



State of the Cloud

Adrian Cockcroft @adrianco
Technology Fellow - Battery Ventures
August 2016



See www.battery.com for a list of portfolio investments



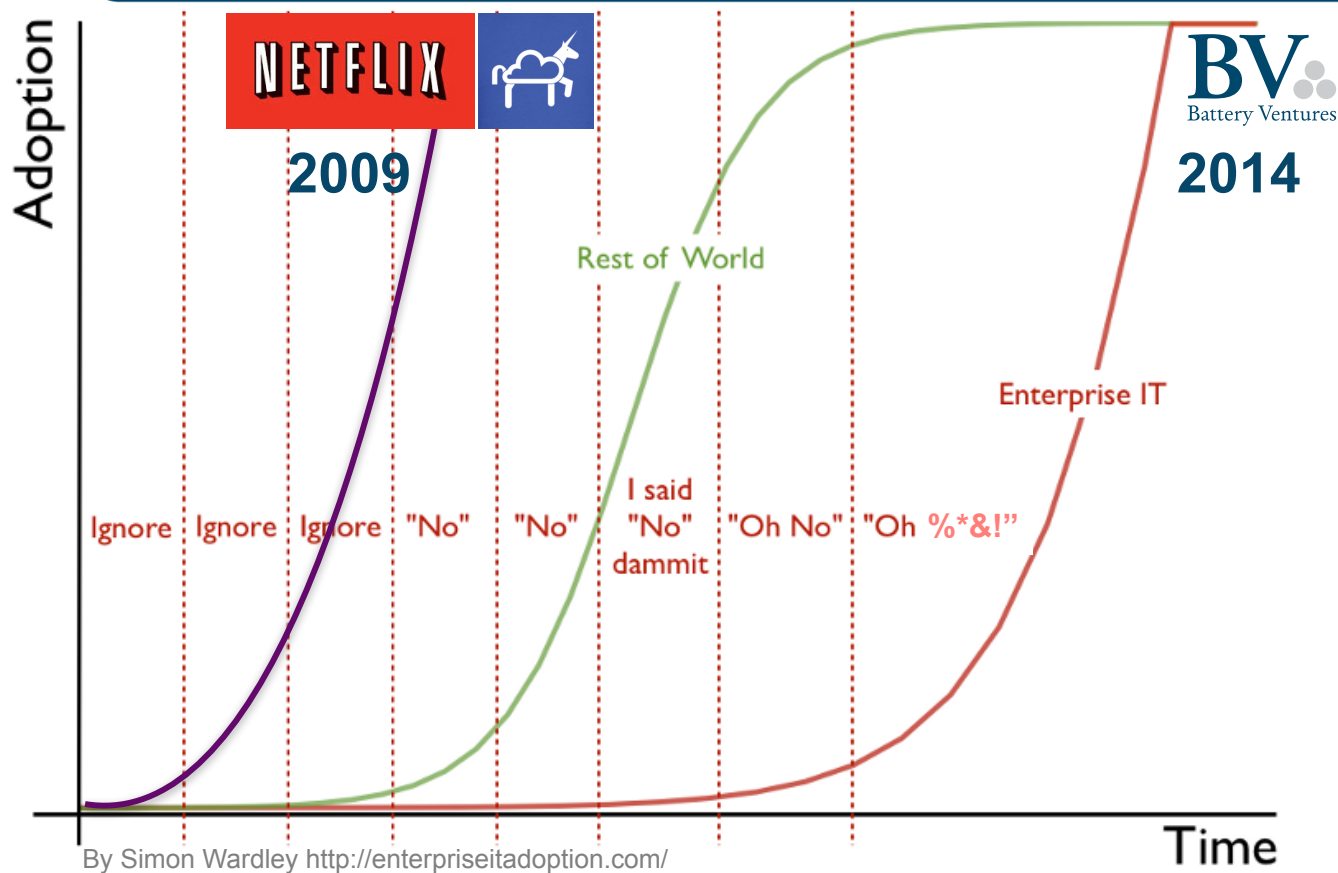
Previous Cloud Trend Updates

GigaOM Structure May 2014
D&B Cloud Innovation July 2015
GigaOM Structure November 2015



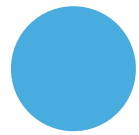
Trends from 2014: Noted as appropriate

Why am I here?

