

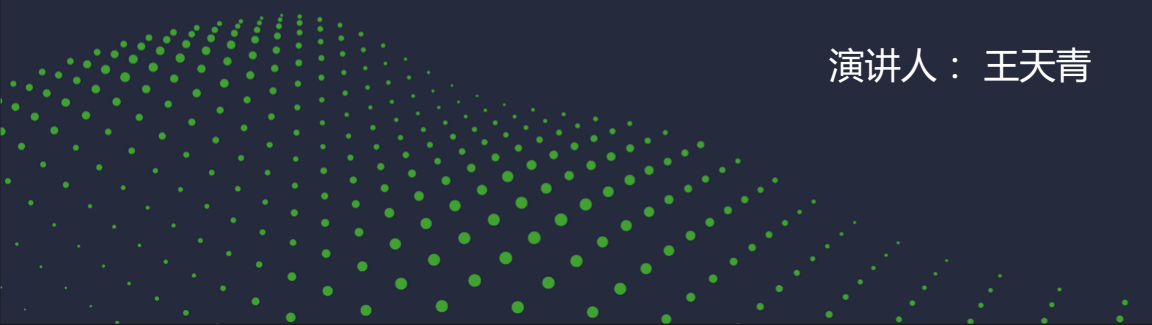
用互联网化

# DevOps文化和平台

加速企业应用交付速度

使用互联网技术原力转型企业应用

演讲人：王天青





DaoCloud

IT大咖说  
知识分享平台

# 业务驱动技术



## | 互联网时代的挑战

我要支持**100万**客户！！！！

这个功能，我要**明天**上线！！！！

# 又快又好

双十一怎么又**500**了？

公司**IT投入**怎么比业务发展快？？？

## | 独角兽的成功秘诀

- **Speed of innovation** ( 天下武功，唯快不破 )
- **Always-available services** ( 随时、随地可用 )
- **Web scale** ( 从0到1，快速扩展 )
- **Mobile-centric user experiences** ( 移动为王 )





# 为什么要 DevOps



# Dev

## 项目实施

# Ops

迭代 敏捷

用户故事

开发

开发

开发

...

提交上线

问题定位, 修复, 提交。。。  
定位, 修复, 定位, 修复。。。

资源规划

存储 / 网络

高可用

CMDB

标准监控

...

生产部署, 失败, 再。。。 部署成功  
压测, 失败, 推回开发。。。 “成功”。。。  
500错误, 拒绝服务, 系统崩溃, 重启。。。

“在我这可以跑。。。 ”



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“服务器监控正常，是  
你代码的问题。。。 ”



嗯，我似乎找到原因了。。。

# Dev

持续交付

变化

变化

变化

。 。 。

需求驱动

动态更新  
的环境

频繁部署



持续保持

稳定

稳定

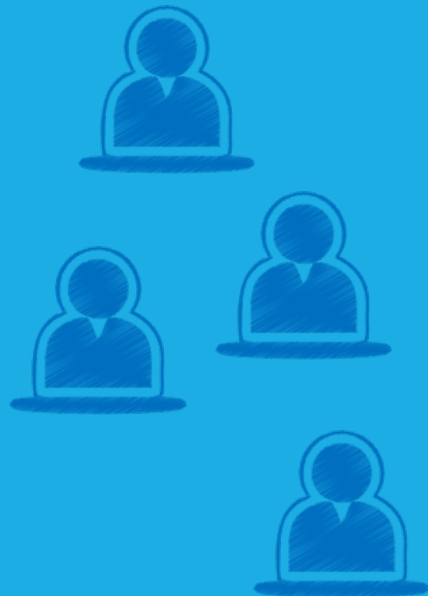
稳定

。 。 。

流程驱动

控制变化  
的环境

不频繁的部署



# Ops





我们都是为了实现企业价值。。。

**Google, Amazon, Netflix, Twitter,  
Facebook, IBM, SAP, HP,  
Microsoft, Red Hat, GE, World  
Bank, UK Government ...**



