

# 从智能到智慧之 边缘的逻辑

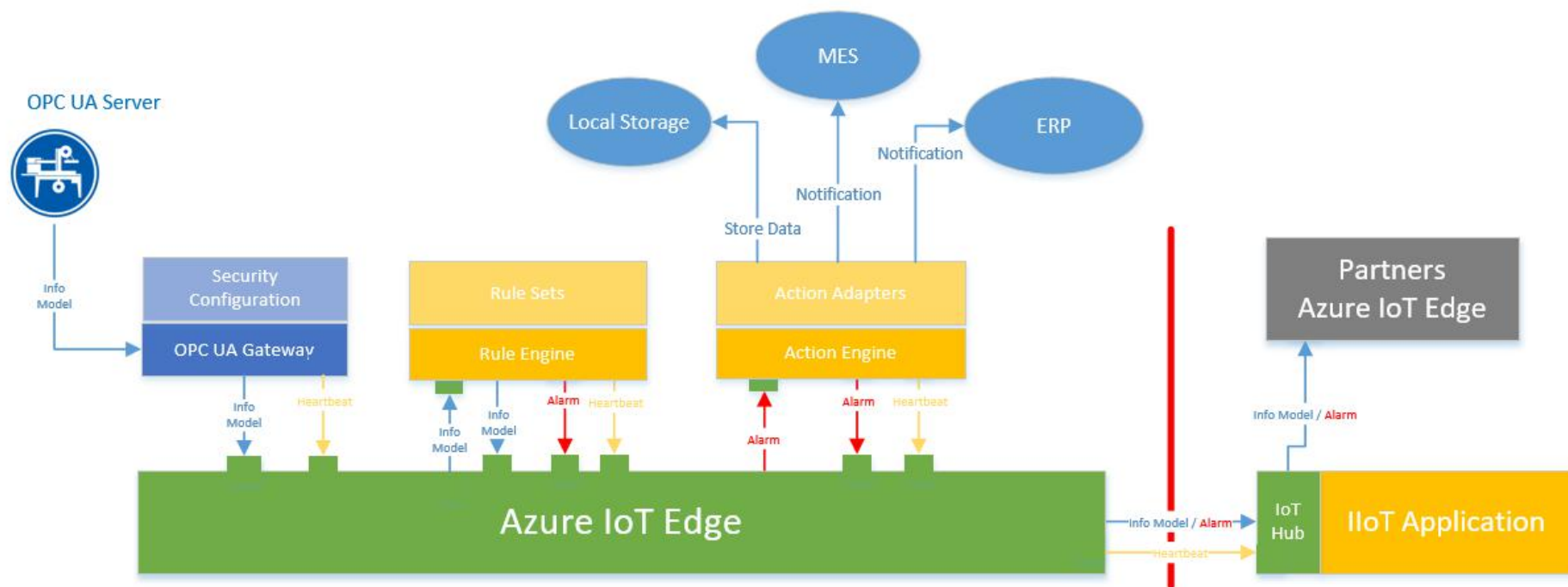
管震  
首席技术顾问  
微软（中国）有限公司



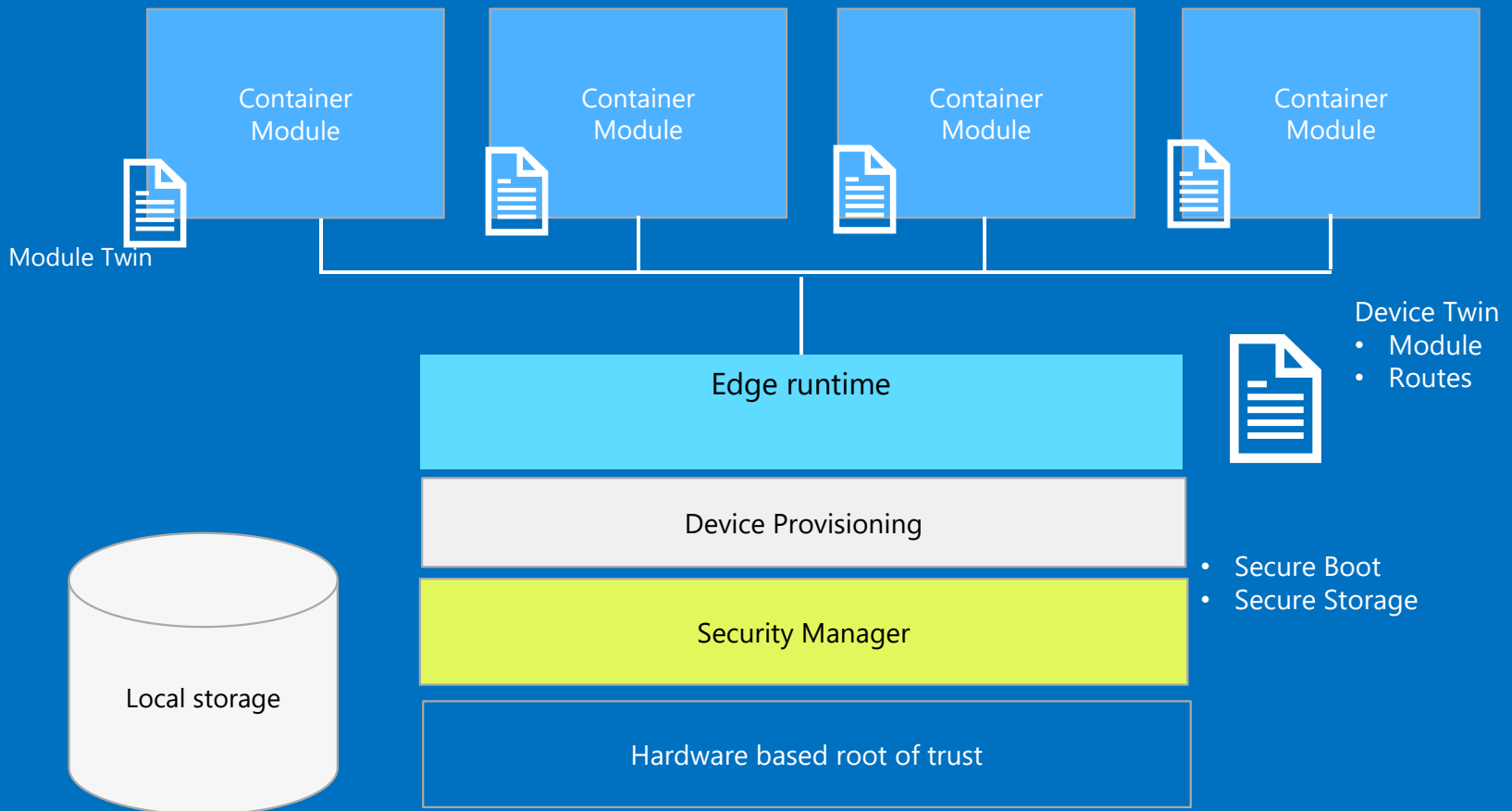
