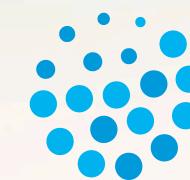




Achieve
Ambitions



nexxbiz
accelerating value delivery

Importance of
Security &
Compliance

nexxbiz

3 AI capabilities
to control
security

Omid Tansaz

Co-founder &
Product Owner
@nexxbiz

Ramon De Boer

Cloud Security Specialist
@PaloAlto Networks

Insurance
industry &
building a secure
containerized

PaaS

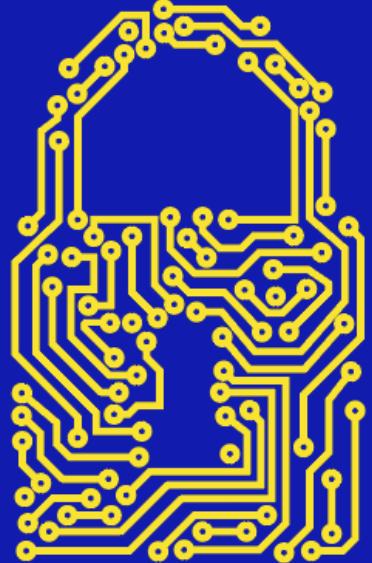
How
AI driven security
technologies help





Improve Insurance sector's efficiency

nexxbiz iPaaS (Insurance Platform as a Service) removes ambition limiting IT constraints and securley enables customers to improve their business agility, scalability and efficiency.



GDPR
GENERAL DATA
PROTECTION REGULATION



DeNederlandscheBank AFM



ISO 9001 · ISO 14001
ISO 20000 · ISO 27001
NEN 7510



ISAE 3402 TYPE II &
SOC2 ASSURANCE



TPM ASSURED
HOSTING PROVIDER

A silhouette photograph of two climbers on a mountain peak. One climber is in the foreground, leaning forward, while the other is slightly behind and to the right, both holding onto a rope. They are positioned against a background of misty, layered mountains under a clear sky.

Trust!

Unfortunately,
a lots of
organizations

elegantly fail!





Human... The weakest link



62% of businesses **worldwide** has experienced
phishing and social
engineering attacks in 2018

43% of breach victims were small businesses.

**71% of breaches were financially motivated and 25%
were motivated by espionage**

NEWS

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Israeli soldiers duped by Hamas 'fake women' phone ruse

🕒 17 February 2020

 [Share](#)

One of the fake images purportedly used by Hamas hackers

Dozens of Israeli soldiers have had their smartphones hacked by the Hamas militant group posing as women seeking attention, Israel's military says.

A spokesman said the soldiers were sent fake photos of young females and lured into downloading an app without knowing it could access their handsets.



50% of breaches featured **hacking**
30% included **social** engineering
30% involved **malware**

Data breaches exposed 4.1 billion records in the first half of 2019

3 AI capabilities to control **Security**



is a software quality attribute
ISO/IEC 25010

Degree to which a product or system to **protects information & data** so that
persons or other products or systems have the degree of data **access**
appropriate to their types and levels of authorization.

No. of persons: 30

AI#1

The ability to
detect complex threats

Discovery Detection

AI#2

The ability to
protect against attacks

AI#3

The ability to
recover from an attack

'Maastricht University paid hackers to get back system access'

