



嵌入式系统联谊会
www.esbf.org

ARM Mbed 收敛与聚合

——*IOT*端侧软件平台

Bing Yin

Director IoT Business, China

arm

一千亿片
自1991年

1000多家
合作伙伴





>95%
market
share

智能手机



>85%
market
share

平板电脑



>90%
market
share

穿戴设备



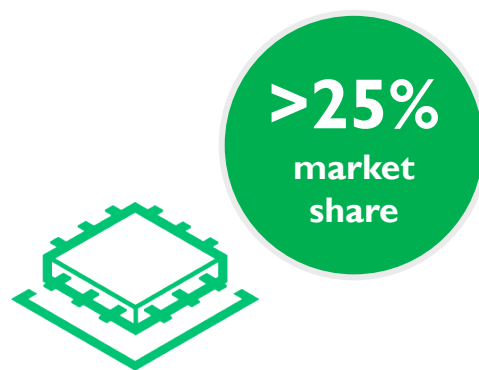
>90%
market
share

存储设备



>95%
market
share

汽车娱乐



>25%
market
share

微控制器



>60%
market
share

无线连接



>55%
market
share

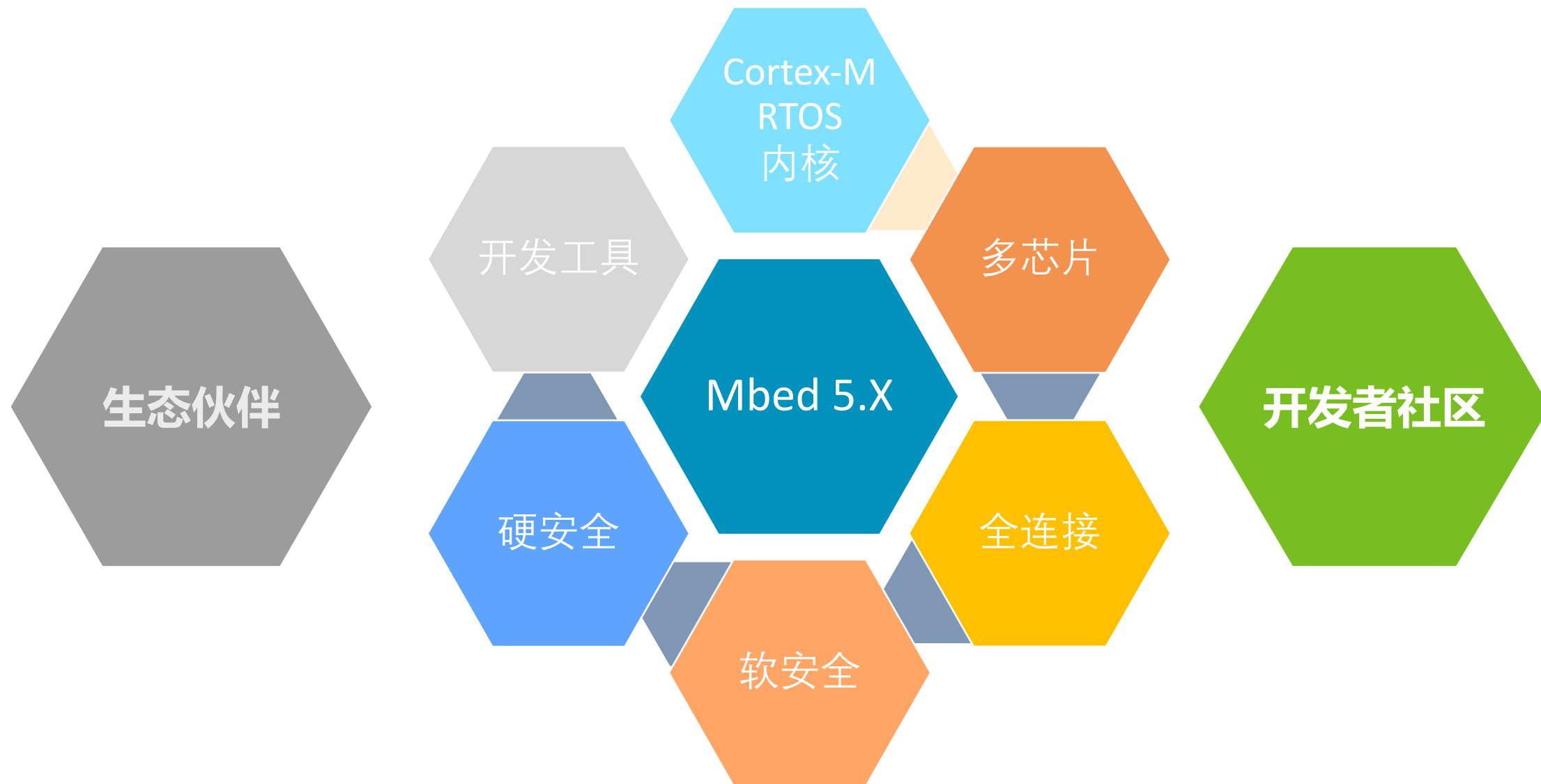
消费电子

= SoftBank

+

ARM

MBED





端上的平台 - 芯片平台及其开发体验的收敛

多芯片平台原生支持Mbed



全连接



Bluetooth (BLE)



WiFi



6LoWPAN
Sub-GHz Mesh



NFC



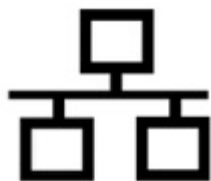
Thread



LoRa LPWAN



RFID



Ethernet



Cellular

安全性



mbed Client
Lifecycle Security



mbed TLS