# 我们先从边缘能干什么了说起



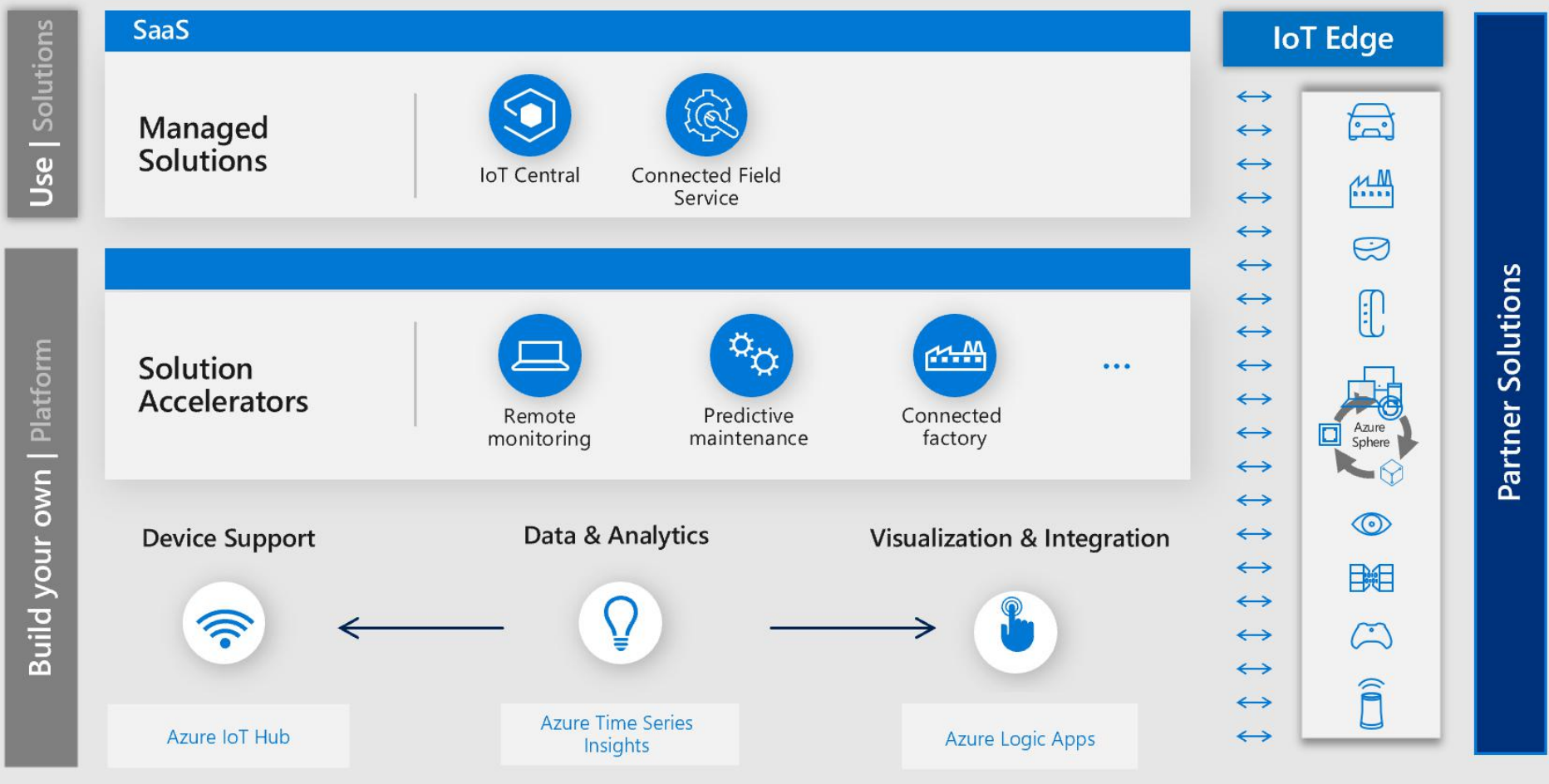
# 实现上面这个场景的环绕立体效果 其实是这样的



# 你定想拆开IoT Edge的盒子看看

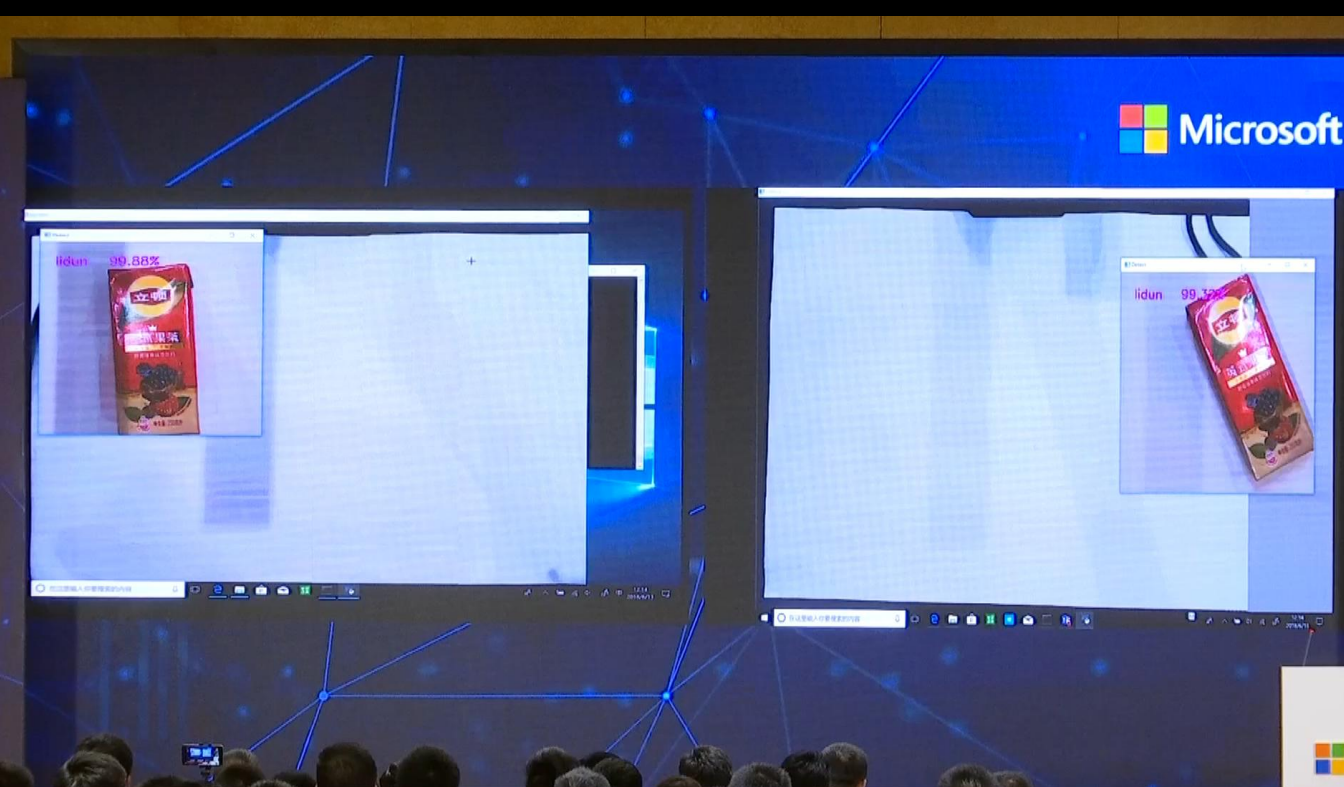