[Education](#) | [Tech & Media](#) [f](#) [t](#) [in](#) [r](#) January 2, 2020



A bit of history

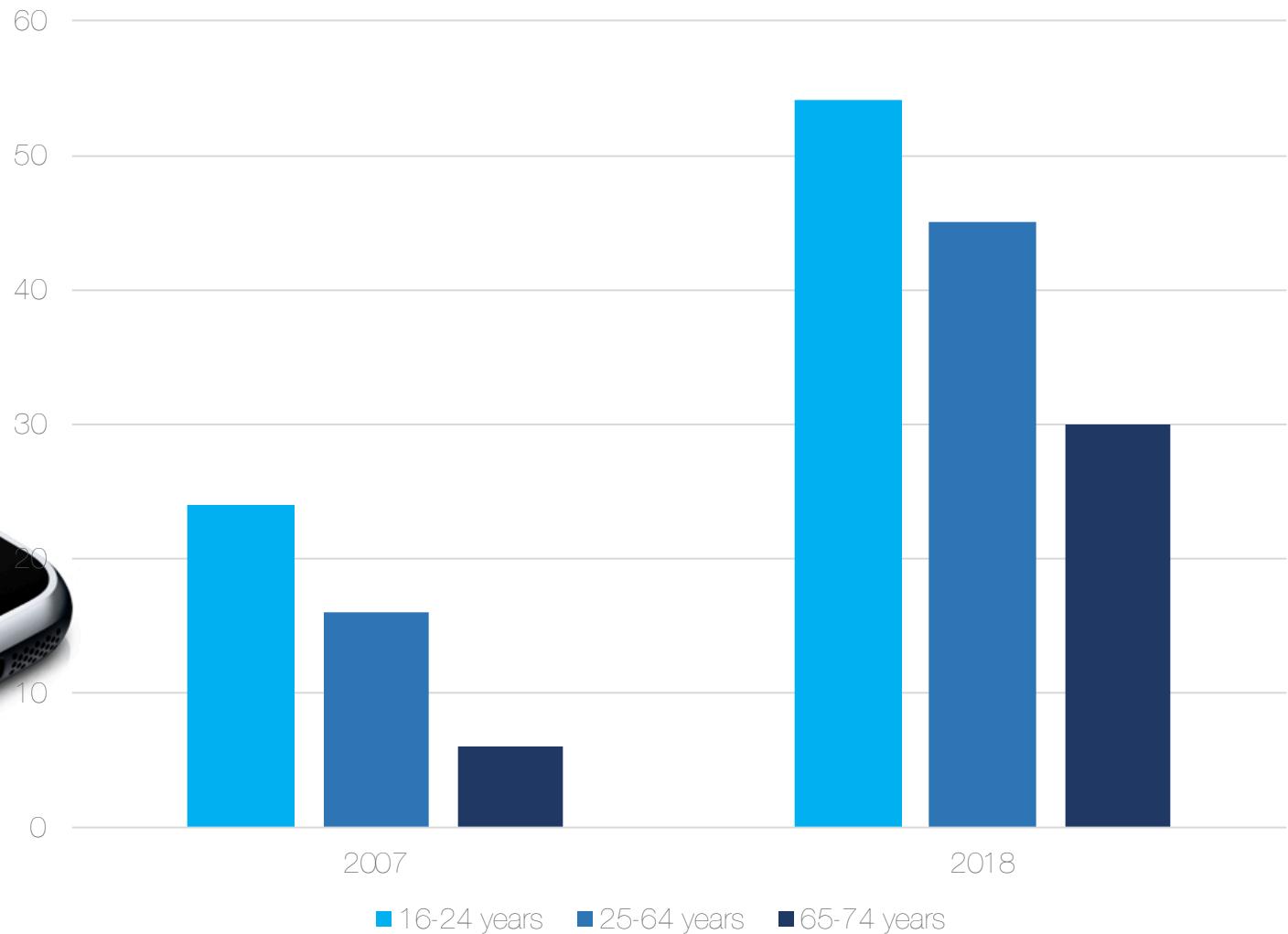
Our experiences in
insurance sector



2007



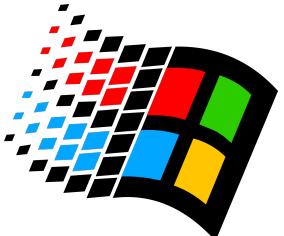
Internet activities EU-people by age %



Really!



COBOL



IBM
Systems
MAINFRAME



```
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==> 4$|  
  
0 Settings Terminal and user parameters User ID . : MOCHA
1 View Display source data or listings Time. . . : 10:49
2 Edit Create or change source data Terminal. : 3278
3 Utilities Perform utility functions Screen. . : 1
4 Foreground Interactive language processing Language. : ENGLISH
5 Batch Submit job for language processing Appl ID . : ISR
6 Command Enter TSO or Workstation commands TSO logon : SYSUSER
7 Dialog Test Perform dialog testing TSO prefix: MOCHA
9 IBM Products IBM program development products System ID : ACD
10 SCLM SW Configuration Library Manager MVS acct. : 12345678
11 Workplace ISPF Object/Action Workplace Release . : ISPF 5.6
S SDSF SDSF Panels
D DB2 DB2 Product, SPUFI and DB2 Commands
A DB2ADM DB2 Administration Tools
M More Additional IBM Products  
  
Enter X to Terminate using log/list defaults  
  
-----  
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All rights reserved.  
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by GSA ADP Schedule Contract with IBM Corp.  
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PF 7=UP 8=DOWN 9=SWAP 10=LEFT 5=RFINDD 6=RCHANGE  
ONLINE 11=RIGHT 12=RETRIEVE 4,16
```