# Flickr 通过 Dev 和 Ops 的合作可以实现每天 10 次上线

Flickr 2009

**11.6 秒**  
**平均部署间隔时间**

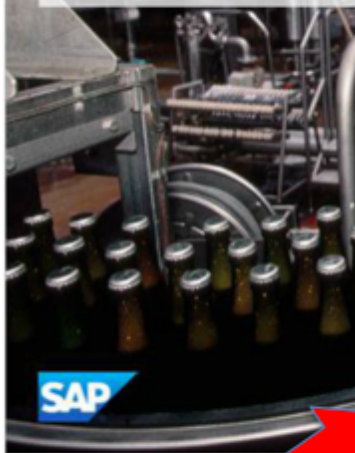
**1079次**  
**单小时最大部署次数**

Amazon 2015年生产环境部署报告

# Continuous Delivery: From dinosaur to spaceship in 2 years

Darren Hague / SAP Global IT  
February 5, 2013

Public



## Recap: Impact of Continuous Delivery in SAP Global IT

- **Before:** Production releases ~monthly
- **Now:** Production release ~twice a week
- **Before:** Pre-release QA cycle 1-2 weeks
- **Now:** QA cycle < 1 day
- **Before:** Error in Prod? Shitstorm & late night
- **Now:** Switch to Blue in <1 minute, fix next day
- **Before:** Project idea to go-live in 6-12 months
- **Now:** New project can be in Production in 1 week
- **Before:** Business stakeholders frustrated
- **Now:** Business stakeholders happy

**Technology supports all this, but the team still has to deliver working code.**



# 什么是 DevOps





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什么是 DevOps ?

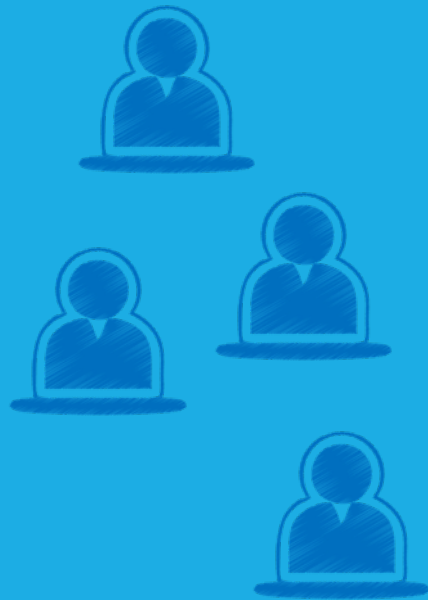
# Dev



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# Ops

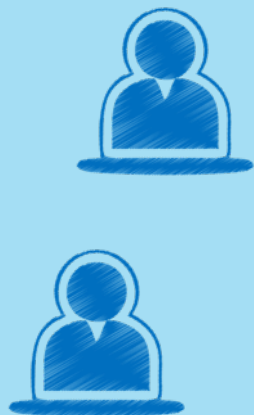




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# Dev



# Ops







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# Dev

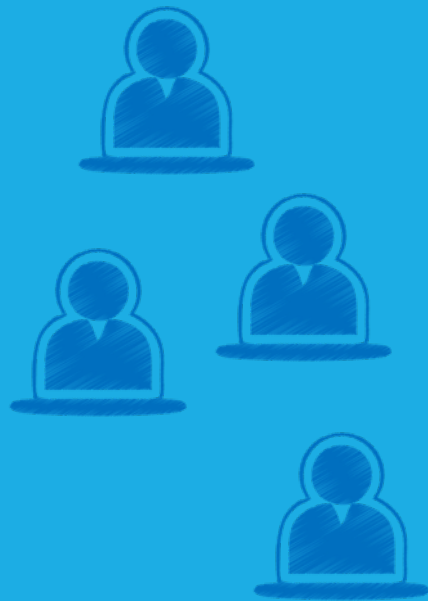
# Ops

DevOps 就是

~~把所有系统整合起来~~

~~自动化资源~~

开放权限





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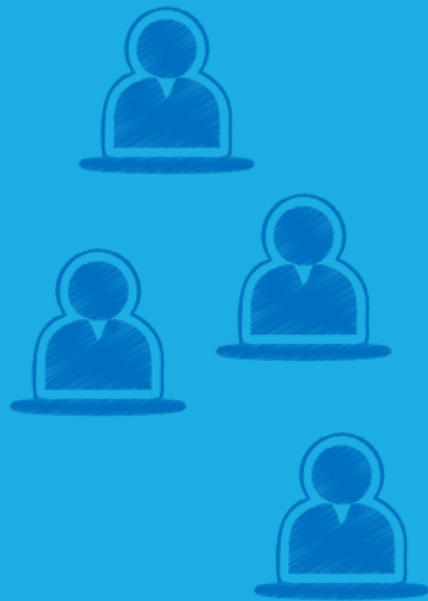
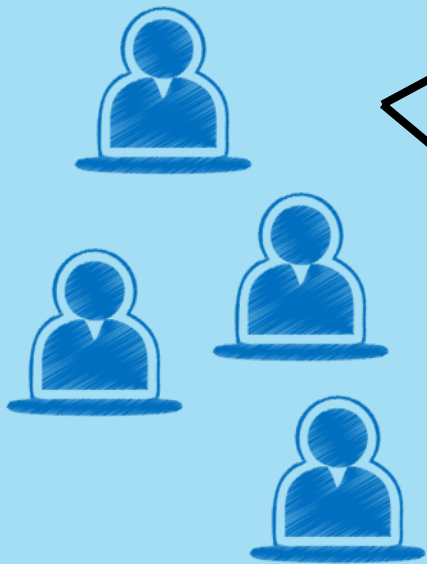
# Dev

