

Microservices @ LeanIX – Then, Now and Tomorrow

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Microservices are key for our journey



LeanIX

6 Product Applications

1 Platform

10 global Kubernetes clusters

>30 Microservices

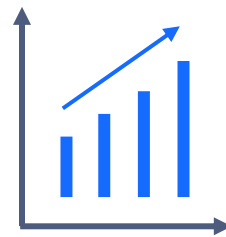
16 Development Teams
in Bonn & Hyderabad

Microservices only work with clear Objectives

Accelerate
Time-to-Market



Scale & Grow



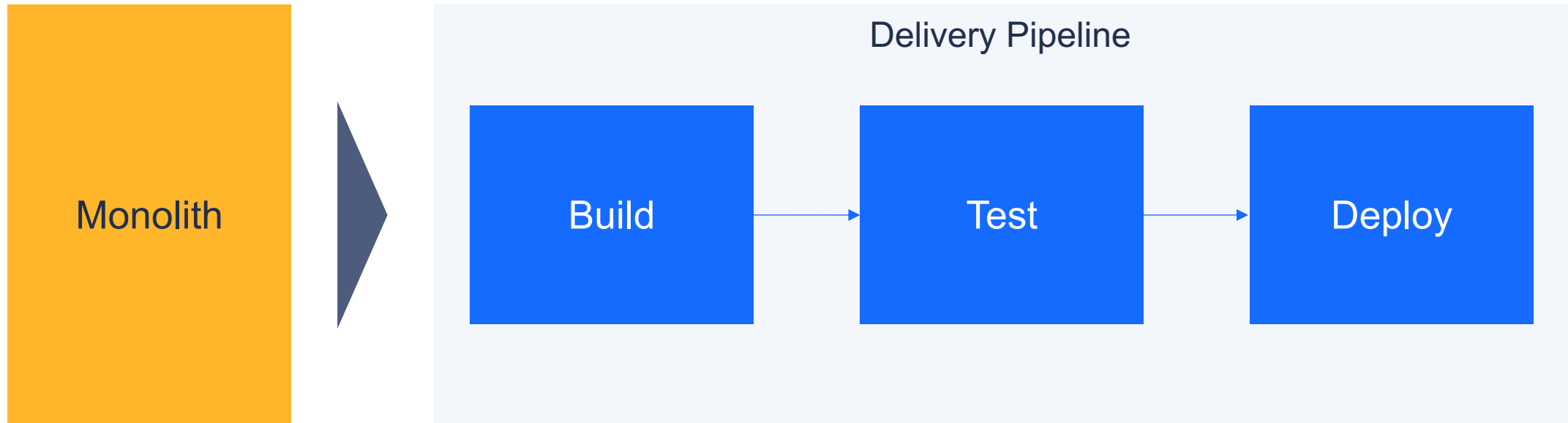
Operate efficiently



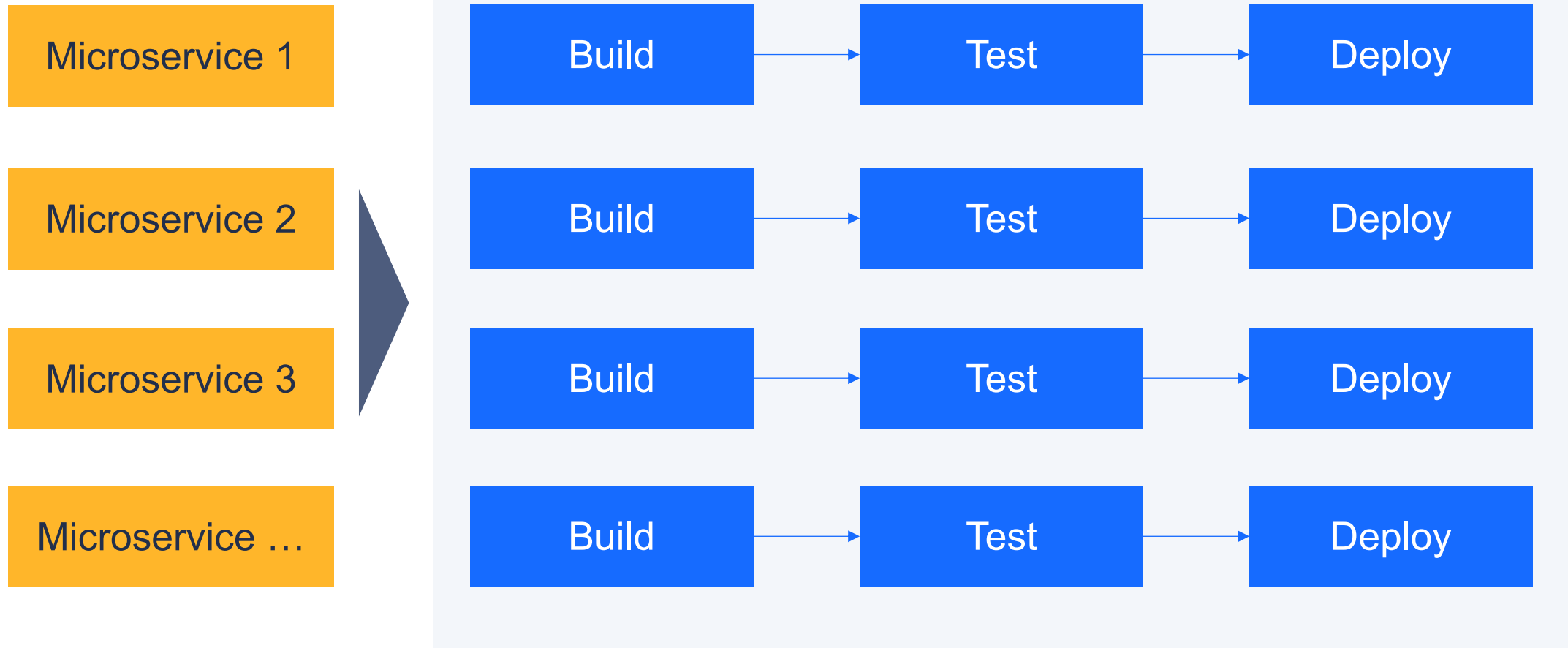
1. Accelerate Time-to-Market



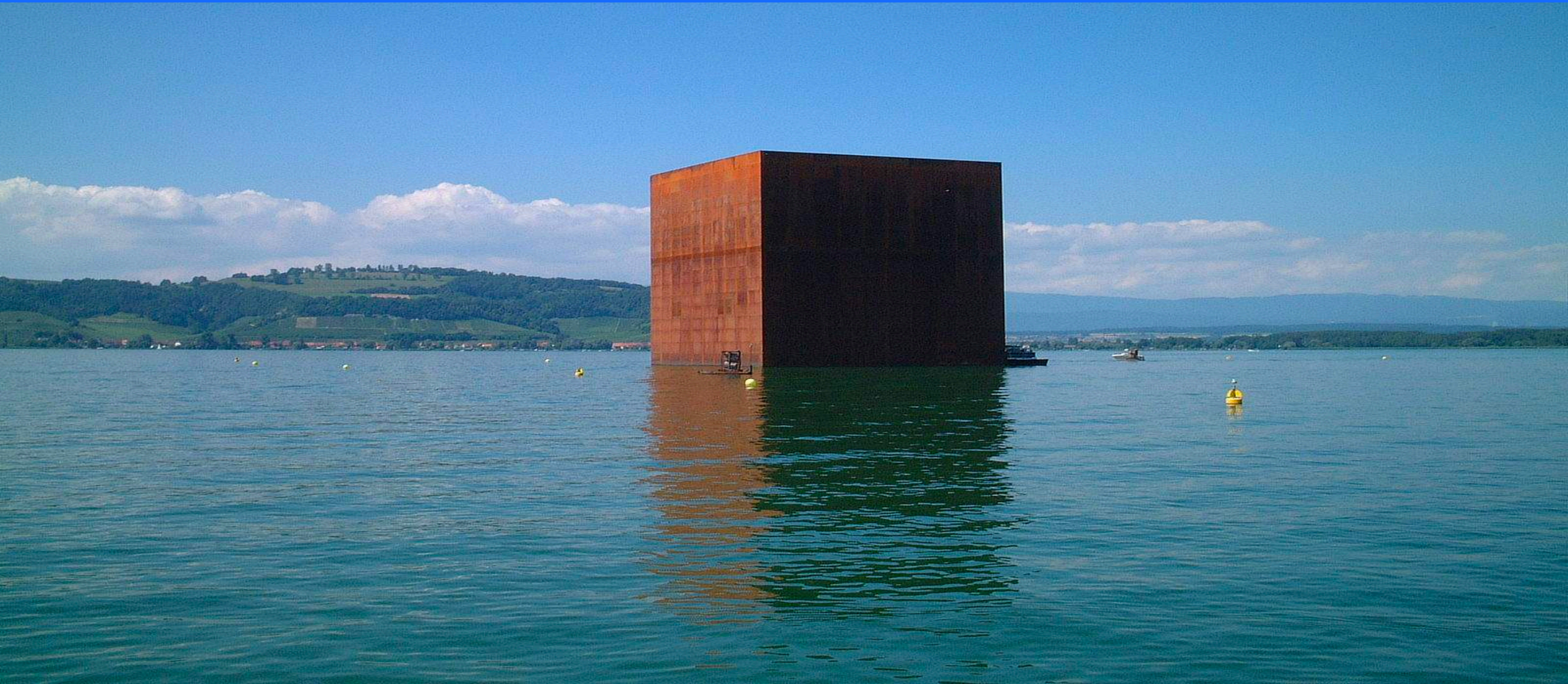
Monoliths suffer from long release cycles