Communication Security



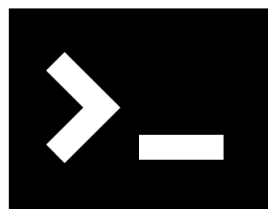
mbed uVisor
Device Security

Mbed 开发者平台

集成开发环境



核心开发工具



Mbed CLI
Command Line
Interface



Mbed Greentea
Porting Testsuite and CI

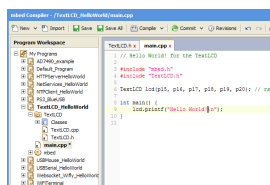


Mbed pyOCD
CMSIS-DAP Debug Library



Mbed DAPLink
CMSIS-DAP Debug Firmware

Mbed Compiler
Free Online IDE



分布式版本控制



git



mercurial

GitHub



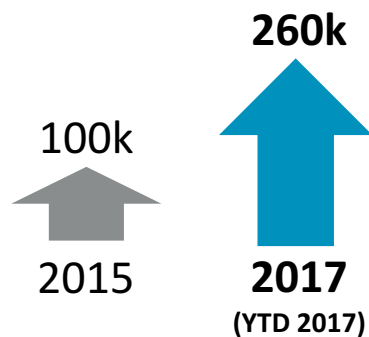
Atlassian Bitbucket



GitLab

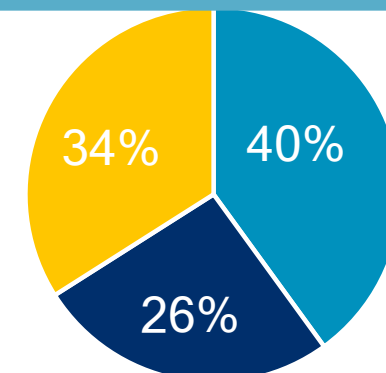
mbed.org/code

16万 新增注册开发者

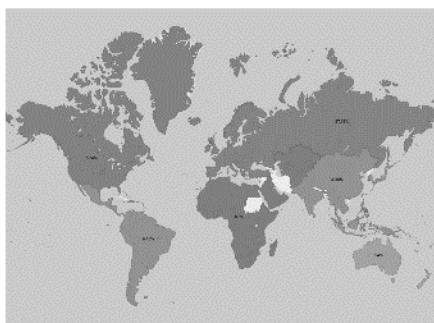


1/3 的开发者是专业人士

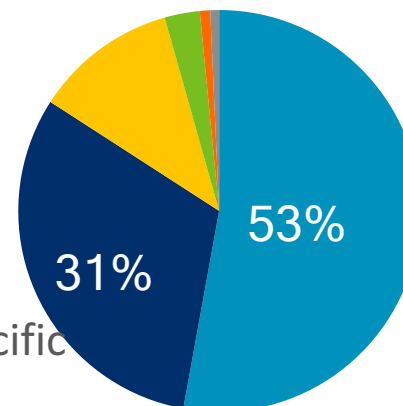
- Professional Developer
- Enthusiast / Innovator
- Educator / Student



