

Test data management



```
SELECT *  
FROM clients  
INNER JOIN tdm ON clients.d = tdm.client  
WHERE tdm.time_spent > tdm.desired_time_spent
```

20-40%

Test data

Data input during execution (part of execution steps)



Interaction with data in DB (create starting point)

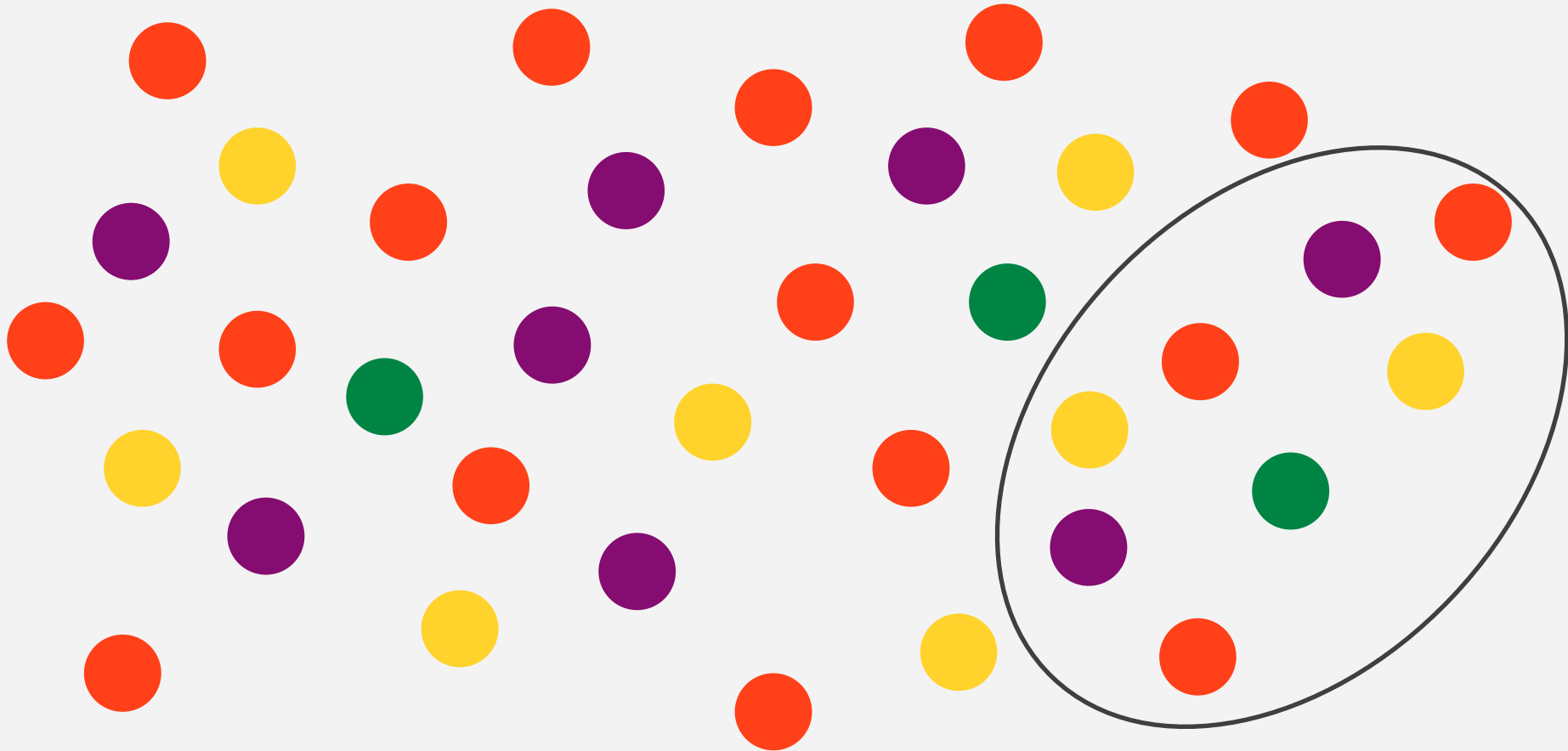


Two approaches



- ▶ Create your own data from scratch
- ▶ Use existing data

Representative



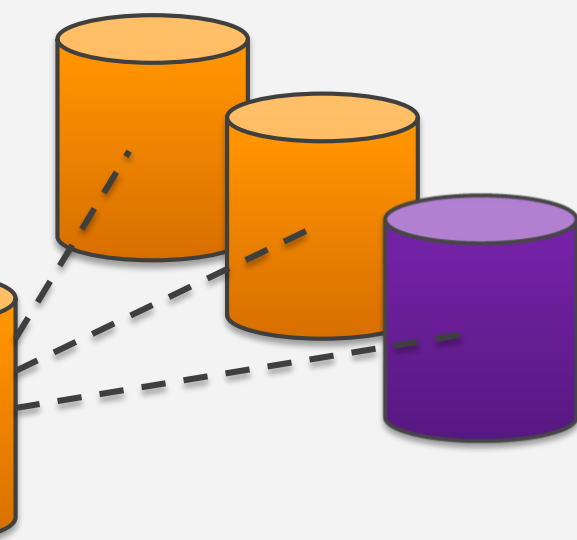
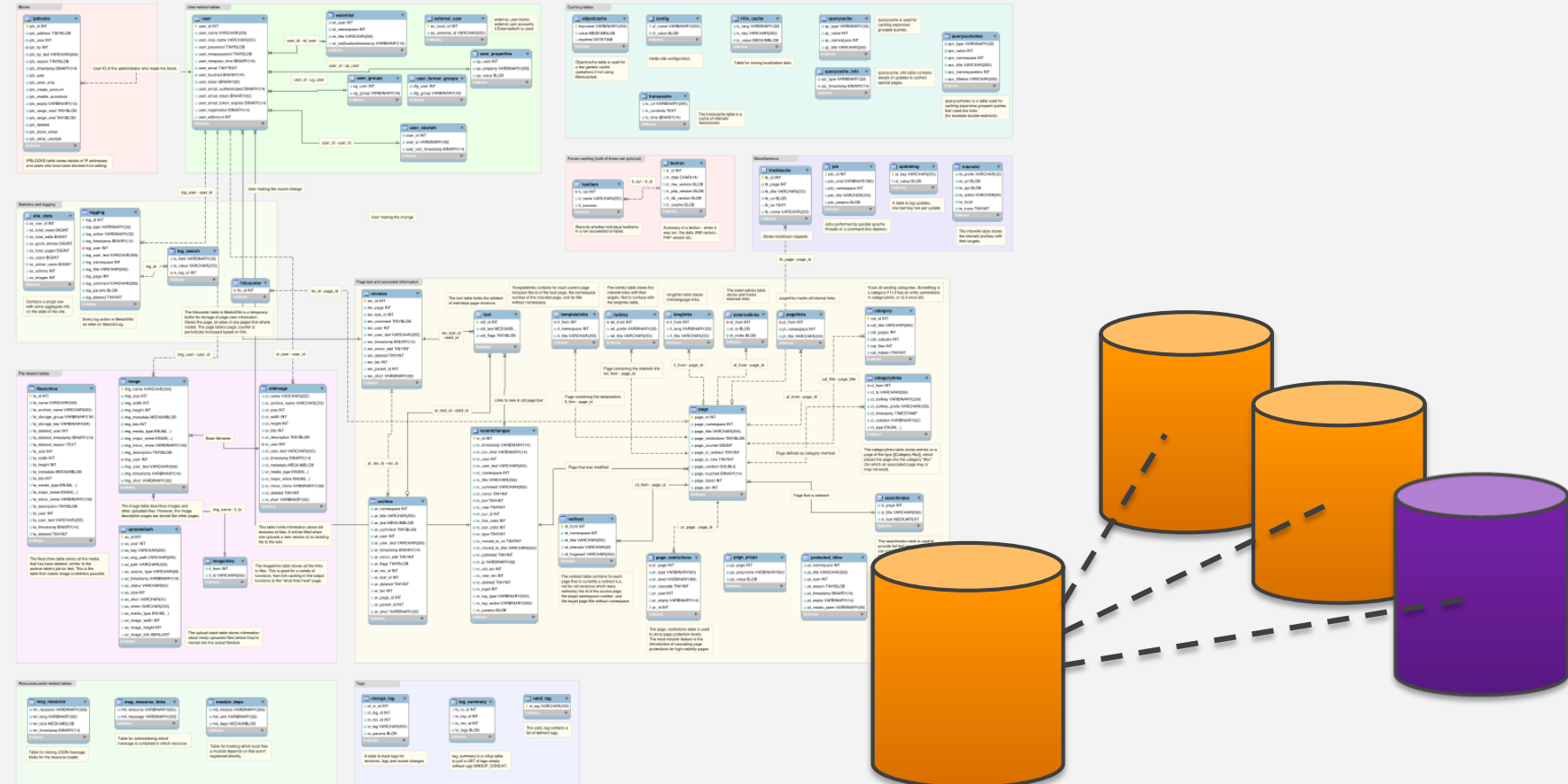
Risk coverage



