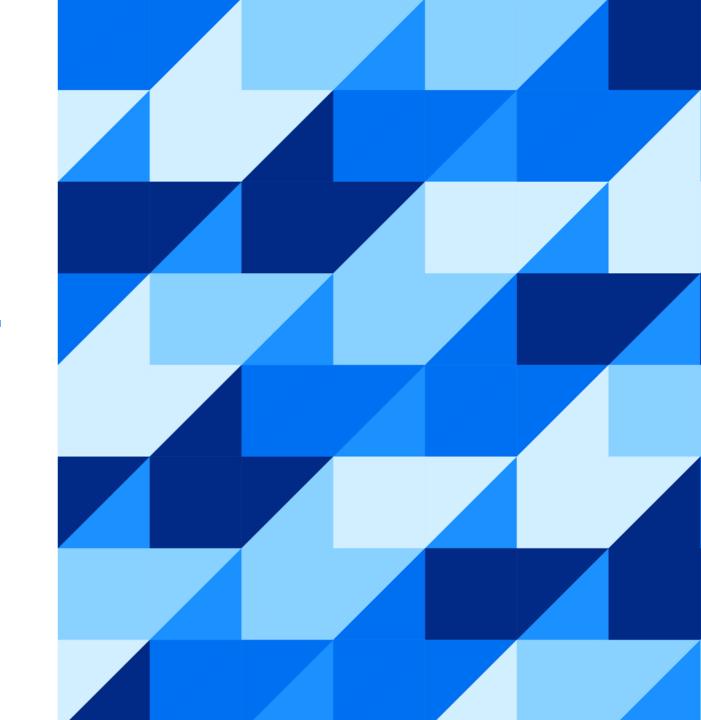


Platform Engineering XXL

Dirk Lehmann (he/him), SAP September 5th, 2024





About Me



With SAP since 2001



Implemented the first daily delivery process at SAP (2014)



Current job: Solution Manager for internal development platform



SAP Contact person for german language user group (DSAG) for the topic "DevOps"



Co-Organizer DevOpsDays Zurich (12.-13.04. 2025 – Winterthur, CH) https://devopsdays.ch



Conference speaker https://doergn.github.io/



1 Wife, 2 Kids



@doergn@mastodon.social



SAP Facts



Founded 1972



Enterprise software solutions

- Tailored for 26 industries
- Offered in 180 countries (in 30+ languages)



105.328 employees worldwide (30.06.2023)

• 36.100 (34.2%) employees in Research and Development (30.06.2023)



Programming languages

- ABAP (Advanced Business Application Programming)
 - Own proprietary language and technology stack in (mainly) core ERP suite
- Non-ABAP
 - Java ~30%
 - JavaScript ~15%

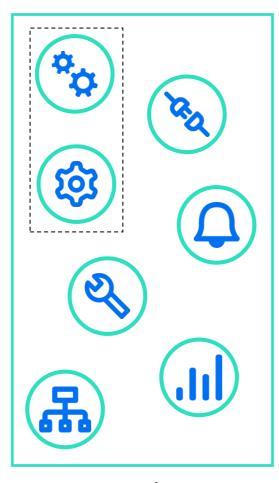


Delivery channels

- On premise, Cloud, Hybrid, Mobile
- Multi-Cloud Strategy (Hyperscalers + own 52 Data Centers)