全球分布

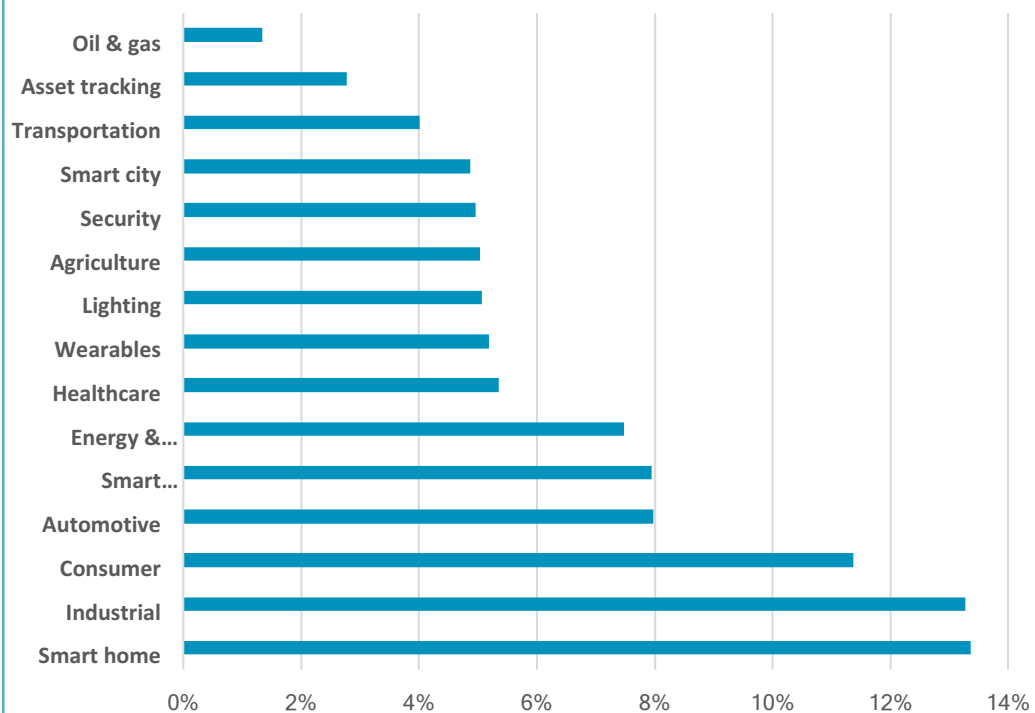


- Europe
- Asia & Pacific

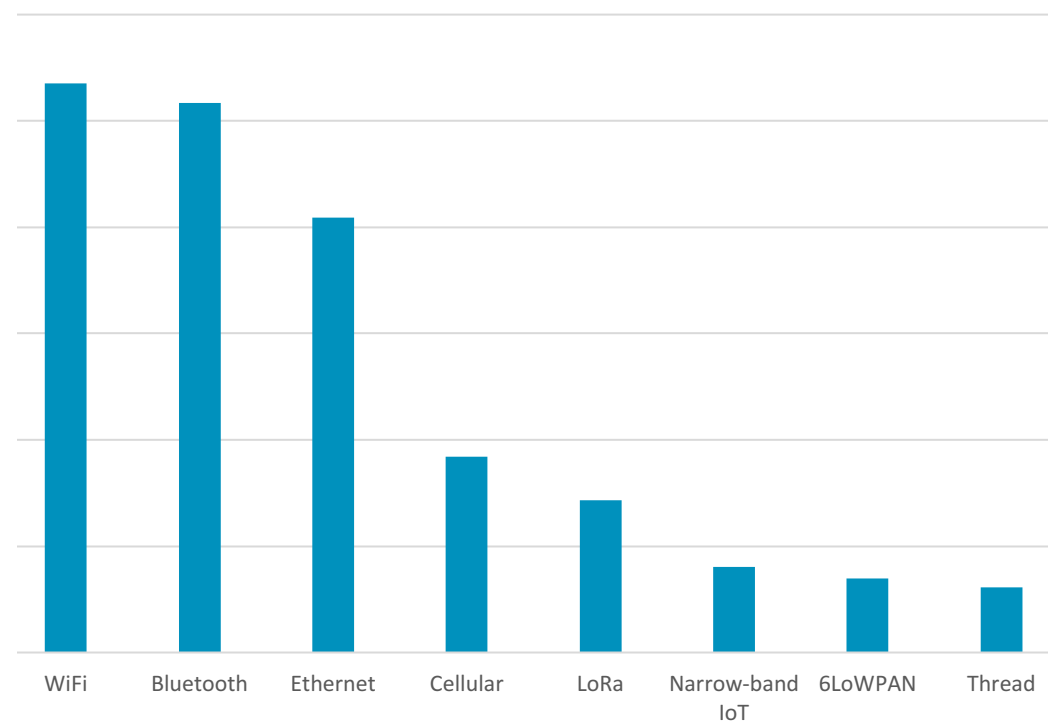