# Ops

DevOps 就是

~~部署脚本化~~

~~自动化部署~~





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# Dev Ops

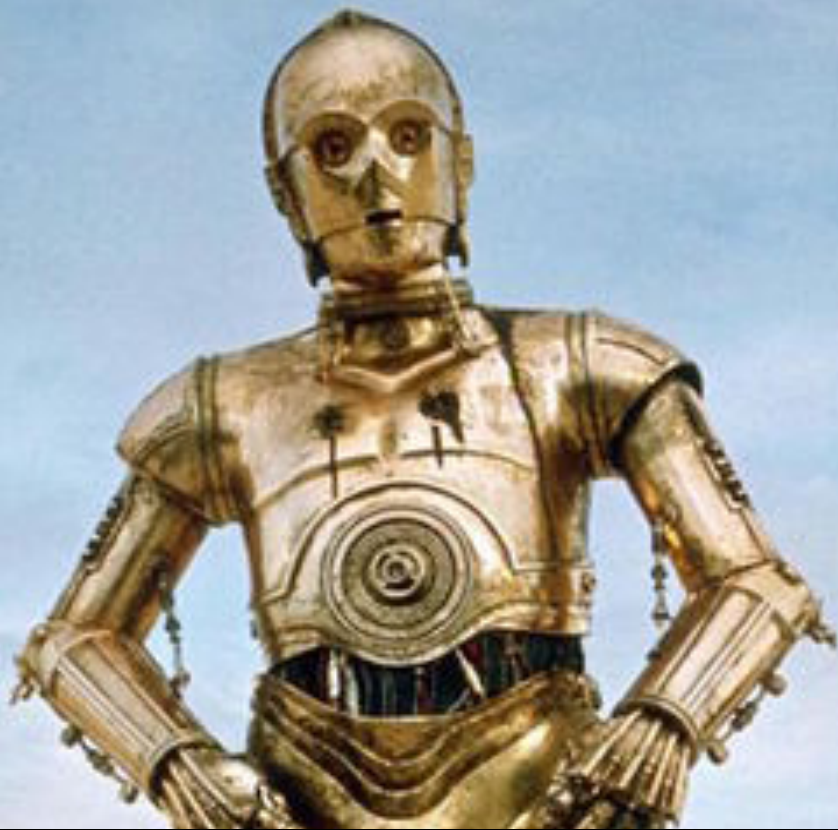
DevOps 是一种文化和方法，旨在改善  
开发团队和运维团队的协作和沟通

| DevOps 是关于文化。。。



资源自动化  
配置管理  
部署自动化  
日志管理  
性能管理  
监控告警

。 。 。



DevOps 是关于方法。 。 。

# Dev

## 项目实施

# Ops

敏捷规划

让 Ops 参与架构设计

开发

让 Ops 了解开发进度

模拟类似的部署环境

...

提交上线

问题定位, 修复, 提交。。。

Ops 通过监控发现几个小问题, 修复

让 Dev 参与资源规划

让 Dev 了解部署环境

CMDB

让 Dev 参与监控设计

...

