

Anett Seeland

Katharina Schulze

Pascal Seeland

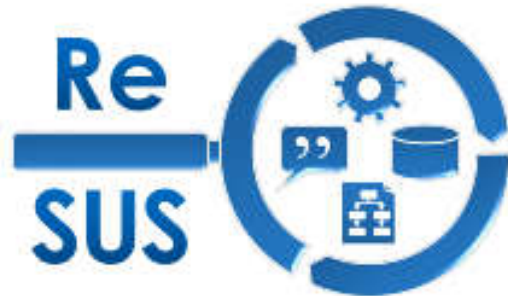
SuSI

Anne Kreuter

Leon Kiefer

Usman Sikander Mirza

Michael Zimmermann



Markus Hirsch

Evgenia Yangulova

Faisal Khan

Saskia Holland

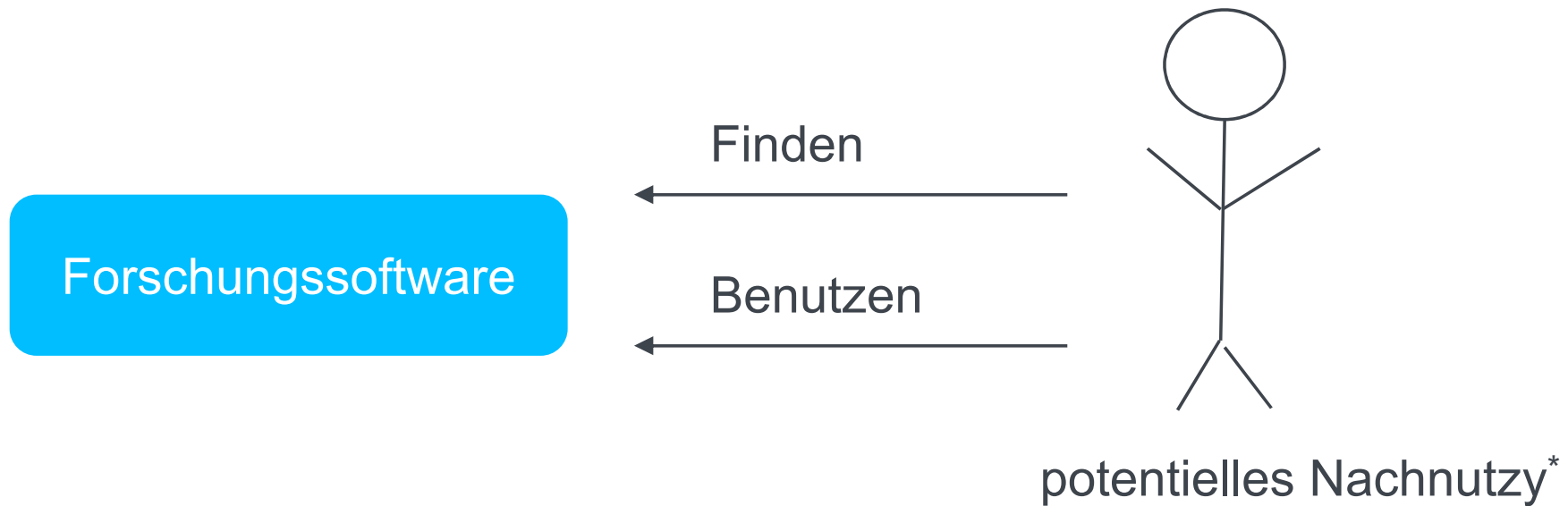
Reusable Software

Software lizensieren und nachnutzbar zur Verfügung stellen

Dorothea Iglezakis

Herausforderung

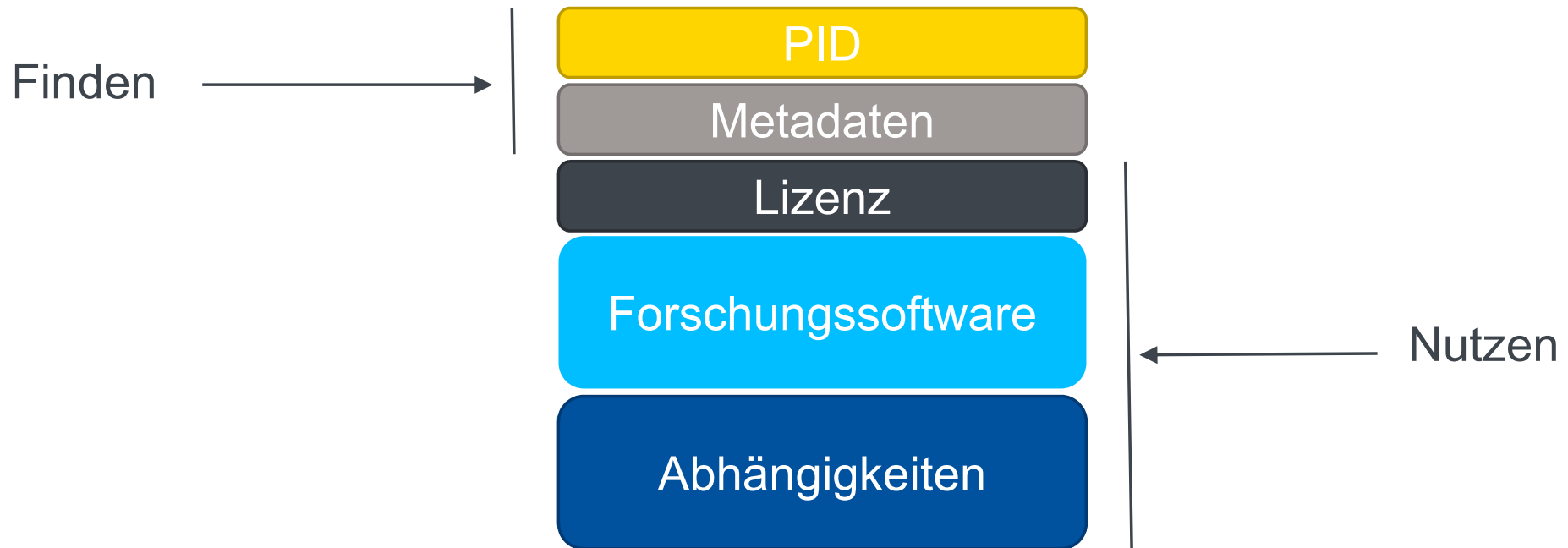
Nachnutzung von Forschungssoftware



* entgendert [nach Phettberg](#)

