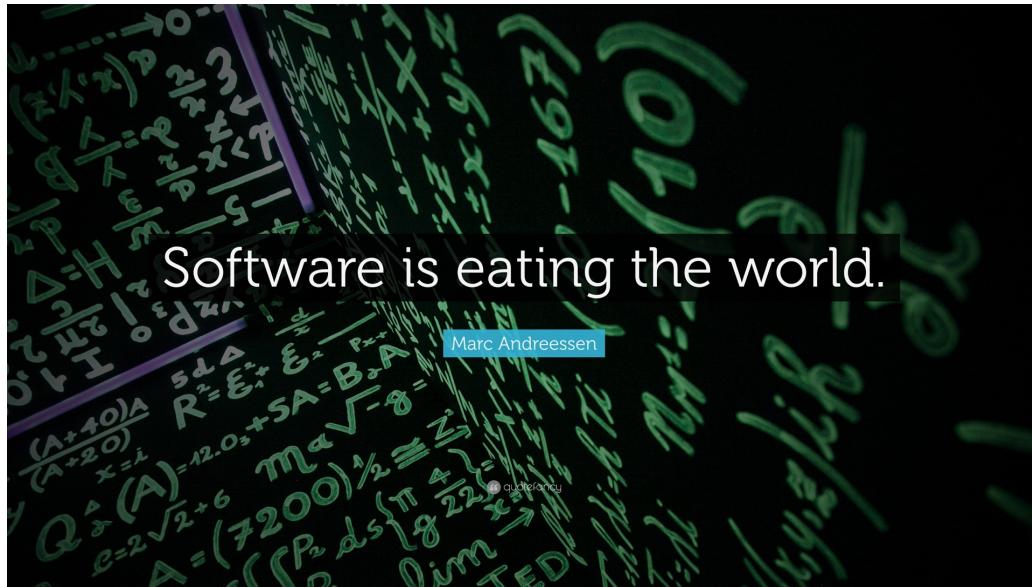


Taming Complexity

The rise of platform engineering
and the developer experience



Software is important – for everyone



**Every company
is a software company**

Satya Nadella - CEO Microsoft



Organisations need to deal with three trends



Software Engineers as key employees

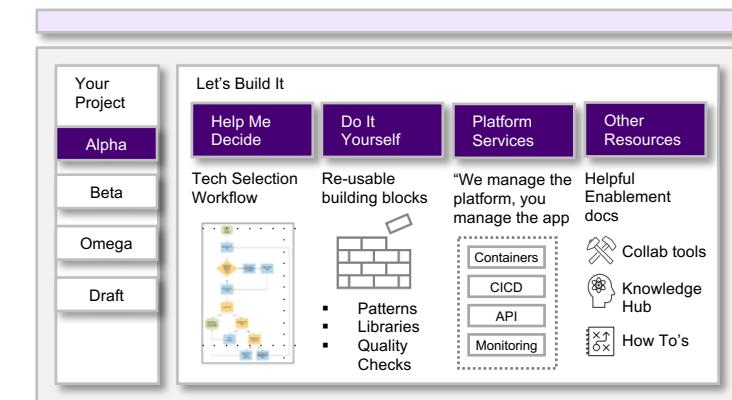
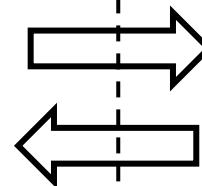


Increasing Complexity in Software Delivery



A more liquid workforce

Platform Engineering and the Focus on the Developer Experience

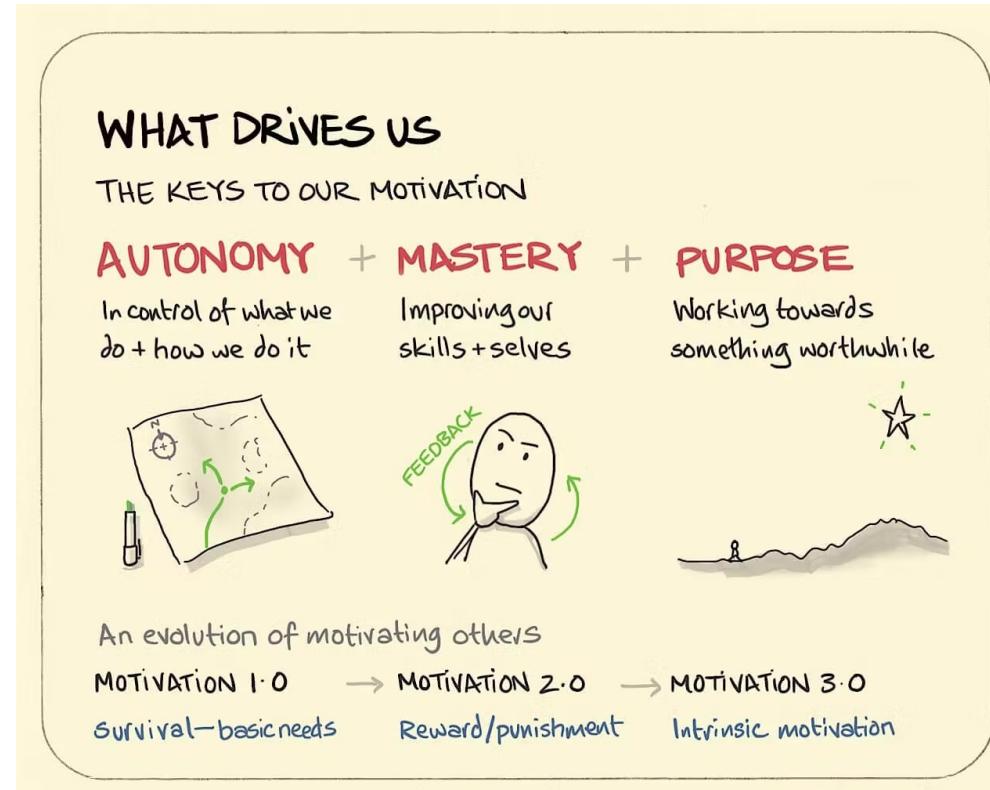


Developer Experience focuses on person in front of the PC.