Source: mbed.com, Mbed developer survey 2017

Mbed产品开发的行业分布

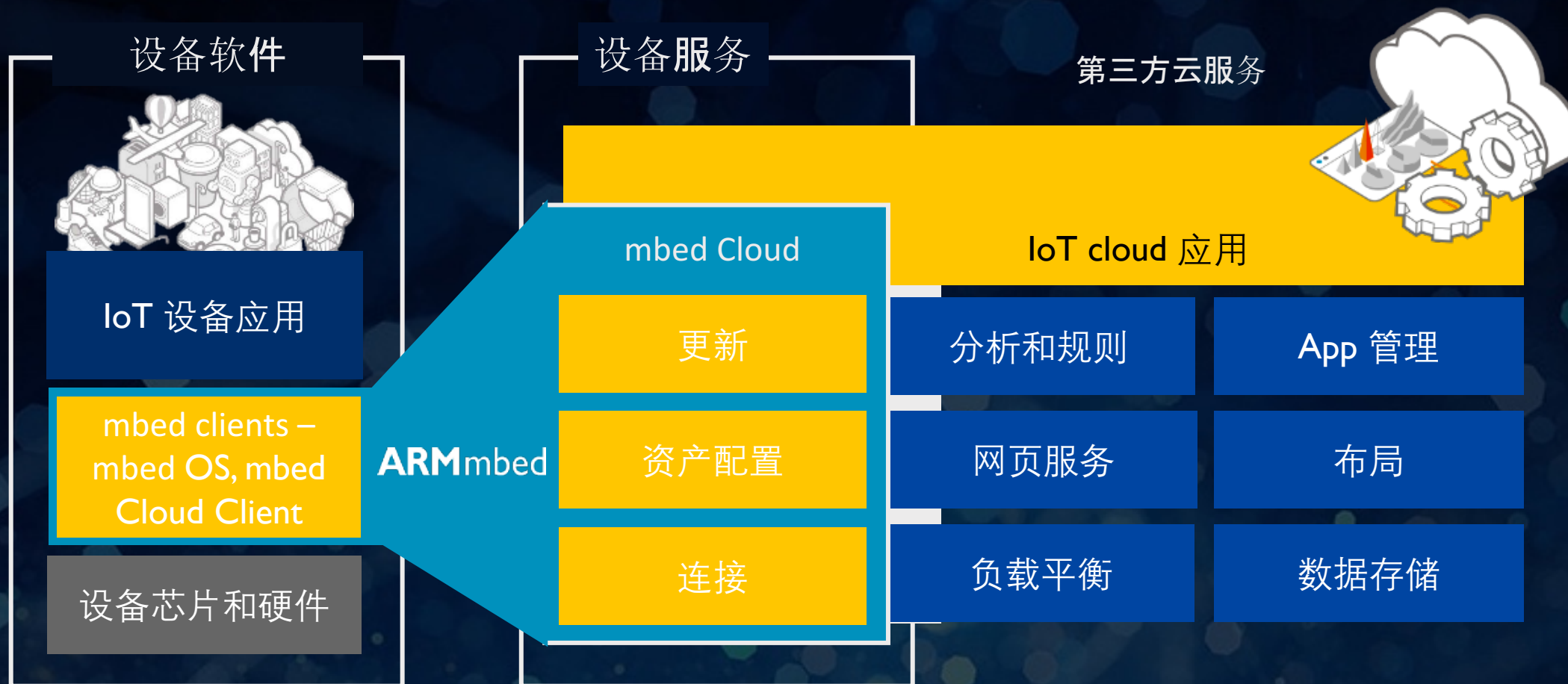