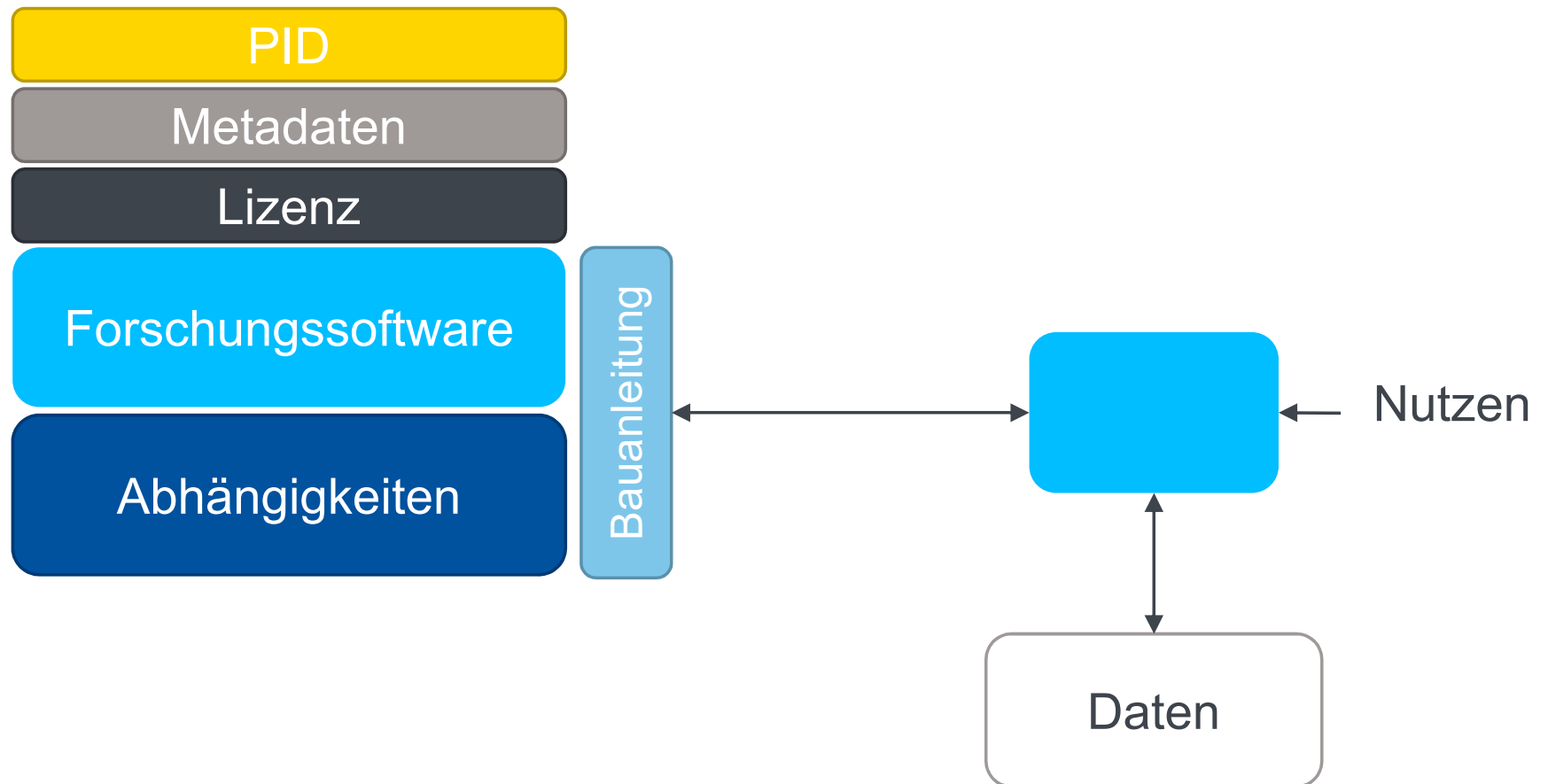
Lösungsansatz

Forschungssoftware finden und nachnutzen

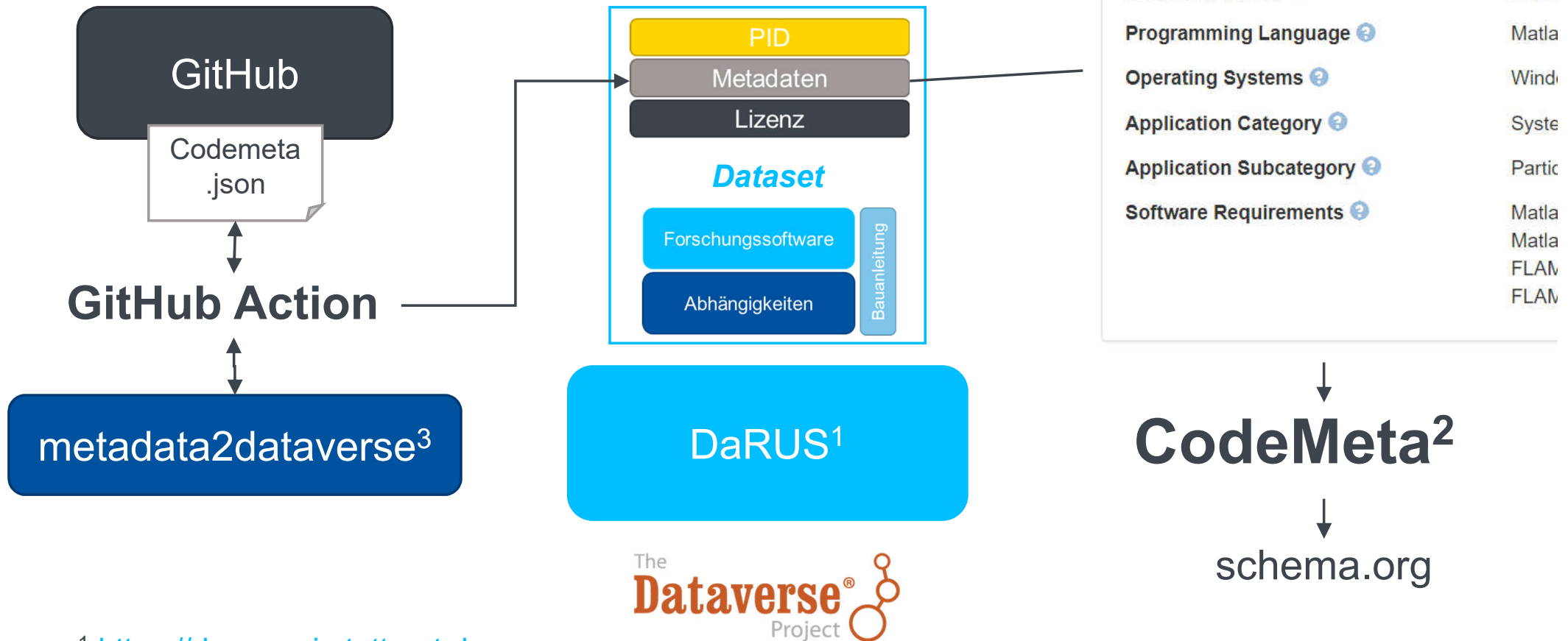


Lösungsansatz

Forschungssoftware nachnutzen



Forschungssoftware finden

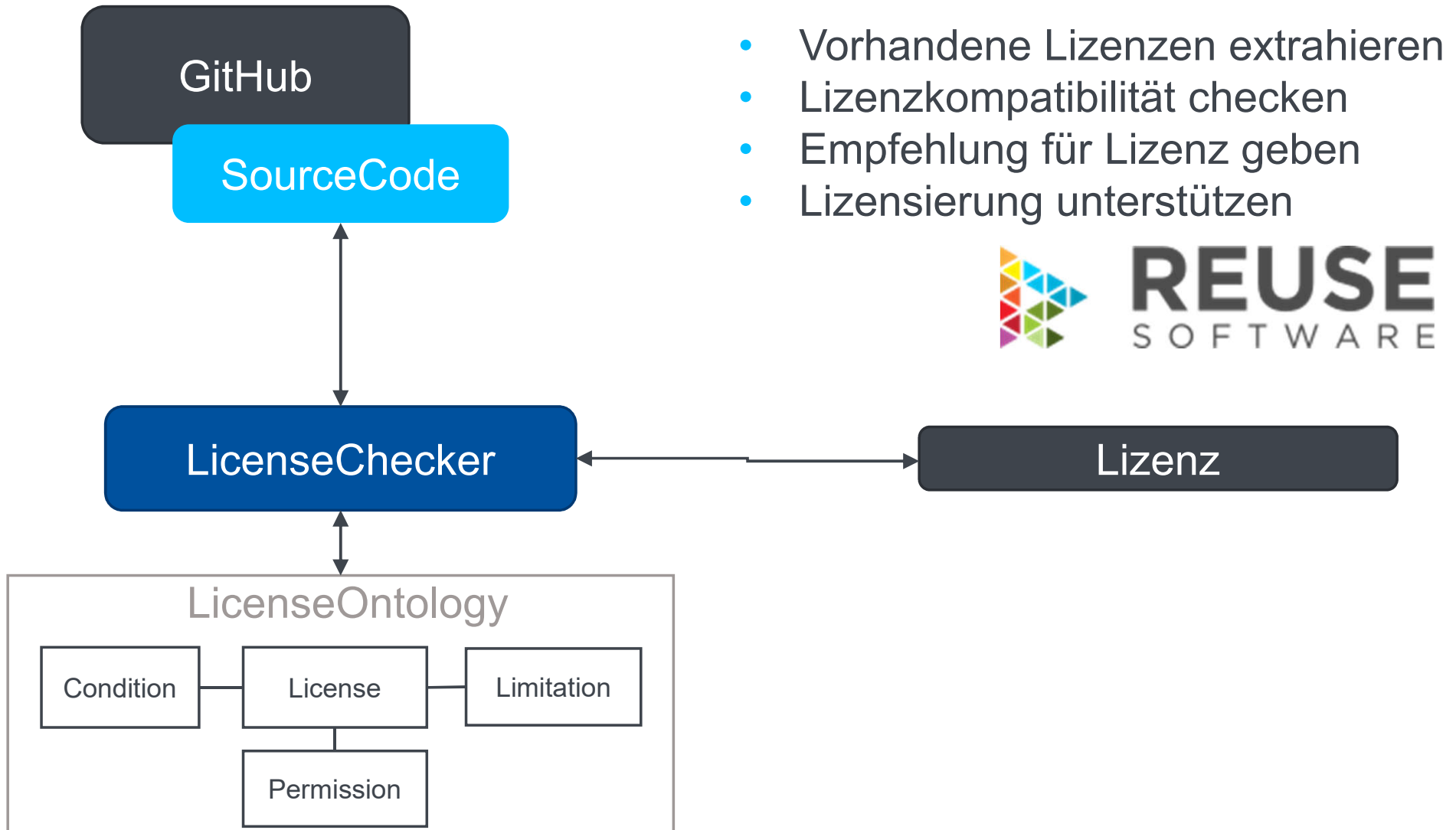


¹ <https://darus.uni-stuttgart.de>

² <https://codemeta.github.io/>

³ <https://github.com/izus-fokus/metadata2dataverse>

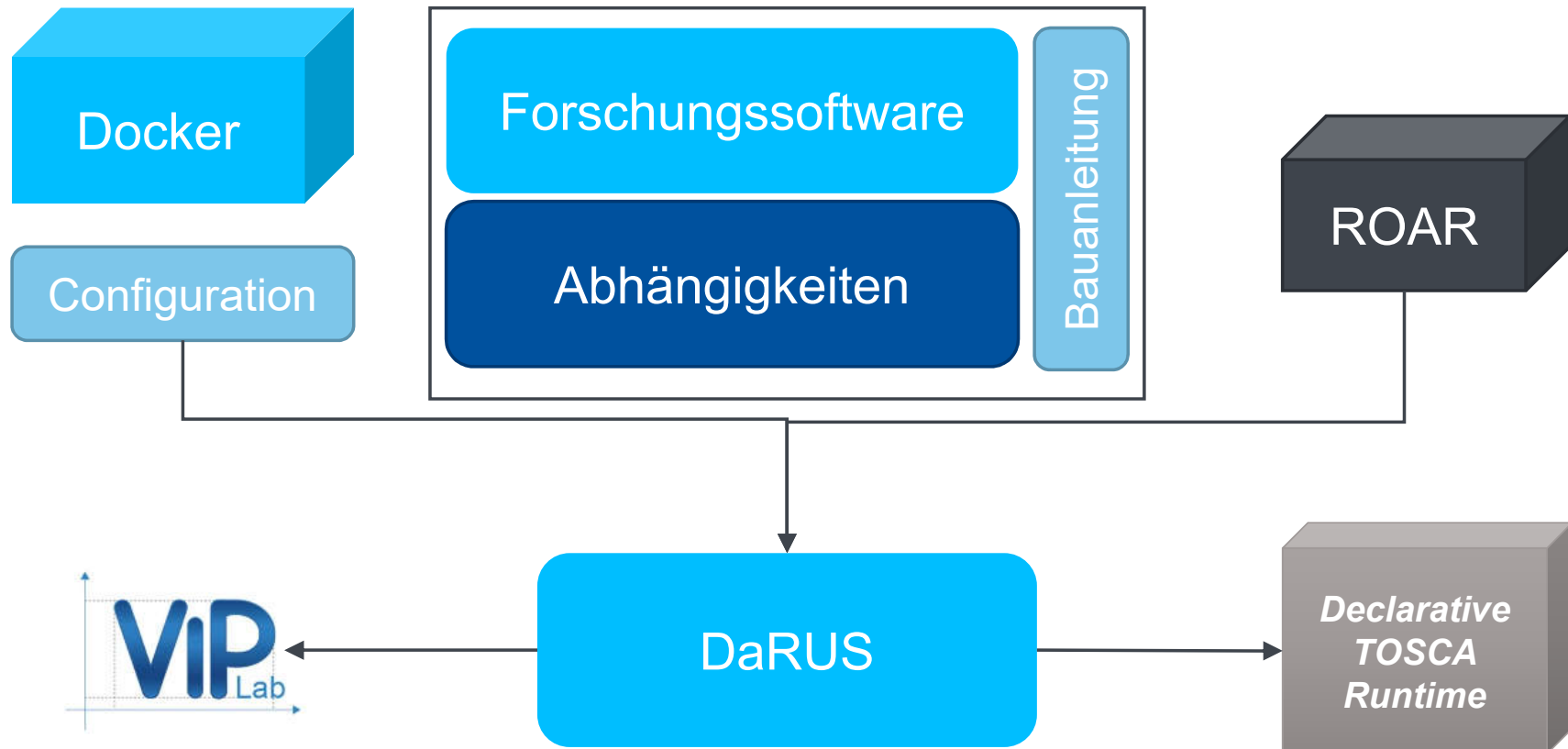
Forschungssoftware lizensieren



- Vorhandene Lizenzen extrahieren
- Lizenzkompatibilität checken
- Empfehlung für Lizenz geben
- Lizensierung unterstützen



