# MLaaS (Machine Learning as a Service) with MATLAB Production Server

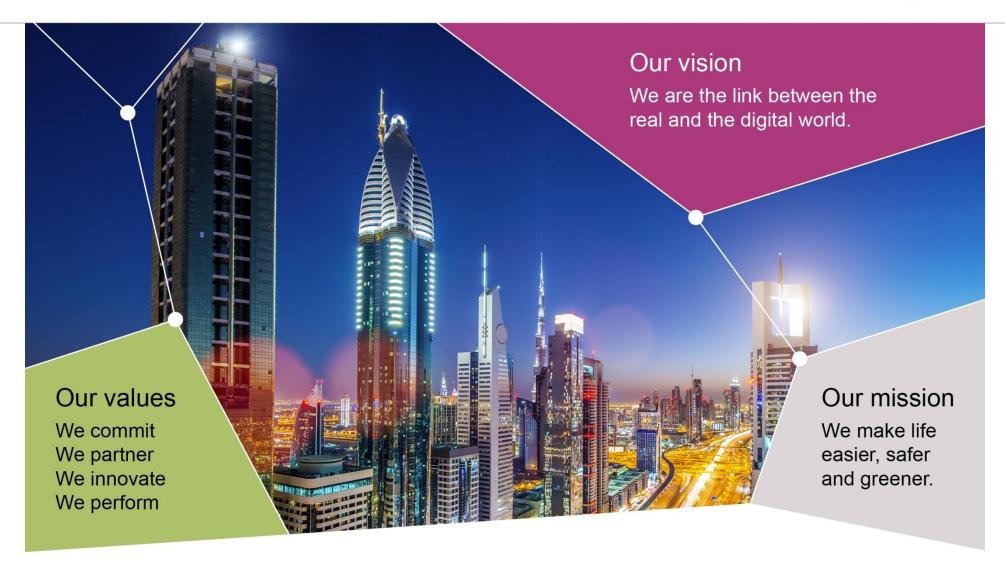
Faizan Aslam@infineon.com

Power Management and Multimarket 15.04.2019



#### A world leader in semiconductor solutions



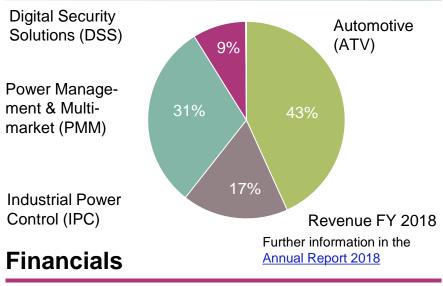


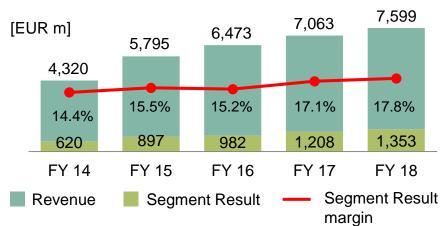
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## Infineon at a glance









