



Erwin de Gier
Application Modernization:
Creating the digital enterprise



Customer demand is changing



User First



Anywhere

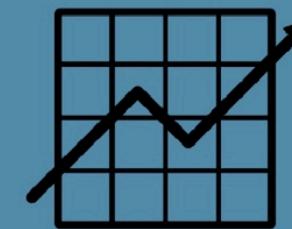


Any time

Software disrupts business



New Offerings



New Business Models



New Cost Structures

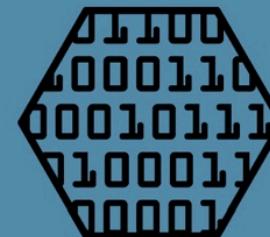
Emerging trends in IT



Cloud



Mobility

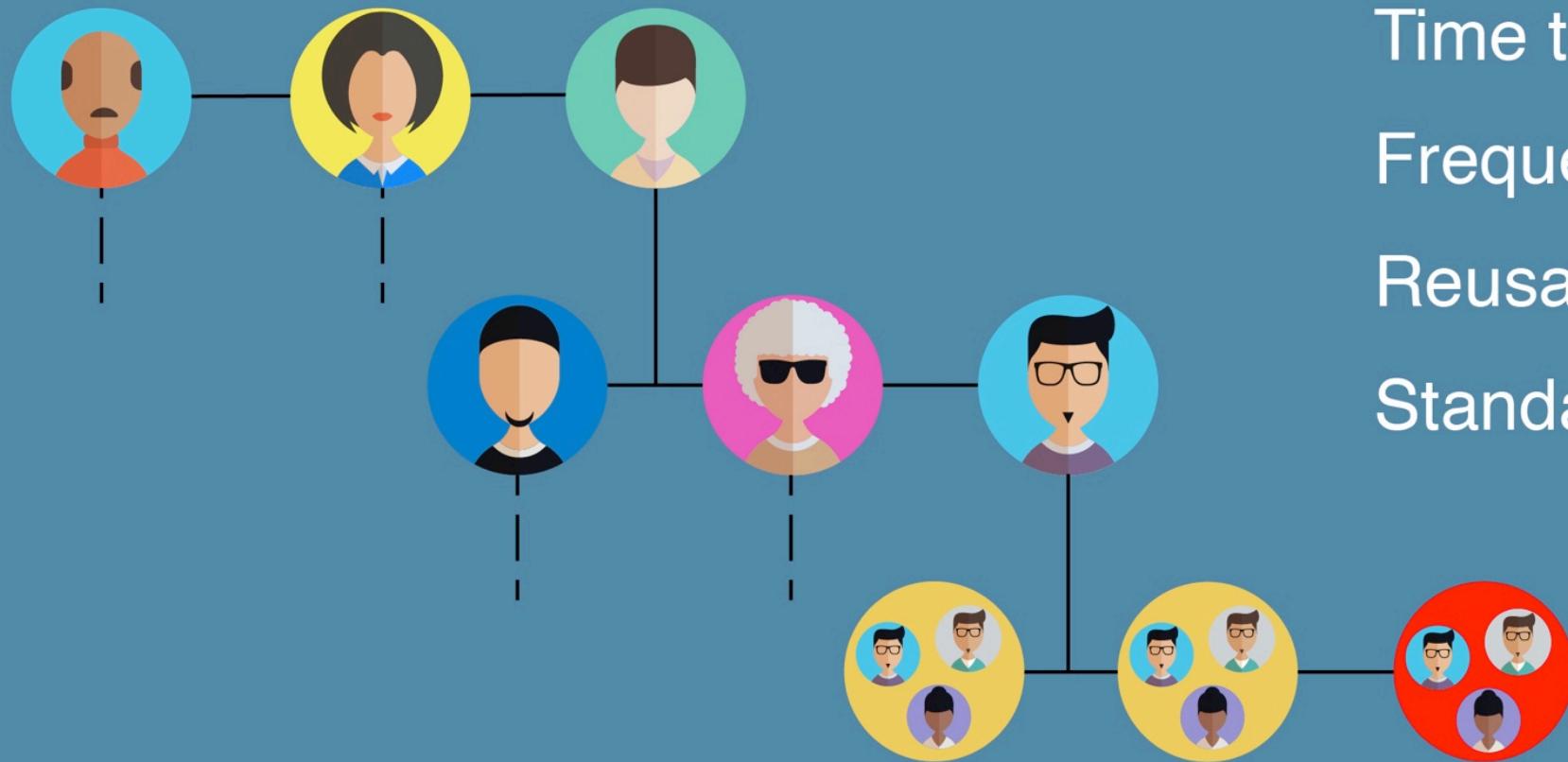


Big Data

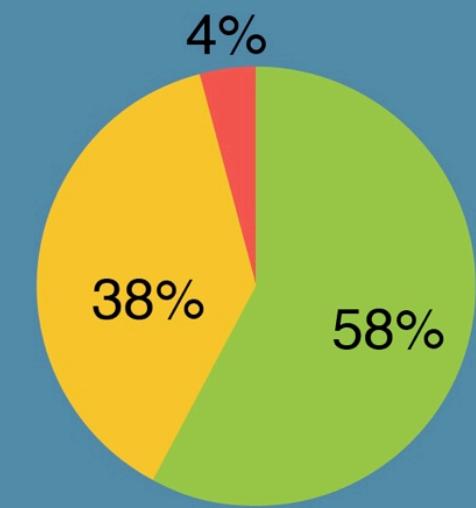
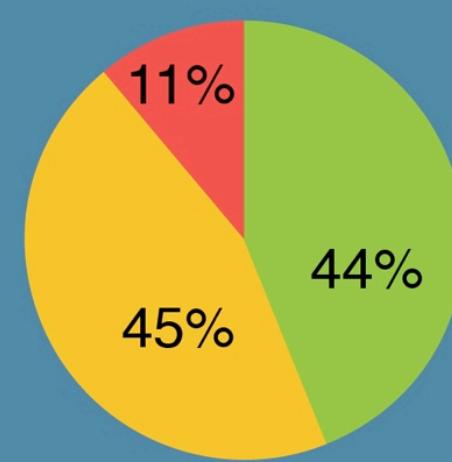
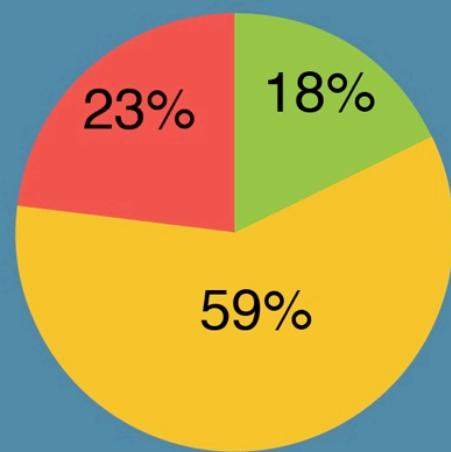
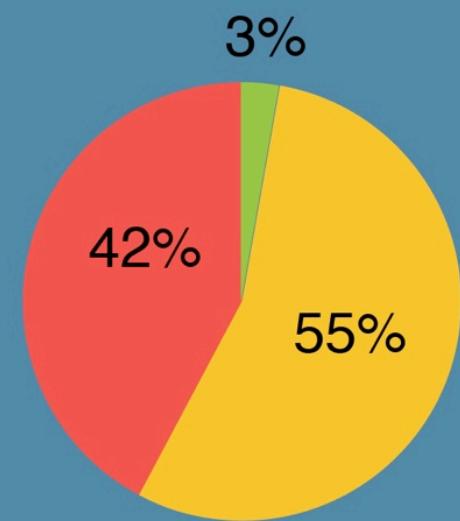