Software nachnutzbar zur Verfügung stellen



<https://www.tik.uni-stuttgart.de/dienste-a-z/Virtuelles-Programmierlabor-ViPLab/>

<https://www.opentosca.org/>

<http://docs.oasis-open.org/tosca/TOSCA/v2.0/TOSCA-v2.0.html>

Software ausführbar zur Verfügung stellen

VipLab + DuMUX

DuMux Benchmark Case 1

Case 1: Single Fracture

InputFiles

params.input

Discretization Method:
TPFA (Cell Centered FV Scheme with Two-Point Flux Approximation)

Solved Model Equations:
 Only Flow
 Flow and Transport

Computational Grid:
Coarse (1k Cells)

OutputFiles

Stdout Stderr Files Downloads

Files

OutputFile 0 OutputFile 1 OutputFile 2 OutputFile 3
OutputFile 4 OutputFile 5 OutputFile 6

Surface Solid color

1/101

Parameters Example
This is a 'Hello World' example showing the usage of parameters.
Please introduce yourself so that the Hello World-Container can
print your information...

InputFiles

params.ini code.c

Temperature:

Things I like:
 Programming
 music
 books

Favorite PL:
 C
 Java
 Haskell
 Scala... Python ...ss5

Fridge:
fridge

Dance Time:
Please choose multiple
 Cover All Ye Faithful
 Last Christmas (aka the one that drives everybody else crazy)
 White Christmas

NOI:
Spiders
All kinds of Bugs (also the ones living in your Computer)
I never dislike anything!

random numbers:

name:
Kathryn

Christmas Wish:
COFFEE! In that nebulat

Age:
36

Earthling:
 Earthling
 Alien

Muuuuh like a Cow:
 Muh
 Kikirikiii

OutputFiles

Stdout Stderr Files Downloads

Files

OutputFile 0 OutputFile 1 OutputFile 2 OutputFile 3
OutputFile 4 OutputFile 5 OutputFile 6

Graph

coffeeTemperature	numberOfParticipants
0.0	60.0
10.0	40.0
20.0	20.0
30.0	10.0
40.0	20.0
50.0	80.0
60.0	100.0
70.0	80.0
80.0	40.0

Software ausführbar zur Verfügung stellen

VipLab + Python

Leap Year Tester

Check whether a year is a leap year.

