

DOIS | 2018 · 深圳站  
DevOps 落地，从这里开始

# DevOps 国际峰会

暨 DevOps 金融峰会

指导单位： 云计算开源产业联盟  
Open Source Cloud Alliance for Industry (OSCAR)

主办单位： DevOps时代

 高效运维社区  
GreatOPS Community

时间：2018年11月2日-3日

地址：深圳市南山区圣淘沙大酒店（翡翠店）

# 诺基亚的转身 数字化时代的DevOps转型之路

周荣兵

# 目录

**1****关于诺基亚****2****数字化时代的挑战****3****系统化推进，形成合力****4****实践先行，持续改进**

We create the technology  
to connect the world

# Comprehensive portfolio and expertise

**Mobile  
Networks**

**Fixed  
Networks**

**IP / Optical  
Networks**

**Nokia  
Software**

**Global  
Services**

**Nokia  
Technologies**

**Nokia  
Bell Labs**

## Unrivalled track record of innovation

1300+

Patent applications  
(in 2017)

9

Nobel Prizes

3

Turing Prizes

2

Grammys

2

Emmys

1

Oscar

# 目录

1 关于诺基亚

➔ 2 数字化时代的挑战

3 系统化推进，形成合力

4 实践先行，持续改进

Rapid digital  
transformation  
changed business  
context

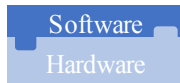
Technology  
innovations brings  
disruptive  
competitors

Time to market  
requires extremely  
fast versus Telco  
industry slow and  
old release mode