Social

Alignment
Time to Market
Frequency of Delivery
Reusability
Standardization



Our agile project





Product Owner



Project Manager

Wait time for changes is long

Discussions with other stakeholders

Small fixes need big releases

Release management is planned months ahead



Developer

Monolithic complex systems



Architect

Legacy technology

Technology constraints

Requesting a new environment takes a long time



QA

Unclear installation manuals



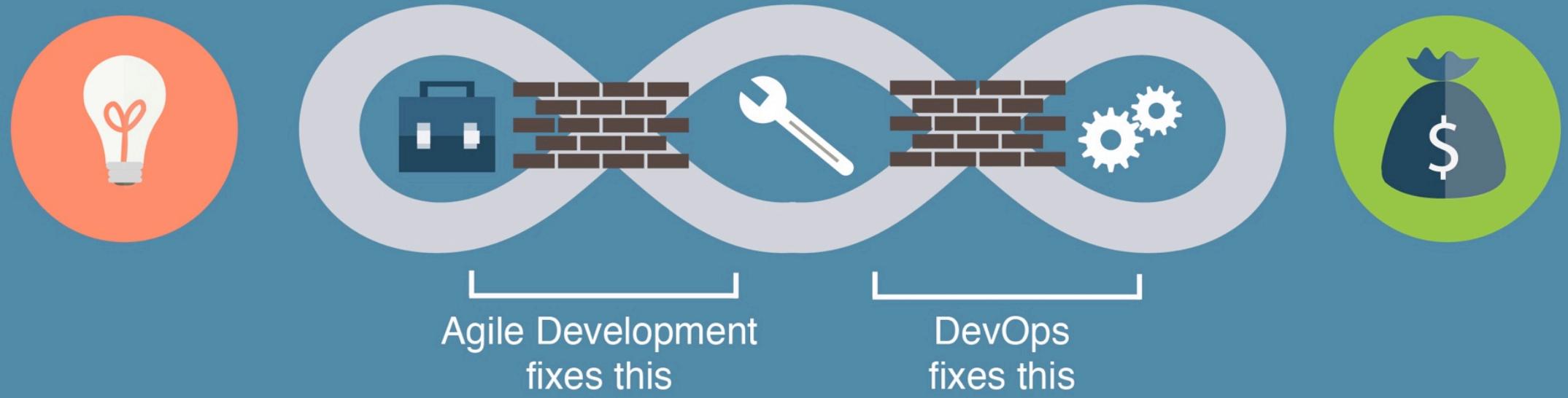
Operations

“It works on my machine”