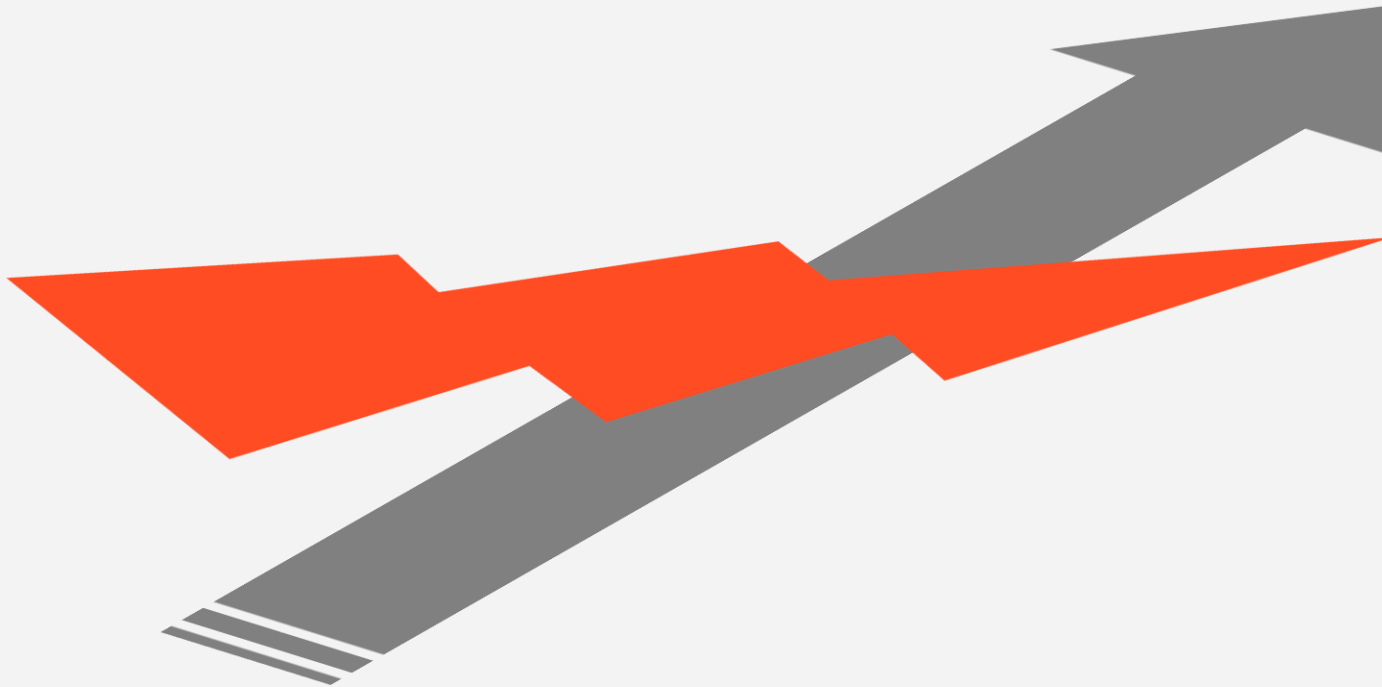
Integrity



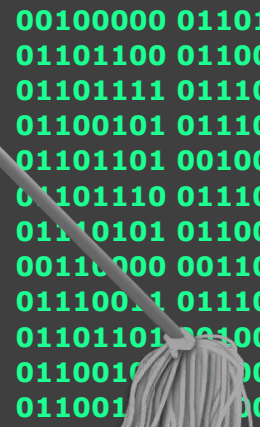
Revision release of Integrity 1.19 on 01/03/2014 (November 2013).
Please refer to the Release Change Log for specific details on this release.