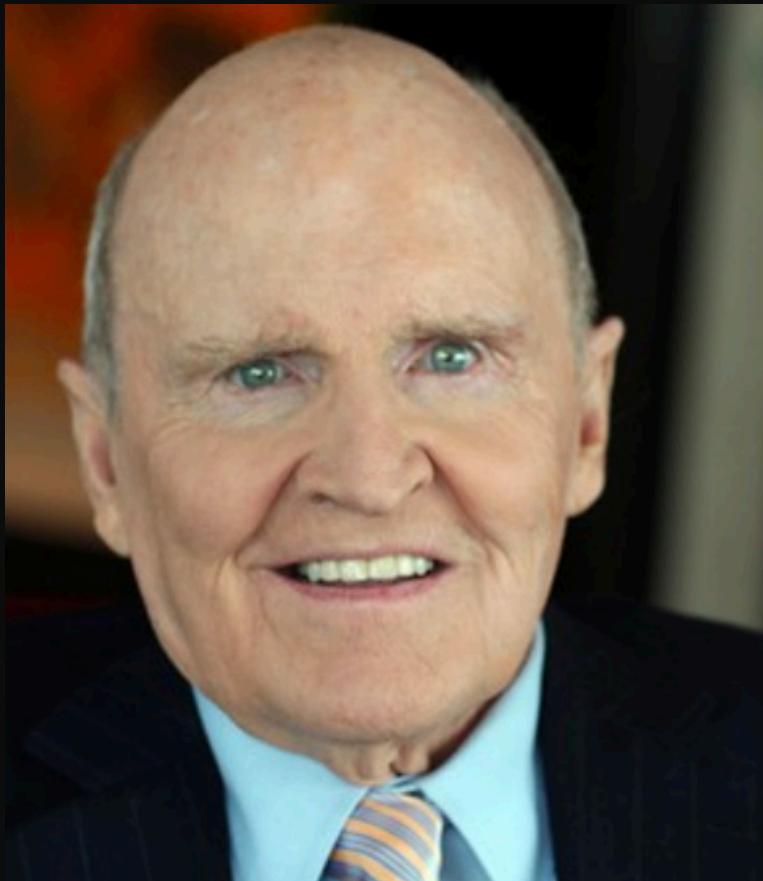


Surprisingly,

The rest of the

**world
kept
evolving**





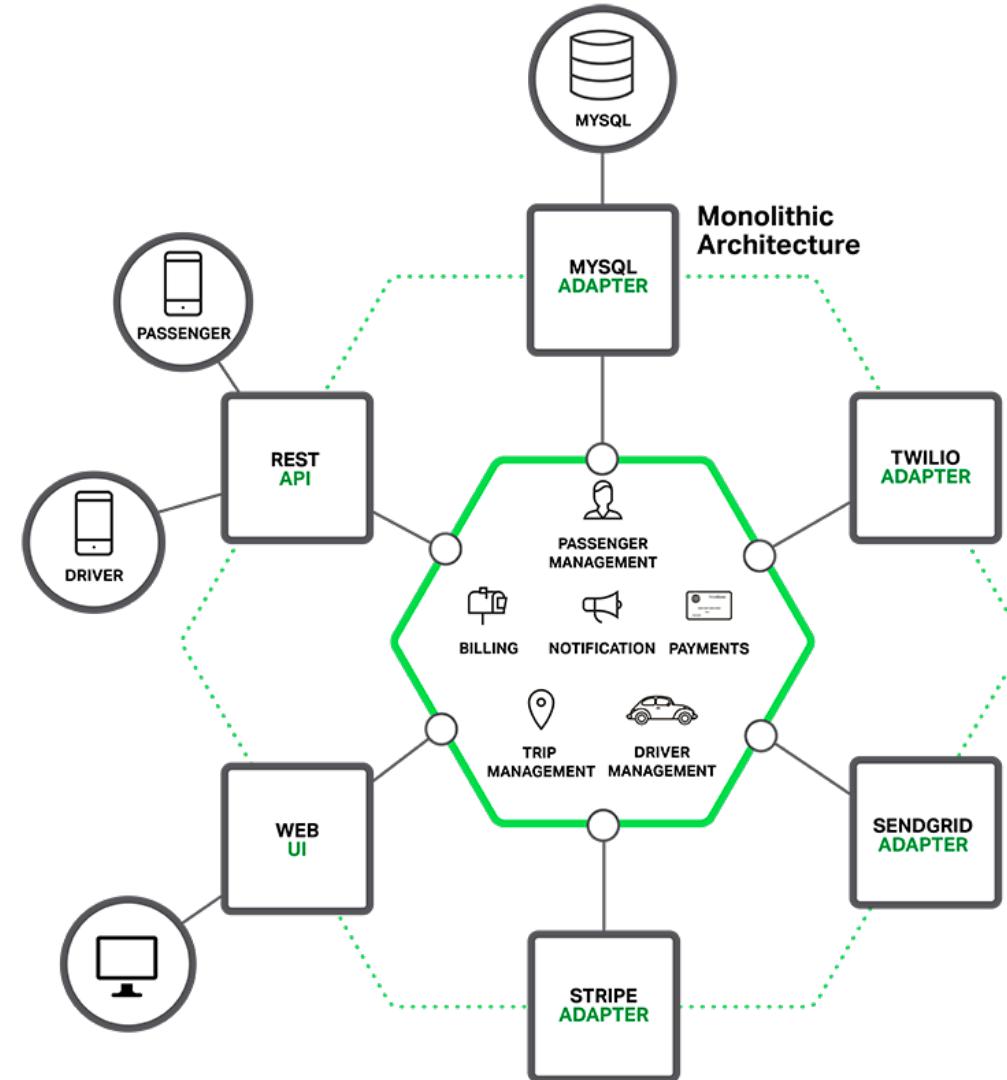
If the rate of change on the outside
exceeds the rate of change on the
inside, the end is near.

— *Jack Welch* —

Crash of 2008



- Multiple service end-points
- Newer technologies
- Shorter maintenance-cycles
- Modern operating systems
- Multi-layer (n-Tier)