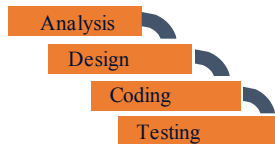


# Challenges

Purpose-built  
SW & HW



Waterfall



Traditional  
sales interface



Complex acceptance  
procedures



Monolithic



Manual  
production



Manual SW  
delivery



Manual  
upgrade



# 目录

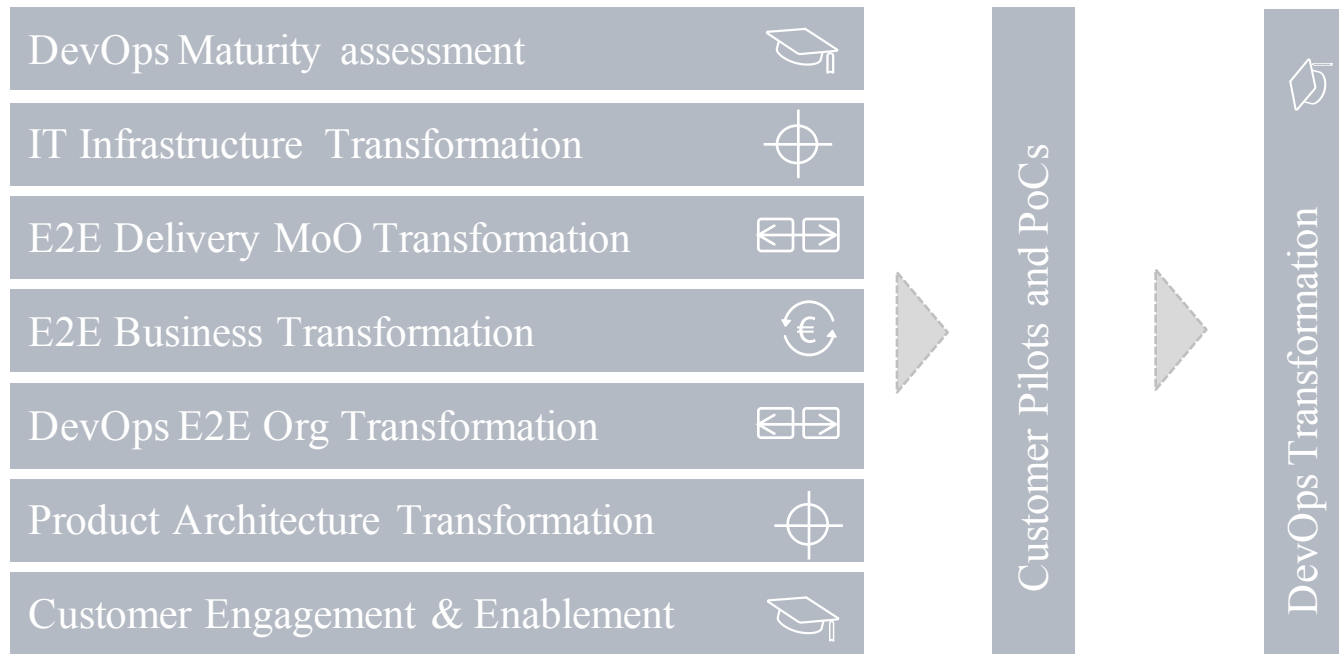
1 关于诺基亚

2 数字化时代的挑战

➔ 3 系统化推进，形成合力

4 实践先行，持续改进