#### **Employees**



#### **Market Position**







# 1

IHS Markit, Technology Group, September 2018

Security ICs



# 1

**ABI** Research October 2018

# RF and Sensing devices enable new services and will shape the way we live and work





**Augmented Reality** 



Voice-controlled devices

# Various use cases are enabled by a small set of versatile core technologies



Commercial and consumer multicopters



Gesture control



Smart streetlights

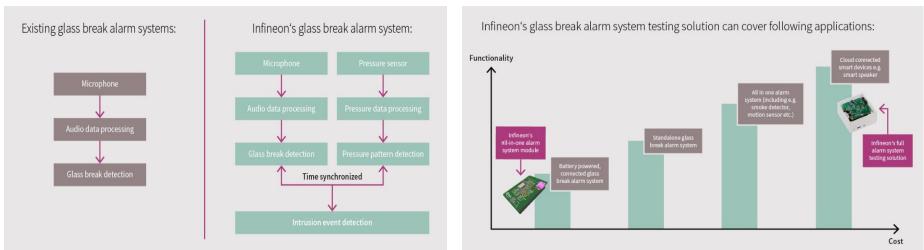


Industrial robotics



#### From Sensors to Smart Services

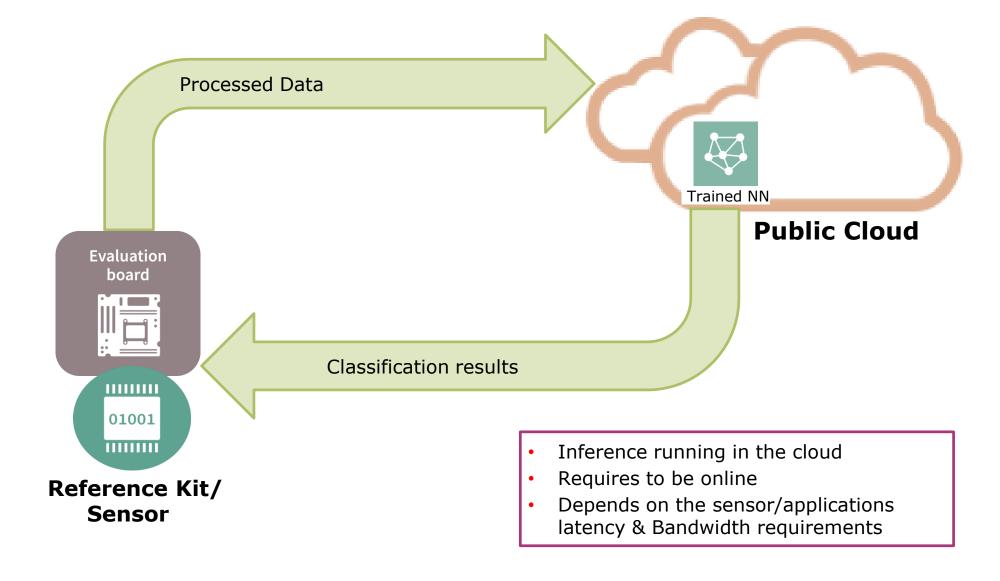




Source: <a href="https://www.infineon.com/cms/en/product/promopages/intuitive-sensing/">https://www.infineon.com/cms/en/product/promopages/intuitive-sensing/</a>

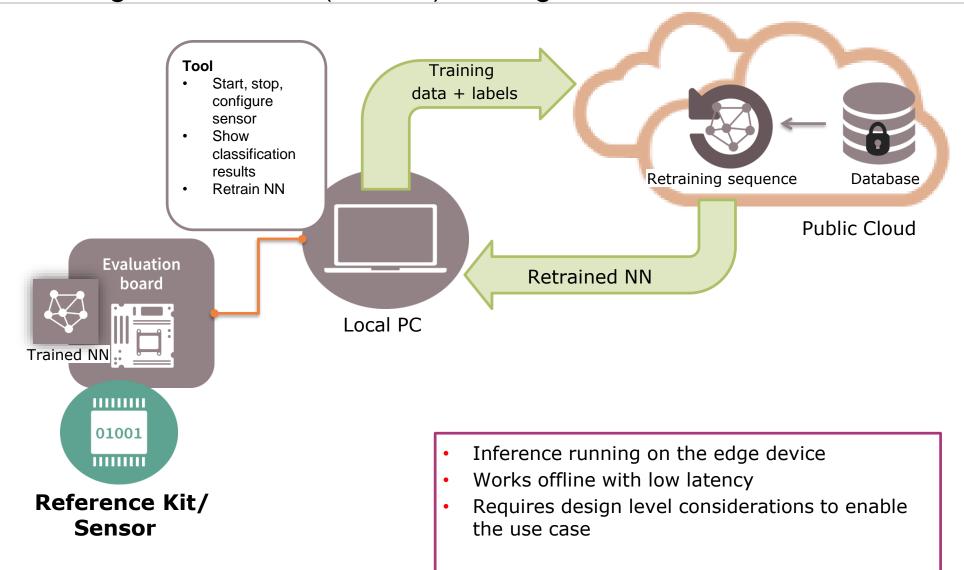


## Machine Learning as a Service (MLaaS) for connected devices





## Machine Learning as a Service (MLaaS) for edge devices

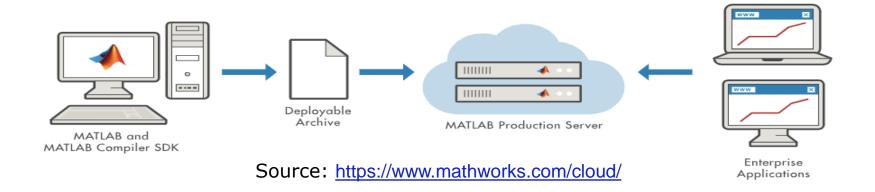




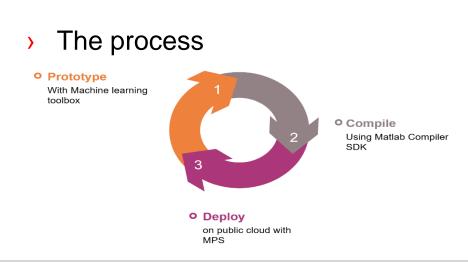


# MATLAB Production Server (MPS) Evaluation

Deployment of a scalable and secure infrastructure is a huge challenge



- Evaluation of MPS for a demo project
  - Deployed on AWS
  - Classification as a service
  - Web application as client





# How MATLAB Production Server (MPS) helped?

- Reduced time-to-market
  - From prototype MATLAB code to web service
- Scalable infrastructure
  - On demand scaling
  - Public cloud hosting
  - Security
- Integration
  - > API access

# Summary / Conclusion





#### **MPS Evaluation**

MPS is a well-placed product that reduces our time-to-market

#### **MLaaS** validation

Validated that MLaaS is also relevant for us and our end customers

#### **Next Steps**

> Evaluation of MPS for MLaaS in a complex real-life system



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