Mbed产品的连接方式选择



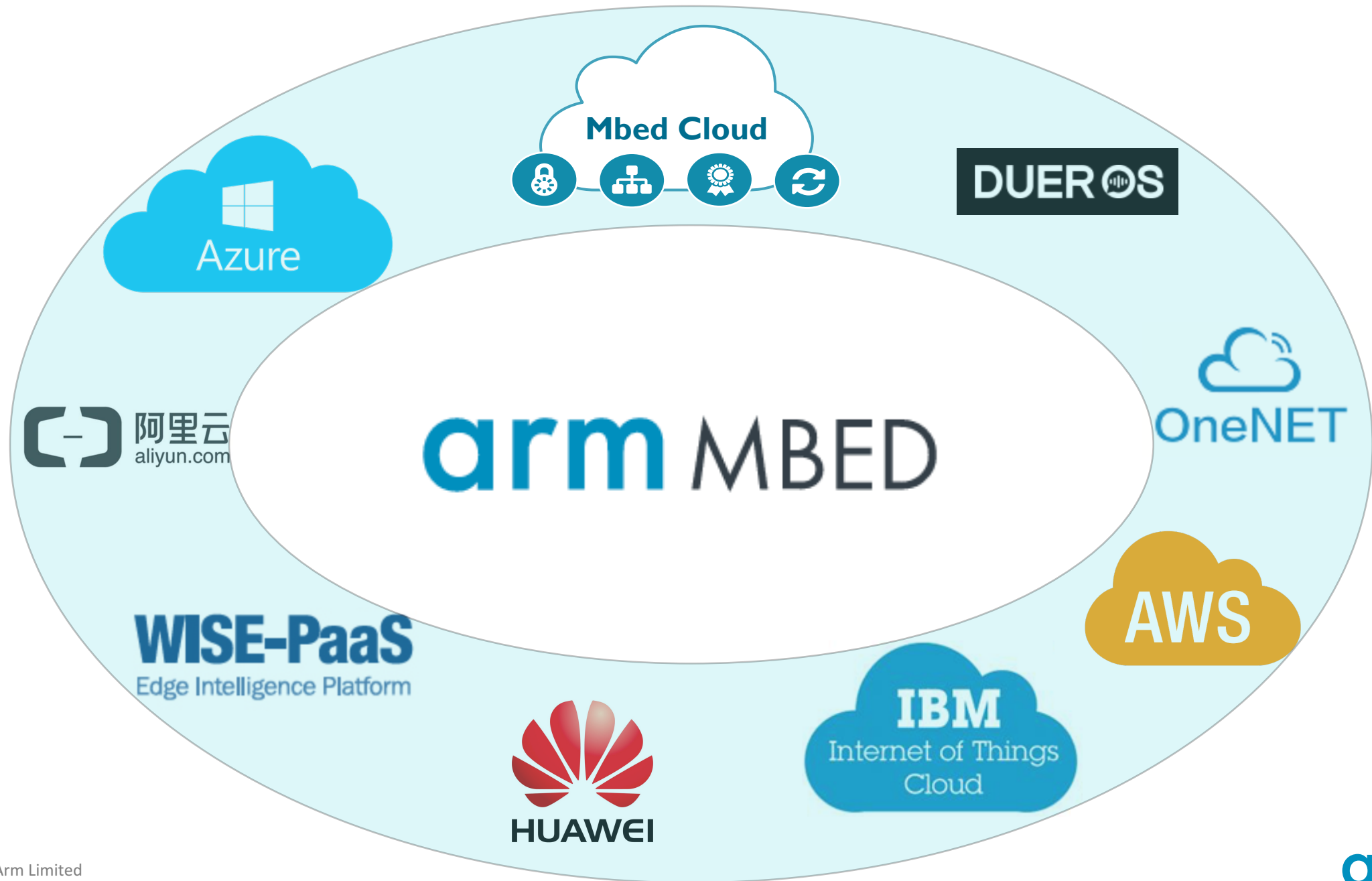
Source: mbed.com, Mbed developer survey 2017