# Systematically drive transformation



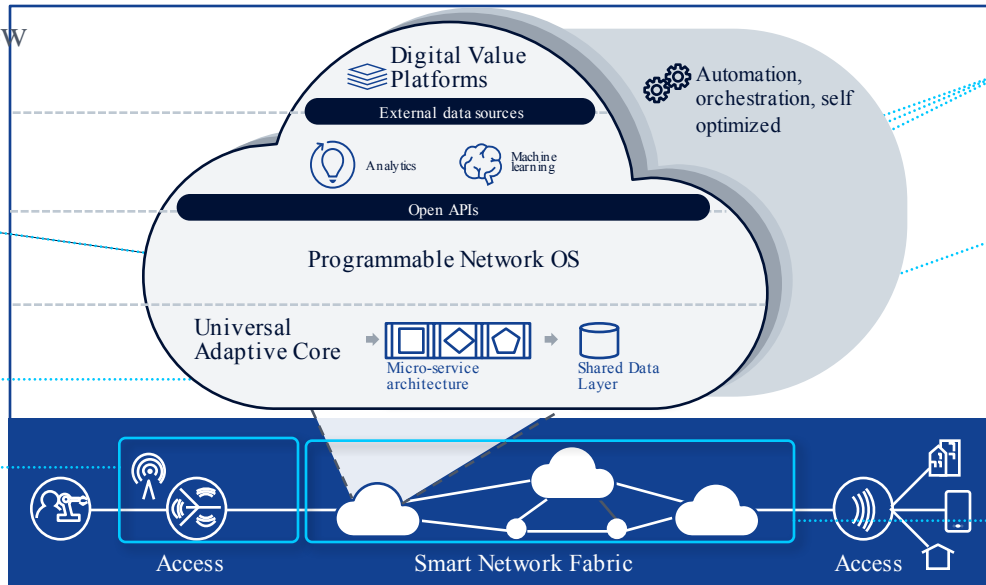
# Cloud native architecture

Key principles of the new architecture

Programmable open ecosystem

Micro-service architecture

Remote upgradability

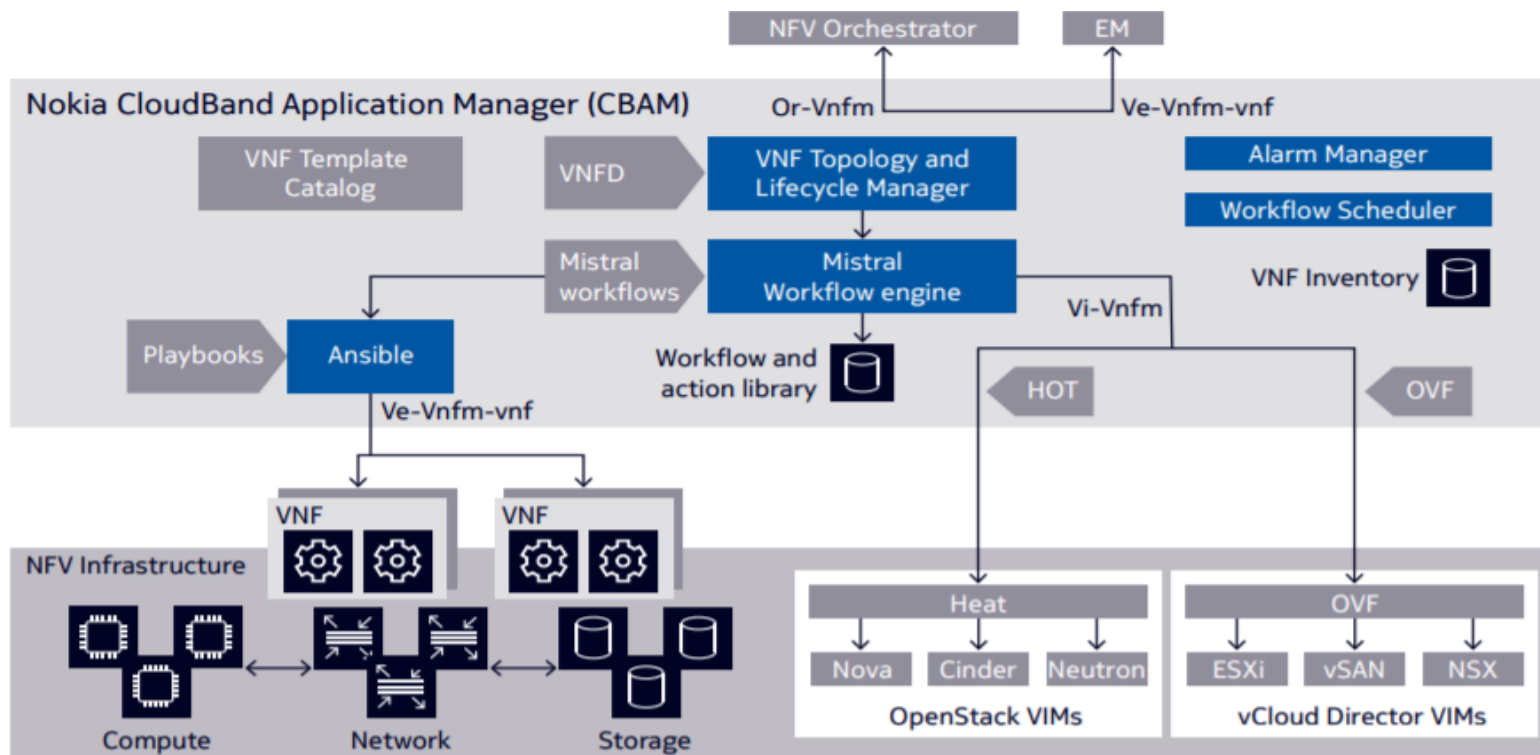


Network slicing

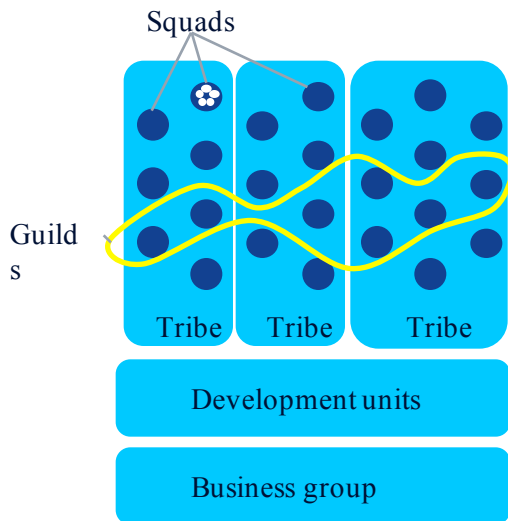
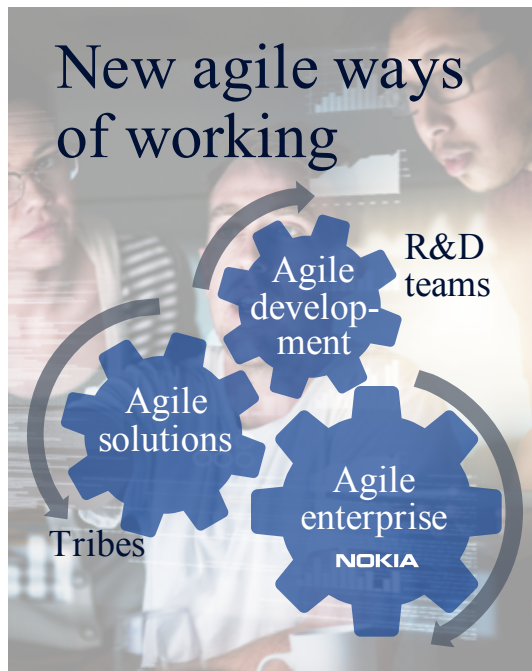
Stateless VNF machines with Shared Data Layer