生产部署, 部署成功

压测, 失败, 监控定位。。。成功

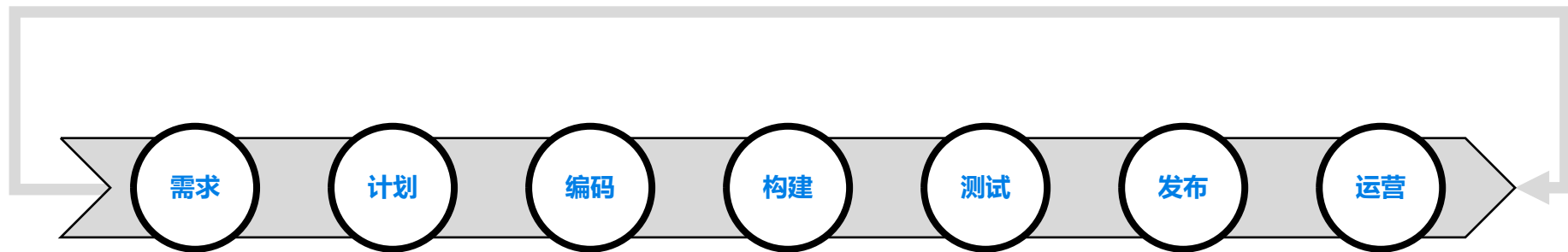
上线服务稳定, 非繁忙时上线更新



# 如何实施 DevOps



## | 关注点 - 流水线

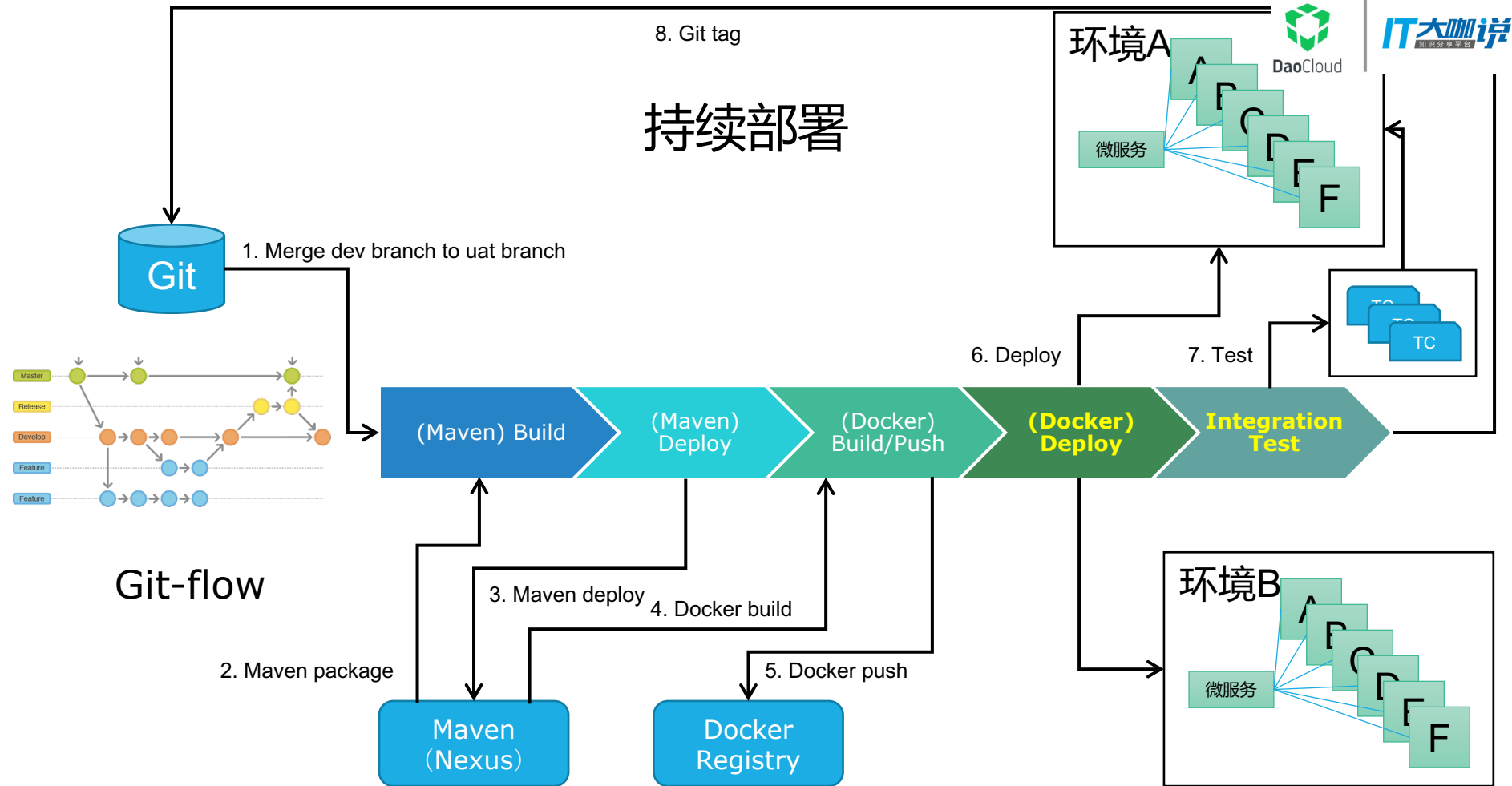


DevOps是一套实践方法，在保证高质量的前提下缩短系统变更从提交到部署至生产环境的时间



8. Git tag

## 持续部署

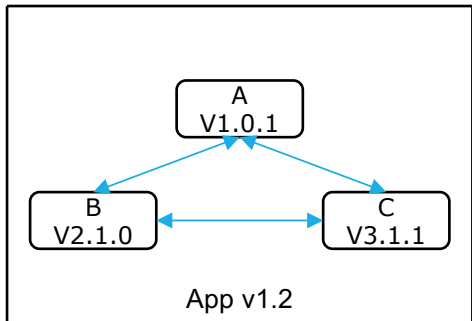


## 关注点一生态

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| PERIODIC TABLE OF DEVOPS TOOLS (V2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| <div><div><div>Os</div>Open Source</div><div><div>Fr</div>Free</div><div><div>Fm</div>Freemium</div><div><div>Pd</div>Paid</div><div><div>En</div>Enterprise</div></div> <div><div>SCM</div><div>CI</div><div>Deployment</div><div>Cloud / IaaS / PaaS</div><div>BI / Monitoring</div></div> <div><div>Database Mgmt</div><div>Repo Mgmt</div><div>Config / Provisioning</div><div>Release Mgmt</div><div>Logging</div></div> <div><div>Build</div><div>Testing</div><div>Containerization</div><div>Collaboration</div><div>Security</div></div> |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |

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|------------|----|-------------------|----|---------------------|----|-----------|----|--------------|----|-------------------|----|----------------|----|-----------------|----|-----------|----|------------|----|------------|----|-----------|----|-----------|----|-----------------|----|------------|----|
| 91         | En | 92                | En | 93                  | En | 94        | En | 95           | En | 96                | En | 97             | En | 98              | Pd | 99        | Fm | 100        | Pd | 101        | Fm | 102       | Fm | 103       | Fm | 104             | Pd | 105        | En |