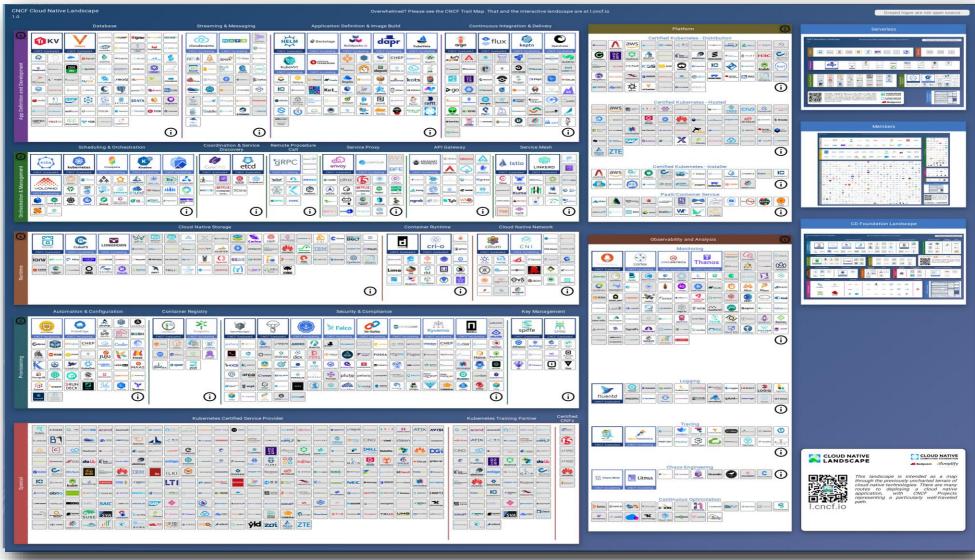
```
CLASS zbp_generate_bookings_xxx DEFINITION
       PUBLIC
       FINAL
       CREATE PUBLIC .
       PUBLIC SECTION.
        INTERFACES if oo adt classrun.
       PROTECTED SECTION.
       PRIVATE SECTION.
     ENDCLASS.
10
11
12
    CLASS zbp generate bookings xxx IMPLEMENTATION.
13
14
      METHOD if_oo_adt_classrun~main.
15
         DATA: it bookings TYPE TABLE OF ztbooking xxx.
16
17
18
          read current timestamp
19
         GET TIME STAMP FIELD DATA(zv_tsl).
        fill internal table (itab)
20
         it bookings = VALUE #(
21
             ( booking = '1' customername = 'Buchholm' numberof
22
               country = 'Germany' dateofbooking ='20180213125959
23
             ( booking = '2' customername = 'Jeremias' numberof
               country = 'USA' dateofbooking ='20180313125959' da
25
26
         ).
27
28
        Delete the possible entries in the database table - in o
         DELETE FROM ztbooking xxx.
29
        insert the new table entries
30
         INSERT ztbooking xxx FROM TABLE @it bookings.
31
32
33
        check the result
         SELECT * FROM ztbooking xxx INTO TABLE @it bookings.
34
         out->write( sy-dbcnt ).
35
         out->write( 'data inserted successfully!' ).
37
38
       ENDMETHOD.
39
     ENDCLASS.
```





Tools

Normal Tools. Just Innocent Tools.