Platform Engineering focuses on the systems the Developer engages with.



Unleashing the full power of your developers

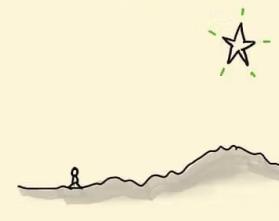




Modern IT principles align to this idea of motivation

PURPOSE

Working towards something worthwhile



Vertical integrated teams

Agile Methods

Product Management

Business Measures

AUTONOMY

In control of what we do + how we do it



Decoupled Architectures

Seamless tooling

Self-service capabilities

Developer Touchpoints

MASTERY

Improving our skills + selves



Technical Mastery from the system feedback

Business Mastery from Stakeholder feedback

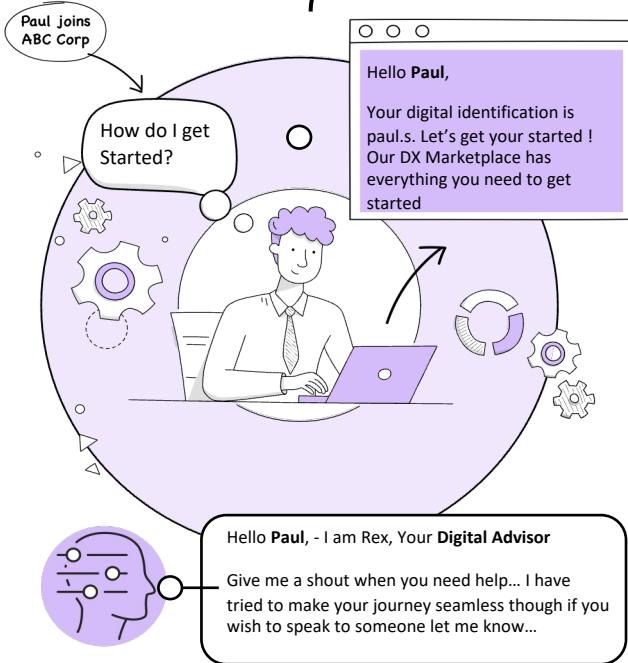
How many people do we need to interact with?
How many tools do I have to log into?
How many tickets do I have to raise to do my job?

What does a great Developer Experience Feel like



Seamless Onboarding

1-click digital identity secured for hybrid working

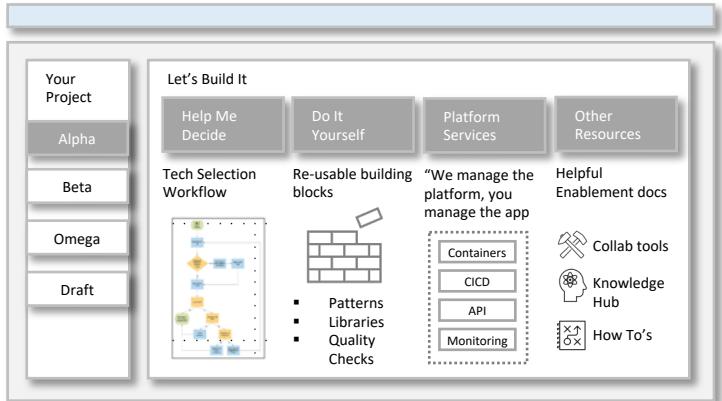


Digital Advisor

A on-demand digital helper powered by AI chatbot, learning and improving with interactions

The Developer Marketplace

Paul gets access to one-stop shop for all his dev needs e.g., reusable patterns, self-service automation libraries etc.



My Workspace

Paul has his custom cart ready for Day1 productivity, aided by insights on best building blocks for his role



1 Getting Productive

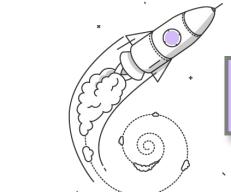
Access to tools, DaaS, single sign-on



Access to interactive training, role-based playgrounds

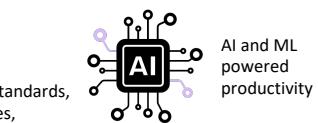
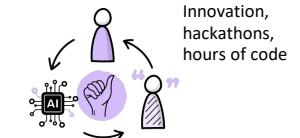
Creating Awesome Developer Career Journeys

Paul has a seamless journey towards engineering excellence and is proud of his team's collective achievements



4 Continuous Innovation

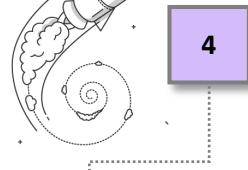
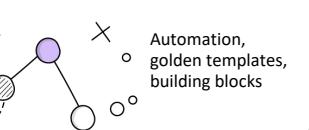
Certifications, badges, gamification boards