Interference



Clean data



```
01010100 01101000 01101001 01110011 00100000 01101001 01110011 00100000 01101010 01110101
01110011 01110100 00100000 01110011 01101111 01101101 01100101 00100000 01110010 01100001
01101110 01100100 01101111 01101101 00100000 01110100 01100101 01111000 01110100 00100000
01110100 01101111 00100000 01100110 01101001 01101100 01101100 00100000 01110100 01101000
01100101 00100000 01110011 01110000 01100001 01100011 01100101 00100000 01110100 01101000
01100001 01110100 00100000 01001001 00100000 01101110 01100101 01100101 01100100 00100000
01110100 01101111 00100000 01100011 01110010 01100101 01100001 01110100 01100101 00100000
01110100 01101000 01101001 01110011 00100000 01110011 01101100 01101001 01100100 01100101
00100000 01101111 01101110 00100000 01100100 01100001 01110100 01100001 00100000 01100011
01101100 01100101 01100001 01101110 01110011 01101001 01101110 01100111 00100000 01100110
01101111 01110010 00100000 01110100 01101000 01100101 00100000 01010011 01101111 01100111
01100101 01110100 01101001 00100000 01000010 01100101 01101100 01100111 01101001 01110101
01101101 00100000 01010100 01100101 01110011 01110100 00100000 01000101 01110110 01100101
01101110 01110100 00100000 01101111 01101110 00100000 01000110 01100101 01100010 01110010
01110101 01100001 01110010 01111001 00100000 00110001 00110101 00101100 00100000 00110010
00110000 00110001 00110111 00100000 01101001 01101110 00100000 01000010 01110010 01110101
01110011 01110011 01100101 01101100 01110011 00101110 00100000 01001001 00100000 01100001
01101101 00100000 01110110 01100101 01110010 01111001 00100000 01100111 01101100 01100001
01100101 000000 01111001 01101111 01110101 00100000 01100011 01101111 01110101 01101100
01100101 000000 01101101 01100001 01101011 01100101 00100000 01101001 01110100 00101110
```

Reusability



► Logical ⇔ Physical test case

Given there is an event today

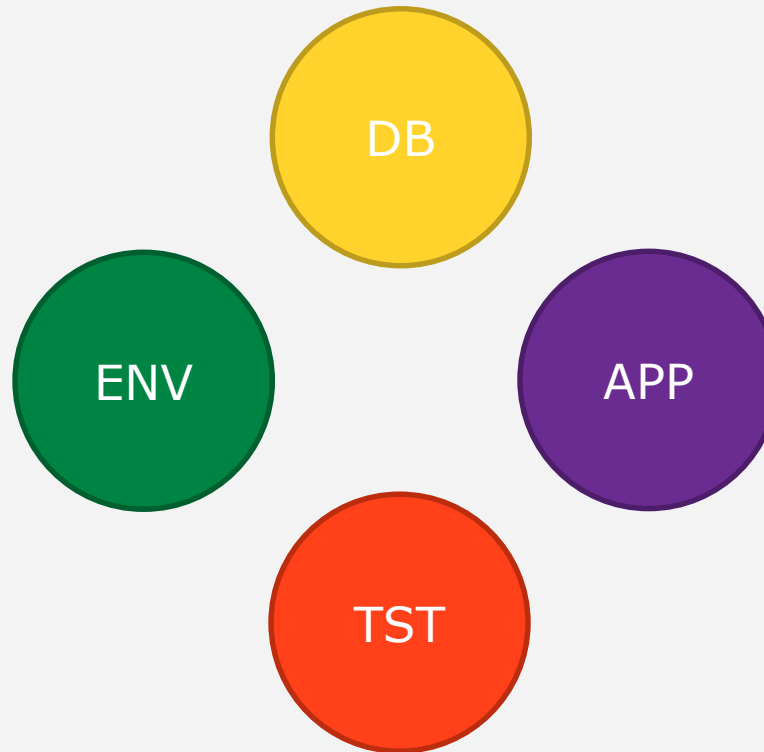
When I go to the `sogeti.be` homepage

Then I see a link to the event

Access to data



TDM = multidisciplinary domain



GDPR

- ▶ General Data Protection Regulation
- ▶ EU directive
- ▶ Enforcement date: 28 May 2018
- ▶ Fines: 4% of annual global turnover or 20M€



GDPR

- ▶ Personal data from EU
- ▶ Privacy by design
- ▶ Explicit consent
- ▶ Data portability
- ▶ Data erasure

