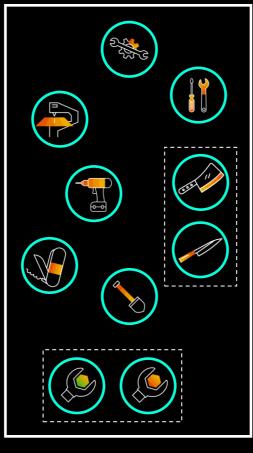


# Paving the Road for 30.000+ developers

Dirk Lehmann, SAP



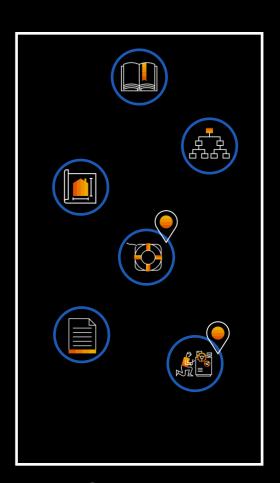
## What we did in the past







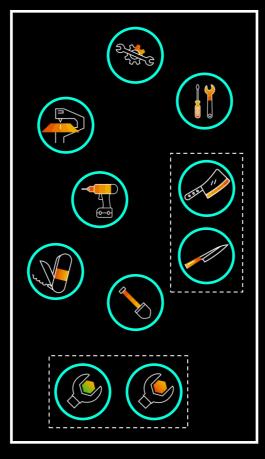
**Process Requirements** 



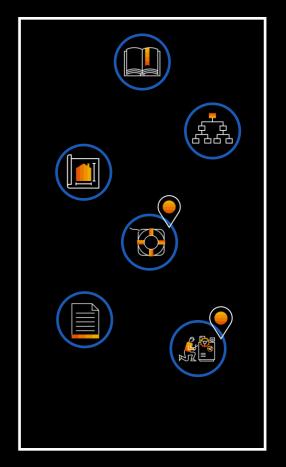
Guidelines

## What we did in the past









Tools

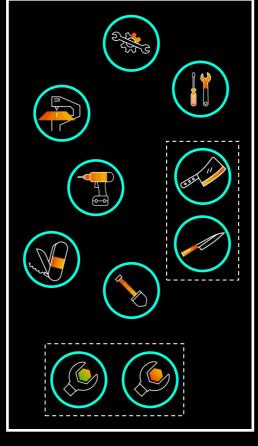
**Process Requirements** 

Guidelines

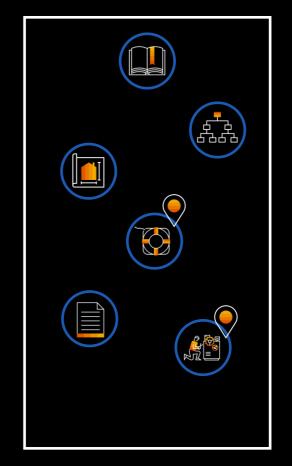
3

## **Shift left all the things**









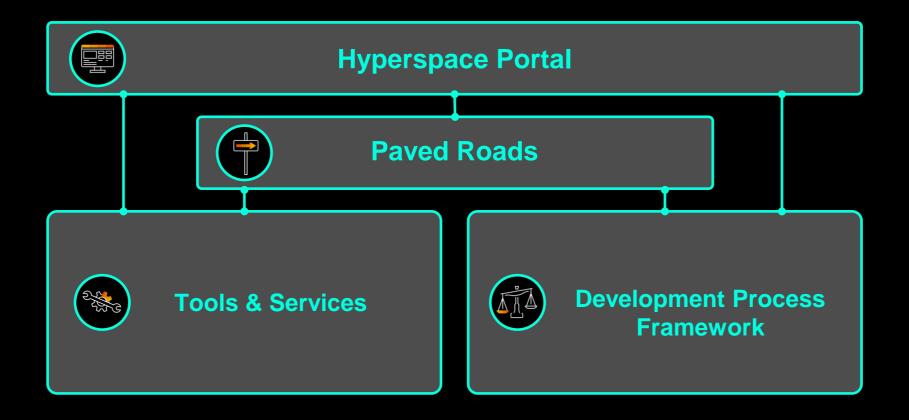
Tools Process Requirements

Guidelines

# "Good developer experience allows for shift left"

James Governor, Analyst and Co-Founder RedMonk

#### **Hyperspace:** SAPs internal CI/CD platform



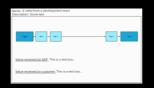


Development Procedures

"Things an engineering team needs to do, in order to ship software at SAP"



Development Procedures

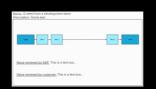


Trigger: "I want to use an Open Source library in my application"

Value: "Faster mean time to ship code, while staying compliant and secure."