3 Scaling and Managing

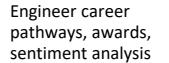


2 Creating with Purpose



1 Getting Productive

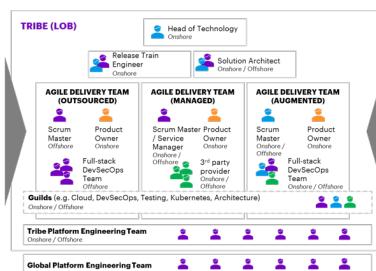
Automation, golden templates, building blocks



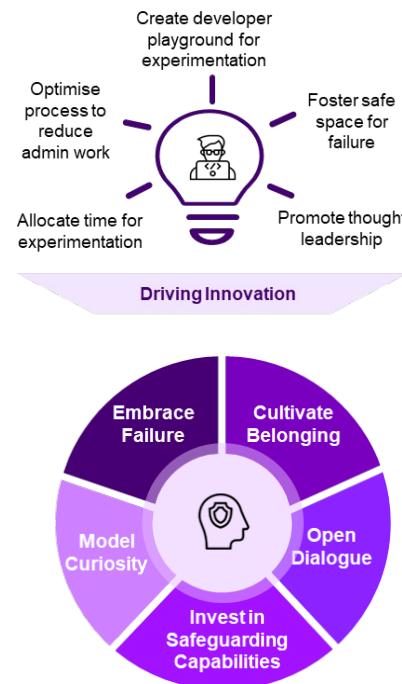
Key building blocks of the Developer Experience