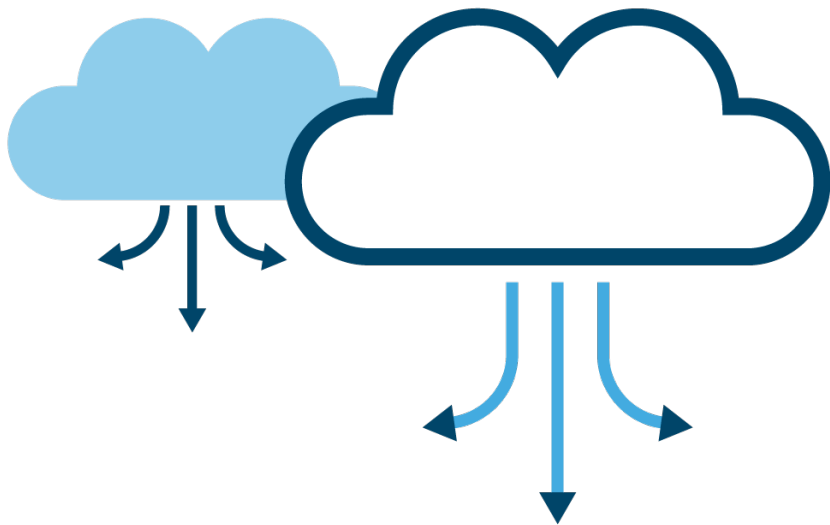


@adrianco's job at the intersection of cloud and Enterprise IT, looking for disruption and opportunities.

Disruptions in 2016 coming from server-less computing and teraservices.

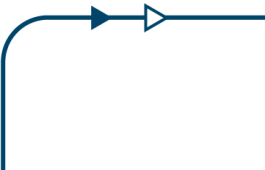


Cloud Ecosystem Matures



*Staying Power
Support
Scale
Location*

Trends from 2014: Even more emphasis on location





In 2014 Enterprises finally embraced public cloud and in 2015 serious deployments are under way.



Lydia Leong
@cloudpundit

Oct 2014

What a difference a year makes. My [#GartnerSYM](#) 1:1s this year, everyone's already comfortably using IaaS (overwhelmingly AWS, bit of Azure).



Follow



Lydia Leong @cloudpundit · Oct 7 **Oct 2015**

We're really seeing serious movement of the banks to the cloud at this point. Huge sea change in attitudes.

adrian cockcroft @adrianco

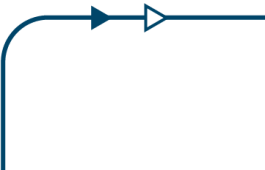
"We can operate more securely on AWS than we can in our own data centers" Rob Alexander of CapitalOne #reinvent