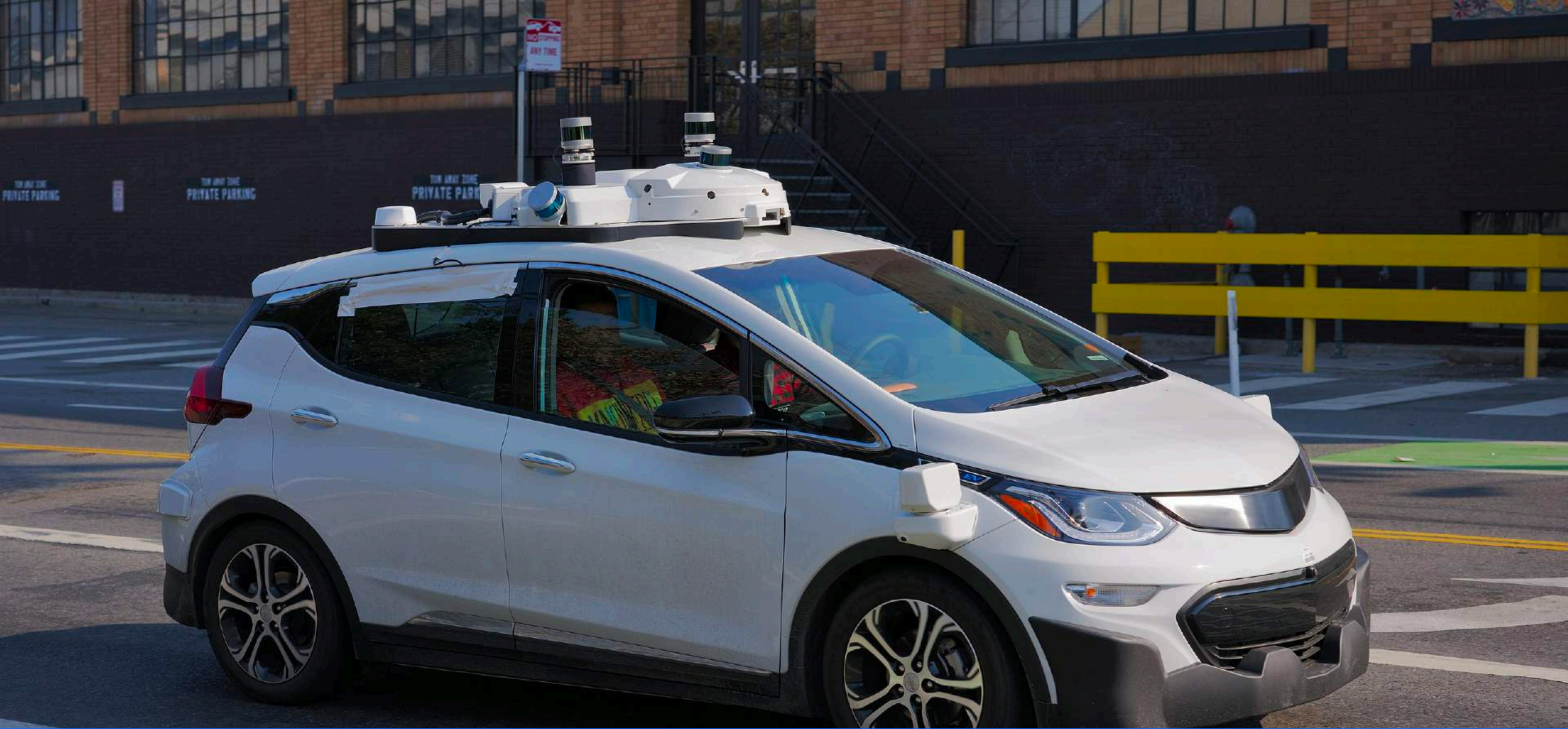


Theory – and Practice?!



“Accept the Monolith”





“Autonomy is a never-ending quest”