| <b>Xl</b>  |    | <b>Ur</b>         |    | <b>Bm</b>           |    | <b>Hp</b> |    | <b>Au</b>    |    | <b>Pl</b>         |    | <b>Sr</b>      |    | <b>Tfs</b>      |    | <b>Tr</b> |    | <b>Jr</b>  |    | <b>Rf</b>  |    | <b>Sl</b> |    | <b>Fd</b> |    | <b>Pv</b>       |    | <b>Sn</b>  |    |
| XL Release |    | UrbanCode Release |    | BMC Release Process |    | HP Codar  |    | Au Automatic |    | PL Fluora Release |    | Serena Release |    | Team Foundation |    | Trelio    |    | Jira       |    | HipChat    |    | Slack     |    | Flooddock |    | Pivotal Tracker |    | ServiceNow |    |
| 106        | En | 107               | Fm | 108                 | En | 109       | Os | 110          | Os | 111               | En | 112            | Os | 113             | Fm | 114       | En | 115        | Fm | 116        | Fm | 117       | Os | 118       | Os | 119             | Os | 120        | En |
| <b>Ki</b>  |    | <b>Nr</b>         |    | <b>Dt</b>           |    | <b>Ni</b> |    | <b>Zb</b>    |    | <b>Dd</b>         |    | <b>El</b>      |    | <b>Ad</b>       |    | <b>Sp</b> |    | <b>Le</b>  |    | <b>Sl</b>  |    | <b>Ls</b> |    | <b>Sn</b> |    | <b>Tr</b>       |    | <b>Ff</b>  |    |
| Kibana     |    | New Relic         |    | Dynatrace           |    | Nagios    |    | Zabbix       |    | Datadog           |    | Elasticsearch  |    | AppDynamics     |    | Spinnaker |    | Logentries |    | Sumo Logic |    | Logstash  |    | Snort     |    | Tripwire        |    | Fortify    |    |



sonarqube

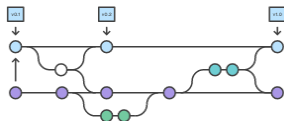


Nexus

MockServer



流水线





DaoCloud

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知识分享平台Add Feature/Epic/  
Iteration level testing

