

Scaling Software Delivery Challenges We Face 10 Years into the DevOps Movement

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**DEVOPS
WORLD**
by CloudBees

All about me - Sanjeev Sharma

- 25+ Years experience in Software Development and Delivery, Cloud Adoption and Data Modernization
- Head of Automation and Platform Engineering at Truist
- Led the Data Modernization Practice at Delphix
- Former IBM Distinguished Engineer, and IBM's 1st CTO for DevOps Adoption owning the DevOps practice
- Conference Keynote speaker, Blogger, Podcaster and Vlogger
- Author of two bestseller books:
 - *DevOps For Dummies*: <https://ibm.biz/BdsPMX>
 - *The DevOps Adoption Playbook*: <http://amzn.to/2hH7rt2>



DevOps: Origins

2009:

10+ Deploys Per Day: Dev and Ops Cooperation at Flickr, Velocity Conference talk by John Allspaw and Paul Hammond, Flickr/Yahoo

2010:

Continuous Delivery, Jez Humble, ThoughtWorks

2012:

IBM Acquires UrbanCode
CA Acquires Nolio

2013:

The Phoenix Project, Gene Kim, Kevin Behr, George Spafford
DevOps For Dummies, IBM Edition, Sanjeev Sharma

Software Delivery:

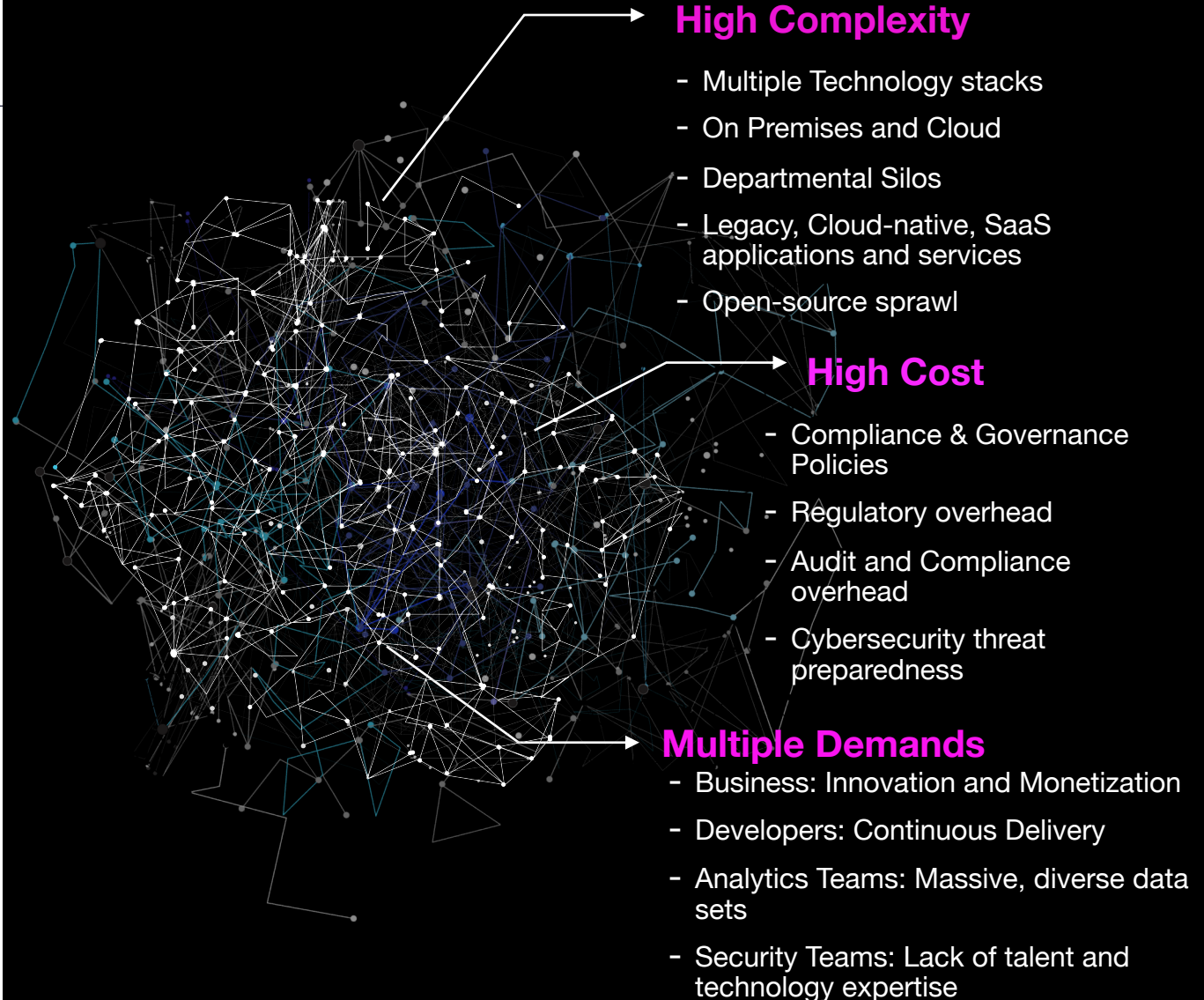
High Complexity

High Cost

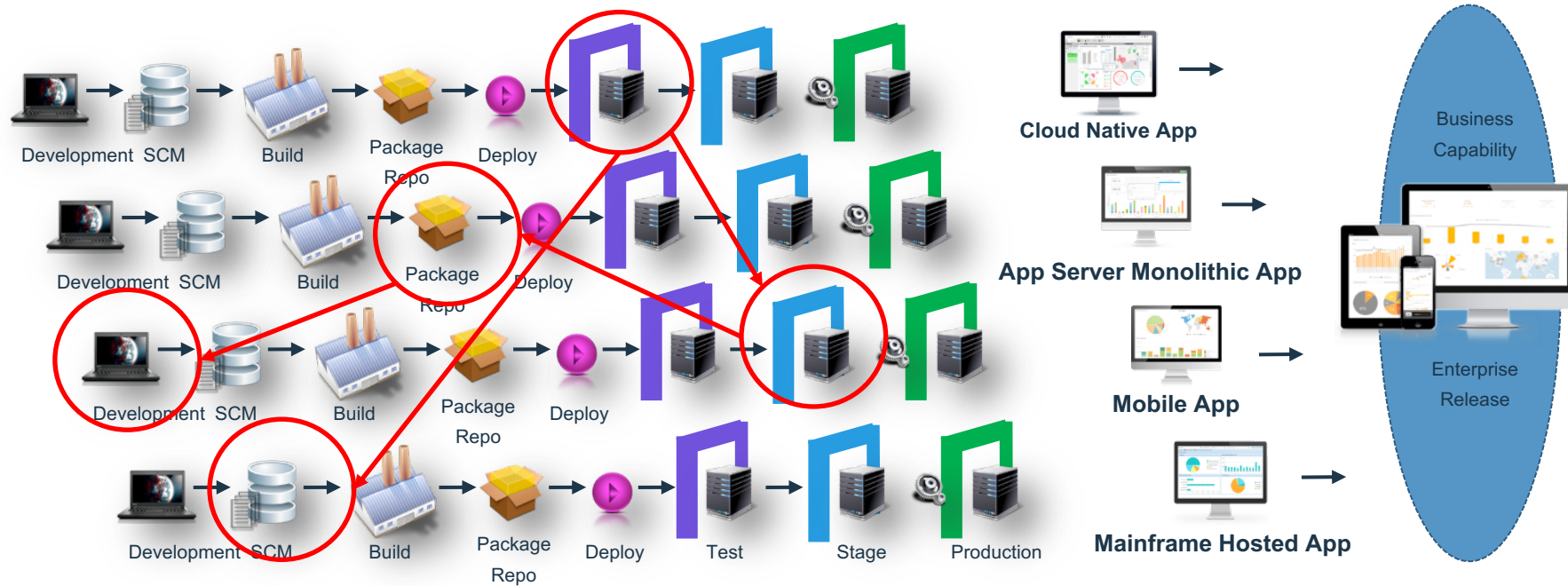
Multiple Demands

Business Initiatives:

- Create New Revenue Streams
- Improve Quality
- Accelerate Time to Market
- Comply with Regulations



Scaling Adoption in the Enterprise



Conway's Law

The boundaries of components and sub-systems in a large complex system being delivered, will always end up reflecting the boundaries of the teams that are responsible for the components, and the pathways of communication between those teams.