Mean Time to Recovery



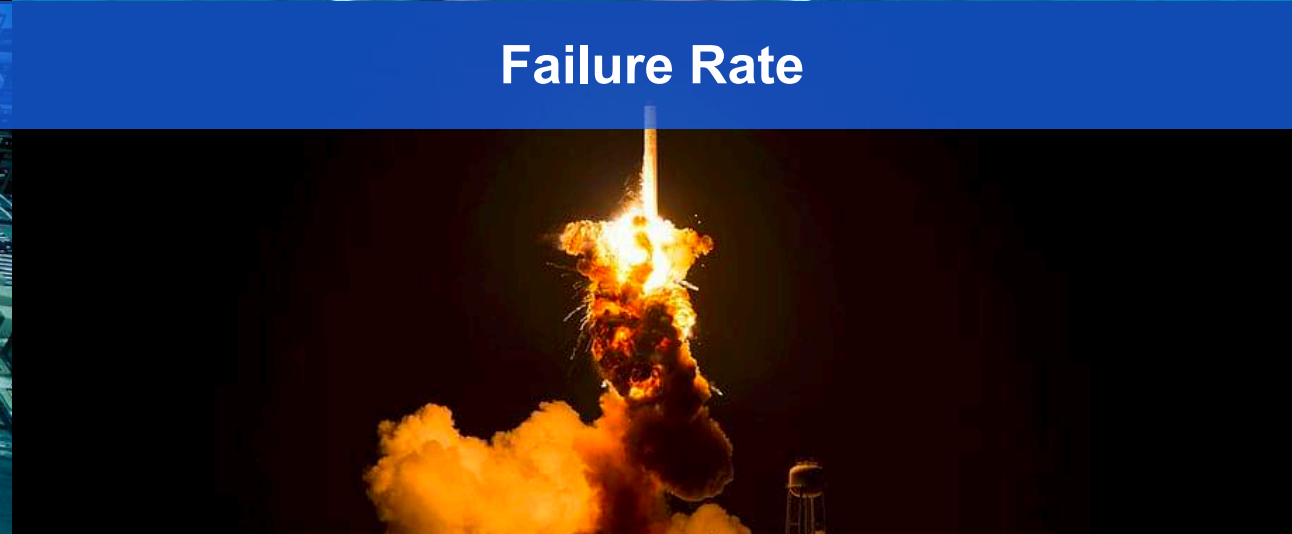
Deployment Frequency



Lead Time



Failure Rate

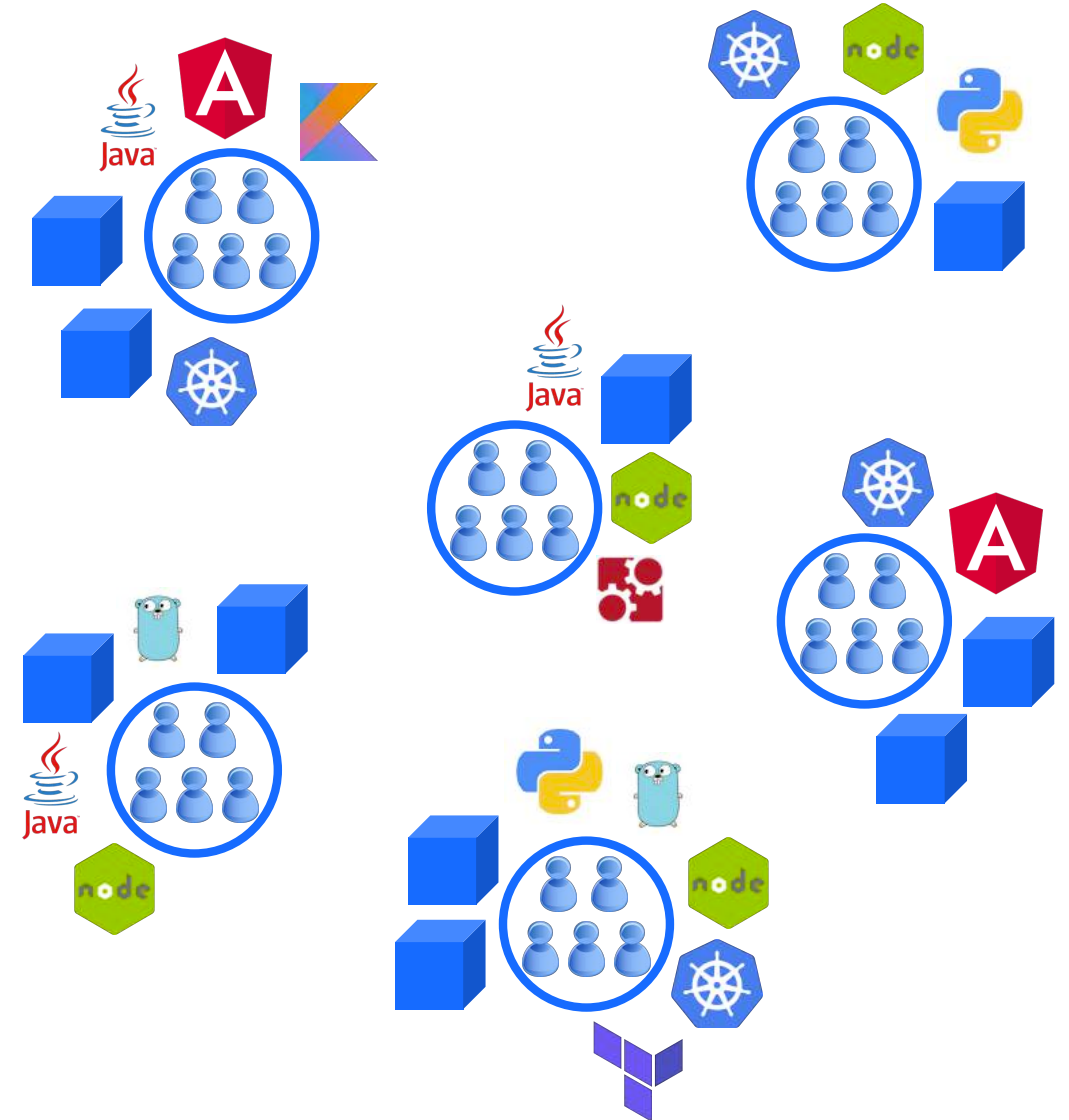
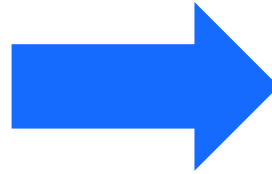
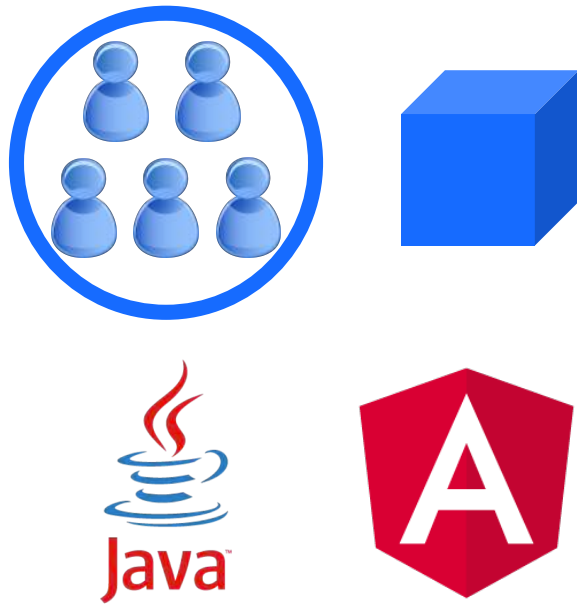