InputFiles

run.py

```
1 # year to check
2 year = 2020
3
4 # if year can be divided by 400 and 100,
5 # it is leap year
6 if (year % 400 == 0) and (year % 100 == 0):
7     print(year, "is a leap year")
8
```

↓ ↑ ☐ ▶

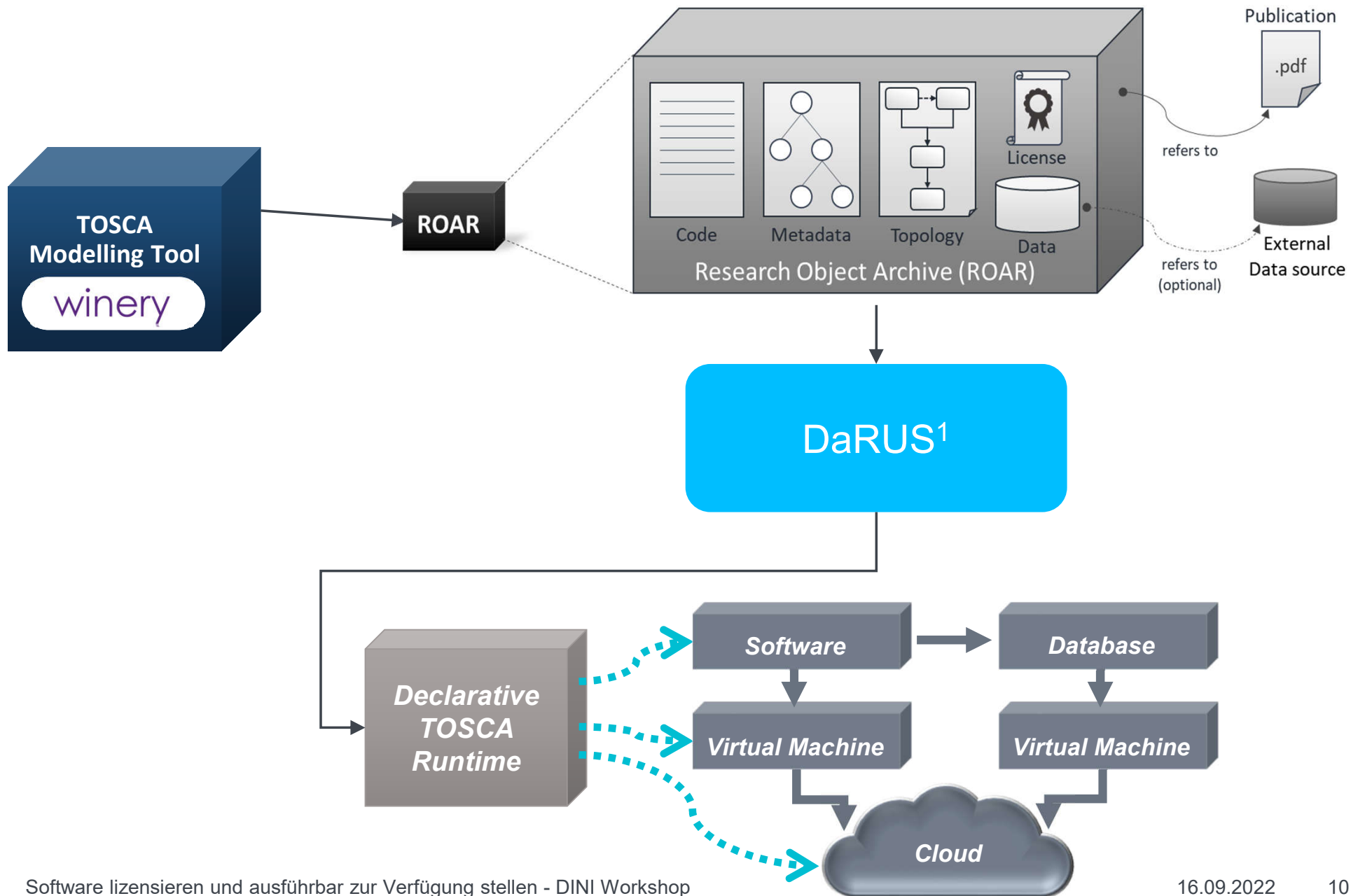
OutputFiles

Stdout Stderr