# 我们可能想得更多一点



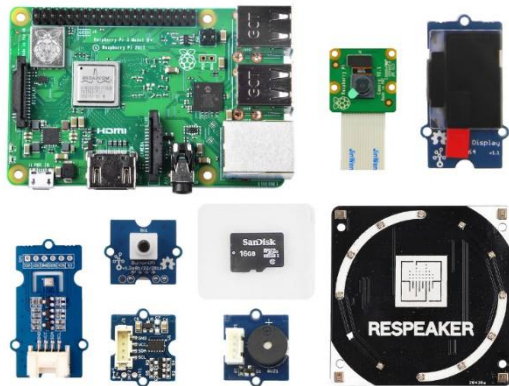
IoT Services on  
Microsoft Azure

# 还有AI@Edge





Roobo Dev Kit  
4 Microsoft Speech

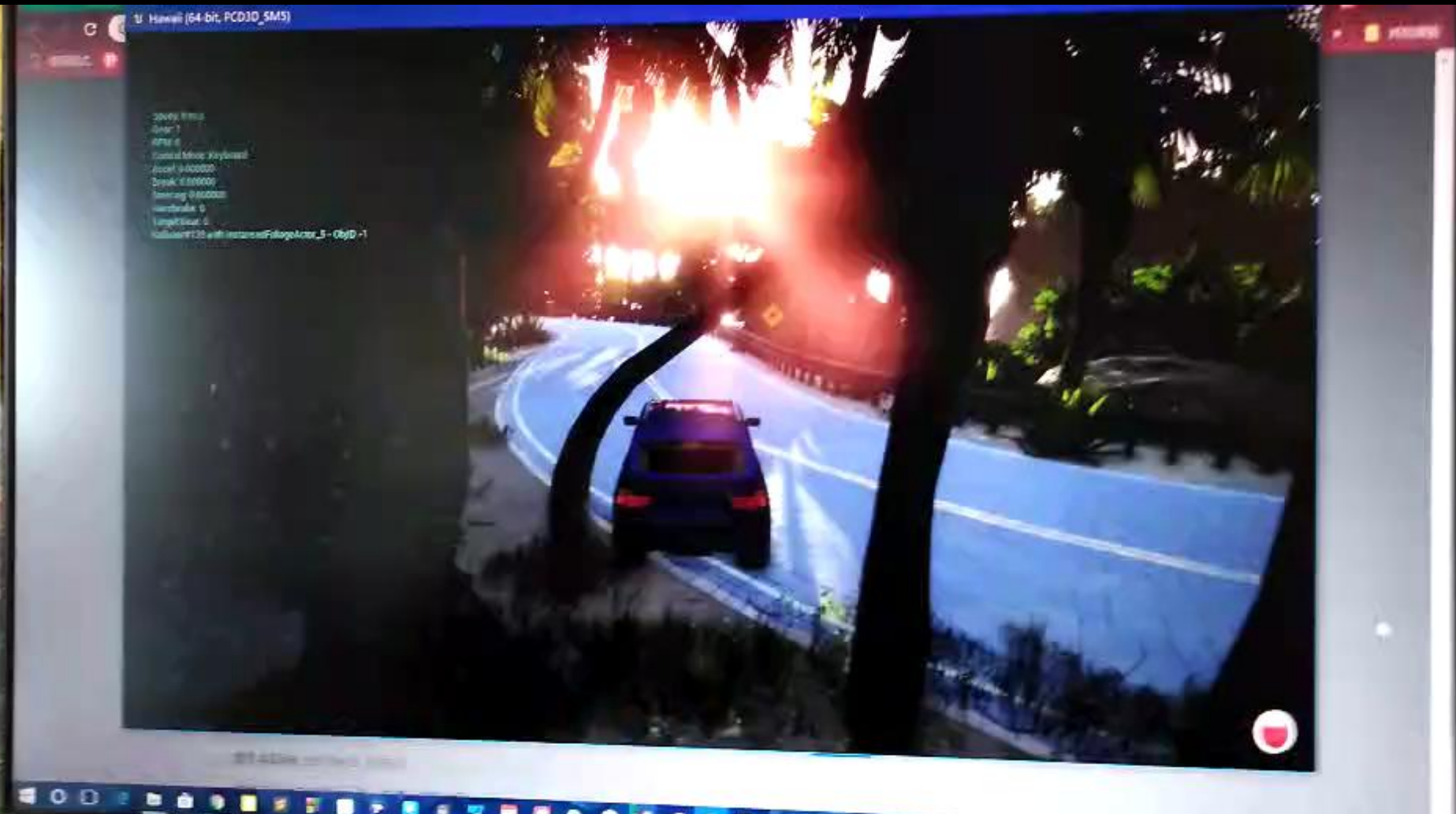


Seed Grove Starter Kit for  
Azure IoT Edge