“Measure from day one”

2. Scale & Grow



Embrace diversity...



...but not by all means





**“Protect the bubble –
keep on innovating”**

“Create visibility beyond the dev team”



	Core Platform	Integrations	Reporting			
		Integrations - Confluence	Custom Reports	Dashboard	Diagrams	Standard Reports
Invent	leanix-pathfinder-web	+	+	leanix-pathfinder-web ✕	+	+
Reinvent	leanix-pathfinder-web	+	+	leanix-pathfinder-web ✕	+	+
Tornado	+	leanix-pathfinder-web ✕	leanix-pathfinder-web ✕	leanix-pathfinder-web ✕	leanix-pathfinder-web ✕	leanix-pathfinder-web ✕

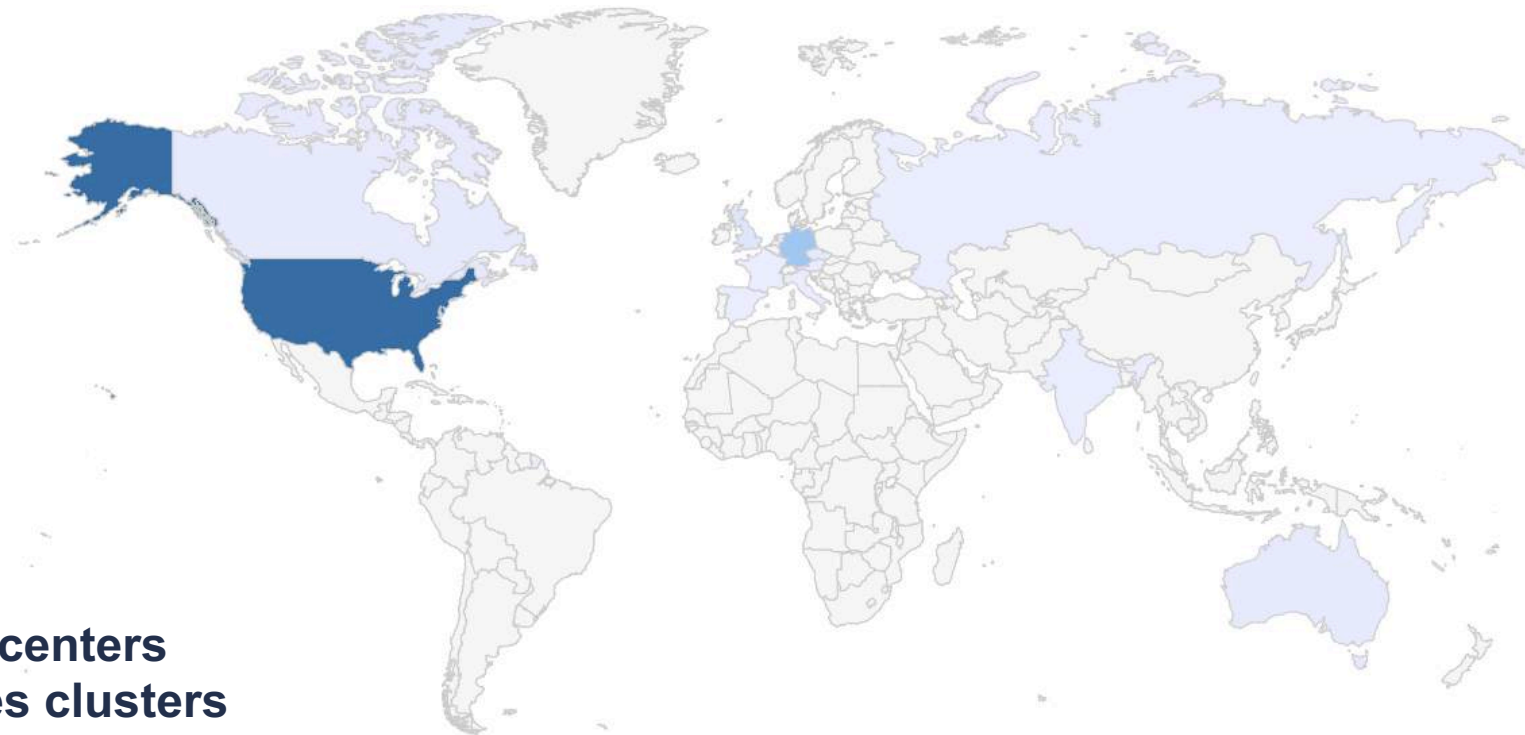


“No Governance-free Zone”