端到云的连接





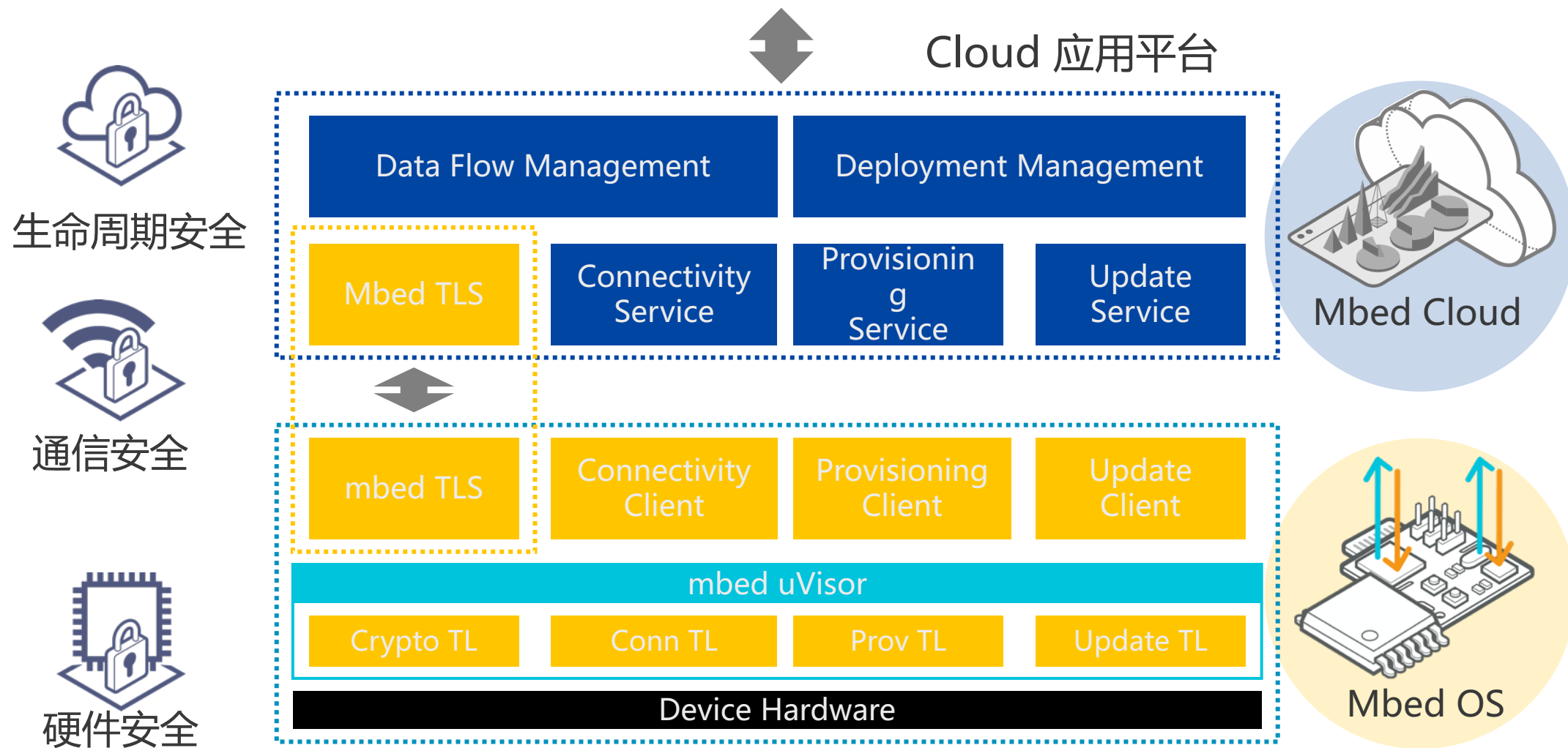
云上的应用 - 聚合Cloud及IoT应用



arm MBED

安全 - Security

Mbed 设备安全架构

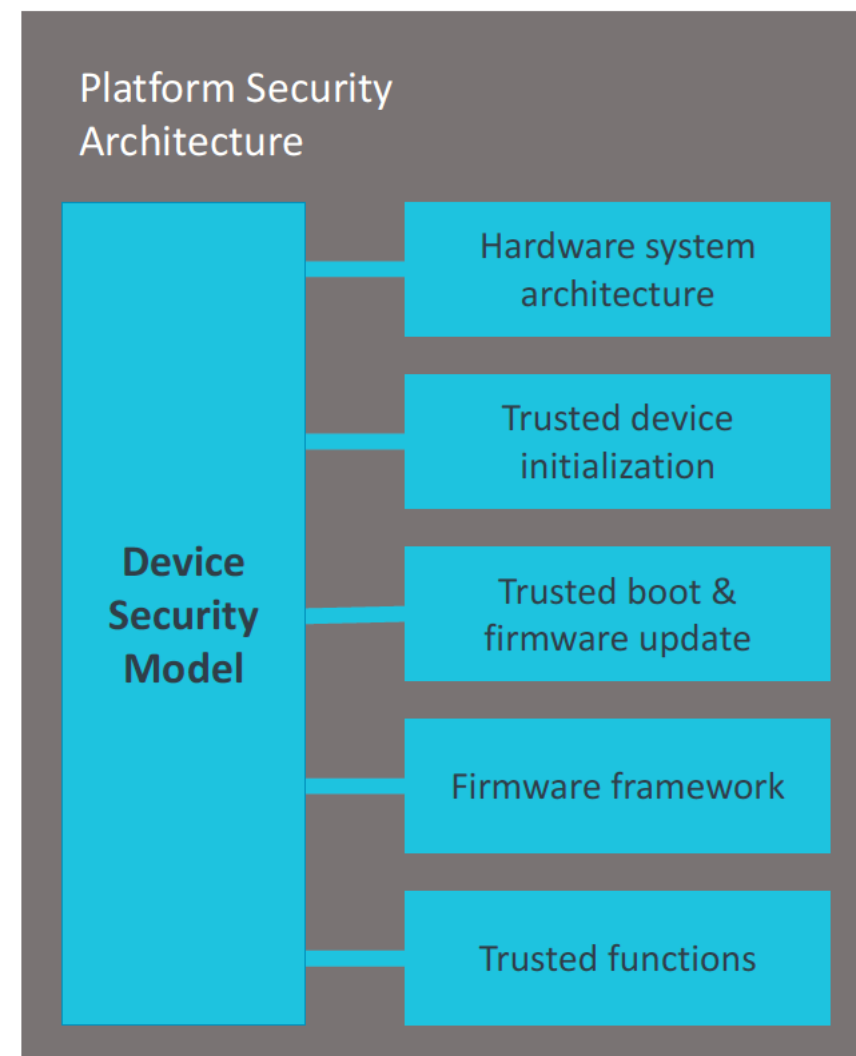


ARM推出平台安全架构 - (PSA)

基于已有的安全技术

收敛行业的安全实践

是IoT安全的指导建议







Thank You!

Danke!

Merci!

谢谢!

ありがとう!

Gracias!

Kiitos!



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