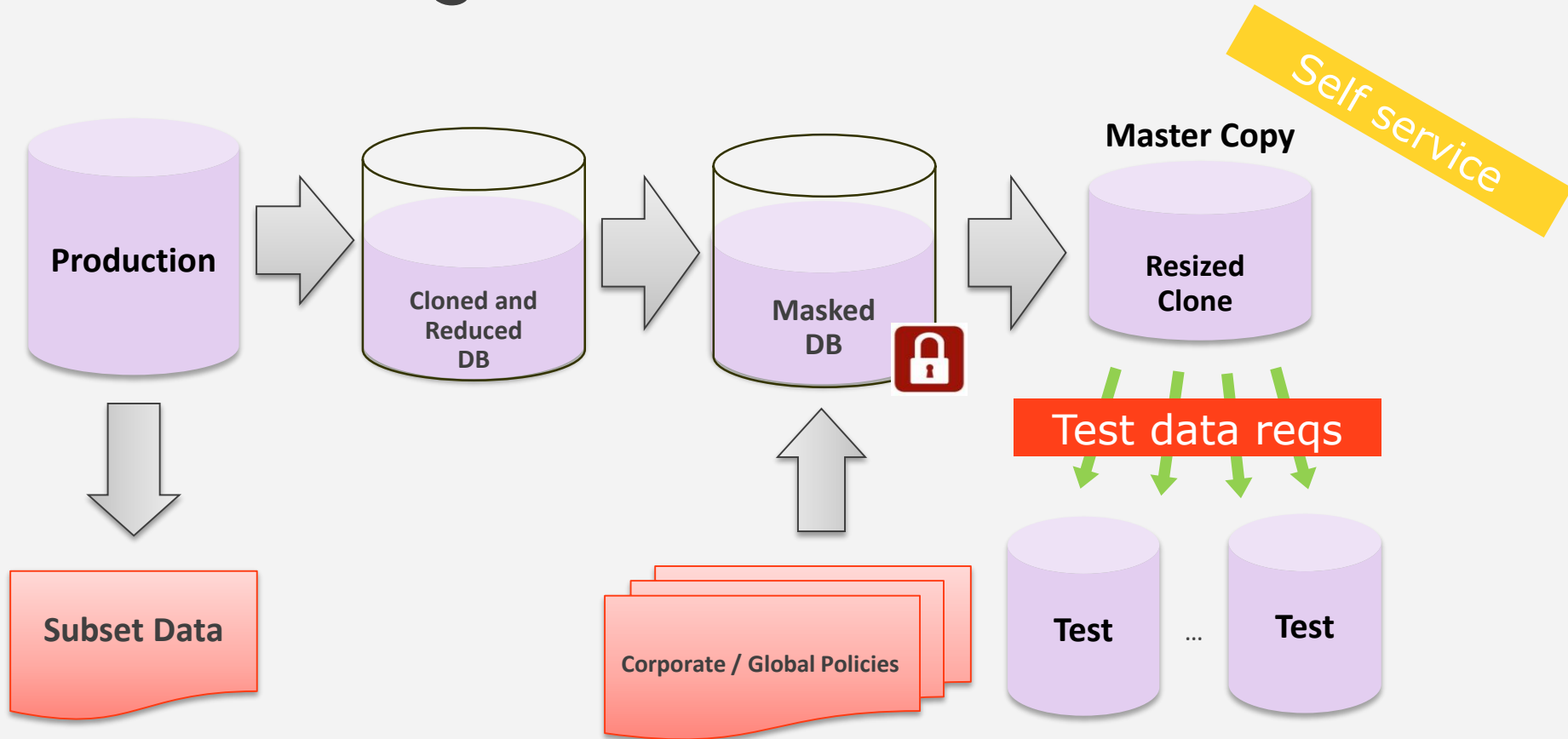


Two approaches



- ▶ Use existing data
- ▶ Make your own

Use existing data

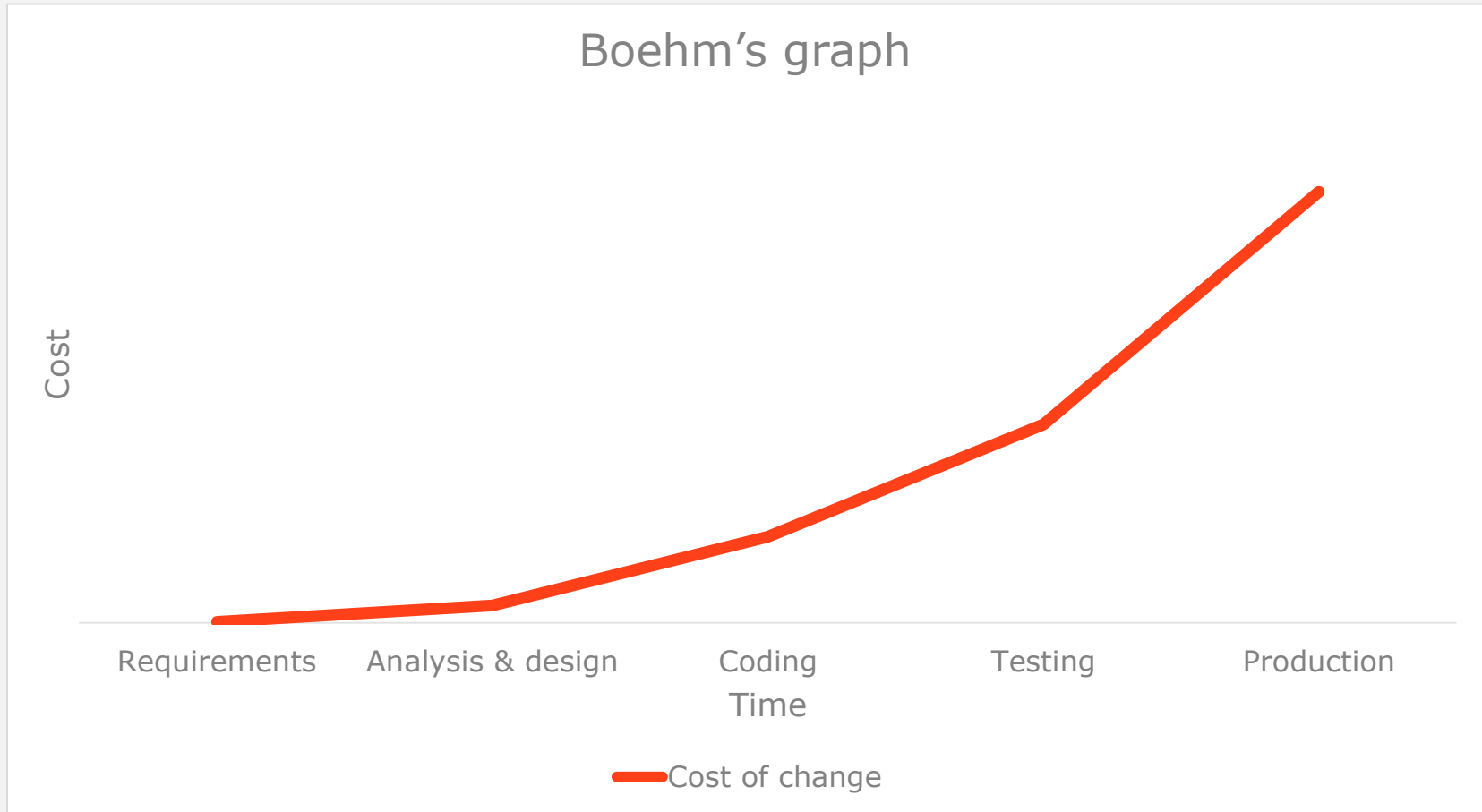