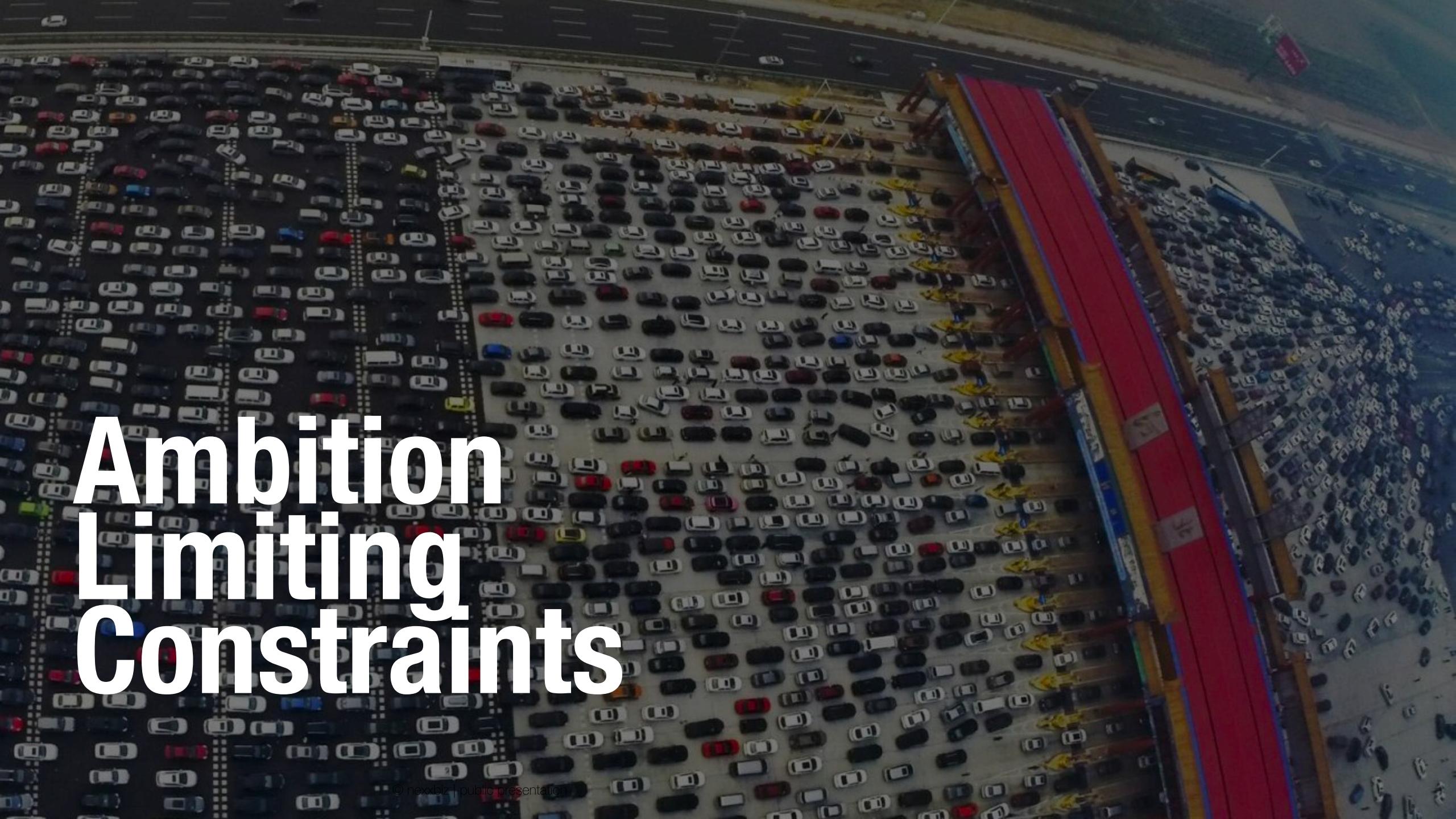


Easy to
secure!?

A photograph showing a dense cluster of multi-story apartment buildings packed closely together. The buildings are painted in various colors, including shades of green, red, blue, and white. Many laundry items are hanging from the balconies and windows, creating a sense of a densely populated urban environment.

Maintainability

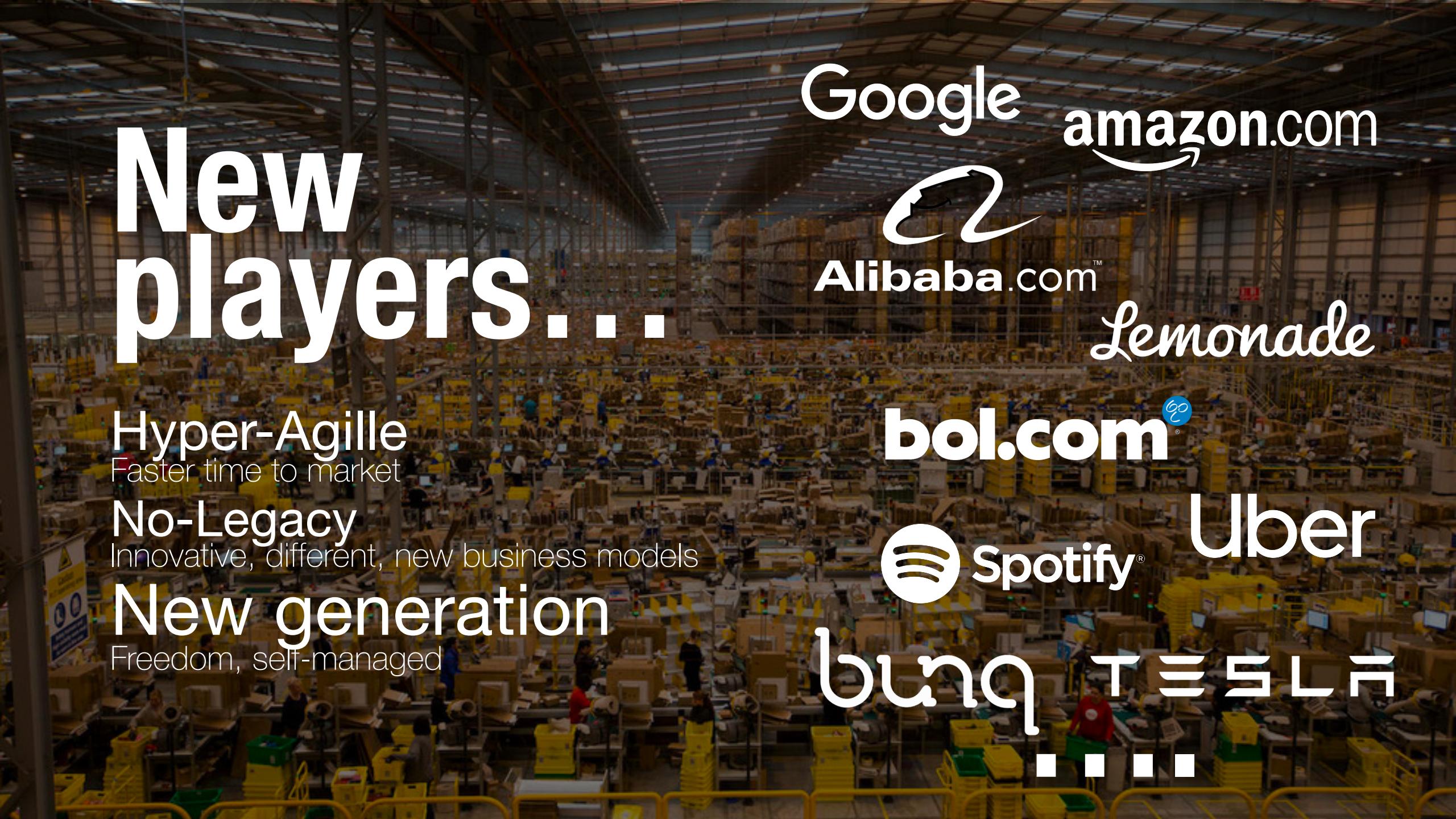
Ambition Limiting Constraints



Fortunately,

The rest of the

**world
kept
evolving**



New players...