Safe Bets

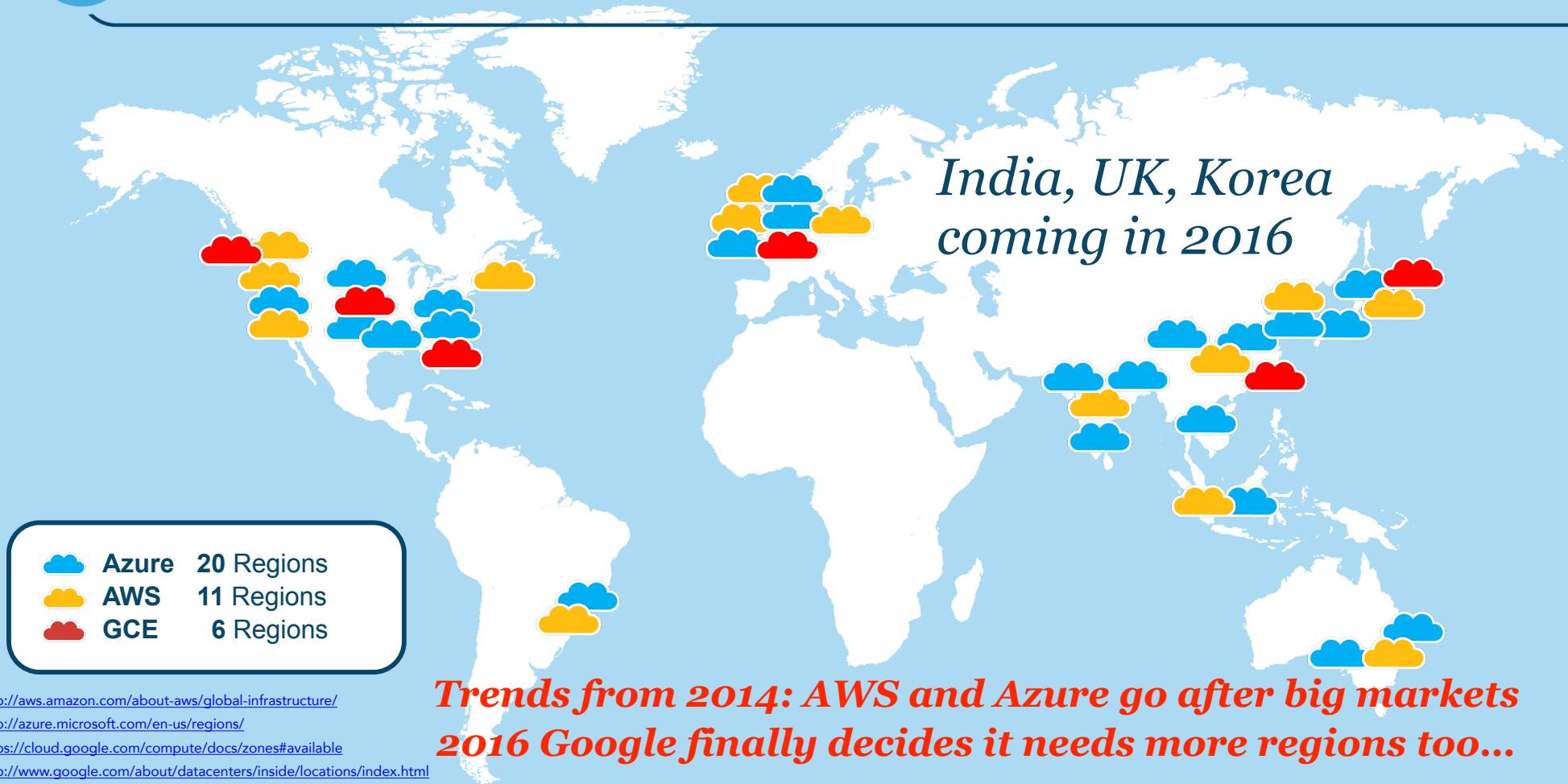


***Trends from 2014: AWS capacity share vs. Azure still growing
AWS growing 60% year on year, Enterprise share growing fast
Azure providing strong Linux and Open Source support***





The Global Land-Grab





*Who is challenging
VMware for in-house
cloud automation?*

**Questions we keep
hearing about cloud**

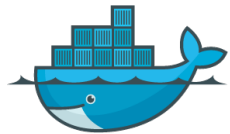


Challenges for Private Cloud

vmware®



openstack™



docker



Stability
Functionality
Total Cost of
Ownership



*Some enterprise vendor
responses to cloud and container
ecosystem growth...*





DELL *The ship is sinking, let's re-brand as a submarine!*



EMC² *The ship is sinking, let's merge with a submarine!*

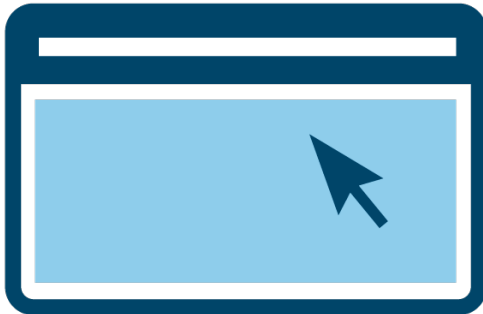
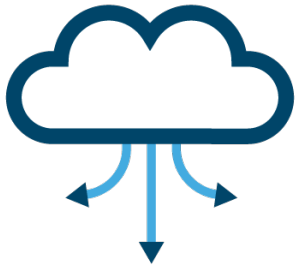


Look! we cut our ship in two really quickly!

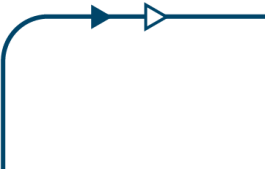
 **Hewlett Packard**
Enterprise

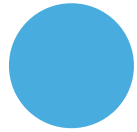


What Next?



Microservices
Serverless
Teraservices





Serverless Architectures

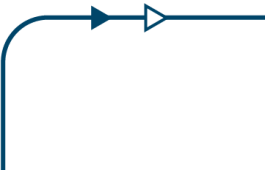


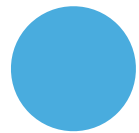
AWS Lambda - early reports of cost savings >90%

Google Cloud Functions alpha launched

IBM OpenWhisk - open sourced

Startup activity: iron.io , serverless.com, apex.run toolkit





Teraservices Memory Options



Now: Diablo DDR4 Flash DIMM

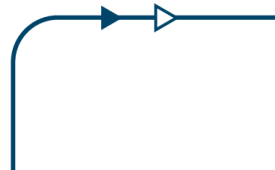
8x capacity per socket of DRAM DIMM!

Shipping now as volatile memory, future non-volatile

Announced but not shipped for 2016

AWS X1 Instance Type - over 2TB RAM

Easy availability should drive innovation





Thanks!

Adrian Cockcroft @adrianco

<http://slideshare.com/adriancockcroft>

<http://github.com/adrianco>

Technology Fellow - Battery Ventures

August 2016



Battery Ventures

See www.battery.com for a list of portfolio investments



Enterprise IT



Visit <http://www.battery.com/our-companies/> for a full list of all portfolio companies in which all Battery Funds have invested.