Manual checks, rules / protocols to follow

Developers are “cowboys” and do not follow rules

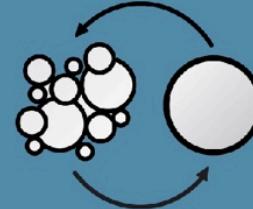
Large regression tests



People & Proces



Traditional Waterfall

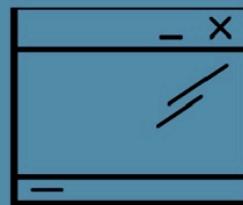


Agile

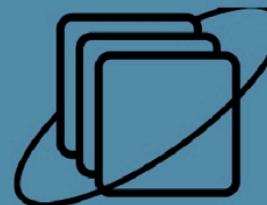


DevOps

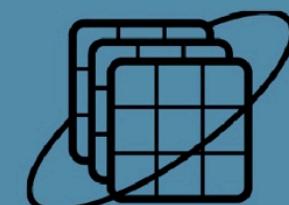
Application Architecture



Monolithic



N-Tier



Microservices

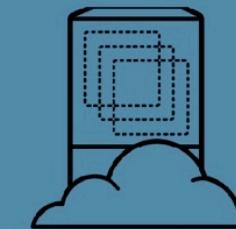
Platform



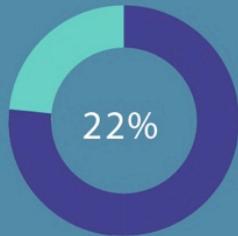
Physical



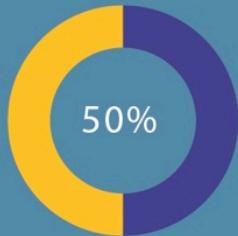
Virtual



Cloud / Containers



Less time