Hyper-Agile

Faster time to market

No-Legacy

Innovative, different, new business models

New generation

Freedom, self-managed

Google

amazon.com



Alibaba.com™

Lemonade

bol.com^{GO}

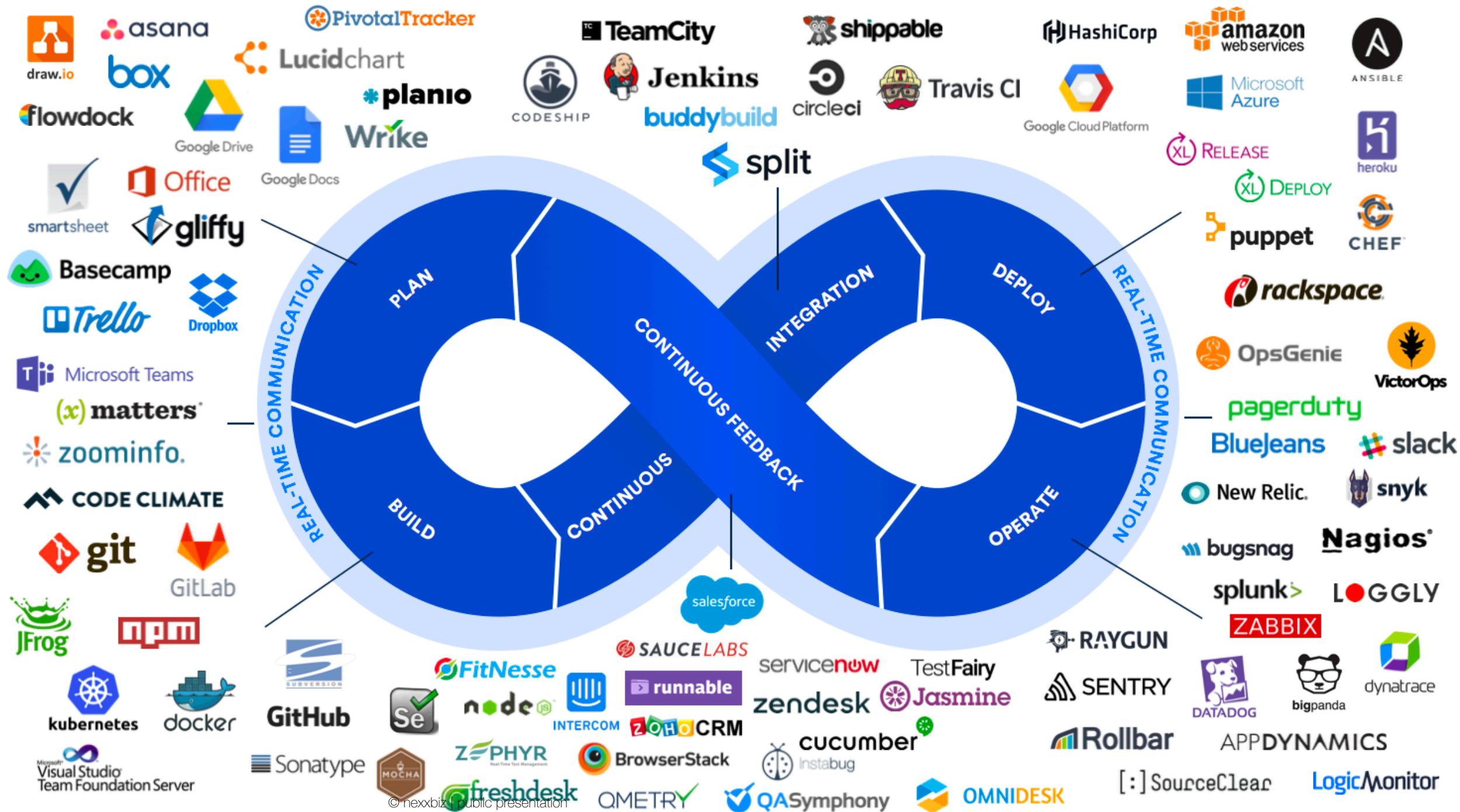
Spotify®

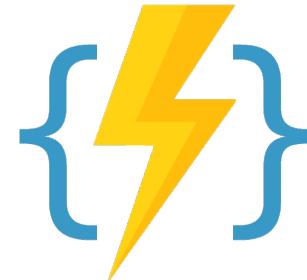
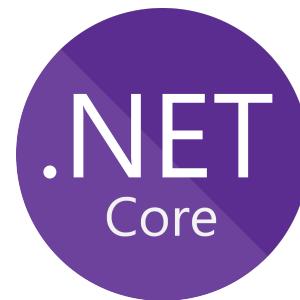
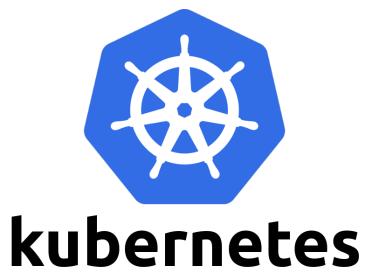
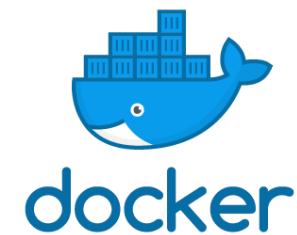
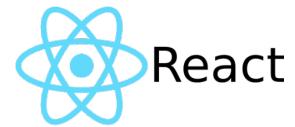
Uber

