

How Fast Can You Move? – Leveraging the Cloud to Accelerate Digital

Thomas Aidan Curran

May 15, 2018 – EEX Group Think Tank Meeting

The Cube, Eschborn

“Successful companies obviously have people with **ideas and energy**.

– Hasso Plattner

Flow 1: Speed

Automating Software Delivery

- Driven by the Cloud
 - AWS (10 000 releases / day)
 - Azure
 - Google Cloud Platform
- Open Source
 - Docker
 - Jenkins
 - Ansible
 - GitHub (over 50 million repositories.)
- Languages
 - Go (End of Java)
 - JavaScript (End of OO)
- Massive Collaboration
 - Slack
 - Skype
 - GitHub
- Security
- Hardware is the new software
 - Tensor Processing Units (TPU)
 - GPU

Flow 2: Financial Systems

Automation Impacts Delivery

- Long Delivery, complex
 - “As time goes on and software products mature complexity is inescapable”
– Ray Ozzie
 - “This mindset is also necessary if we want to see ourselves increasingly as a technology company. We should be more daring and think a bit more like entrepreneurs.”
– John Cryan, Deutsche Bank
- Regulation
 - Markets in Financial Instruments Directive “MIFID 2”
 - Know Your Customer (KYC)
- Risk Management
 - Real time information
 - More, better data
- Blockchain
 - Clearing
 - Settlement
 - Custody
- The age of zero latency

The Vision

	Basis	Tech Partner	Customer Value
Global Scalable Transaction Platform	Cloud Security CDN	Amazon / AWS Google / GCP SAP / SCP Microsoft / Azure	Mobility Resilience Protection
Smart Data + Analytics	Big Data AI / ML RT Internet	Trifacta Apache / Spark Google / Tensorflow & BigTable SAP / Hana	Insights Real-Time Decision Making
Application Programming Interfaces	REST / GraphQL JSON / ProtoBuf OAUTH2	Deutsche Börse /DBP Google / Go Facebook / React Cloud PaaS / SCP, GCP, AWS, Azure	Flexibility Transparency Release Speed
Eco-Systems	PAAS API “Fin Tech”	World Wide Web W3 / HTTPS Internet Engineering Taskforce / TLS Deutsche Börse /DBP Cloud PaaS / SCP, GCP, AWS, Azure	Partnerships New Business Innovation

Four Pillars to Innovation

Leadership

Leading by example
Accepting failure
Assertiveness
Involve everyone
Pioneer Ideas
Honesty

Listen

Culture

Think independent
Collaborative
Growth
Learn
Open
Share

**Infection,
get stuff done**

Organisation

Outshipping the
competition
Communicate
Infrastructure
Productive
Speed

**Challenge everything,
respect principles**

Vision

Scalable Transaction
Platform
Data & Analytics
Eco-system
Digital Go-To-Market
API

“Shoot for the moon”

The Plan in 3 Waves

Wave 1

Outship the Competition

Customer Facing Product Teams

Automation
Agile Teams
Tech + Business

Collaborate
Transparency

Speed Agility
Feature Release

Slack
Github*

Amazon / AWS
Microsoft / Azure

Wave 2

Open and Automate

Digital Platforms

ProductOps
DevOps / SRE
12 Factor

Cloud Security
API

Mindshare
Connectivity

Scale
Mobility

Go
Jenkins

CircleCI
Sonar

IntelliJ
GCP

Wave 3

Faster Go-To-Market

End-to-End Digital Business

Partnership
Ecosystem
Data / Analytics
Innovation

Growth
Open Source
API

Public Data Set /
AWS, Azure, GCP

Market / FX
“Deep Search”

DBP
API

BCP
AWS

AZURE
OAUTH

SCP

*All source code of DBG including Z/OS, VMS, RHEL

“ I believe we are the best place in the world to fail, and failure and invention are inseparable twins.

– Jeff Bezos

Get in Touch

Thank you for your attention

GitHub: [tacurran](#)

Twitter: [@tacurran](#)

LinkedIn: [thomasaidancurran](#)

Web: [thomasaidancurran.com](#)

Email: mail@thomasaidancurran.com