Organisational Structure



Culture

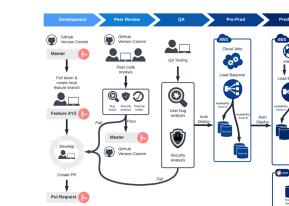


Developer Career Model

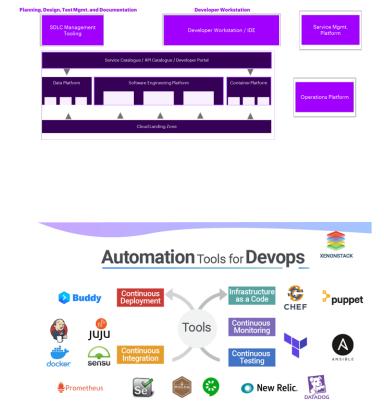


**CHIEF
TECHNOLOGY
ENGINEER
PROGRAM**

Developer Journey

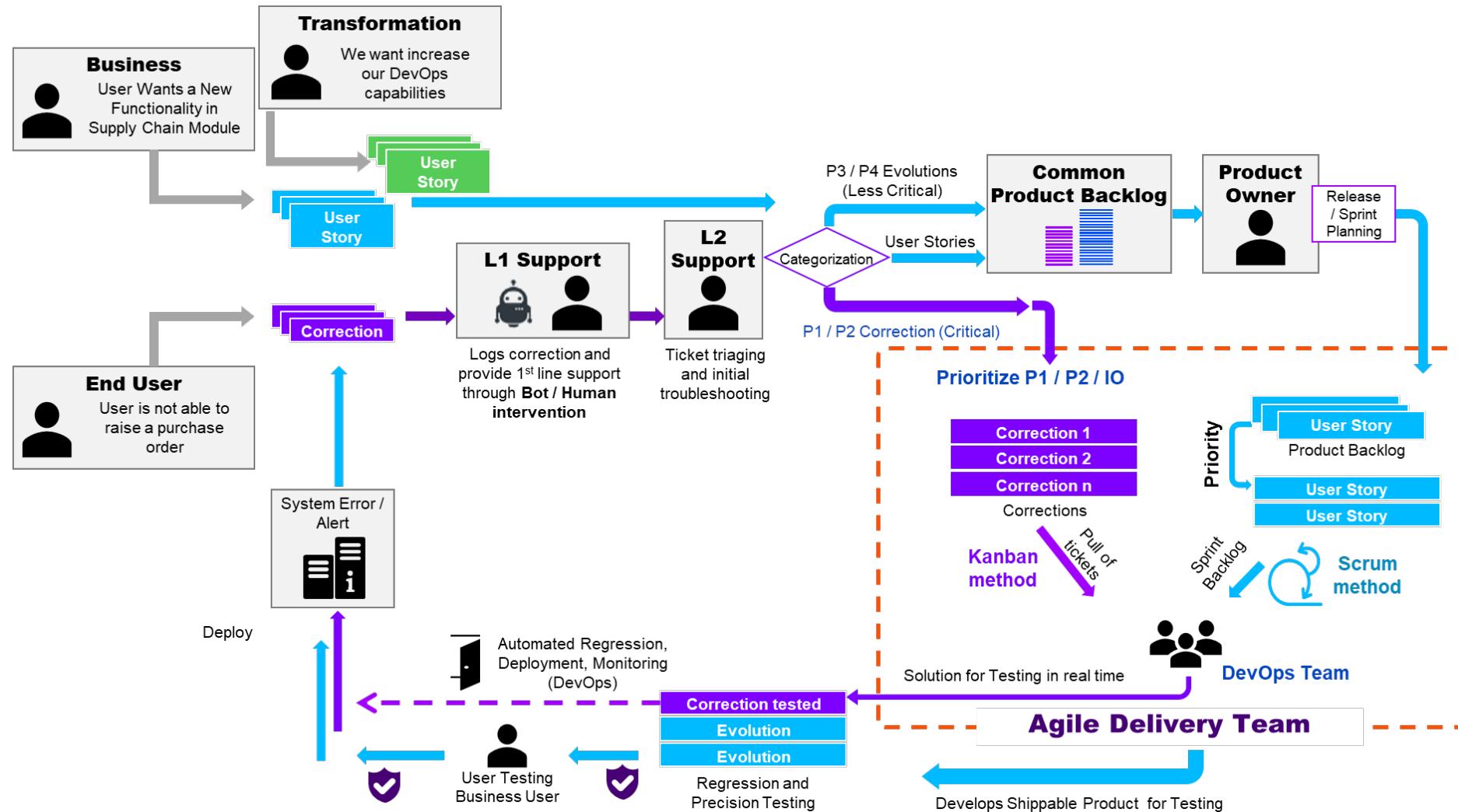


Systems and Tools

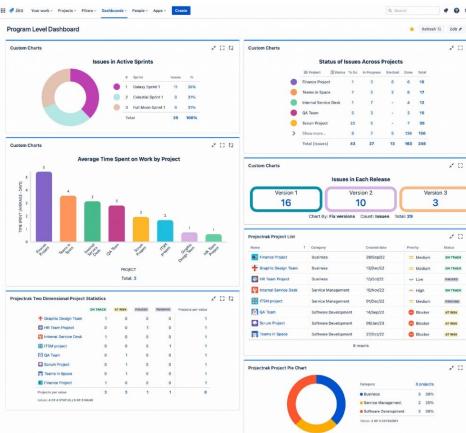
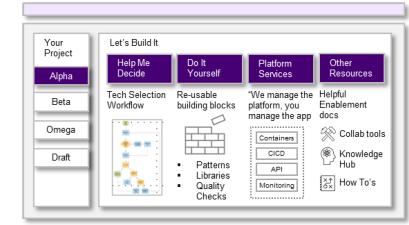


This leads us to Platform Engineering

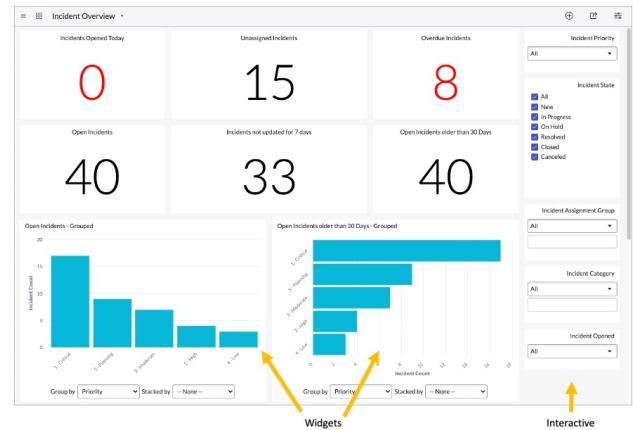
The workflow shapes the Developer Experience



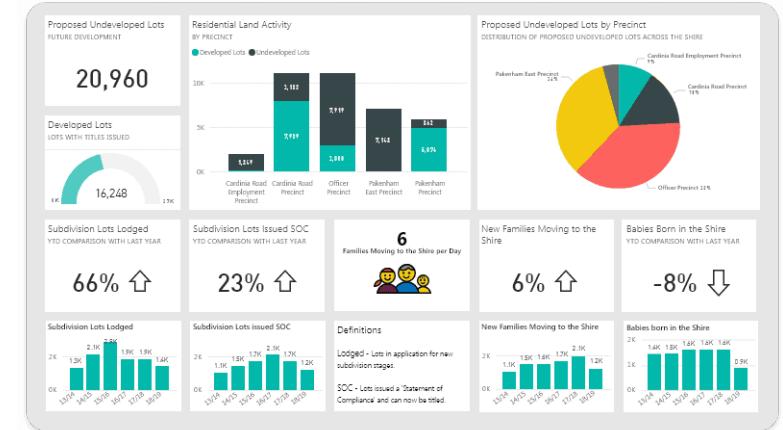
Using different systems reinforces Silos



Dev

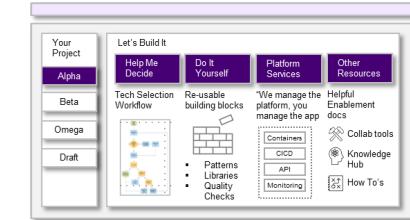


Ops



Business

IT Delivery has become a lot more complex



Large batch delivery with stage handover → Small batch delivery by autonomous teams

Small number of component → 1000s of components

Quarterly releases → Multiple releases per day

Dozens of developers → 100s of developers

Mostly in-house and monolithic applications → > 2 trillion open source downloads in 2022