Distributed cloud deployment

# Nokia VNFM - CBAM



# SAFe based R&D blueprint



Speed

Designed for flexibility

Reuse

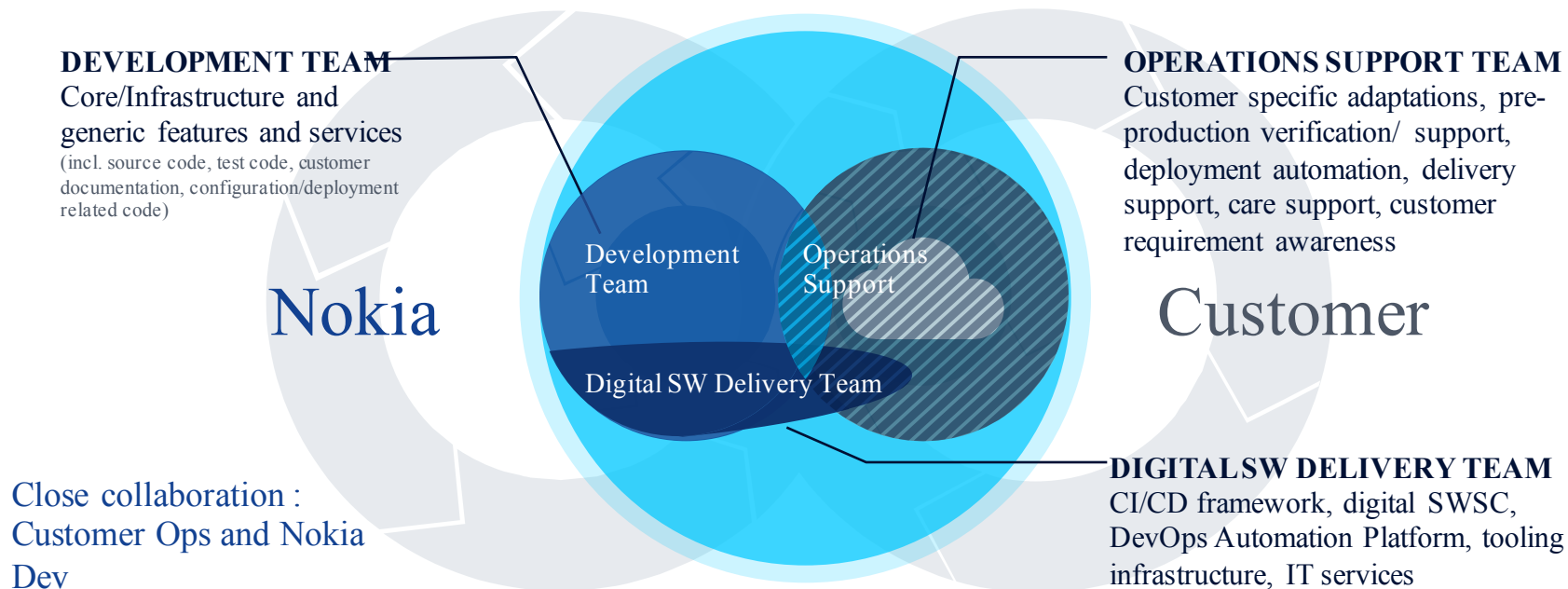
Scale

Alignment

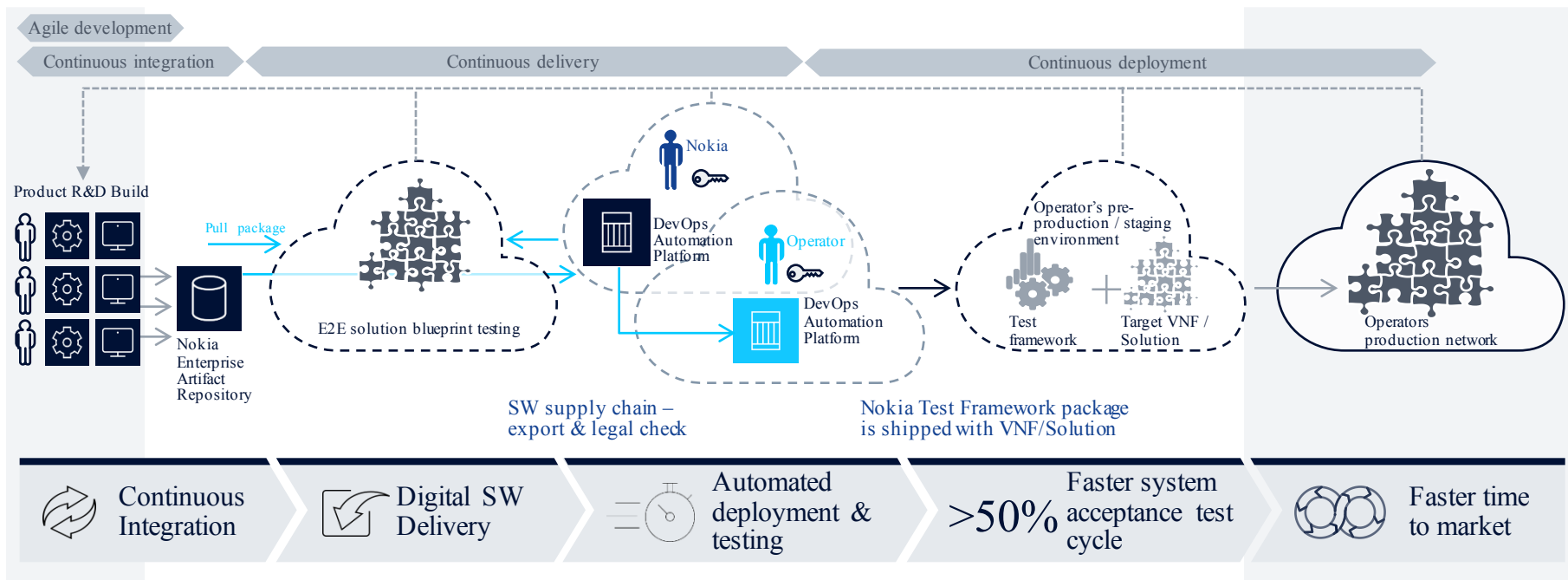
Lean R&D

Optimized cost

# New way of collaborative work

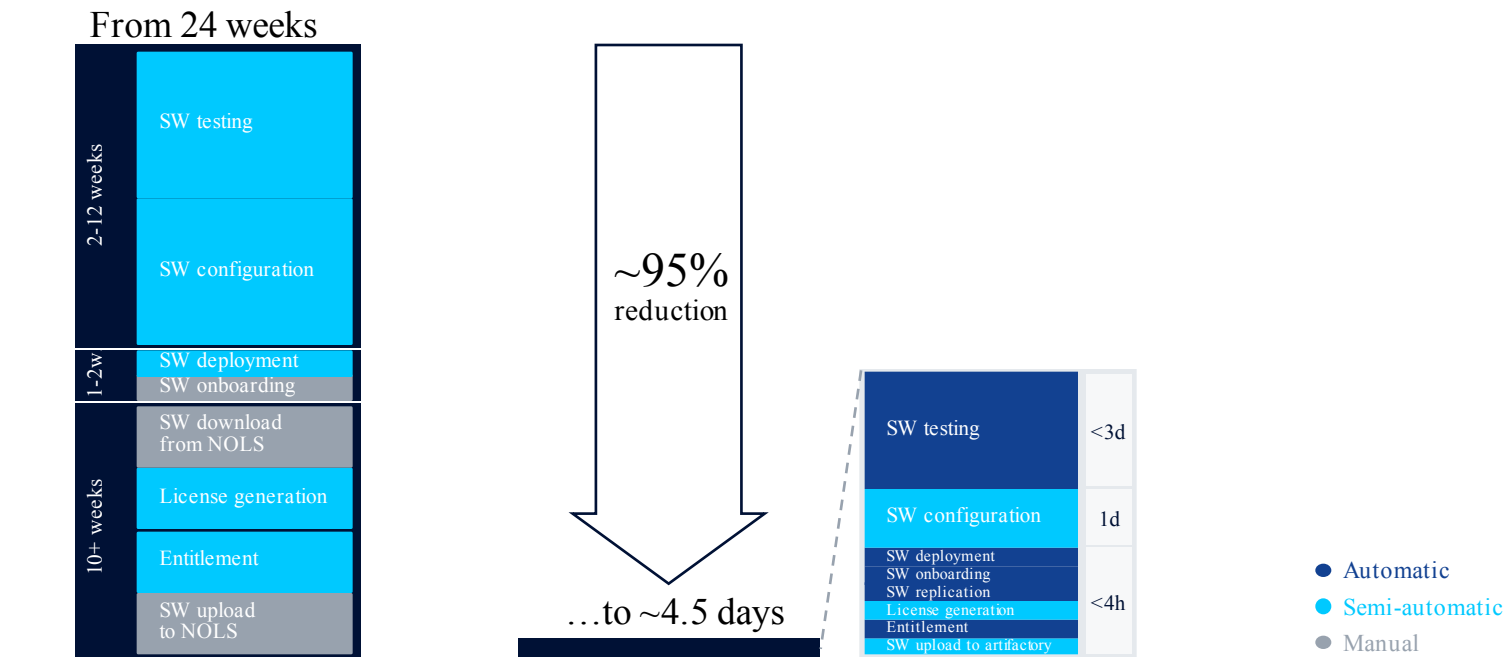