3. Operate efficiently



Costs have become a relevant factor

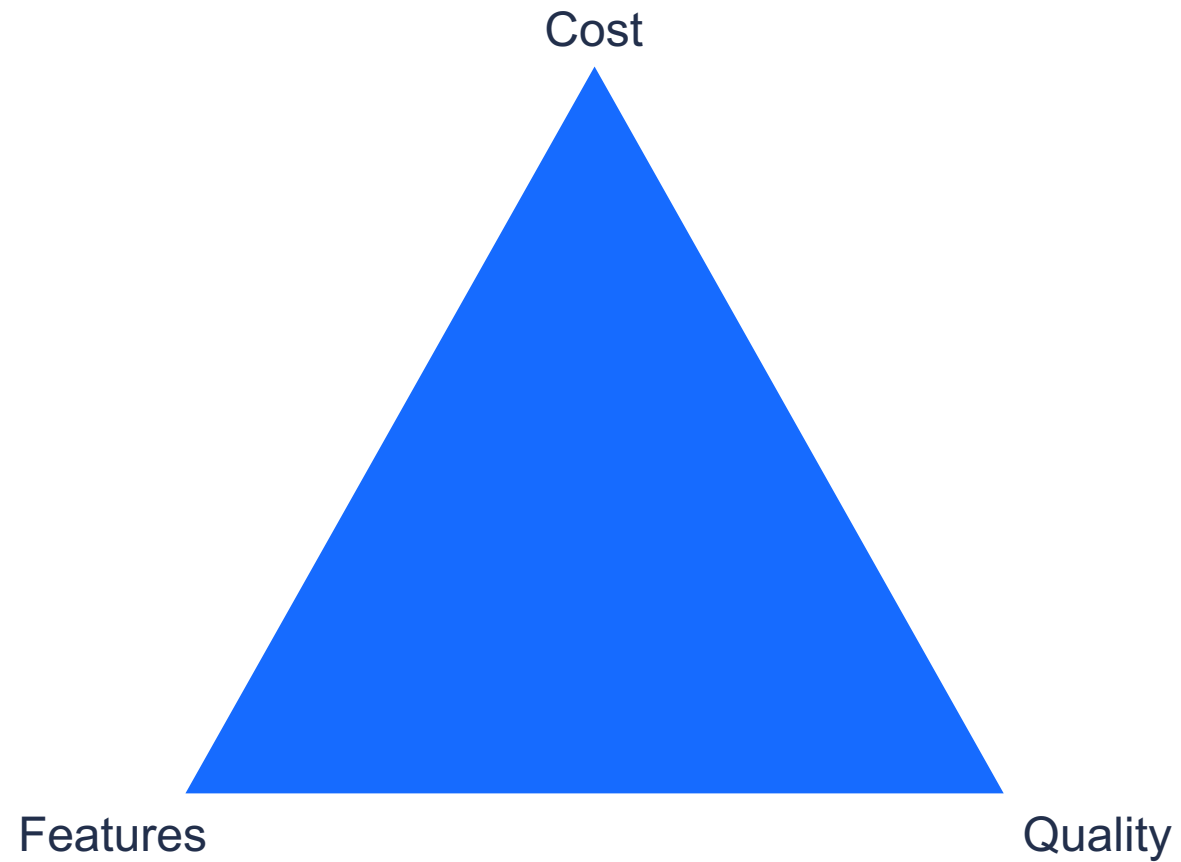


6 Azure data centers
10 Kubernetes clusters
Over 100 databases
Over 500 containers

Technology can help...