Survey Says:

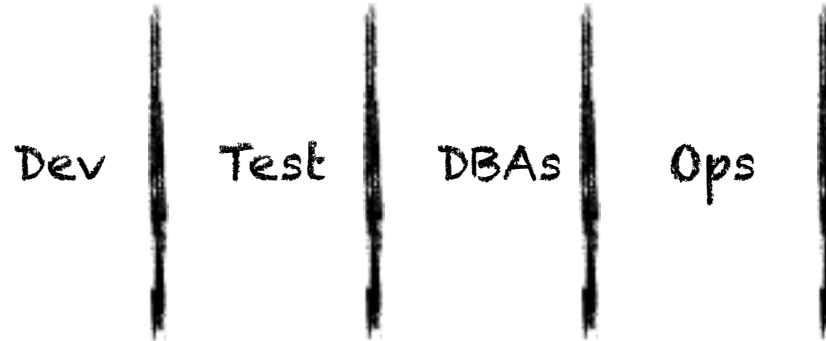
- More than 60% of survey respondents said functional silos still exist in their organizations.
- More than 85% of the survey respondents said silos impede the free flow of information across the organization.

- *State of Software Delivery Management Survey*

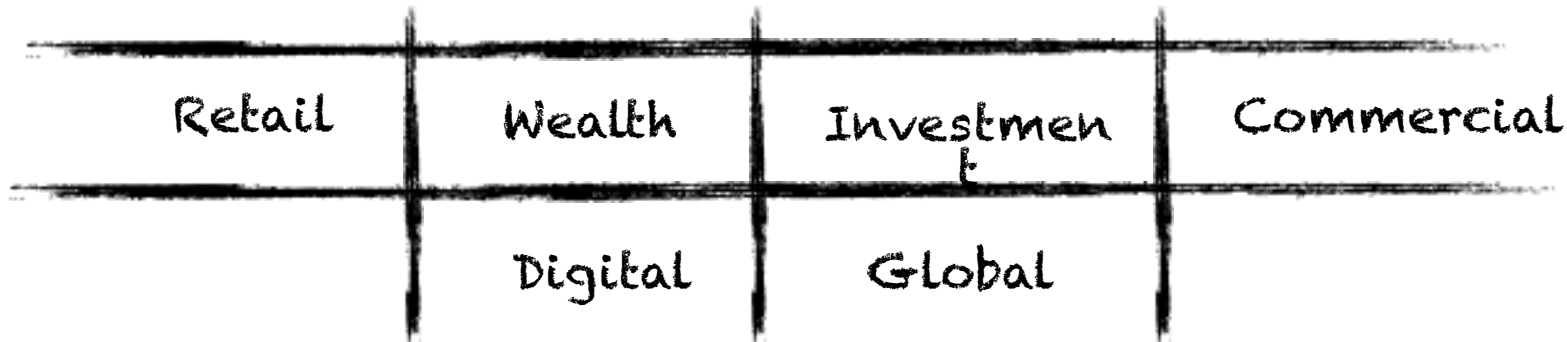
<https://accelst.com/state-of-software-delivery-mgmt-exec-summary-2020/>