Source: Cloud Native Computing Foundation, CNCF Landscape, Det., 2026



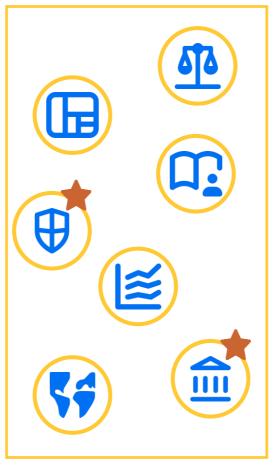




Tools Processes Guidelines





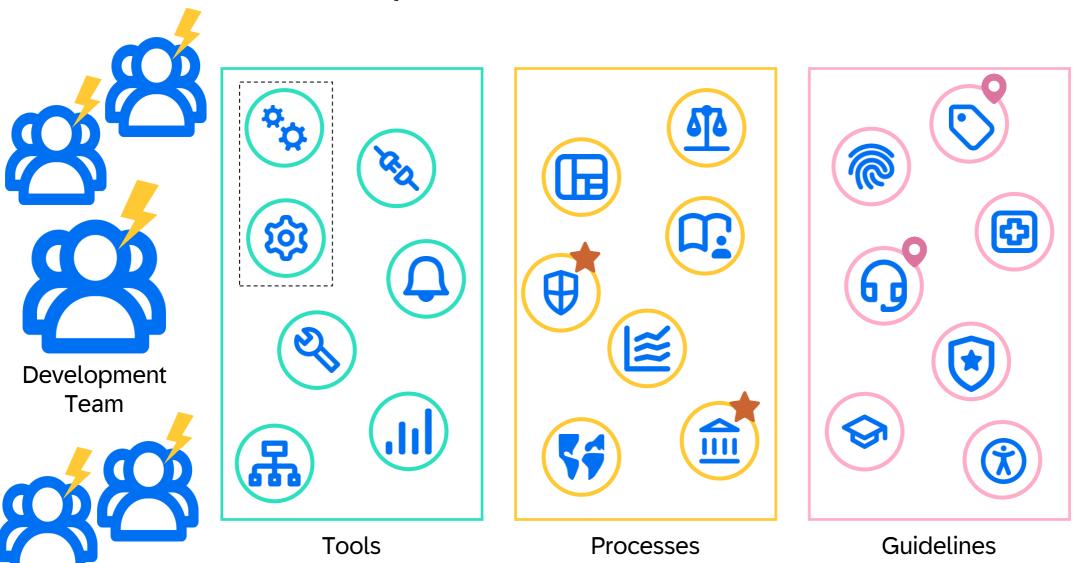




Tools

Processes

Guidelines



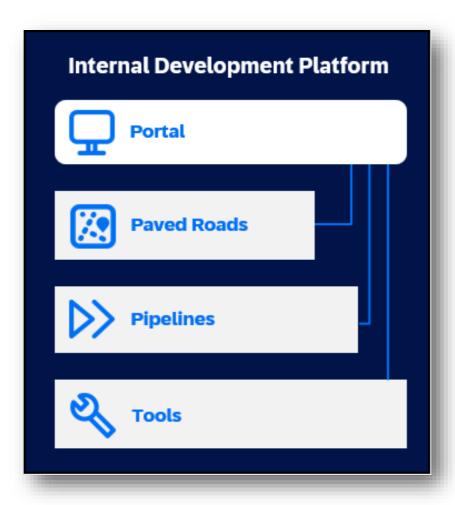
Public

8

HyperspaceSAP's Internal Development Platform



SAP's Internal Development Platform



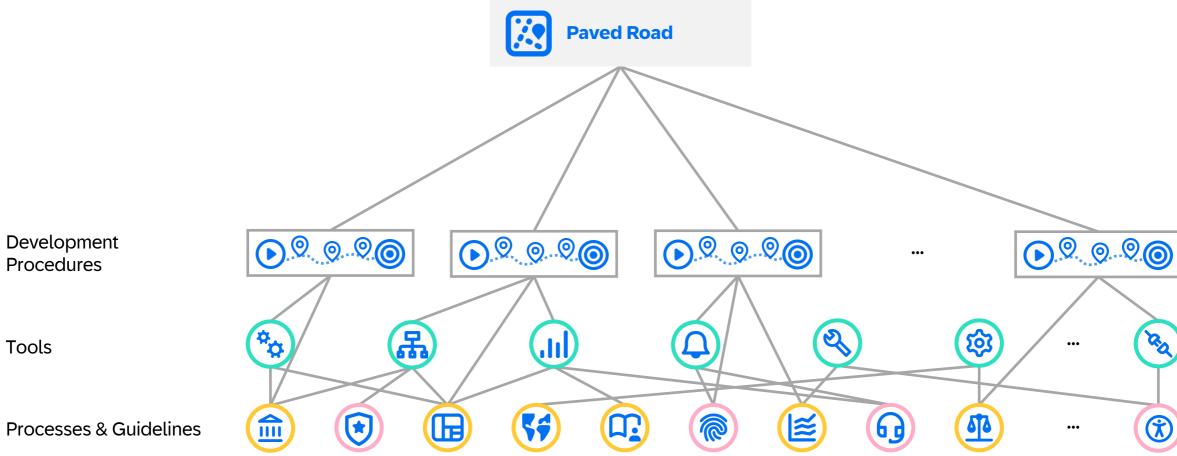
Paved Roads





Paved Roads





Learnings from SAP's Internal Development Platform (so far)



Put responsibility into one organization

Distributed setting causes lot of (unnecessary) friction



Paved Roads / Golden Paths are your friend

Help to get systemic view



It's a marathon

It takes times to change status quo



There is no greenfield

Start with an inventory of what exists, what stays, was need to be dropped.



Requires proper staffing

Dedicated people to work on the platform.

Inner source won't solve the problem



Source: LinkedIn post by Matthew Skelton, Sep. 2023



Trust

Reliability and ability to execute is key

Learnings from SAP's Internal Development Platform (so far)



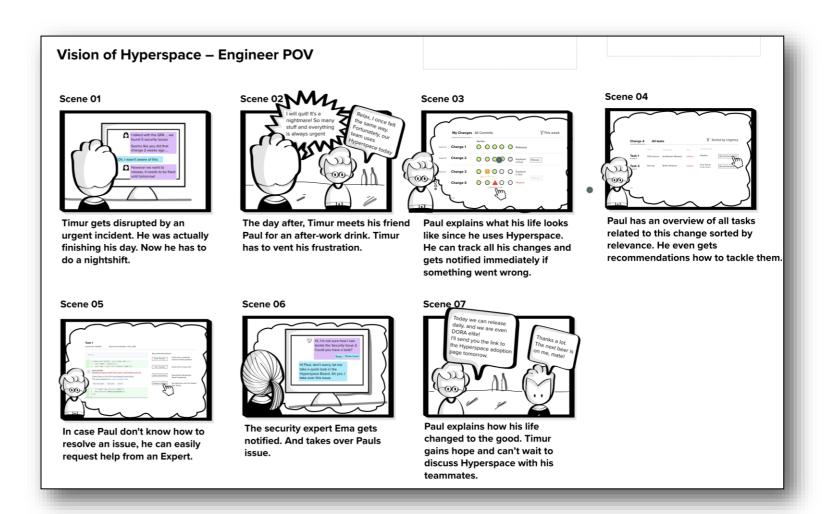
Share a vision

For customers <u>and</u> platform team members



KPI reporting is difficult

Which KPI indicates platform success?



Thank you.

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