IT Delivery has become a lot more complex

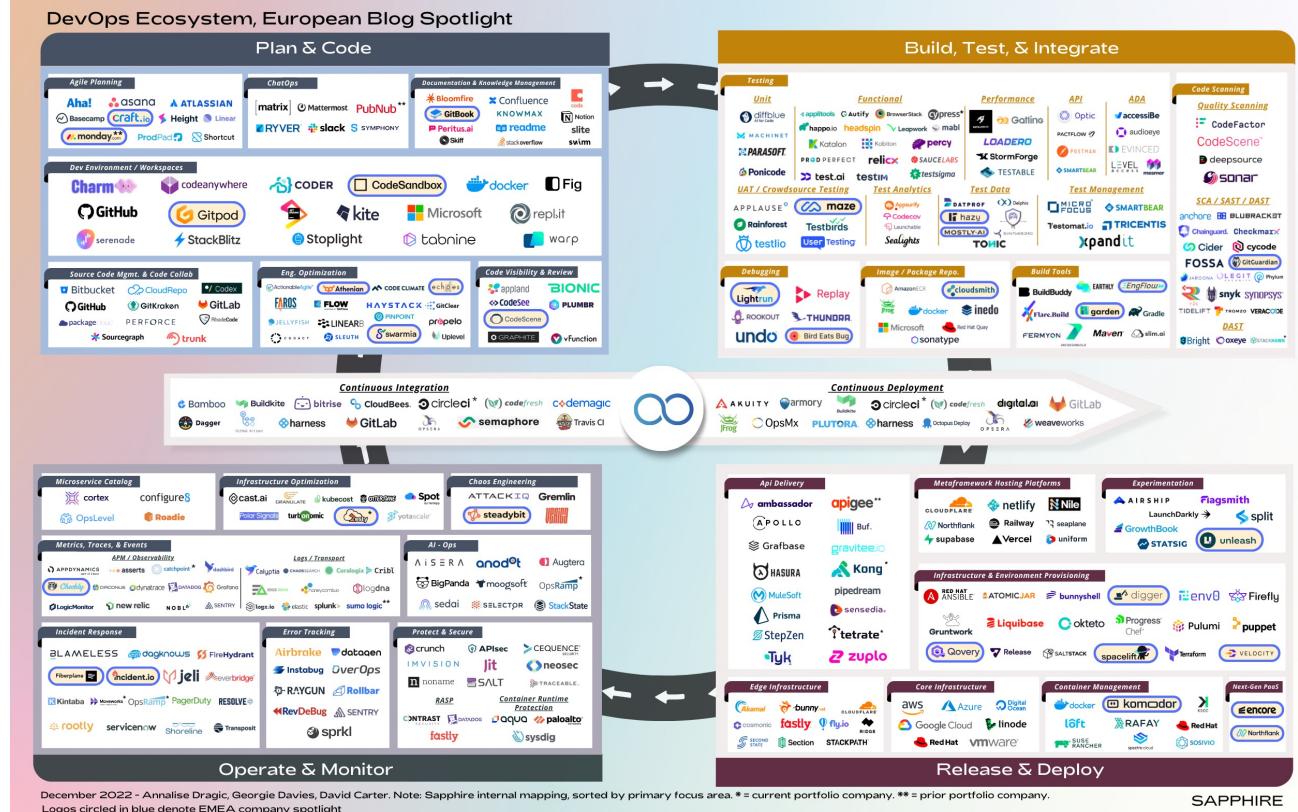
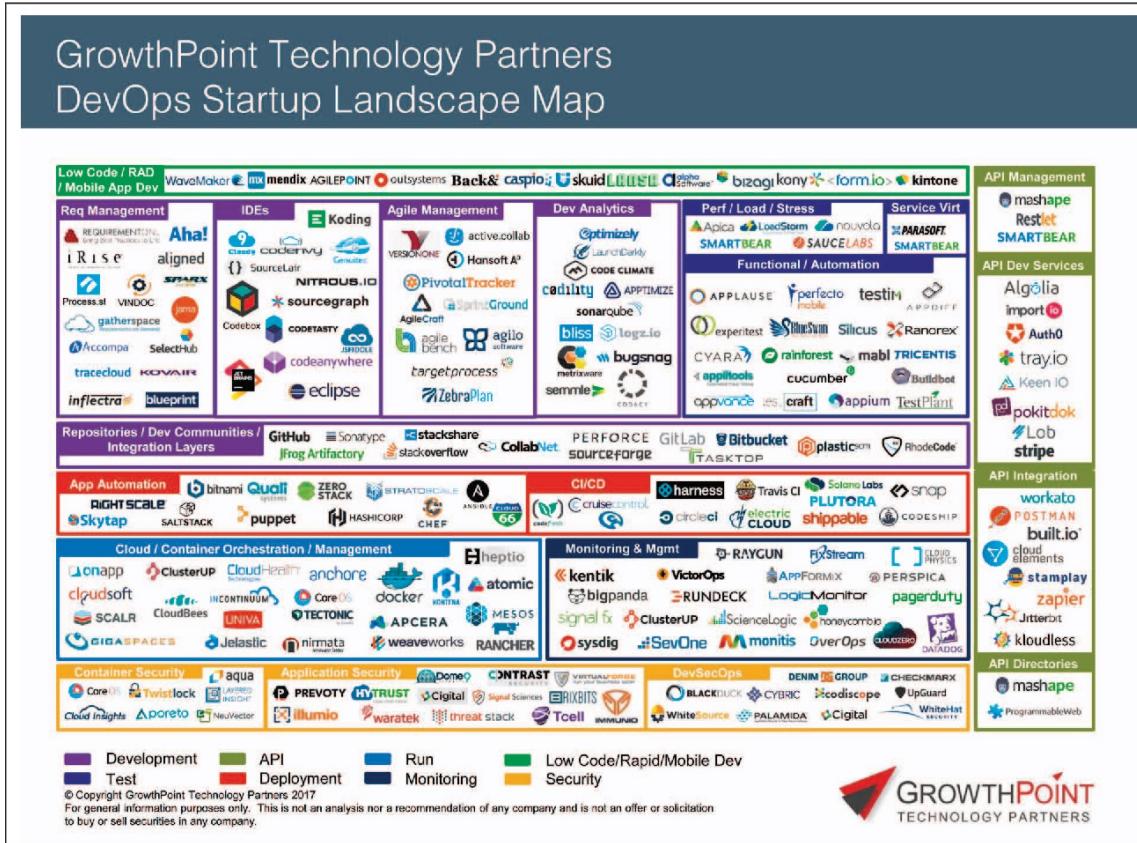