# Continuous delivery and deployment





# Delivery cycle time improved dramatically



# 目录

1 关于诺基亚

2 数字化时代的挑战

3 系统化推进，形成合力

➔ 4 实践先行，持续改进

# Impress results with customer pilots

Feature development

↑ 50%

From 6 months cycle to 12 weeks product increment

Process steps

↓ 70%

Time to market improvement

80%

Improved quality

Annual number of reported faults

↓ 20%

Time to address customer issues

↓ 40%

Less handover between teams

↓ 60%

Higher predictability of timelines.

Acceptance deadline kept

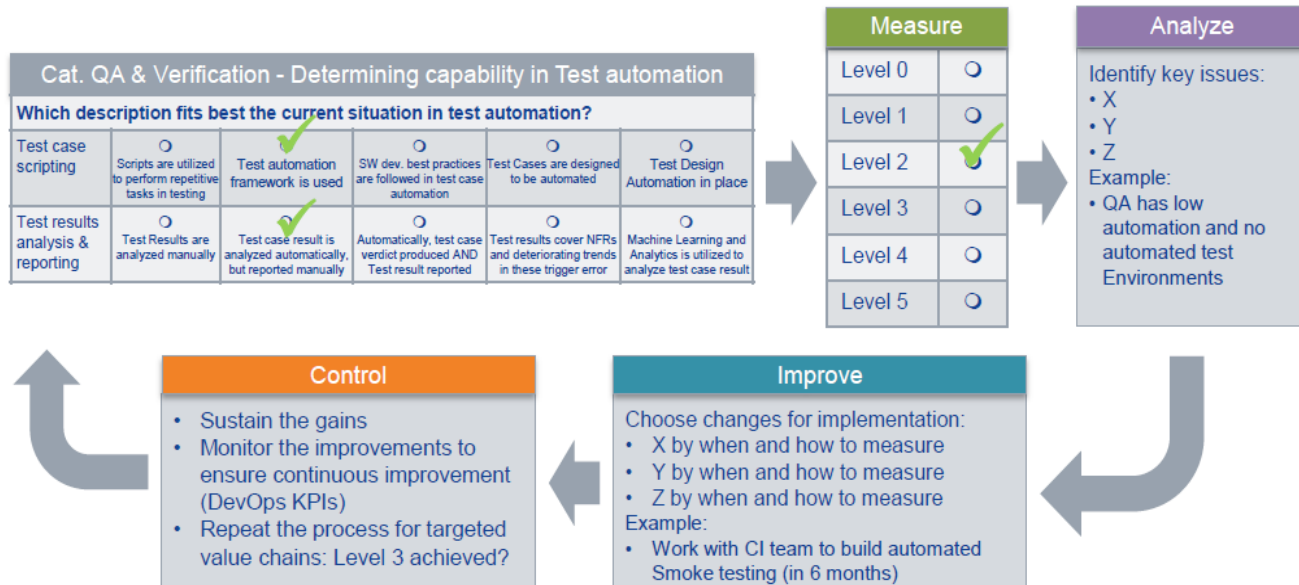
95%

Fewer tools

↓ 65%

Increased velocity, predictability and throughput in Mobile Networks

# Continuous improve with regular assessment





# Thanks

DevOps 时代社区 荣誉出品

想第一时间看到高效运维社区的  
最新动态吗？