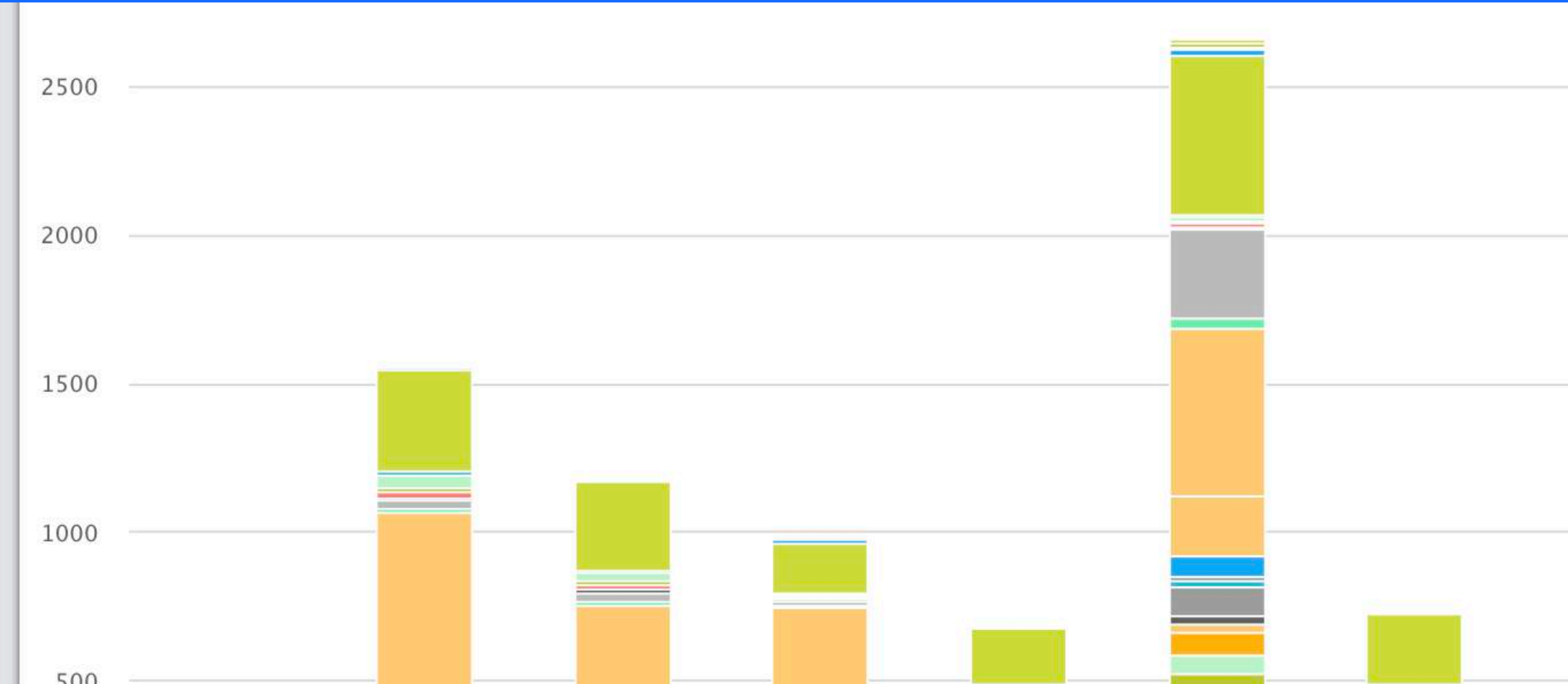
...but should we stop building features?



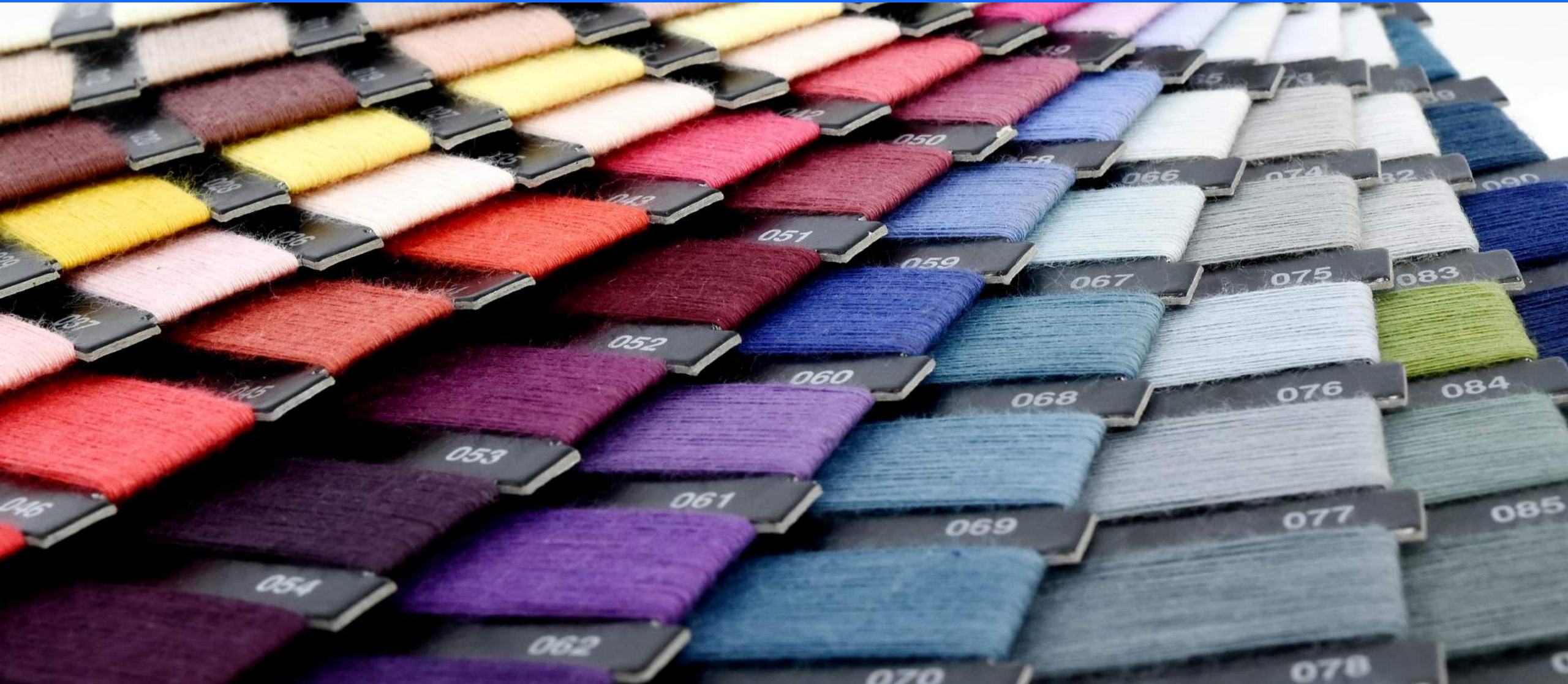


“Make Trade-Offs visible...”