Development Procedures





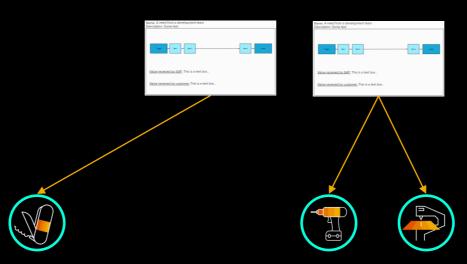
Trigger: "I need to manage and share my team's backlog"

Value: "Transparency on work and deliveries"



Development Procedures

Tools and Services

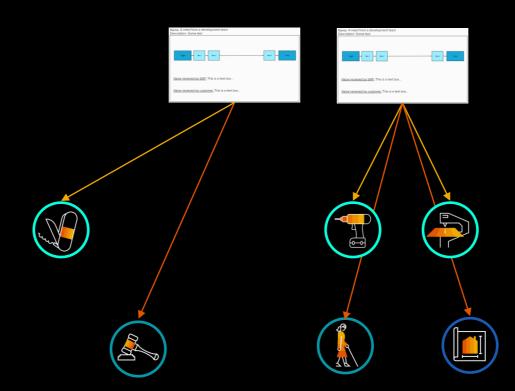




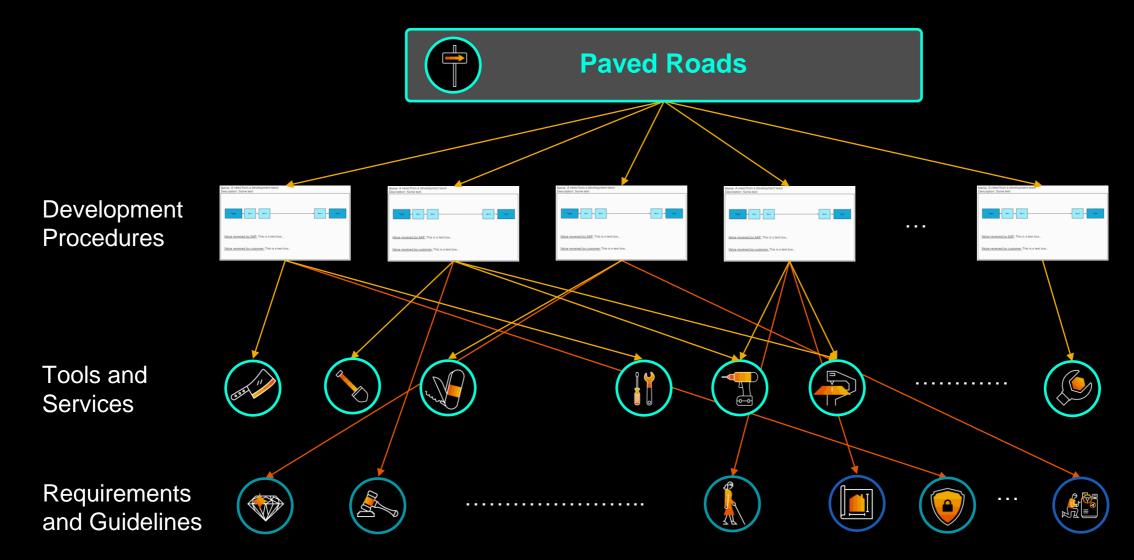
Development Procedures

Tools and Services

Requirements and Guidelines

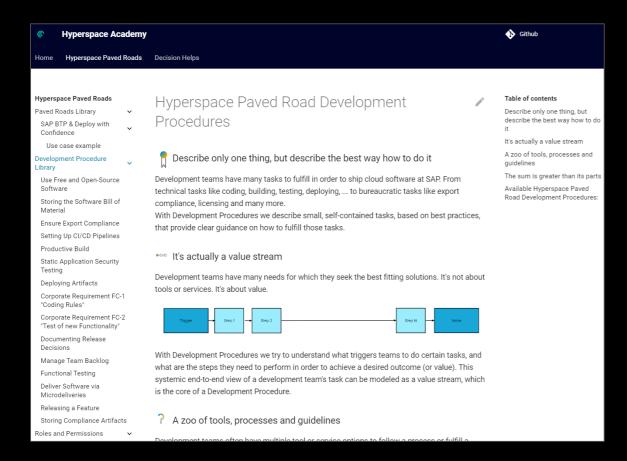




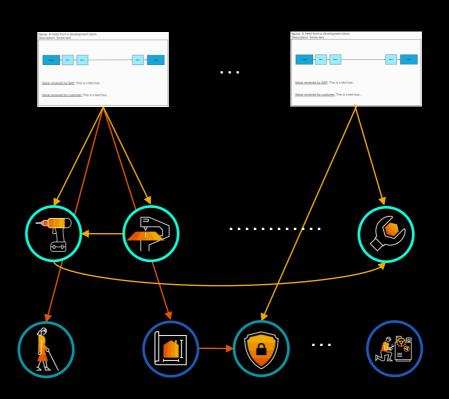


#### **Value Streams everywhere**





What the engineering teams see



What we as platform provider see

#### What's next on the Paved Roads?



#### Add more Development Procedures

- Extend the scope
- Keep the total number of Development Procedures as minimal as possible

#### Add more Paved Roads

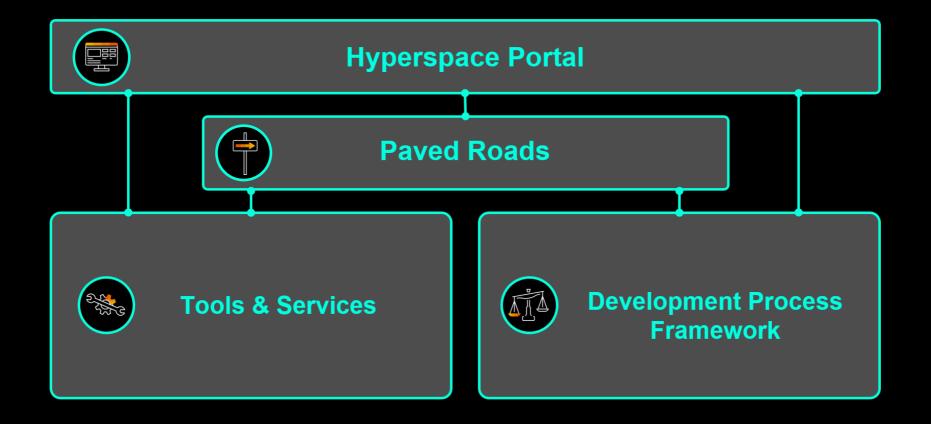
- Context specific for the various technology stacks and programming languages
- Reuse the existing Development Procedures to build new Paved Roads

#### **Learnings on creating the Paved Roads?**



- Limit your scope, overwise complexity will kill you
  - Divide and conquer
  - Make the first scope as narrow as possible
  - Seek for transparency, not adoption
- Start with the as-is situation
  - Improve with later version(s)
- Clear ownership
  - Who drives optimization?

#### **Learnings on our CI/CD Platform**



#### **Learnings on our CI/CD Platform**

Paved Roads

Tools & Services

Development Process
Framework

- Never, ever mandate the platform
  - It kills innovation
  - Breaks and honest feedback loop
- Put responsibility for larger value stream parts into one organization
  - Distributed ownership causes (unnecessary) friction
- Paved Roads / Golden Paths are your friend
  - Get a systemic view
- It's a marathon.
  - It takes times to change status quo.
- Tell your vision as a story
  - People see/hear/understand in different way
  - Align mental models

# Thank you.

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