Vision AI Developer Kit

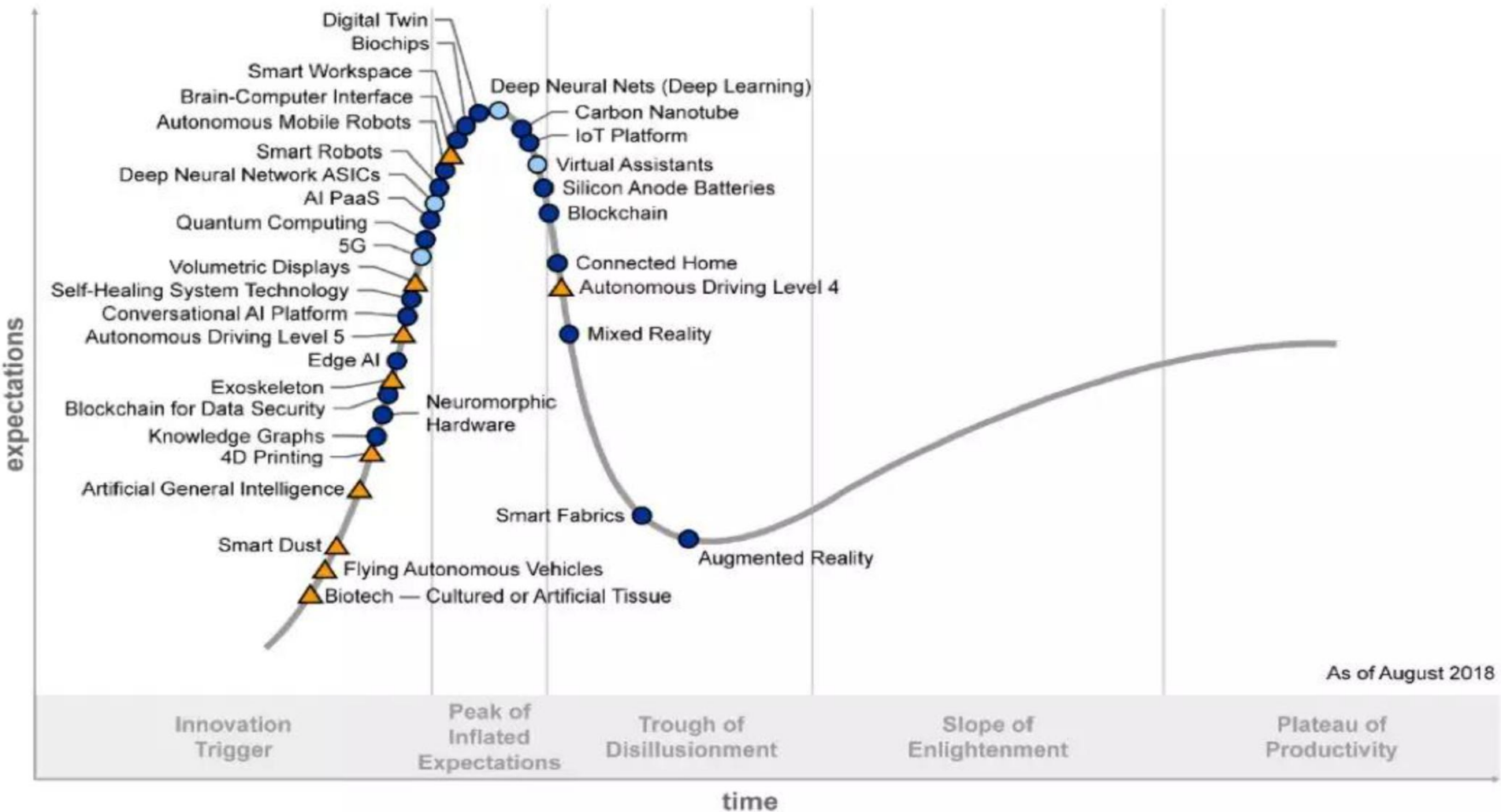
# AirSim@自动驾驶



<https://github.com/Microsoft/AirSim>



# 看起来这是个非常有前途的事业



Plateau will be reached:

- less than 2 years
- 2 to 5 years
- 5 to 10 years
- ▲ more than 10 years
- ⊗ obsolete before plateau

