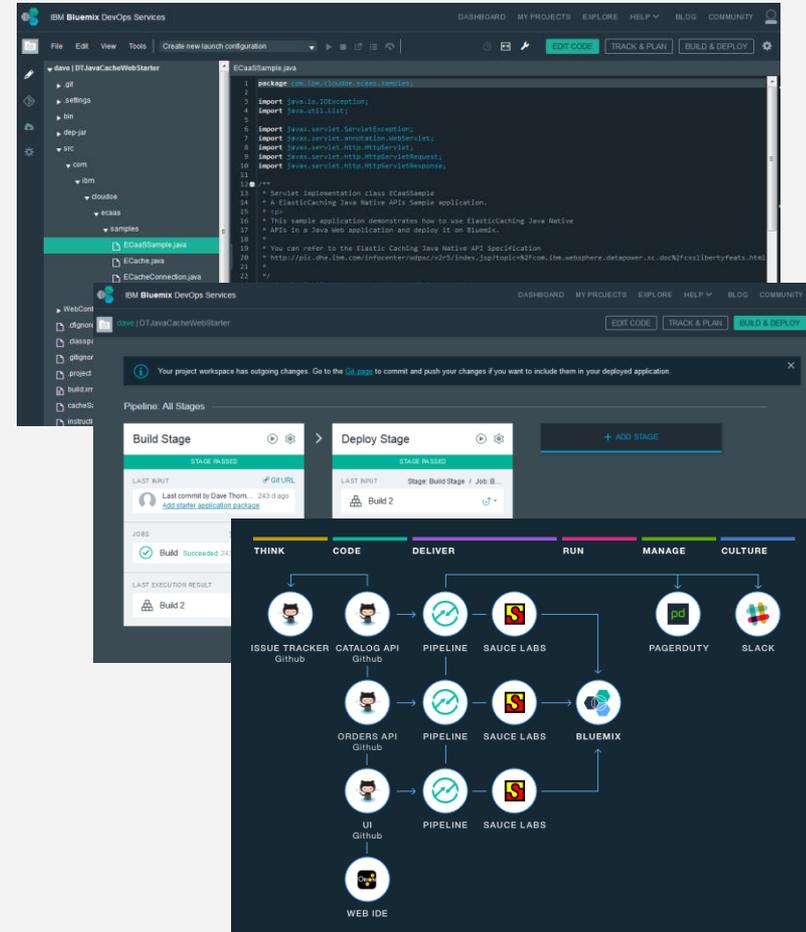
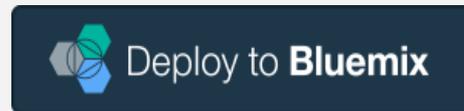


Integrations to IBM Bluemix Services, IBM Cloud Marketplace Partners, and other 3rd party Services