Make your own

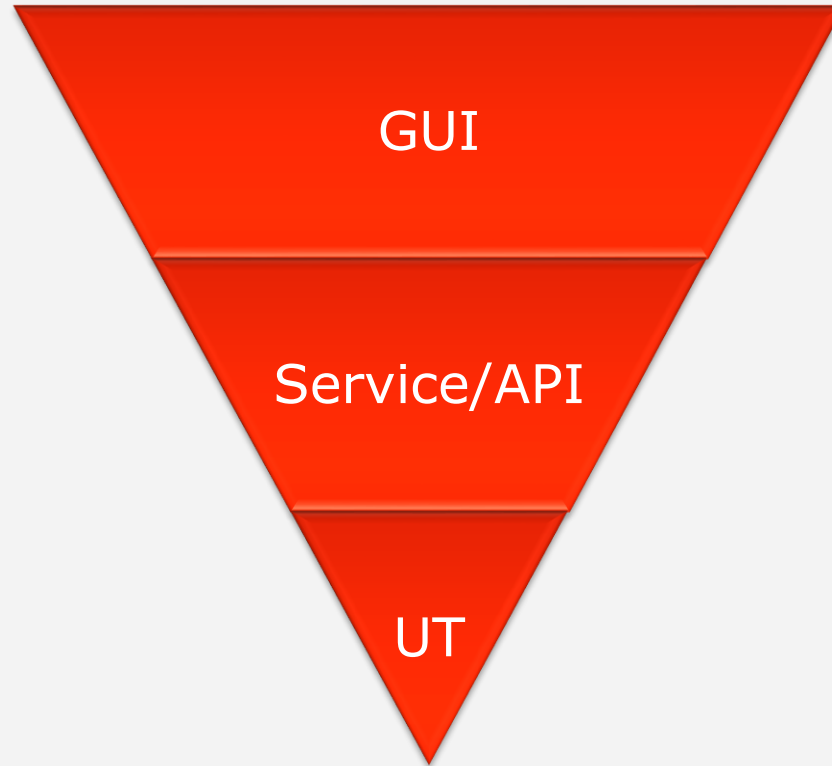


- ▶ No privacy issues
- ▶ More separated environment
- ▶ No interference
- ▶ Earlier