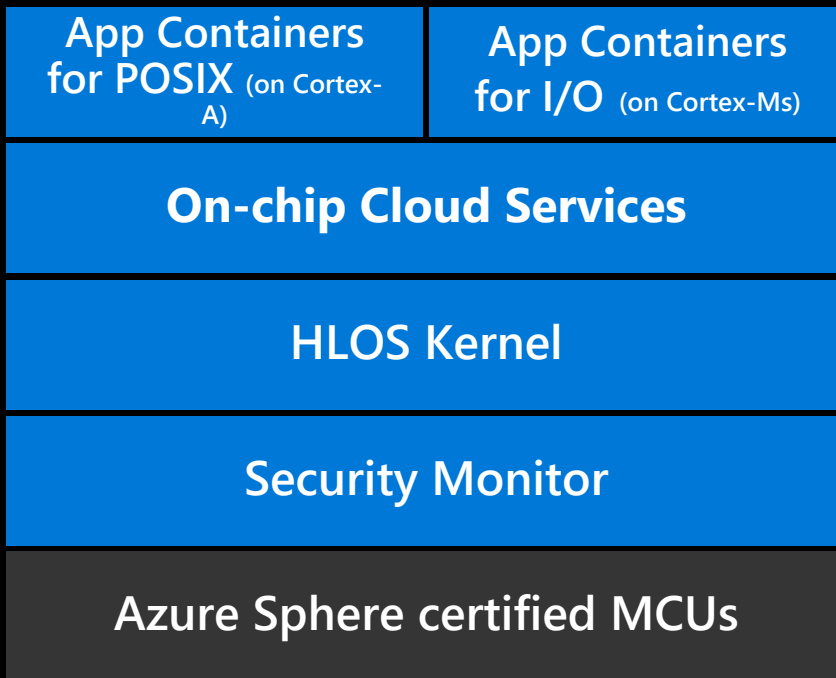
不过接下来的问题就很Hard Core了



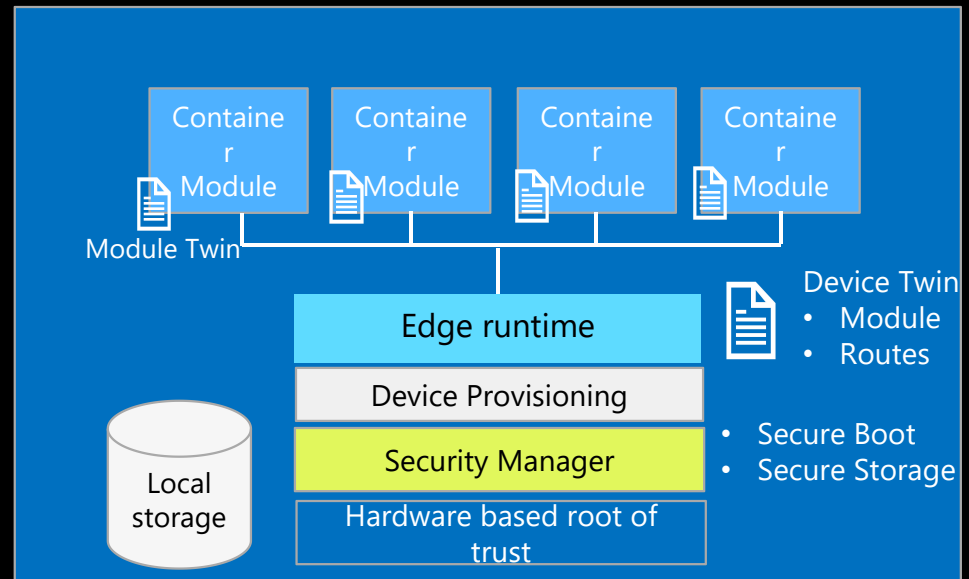
假设我们不是为了技术而技术，那么平衡点...