IBM Bluemix DevOps Services Next

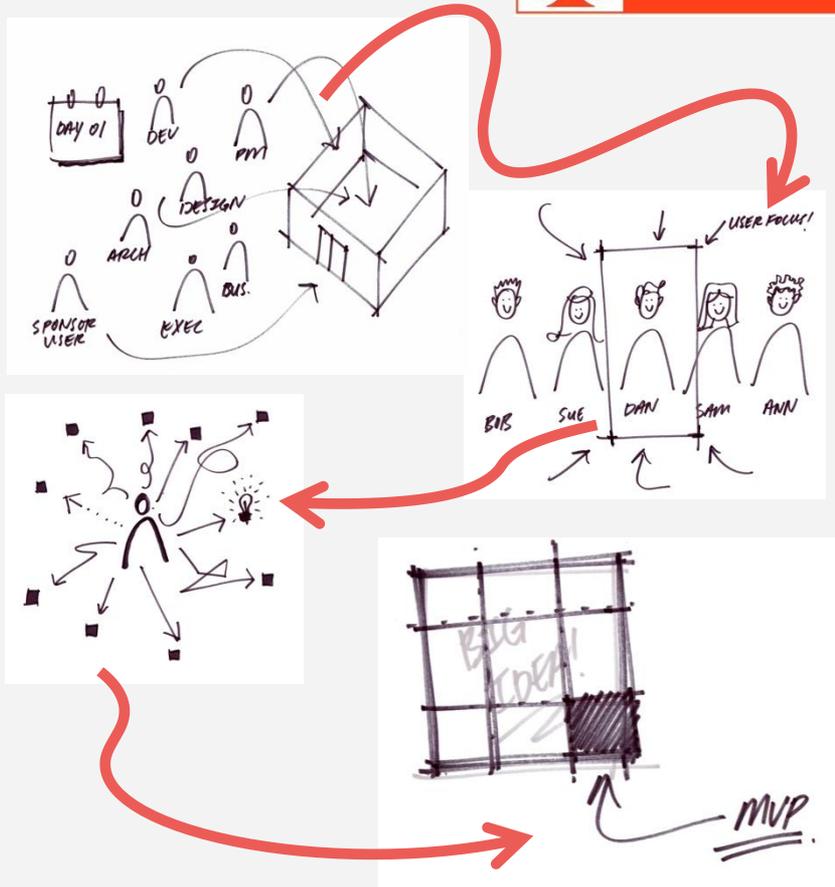


- ▶ Best-of-breed industry toolchains
- ▶ Ease of **acquisition & deployment** – on-line marketplace, common terms and conditions, single source of support, automatic tool configuration
- ▶ Ease of **integration** – single Sign-on, notifications, data/status passing, workflow
- ▶ **Customizable** toolchain **templates**, DevOps **Intelligence** – aggregate tool output and analytics on application and delivery process
- ▶ Available for Bluemix Public, Dedicated, Local
- ▶ **One click setup**



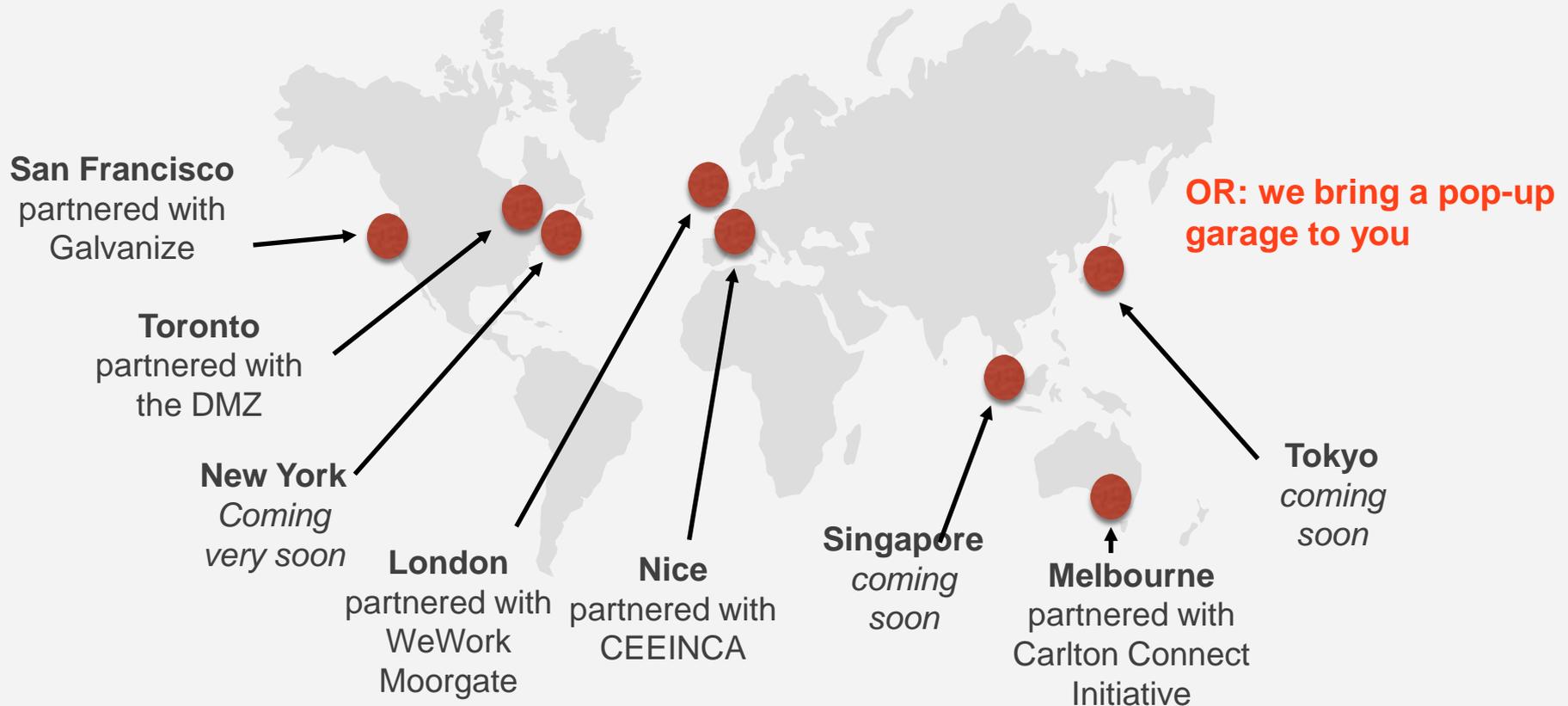


A visit to the Garage



Exciting spaces

in some of the most innovative cities around the globe:



Get Started

Enabling Practices, Architecture, Toolchains



- ▶ Bluemix Garage Method (<https://www.ibm.com/devops/method>)
 - Documented DevOps best practices... proven from Bluemix Garage client engagements, Design Studios, and IBM's own internal projects
 - Example applications that demonstrate best-practice architectural patterns
 - Best-of-breed industry toolchains, proven to work well together in real world projects
- ▶ Bluemix DevOps Services
 - One click setup of recommended best-of-breed toolchains, together with examples
 - Customizable templates, so you can define your own
 - Ease of acquisition & deployment – on-line marketplace, common terms and conditions, single source of support, automatic tool configuration
 - Ease of integration – user management, notifications, data/status passing, workflow
 - DevOps Intelligence – aggregate tool output and analytics on application and delivery process
 - Available for Bluemix Public, Dedicated, Local

Client Success

The SilverHook Powerboats logo features the word "SilverHook" in a stylized, italicized font with a registered trademark symbol, and "Powerboats" in a smaller, sans-serif font below it.

SilverHook[®]
Powerboats

"There was a 40% improvement in development time. That translates into financial savings, and also makes this a new opportunity, because it probably wouldn't be possible if it were going to cost more."

Nigel Hook
President, SilverHook Powerboats

The GameStop logo features the word "GameStop" in a bold, sans-serif font, with "Game" in white and "Stop" in red. Below it, the tagline "POWER TO THE PLAYERS" is written in a smaller, white, sans-serif font.

GameStop
POWER TO THE PLAYERS™

"Bluemix [is] the core of our innovation platform so that we can rapidly deploy and test applications both with our partners and with our consumers to deliver the best innovation experience possible."

Charlie Larkin
Senior Director, GameStop Technology Institute

The Pay Per Pulse logo features the words "Pay Per Pulse" in a white, sans-serif font, set against a dark blue background with a circular, glowing effect.

**Pay Per
Pulse**

"Bluemix and SoftLayer transformed our business and have given new levels of power to our customers."

Neil Mulkern
Business Development Director, Pay Per Pulse Ltd.

The Diabetizer logo features the word "diabetizer" in a blue, sans-serif font, with a red and white graphic element resembling a stylized 'd' or a drop. Below it, the tagline "Simplify your diabetes" is written in a smaller, red, sans-serif font.

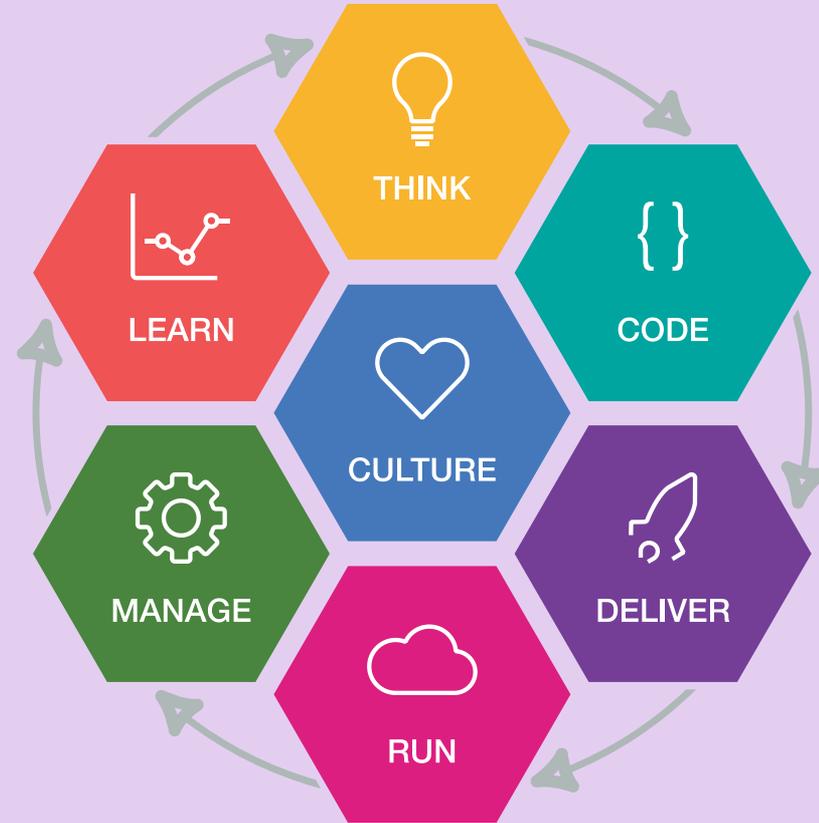
diabetizer
Simplify your diabetes

"By integrating with Bluemix and SoftLayer, we can cut development times significantly, and we no longer need to care about issues like scaling."

Robin Hrassnigg
CEO, Diabetizer

IBM Bluemix Garage Method is IBM's approach to rapidly deliver engaging applications. It combines Design Thinking, Lean, DevOps, and Agile practices – that focus on the cloud, but can benefit any software development effort.

Deliver the **right** outcomes
at the **speed** the market
demands



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