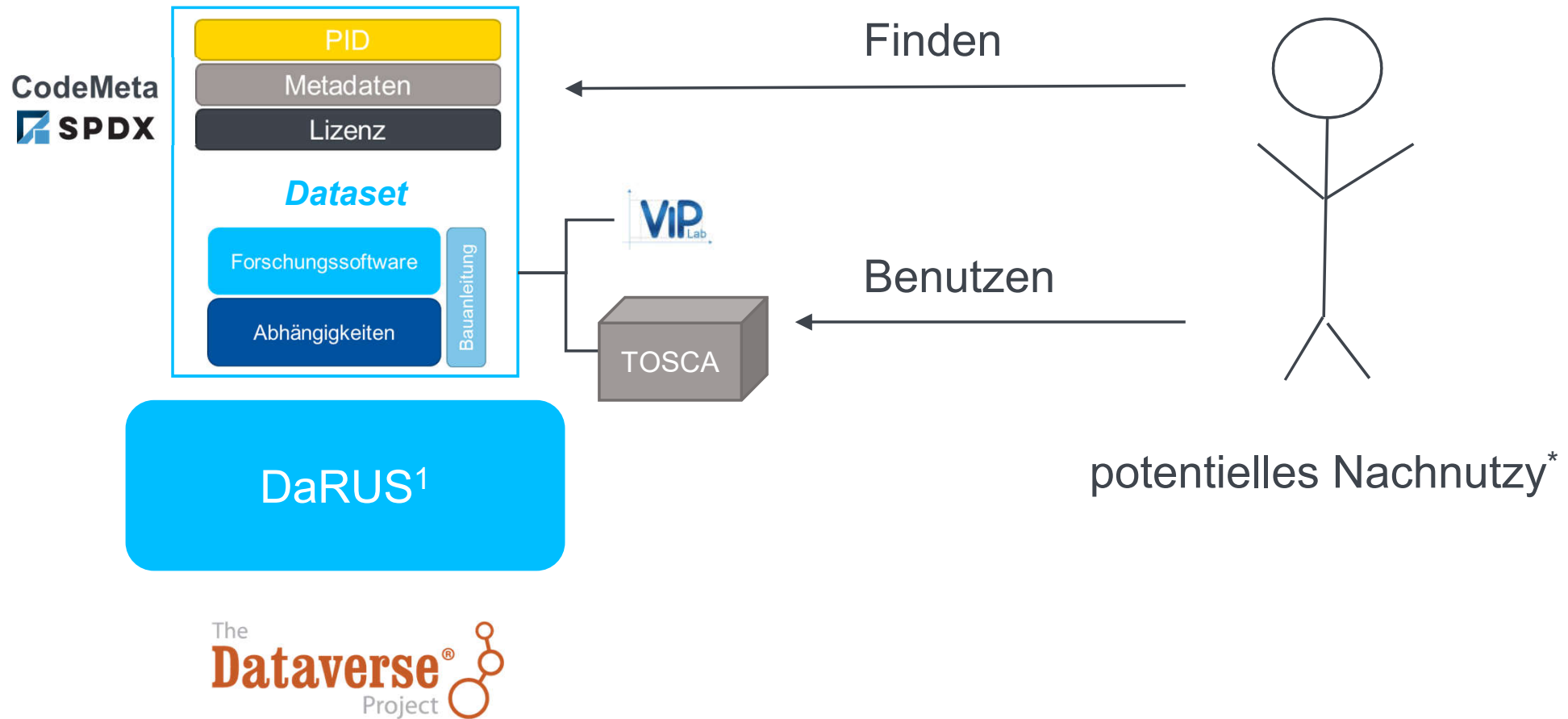
Stdout

```
1 2020 is a leap year
2
3
```

Software nachnutzbar zur Verfügung stellen



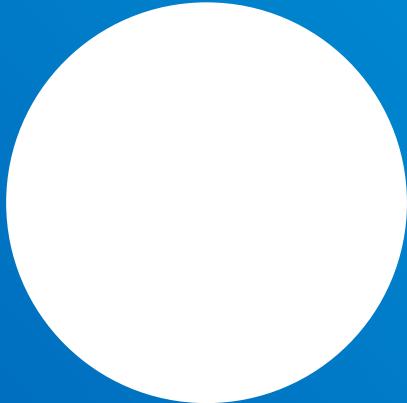
Zusammenfassung





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Thank you!



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