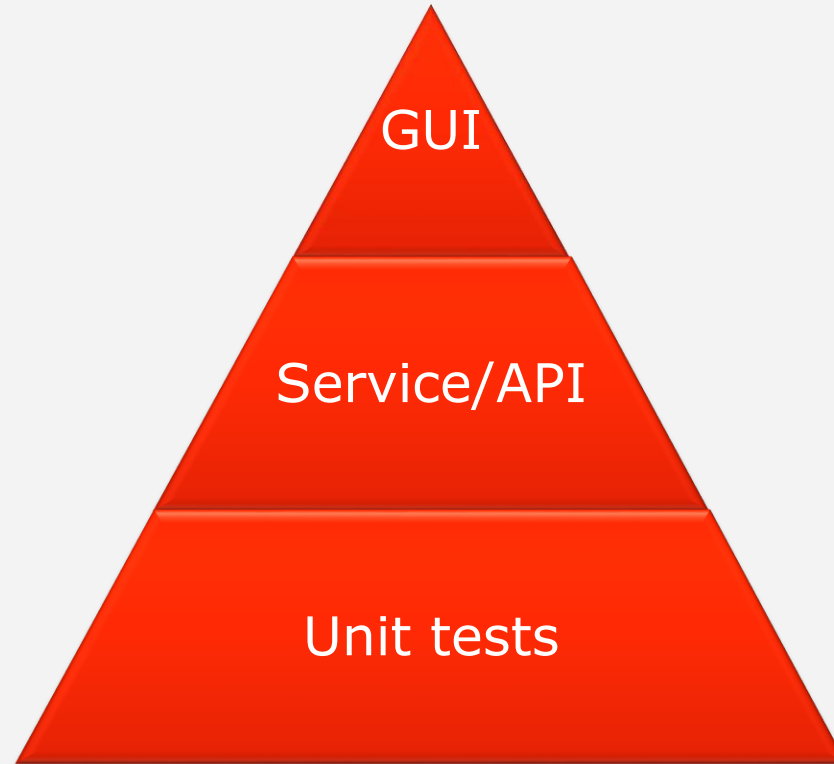
Cost-efficient testing



Turning the pyramid

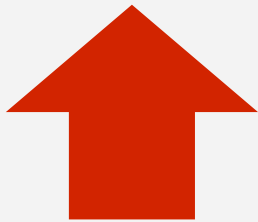


Turning the pyramid



Make your own

- ▶ Test harness
- ▶ Test data pipeline



LOAD



USE



CLEAN UP

Self service

Two approaches