bunq

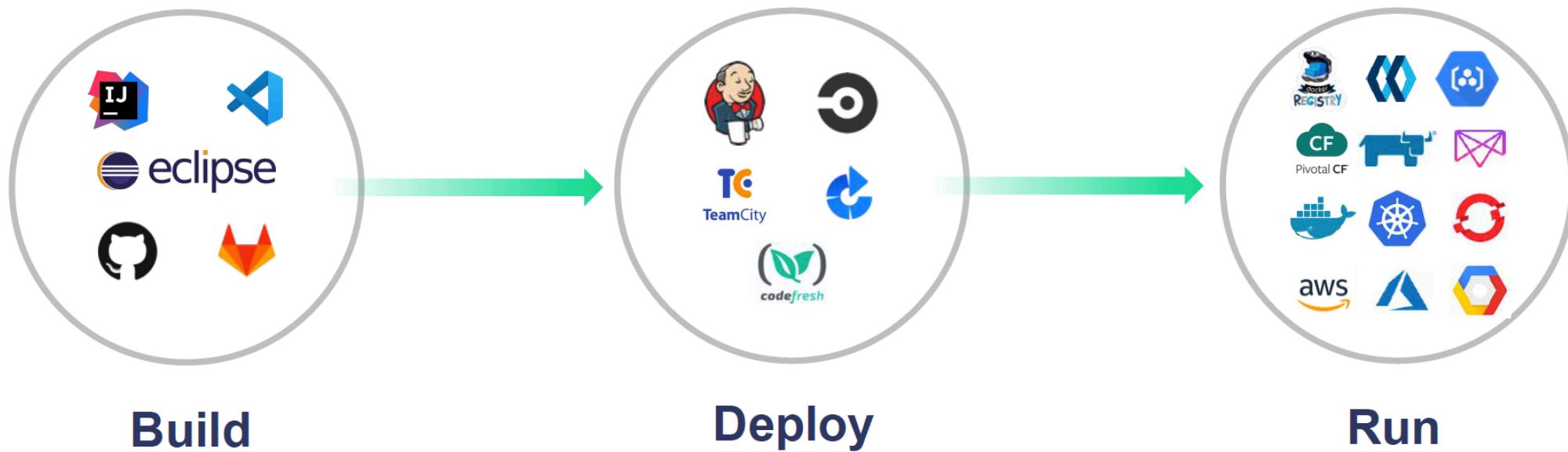
TESLA

...