# 技术框架

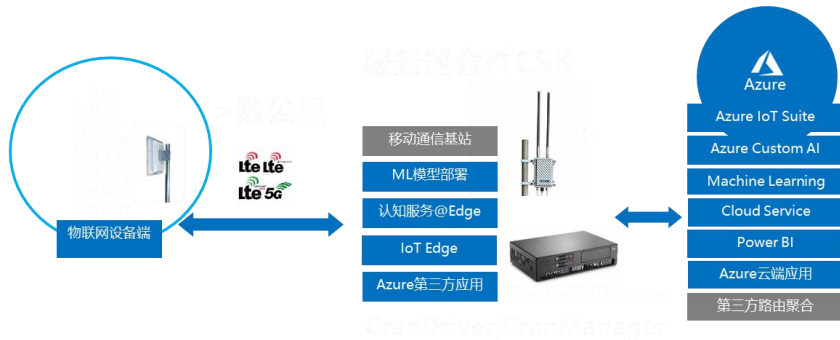
## Azure Sphere OS Architecture



## Azure IoT Edge Architecture



# 容器化的边缘应用有可能成为主流



终端成本降低30%

应用响应提速10倍

后传带宽降低90%

来源：云基众智云基站



Kubernetes开源项目联合创始人  
微软杰出工程师  
Brendan Burns

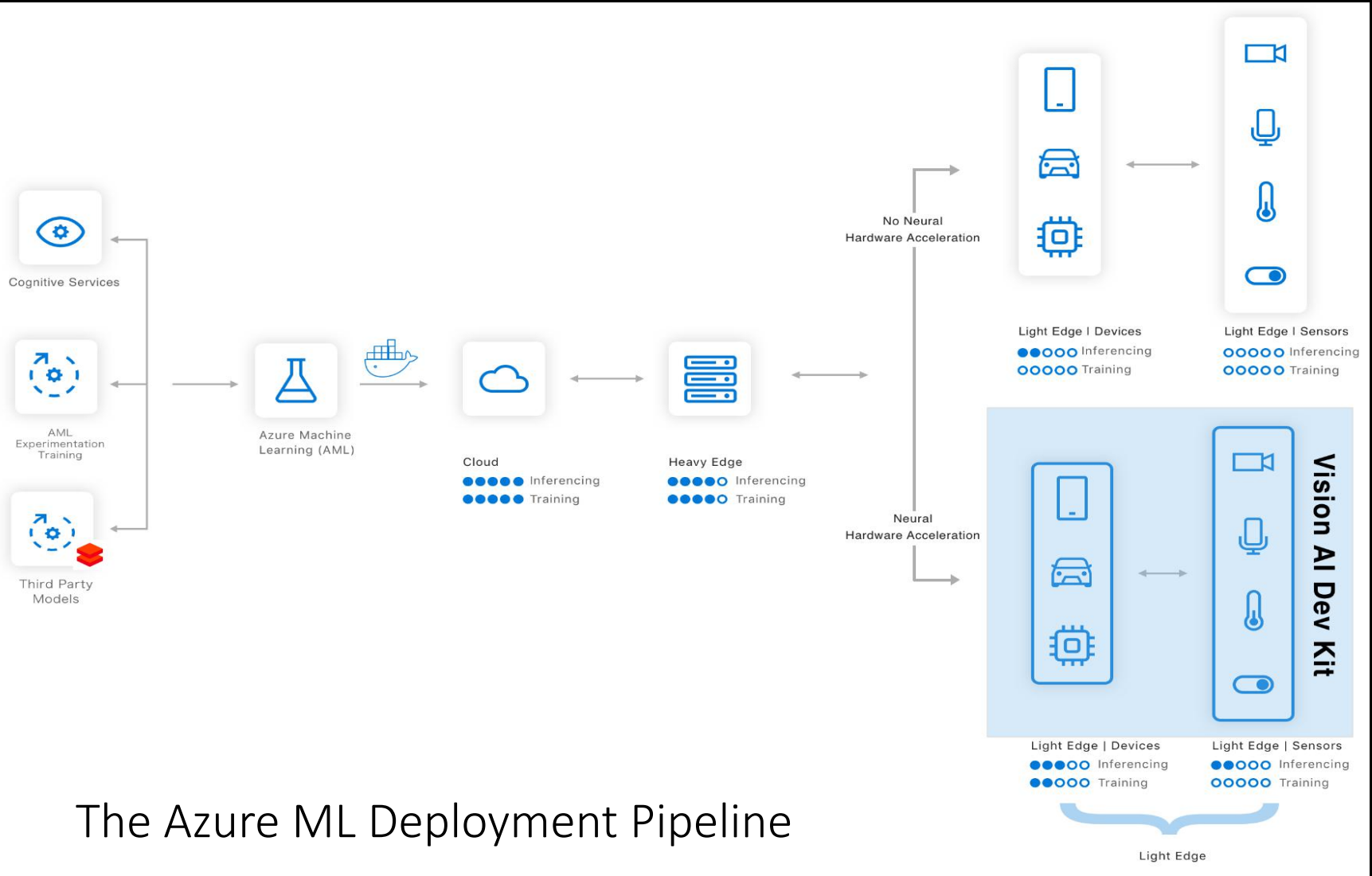
“是时候拿起Visual Studio Code加速开发、测试和调试容器了”

Services supporting Containers

Vision	Speech	Language	Knowledge	Search	Labs
Video Indexer	Speaker Recognition	Text Analytics	QnA Maker	Bing Entity Search	Project Gesture
Computer Vision	Bing Speech	Bing Spell Check	Custom Decision	Bing Autosuggest	Project Local Insights
Face	Custom Speech	Translator Text		Bing Search	Project Academic Knowledge
Emotion	Translator Speech	Language Understanding (LUIS)		Web Search	Project Entity Linking
Content Moderator	Unified Speech			Image Search	Project Knowledge Exploration
Custom Vision	Speech to Text w. Custom Speech			News Search	Project Event Tracking
	Text to Speech w. Custom Voice			Video Search	Project Answer Search
	Speech Translation w. Custom Translator			Bing Statistics add-in	Project URL Preview
				Bing Visual Search	Project Anomaly Finder
				Bing Custom Search	Project Conversation Learner
					Project Personality Chat

<https://docs.microsoft.com/zh-cn/azure/cognitive-services/cognitive-services-container-support>

# 新工种的诞生：边缘决策的层级设计



The Azure ML Deployment Pipeline

# 天色尚早 欢迎来到IoT Edge on Azure





# IoT in Action

12月18日 | 深圳

免费注册 



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