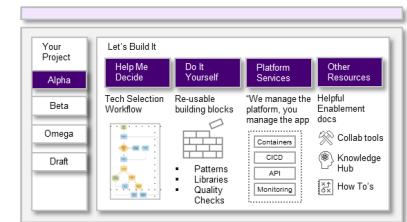
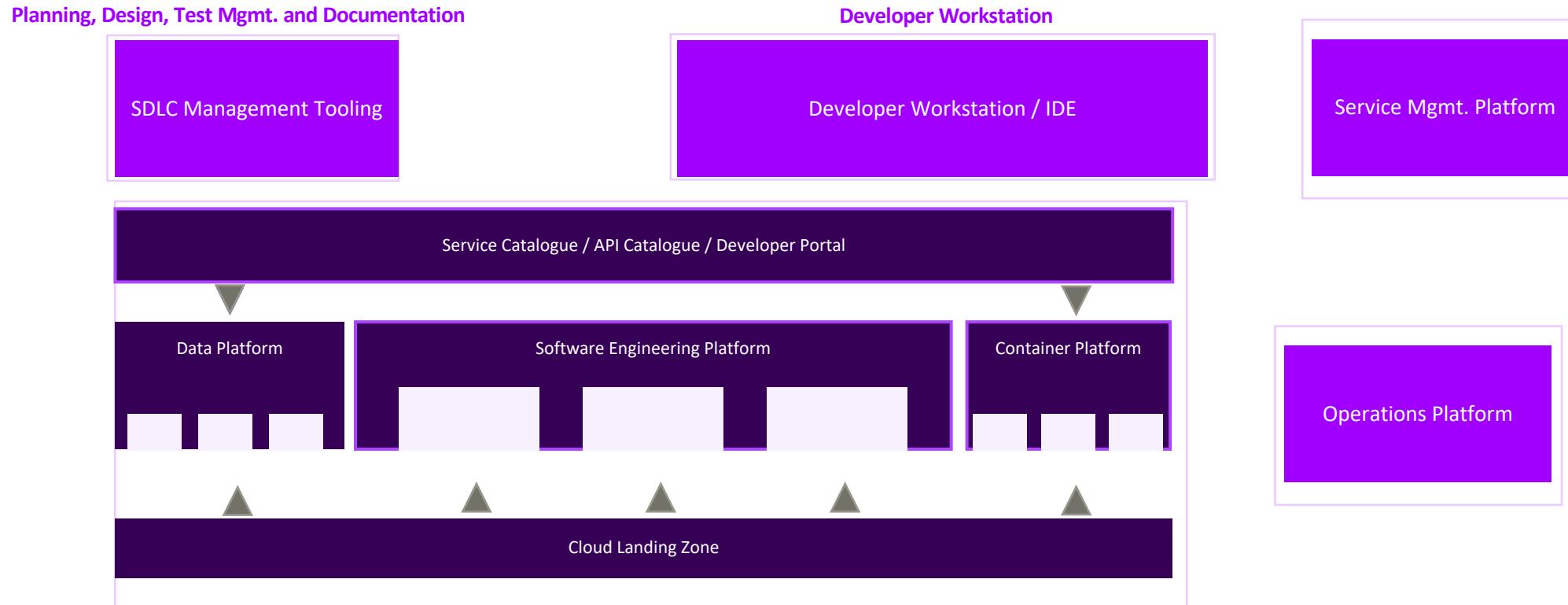
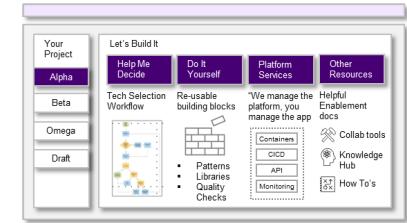