Daily/Hourly value delivery operations



Hobbytractor

Oversluiten Ja Nee

Gegevens voertuig

Merk

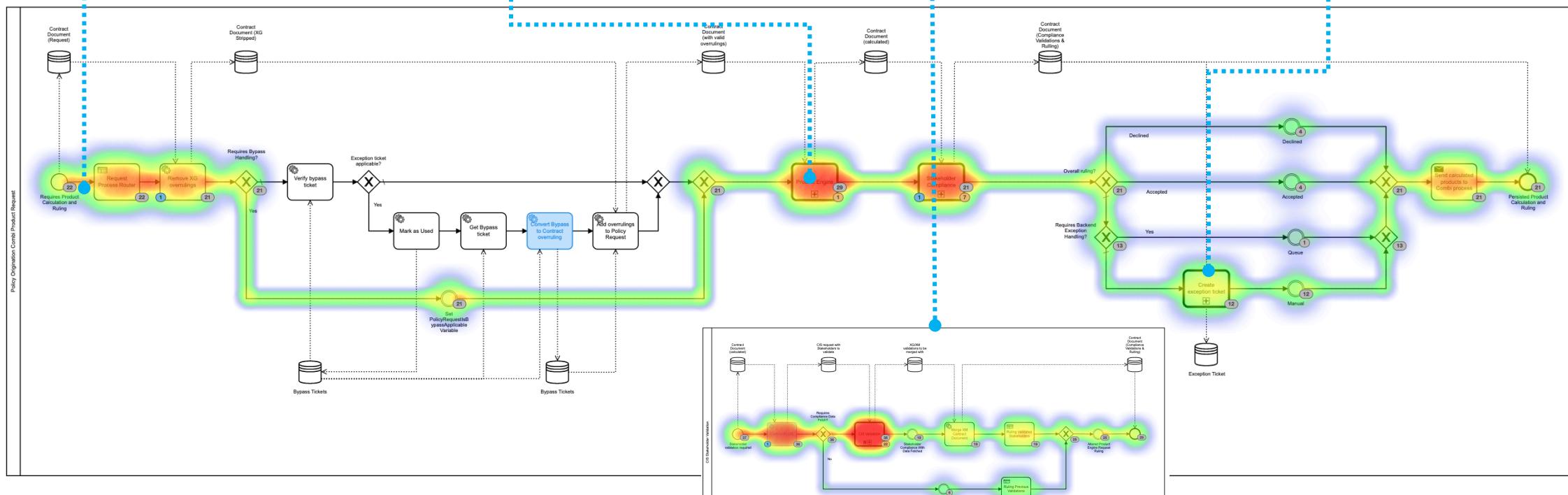
Model

Dekkingen

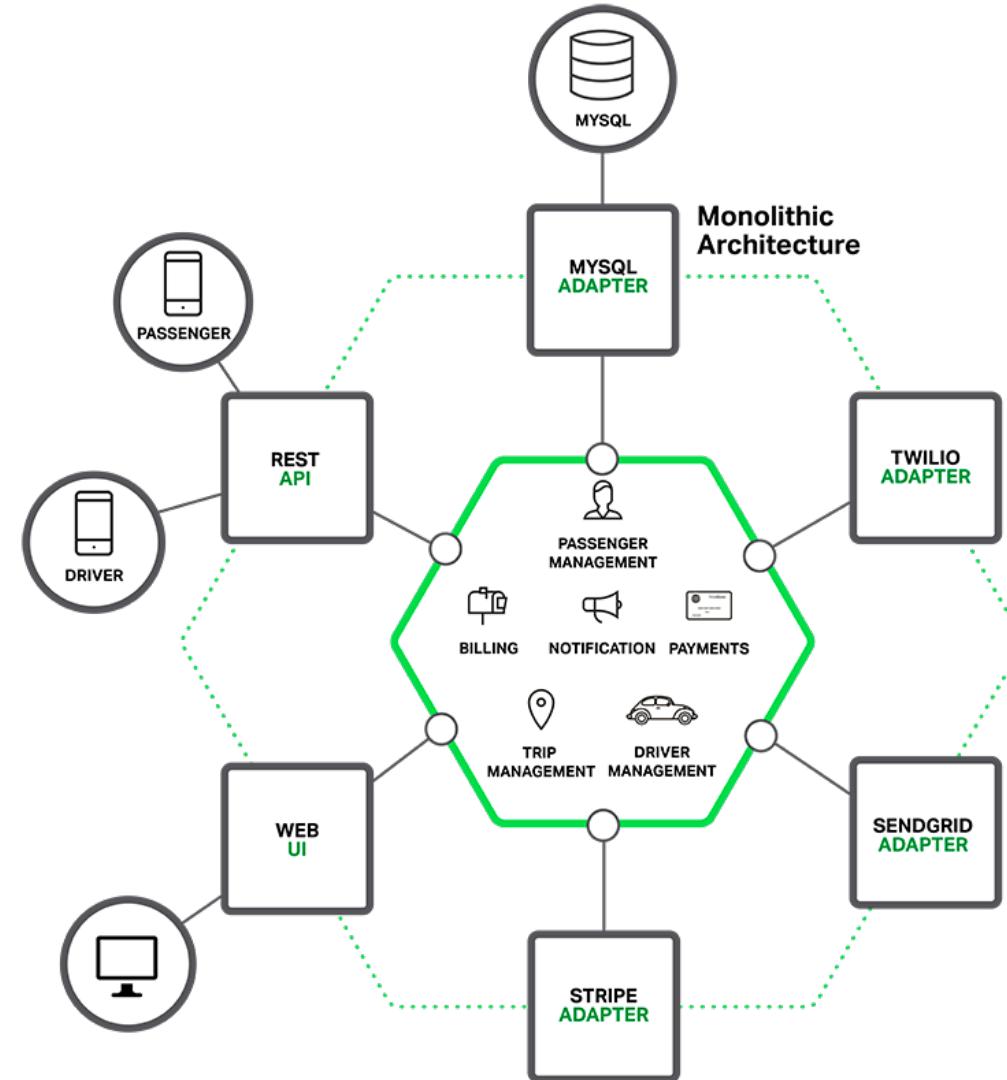
WA

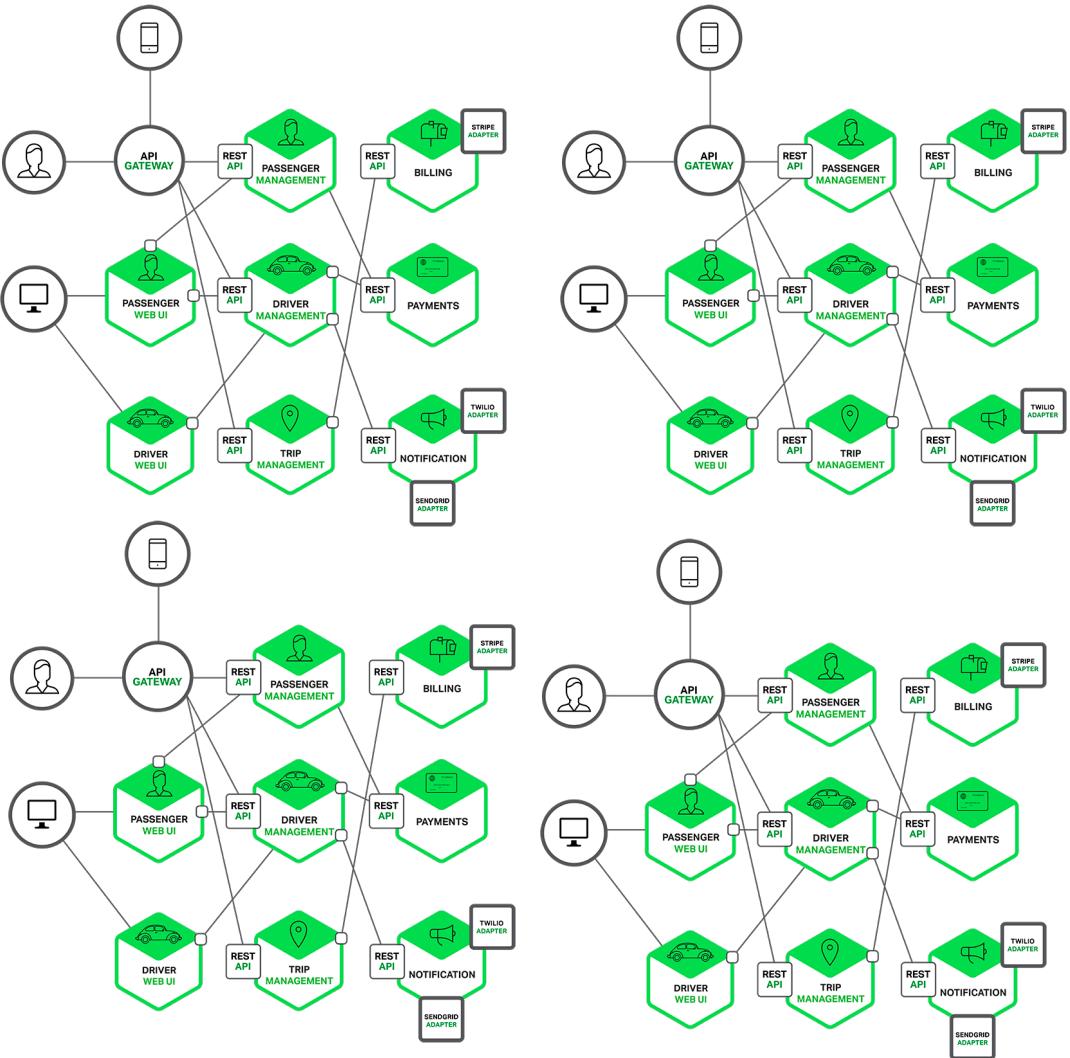
[Terug](#) [VERDER](#)