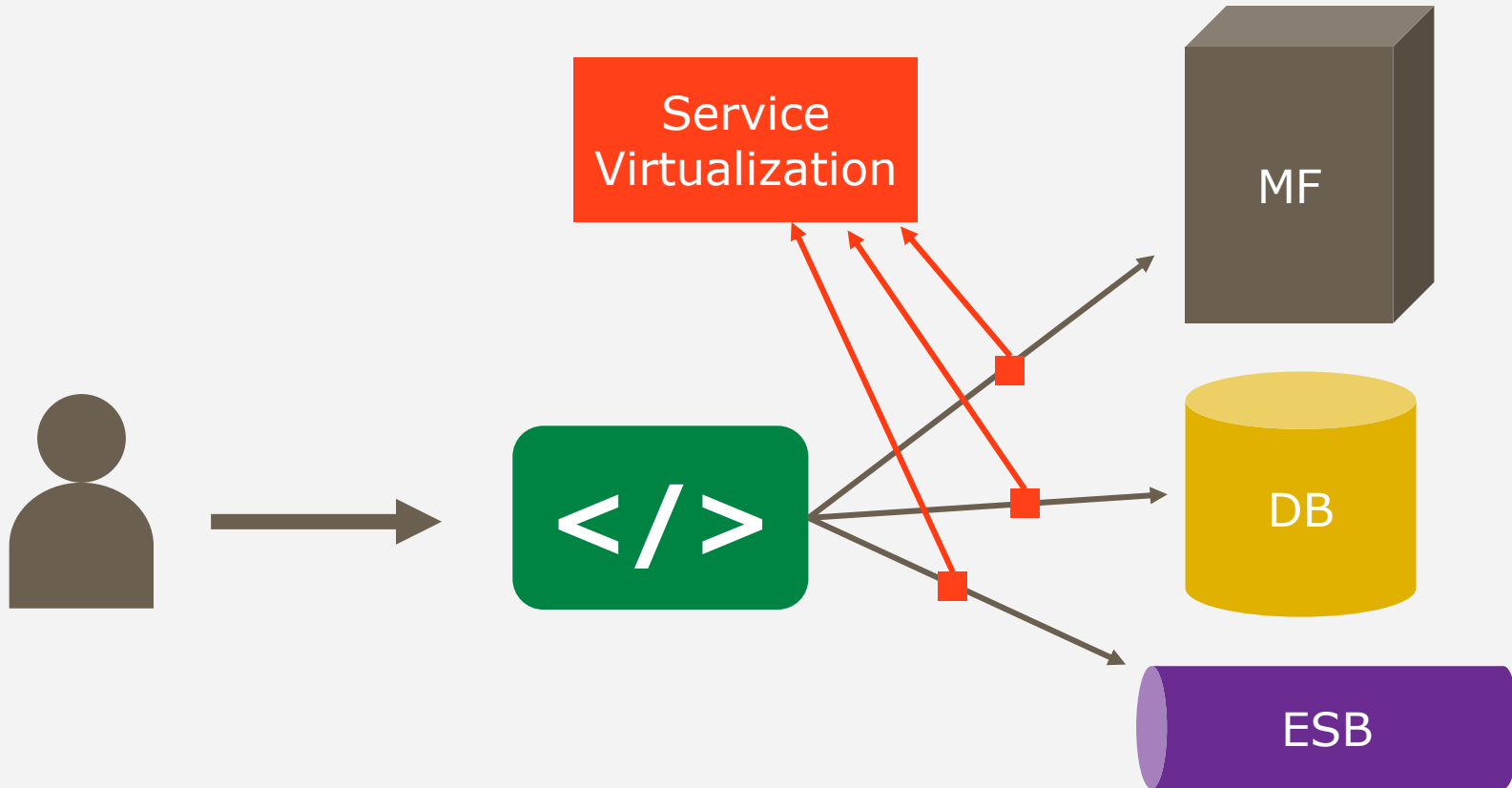
- ▶ Use existing data
- ▶ Make your own

~~Two~~ Three approaches

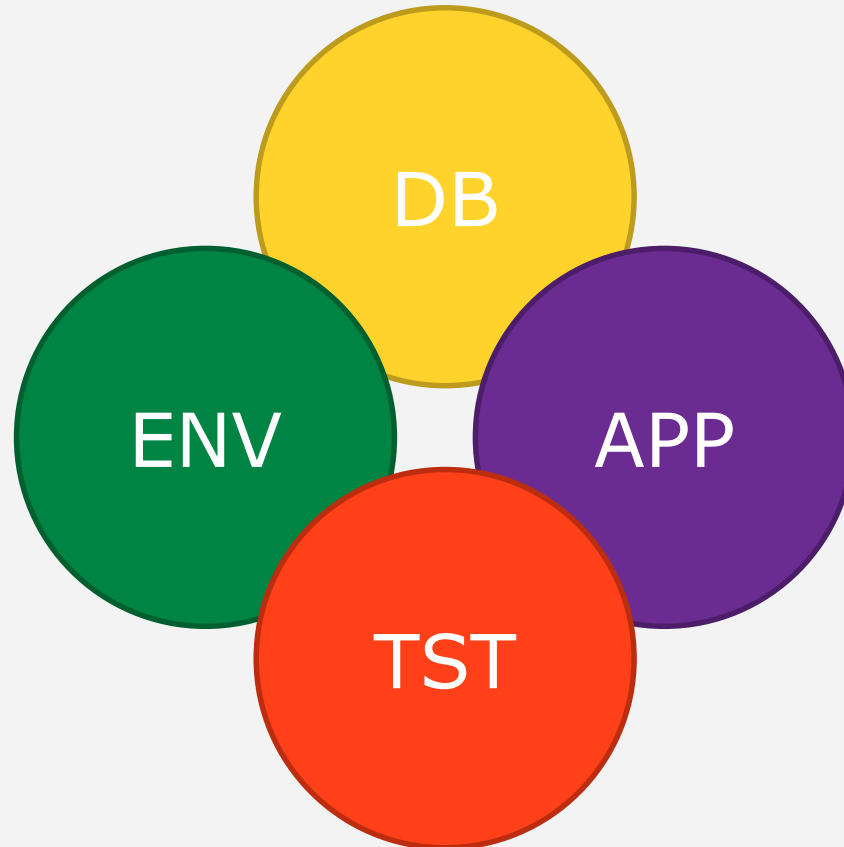


- ▶ Use existing data
- ▶ Make your own
- ▶ Fake your own

Fake your own



Integrated approach



Q&A