unplanned
work



Less time
remediating
security issues



2.2x Times more likely to
recommend as a great place to work

3x

Lower change
failure rate

200x

More frequent
deployments

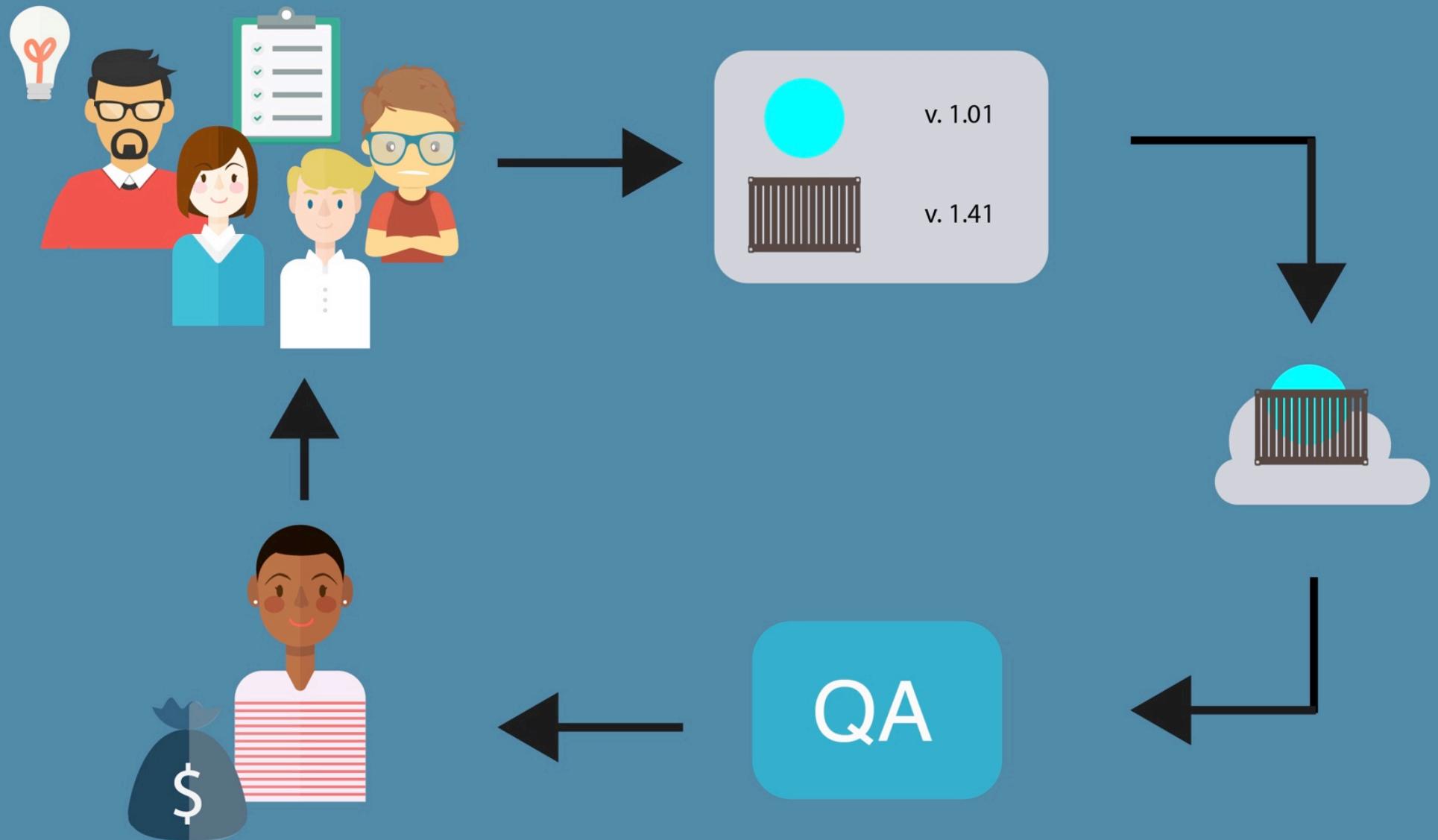
2,555x

Shorter lead
times

24x

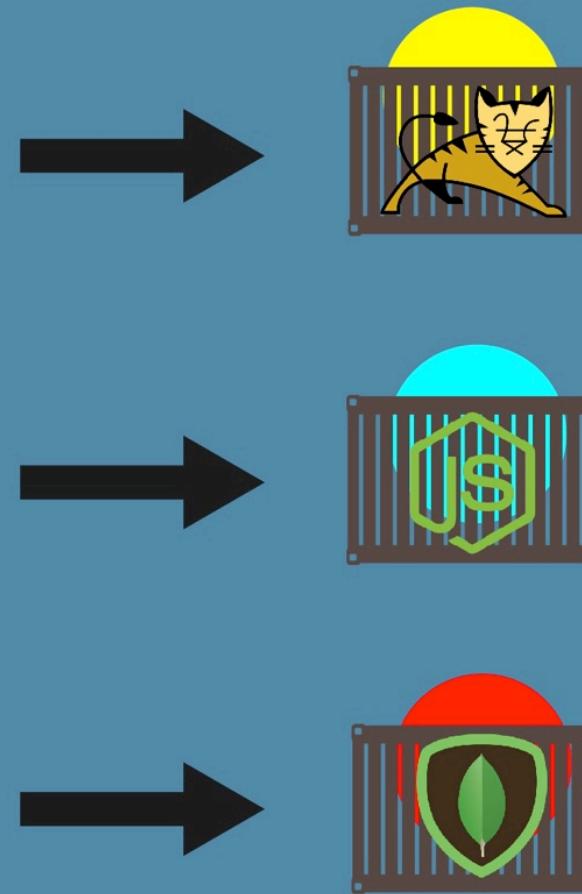
Faster recovery
from failures







Operations



Development



Reduction of time to market



Organisational alignment

Plan with more precision

Owner of smaller applications

Product Owner

Project Manager



Split out monoliths into
smaller services

Freedom of technology
(innovation)