“... and quantifiable”



“Continuously evolve technical skills”



Summary



Our key learnings

Accelerate Time-to-Market: Measure from day one

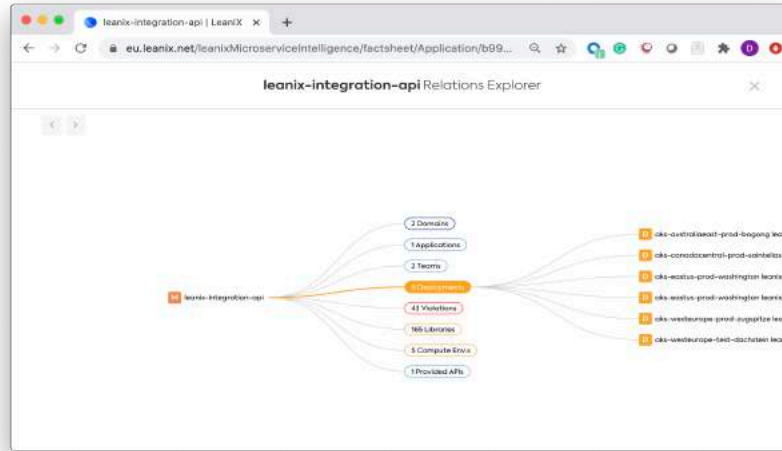
Scale & Grow: Balance autonomy & governance

Operate efficiently: Make trade-offs transparent & quantifiable

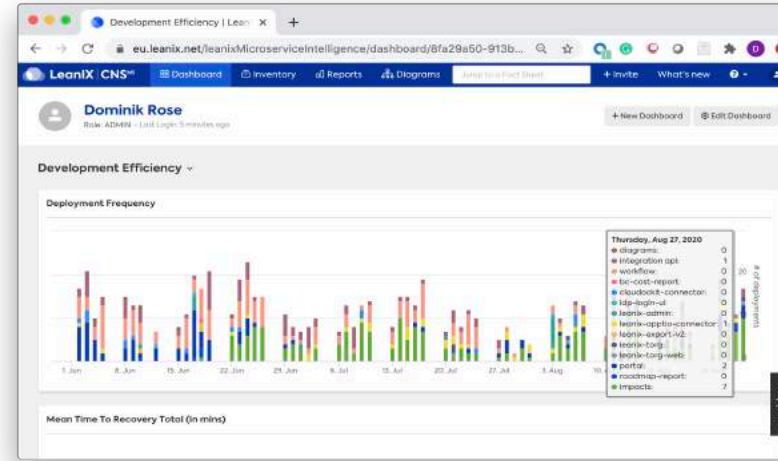
Microservice Intelligence – Early access



Automated data collection



Centrally available KPIs



Transparency beyond the dev team

The screenshot shows a 'Microservice Matrix' table. The table has columns for 'Type Microservice', 'View', 'Lifecycle', and 'Expand Catalogue'. The rows are categorized by team: 'Relevant', 'Team Work', 'Team Business', 'Team Sellers', 'Targ', and 'Terminde'. Each row lists microservices and their dependencies. For example, the 'Relevant' row lists 'leanix-pathfinder' and 'leanix-metrics'. The 'Team Work' row lists 'leanix-pathfinder-web' and 'leanix-pathfinder-web'.

Close Linkage with EAS and CI

The screenshot shows a 'Factsheet' for a cluster named 'aks-australiaeast-prod-bogong'. The cluster is 70% complete. It is linked to Cloud Intelligence. The factsheet includes sections for 'Information 100%' and 'Dependencies 40%'. The 'Information' section lists details like Name, Description, External ID, Category, OS, Kubernetes Version, # of Nodes, Cost last 30 days, and Current cost. The 'Dependencies' section shows 'Parents' and 'What are the parents of this Factsheet?'.

Join the Slack Channel – or reach out to dominik.rose@leanix.net

<https://www.unibw.de/bau/kooperation-autobahn-gmbh-des-bundes>

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[https://en.wikipedia.org/wiki/Cruise_\(autonomous_vehicle\)#/media/File:Cruise_Automation_Bolt_EV_third_generation_in_San_Francisco.jpg](https://en.wikipedia.org/wiki/Cruise_(autonomous_vehicle)#/media/File:Cruise_Automation_Bolt_EV_third_generation_in_San_Francisco.jpg)

<https://www.maxpixel.net/Running-Shoes-Break-Sport-Sports-Shoes-Recovery-4514879>

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<https://pixabay.com/de/photos/antares-orb-3-fehlstart-rakete-532595/>

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