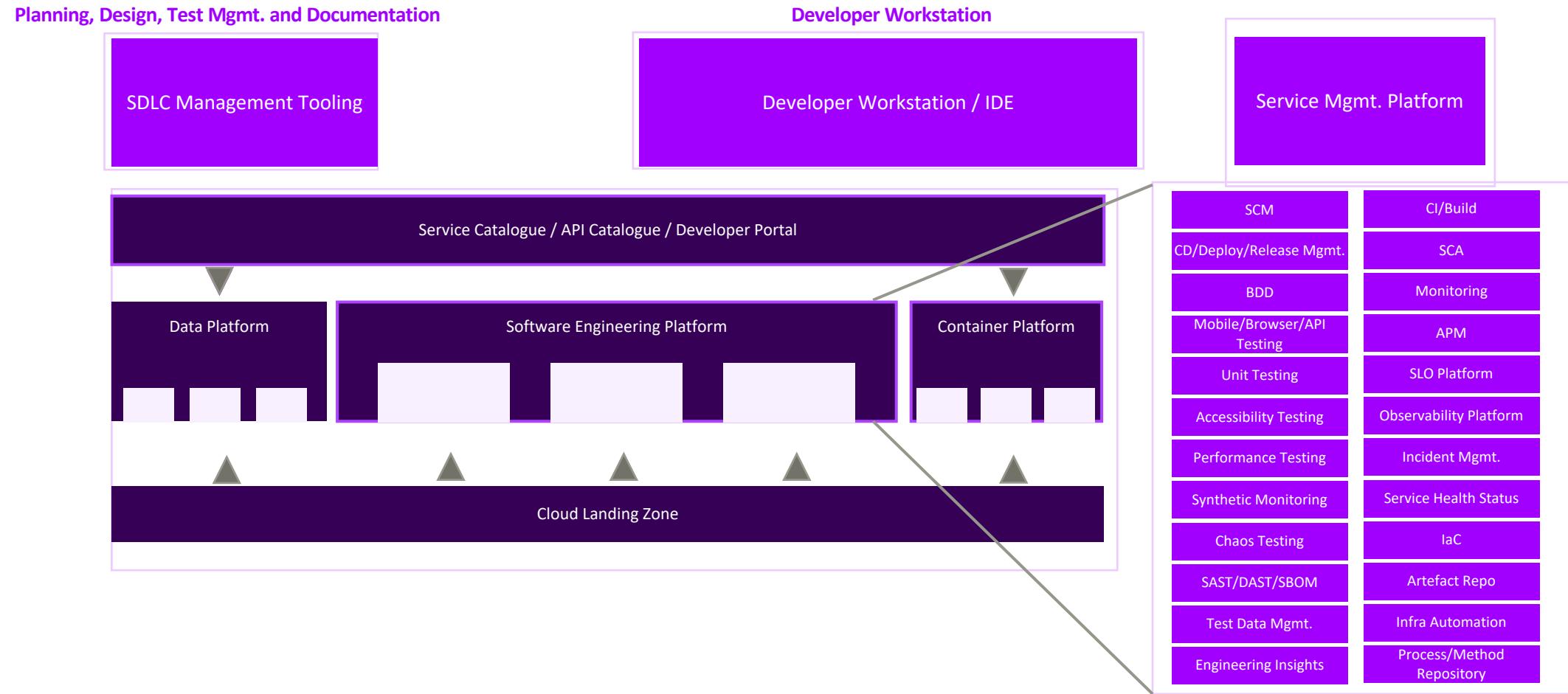
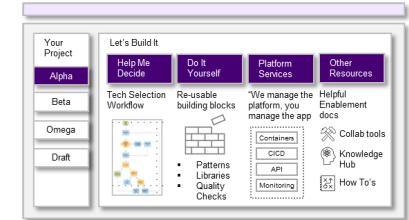
FIGURE 1. A glimpse into the exploding number of DevOps tools, which are filling the gap created by the waterfall model's