Silos, Silos everywhere

Functional Silos

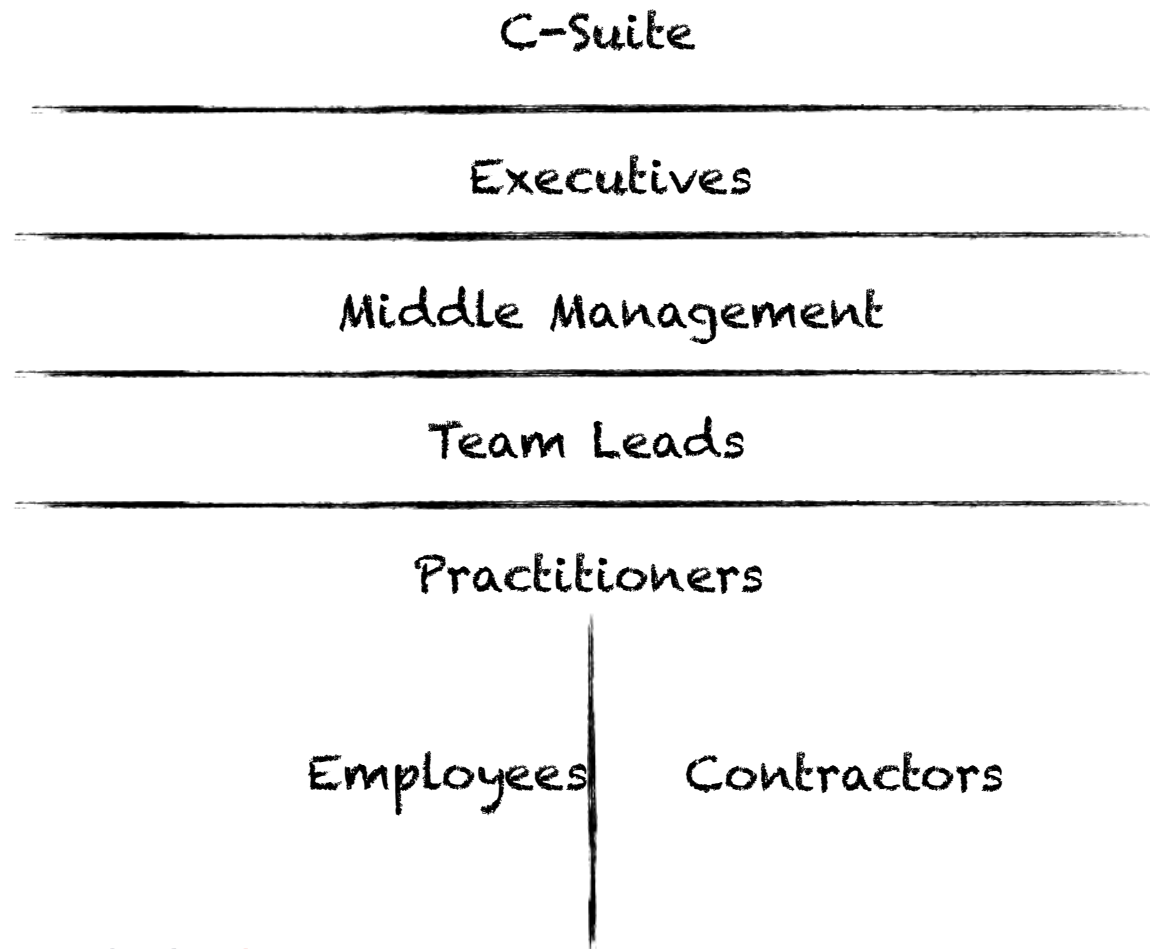


Organizational Silos



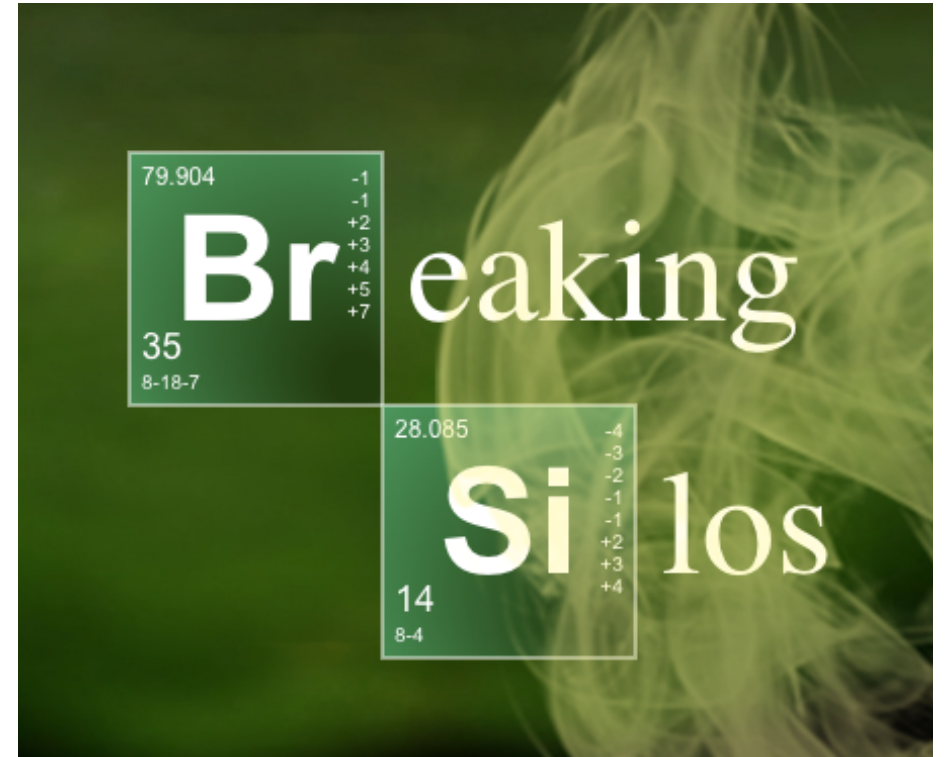
Management chains are Silos too

Hierarchical Silos



Breaking Silos = Flow of data

Data needs to flow across application delivery pipelines to the stakeholders and