+

## STEP 1: INTRODUCE AGILE TESTING

## IMPLEMENT FEATURE BY STORIES

SPECIFY

Ongoing

Done

DEVELOP

Ongoing

Done

STORY-LEVEL  
TEST & FIX

Ongoing

Done

Ready For  
Feature  
Test

TEST FEATURE LEVEL

Ongoing

Done

END RELEASE TESTING

Ongoing

Done

Deployment

Done

K ≡ G

L  
M  
HH.5  
H.7H.6 ≡ D3  
T1

Agile Team 1

D2

H.4

Agile Team 2

H.7

T2

T2

H.2 ≡ D1  
H.0

H.1

≡ J

≡ E

≡ F

≡ D

≡ A  
≡ B  
≡ C

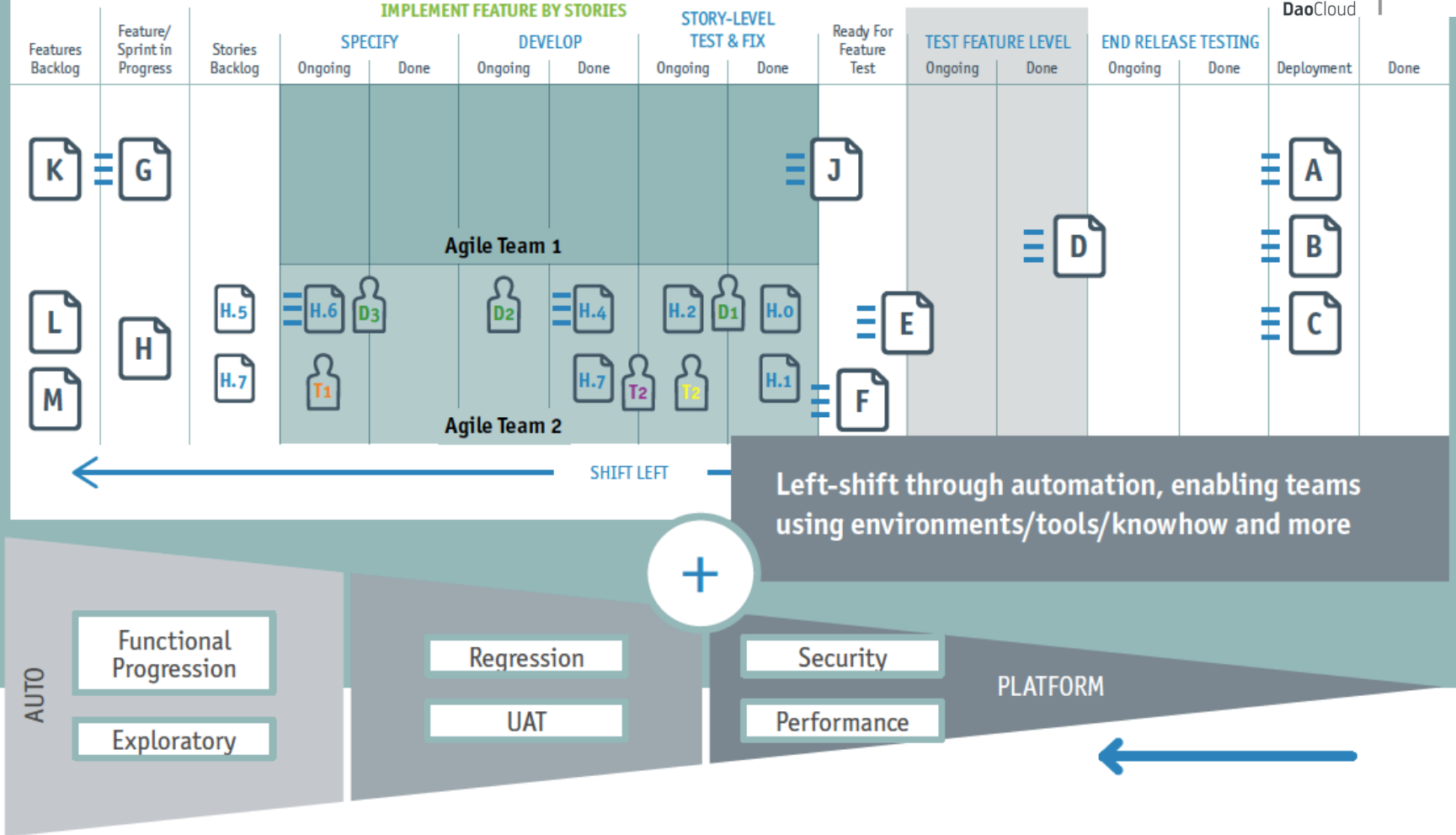
SHIFT LEFT

## STEP 2: PRIORITIZE TYPES OF TESTING AND FAST FEEDBACK



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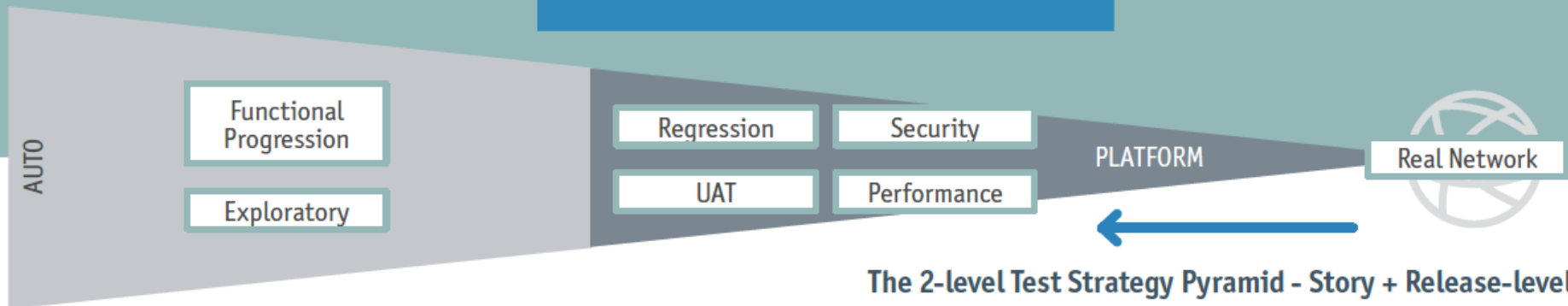
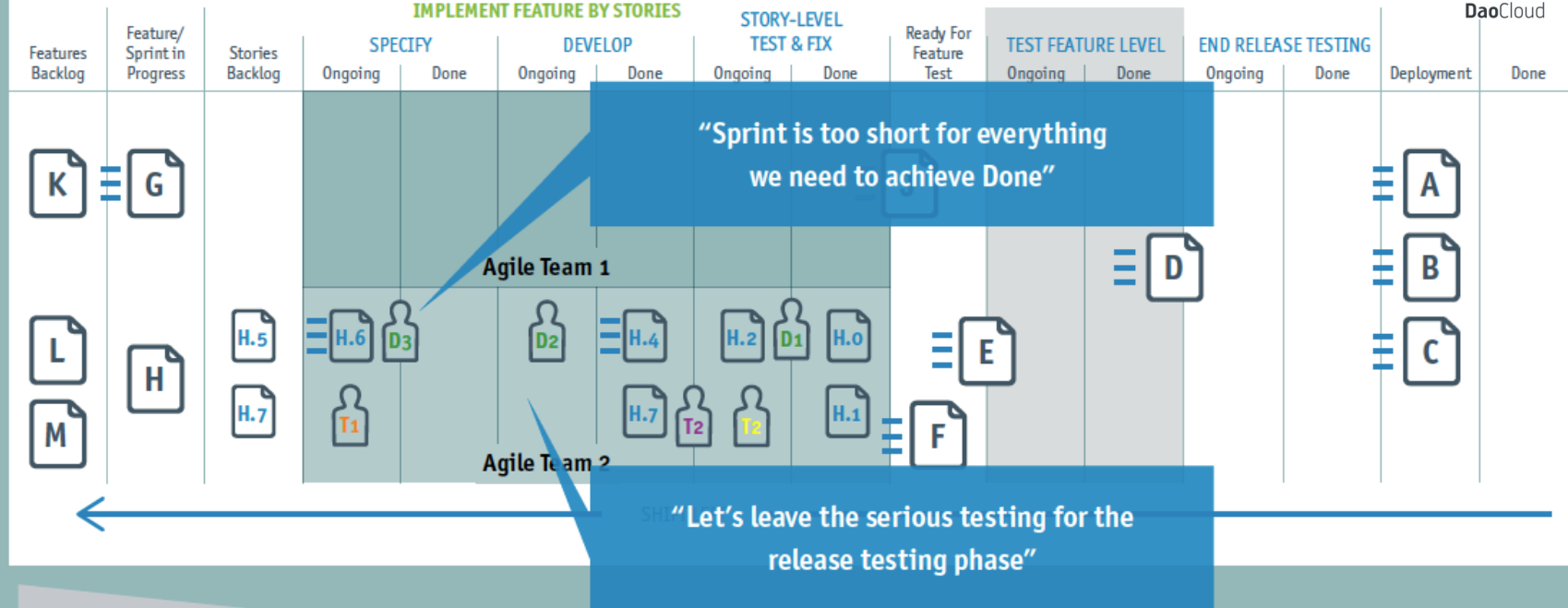