Service re-use (composition)

Self service portals

Versioning of environments

Developer

Architect



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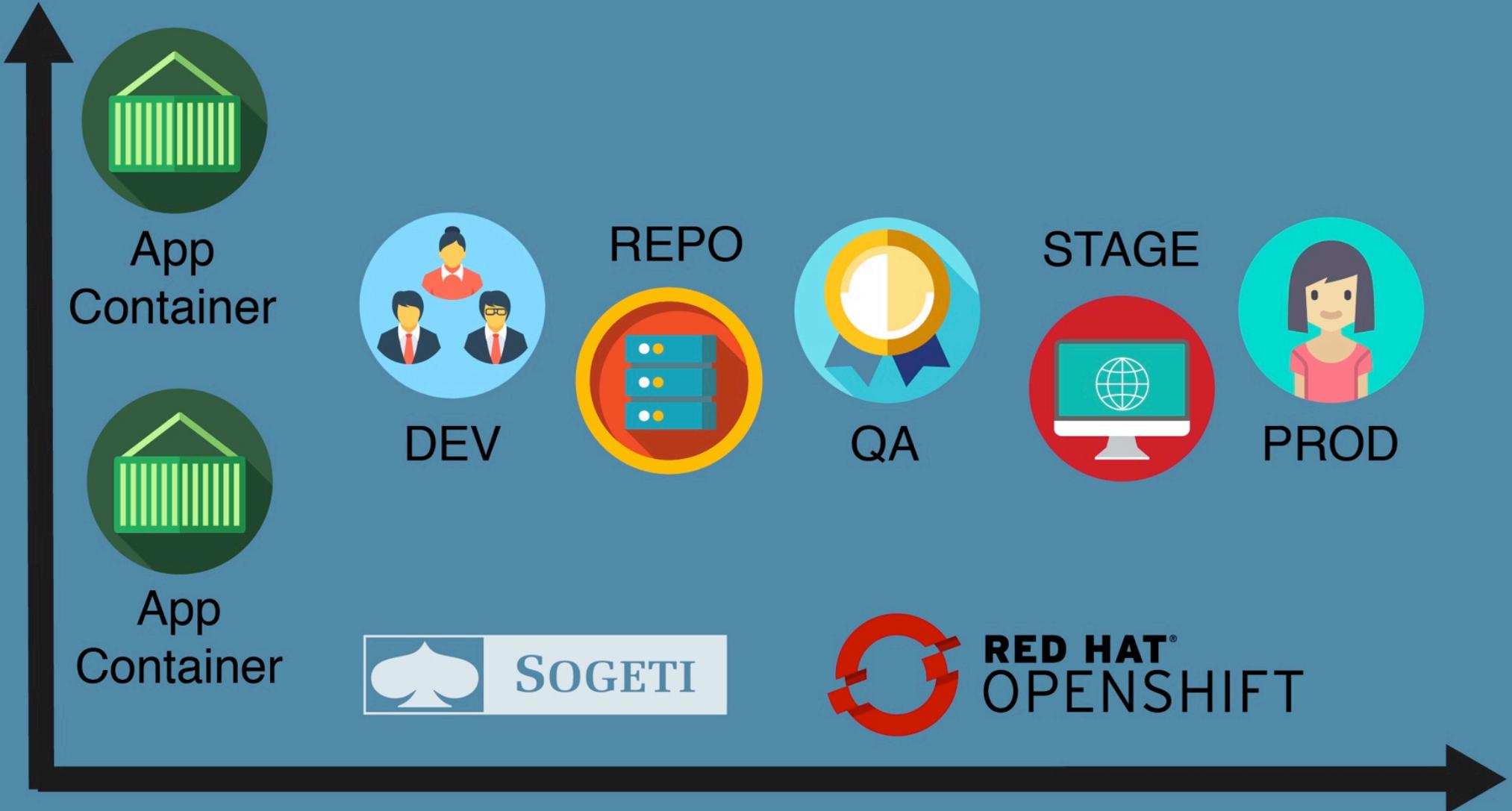
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Erwin de Gier
Software Architect, Open Source
erwin.de.gier@sogeti.com

Pravin Jamsutkar
Portfolio Sales, Open Source
pravin.jamsutkar@sogeti.com