decision makers who need the data, as and when needed.



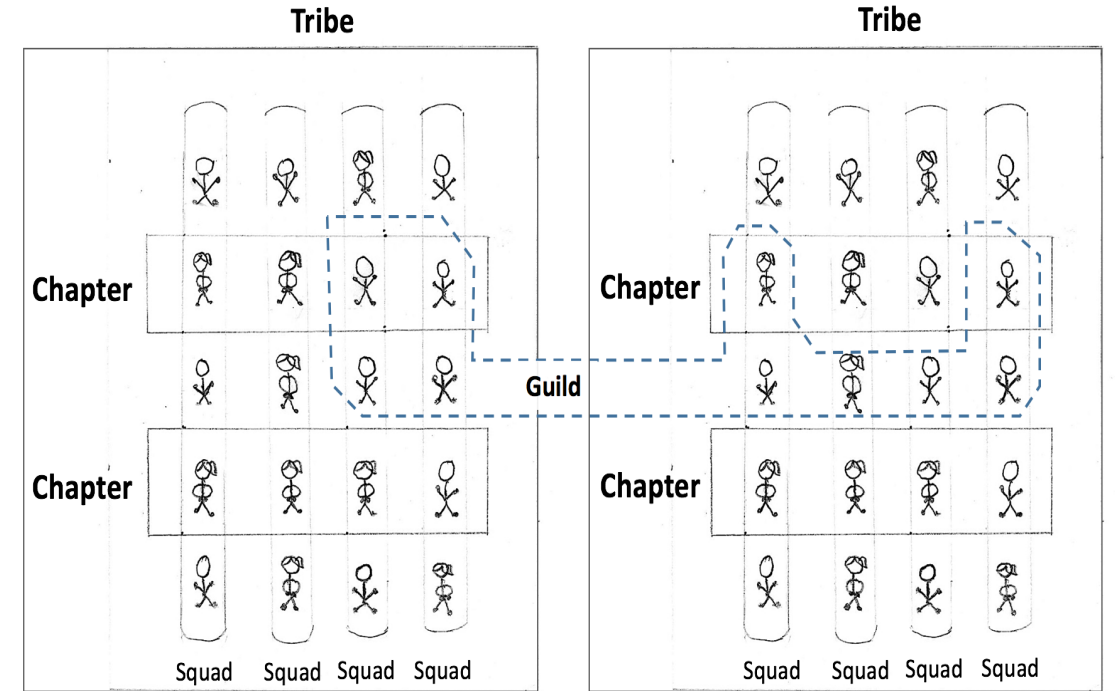
Culture

Everyone is responsible for the
Delivery of Business Value



Organizational Change

- *Squad-Tribe-Guild Team Model*
- Standardization of Dashboards and Metrics
- Software Delivery as a business process



Questions