### STEP 3: DETERMINE TIMELY & OPTIMAL TEST COVERAGE



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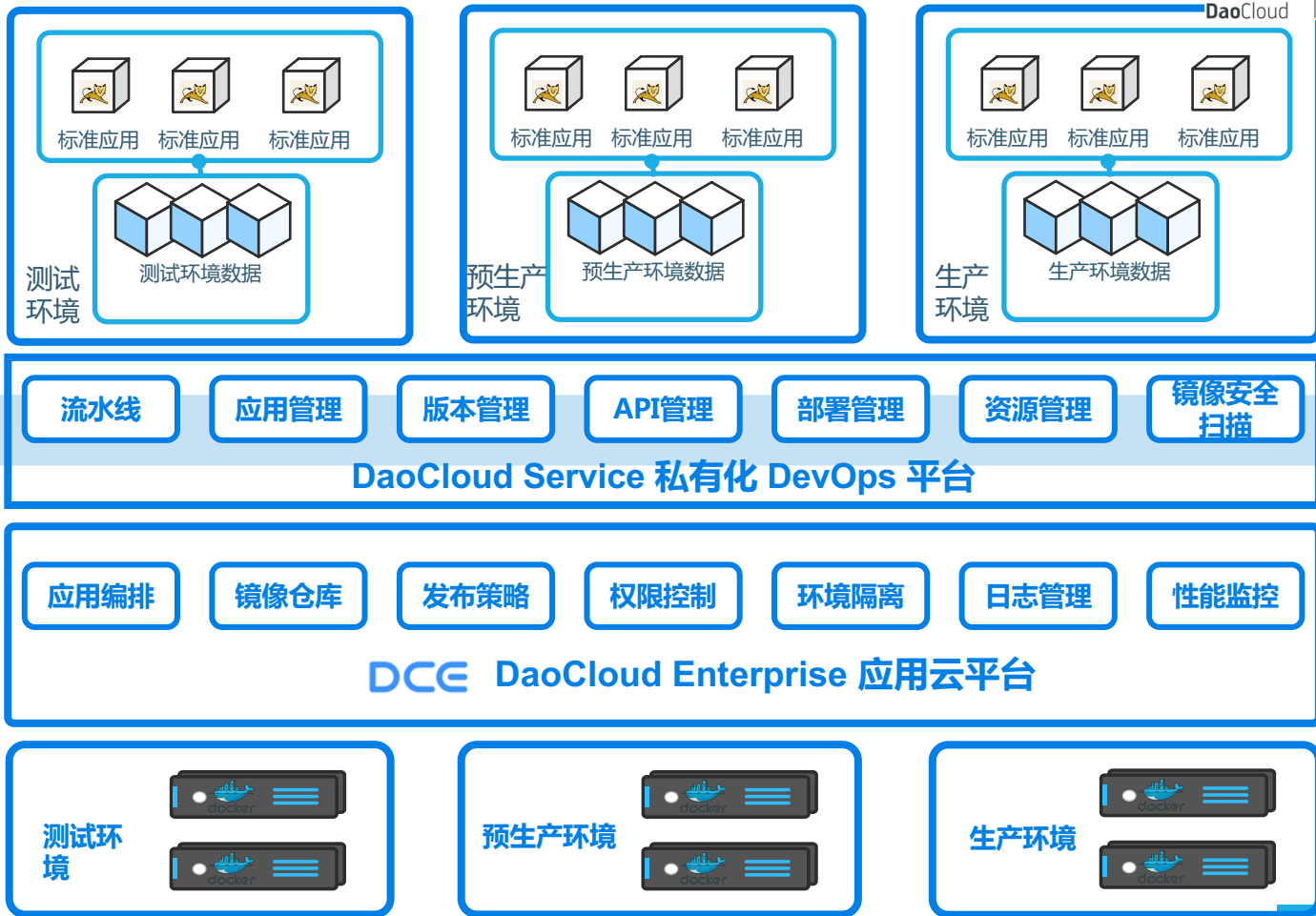


# DevOps Platform Powered By DaoCloud





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# Thanks