Berekening	Verberg details
Netto premie per maand	€ 6,13
Pakketkorting 0%	€ 0,00
Advieskorting 3%	€ -0,18
Provide 9%	€ 0,54
Assurantiebelasting	€ 1,36
Premie per maand	€ 7,85
Toon alle termijnbedragen	



- Multiple service end-points
- Newer technologies
- Shorter maintenance-cycles
- Modern operating systems
- Multi-layer (n-Tier)





Security got even more challenging

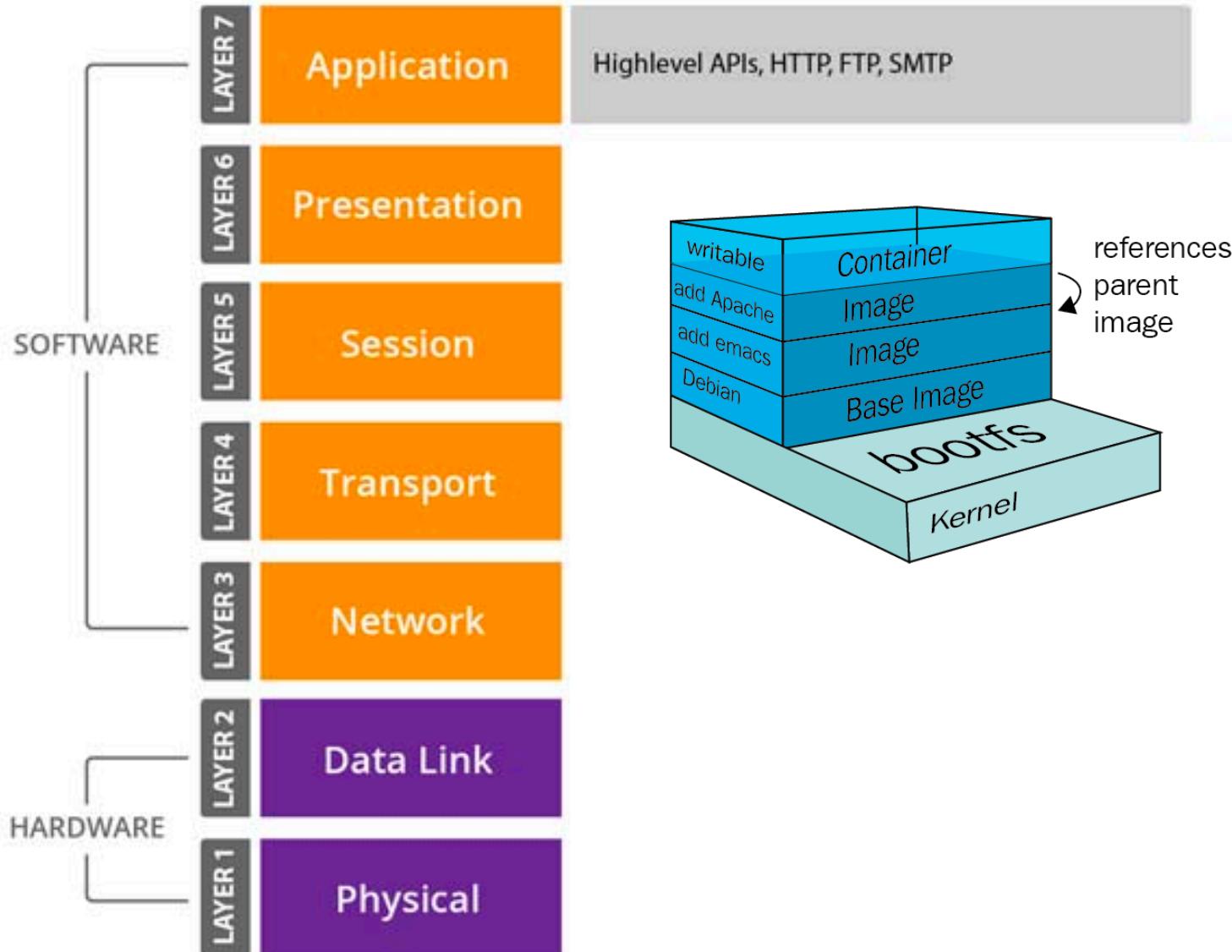
- Multi-layers of applications and (micro)services
- Distributed teams
- Distributed & larger service surfaces
- Various of technologies
- Much shorter life-cycles
- Various of different operating systems
- Open source
- ...

Challenge#1 Discovery

At this scale
human brain can't
comprehend the
size and
complexity.

> 350.000 NPM packages
> 100.000 Nuget packages
> ? Maven packages
> ... Linux distributions & Packages

Hundreds of running containers?
Even more running processes?
Connected services?
Users and roles?
Config maps?
Secrets?



Watch how AI helps gaining control



Ramon De Boer

Cloud Security Specialist
@PaloAlto Networks