<https://sapphireventures.com/blog/future-of-devops-ecosystem-european-players/>

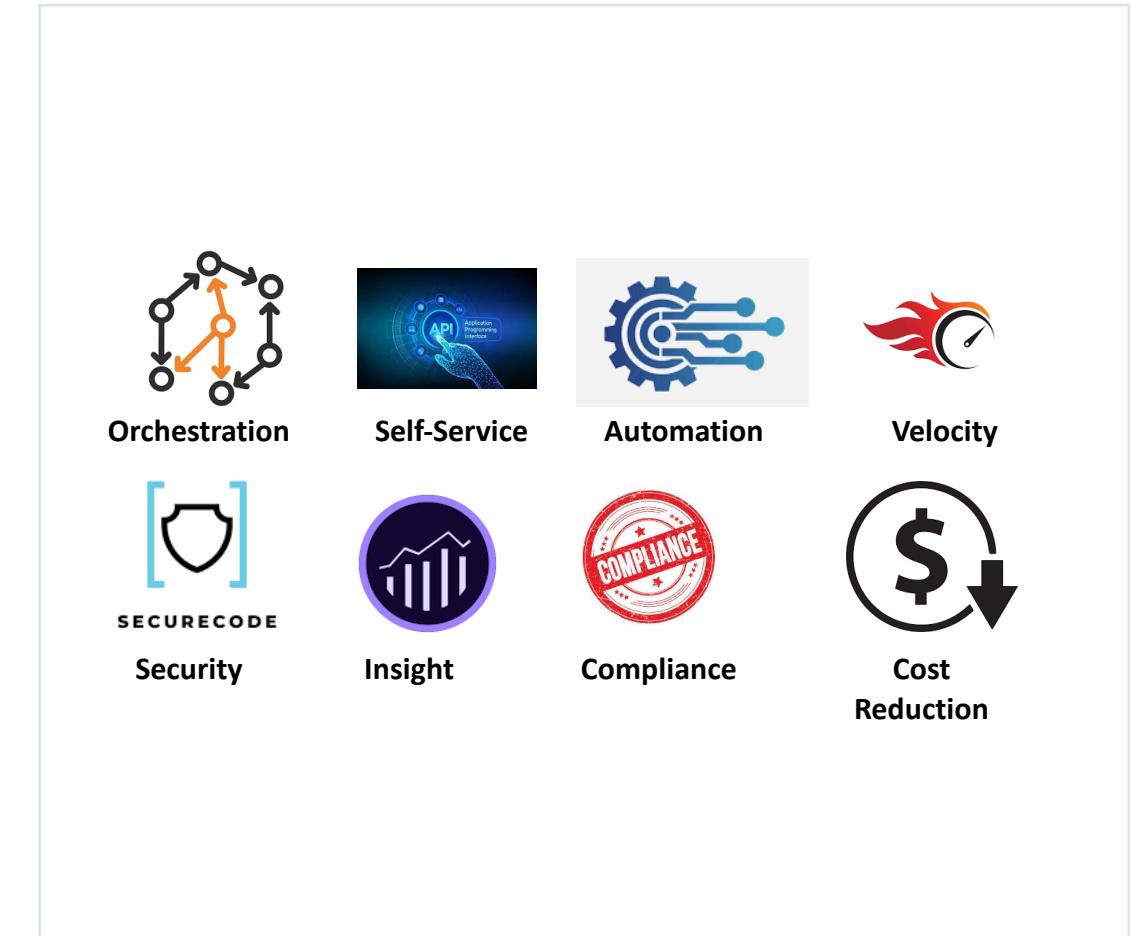
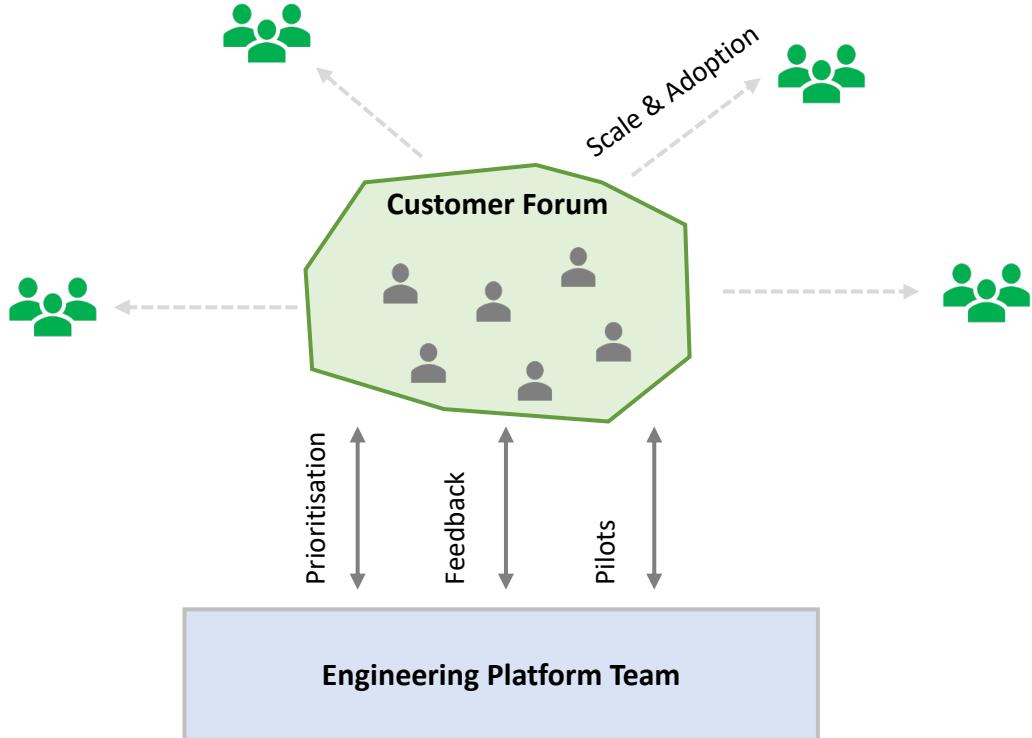
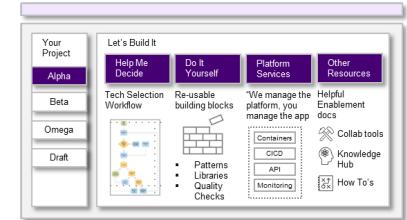
An attempt of a reference architecture



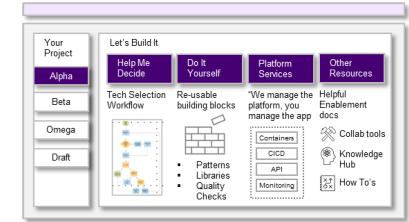
An attempt of a reference architecture



Your platform is a product, your developers are your customers

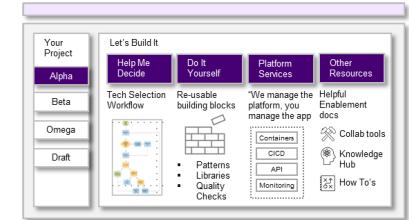


Product Management for Platform Engineering



- Identify Users and Use cases
- Measure Feature usage
- Transparent Backlog
- Allow Contributions to the platform
- Loosely Coupled
- Well documented

Breathing in, Breathing out governance



**COPING SKILLS
FOR KIDS™**

Lazy 8 Breathing

Start with an 8 on its side. Starting in the middle, go up to the left and trace the left part of the 8 with your finger while you breathe in. When you get to the middle of the 8 again, breathe out while you trace the right part of the 8 with your finger.

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