

TMA Innovation Center



Find Technical Solutions

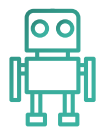
Build Product Prototypes

Design & Implement
R&D Projects

Build & Operate Your
Innovation Centers



Big Data &
Analytics



AI/ML



Blockchain



Internet
of Things

Big Data & Data Analytics

Services



Data warehouse and data mining design and implementation



Collect and analyze data in real-time
Data integration and aggregation



Data visualization



Standard and custom reports



Data analytics and forecasting



Analyzing high volume structured and unstructured data



Data migration

Big Data & Data Analytics

Skill Set

Data Warehousing

- ▶ SSIS, SSRS
- ▶ Hbase, HDFS
- ▶ MongoDB, CouchDB, Cassandra, Teradeta

BI and Data Visualization

- ▶ Tableau, Splunk, Pentaho, QuickSight, PowerBI, Cognos, Jasper, Qlikview, Pentaho BI, Power View, Datazen

Programming

- ▶ Python, R, Java, Hive, Scala, SAS, SPSS

Frameworks

- ▶ Hadoop, Spark
- ▶ Kafka, Storm, Sqoop, Flume
- ▶ Mahout, Drill, Solr
- ▶ Druid, SnappyData, Cassandra
- ▶ Map Reduce, Pentaho

Predictive analytics

- ▶ Regression
- ▶ Classification
- ▶ Clustering
- ▶ Time Series

AI & Machine Learning

Skill Set

Machine Learning

- ▶ Deep Learning: TensorFlow, Keras, Pytorch
- ▶ Descriptive Statistics

Reinforcement Learning

- ▶ Markov decision process
- ▶ Q-Learning and Deep Q-Networks

Supervised Learning

- ▶ Linear Regression
- ▶ Neural Networks
- ▶ Support Vector Machines

Unsupervised Learning

- ▶ K-Means Clustering
- ▶ Anomaly Detection
- ▶ Principal component analysis (PCA)
- ▶ Latent Dirichlet allocation (LDA)

MLaaS

- ▶ Google Cloud AI
- ▶ Microsoft Azure AI
- ▶ AWS AI

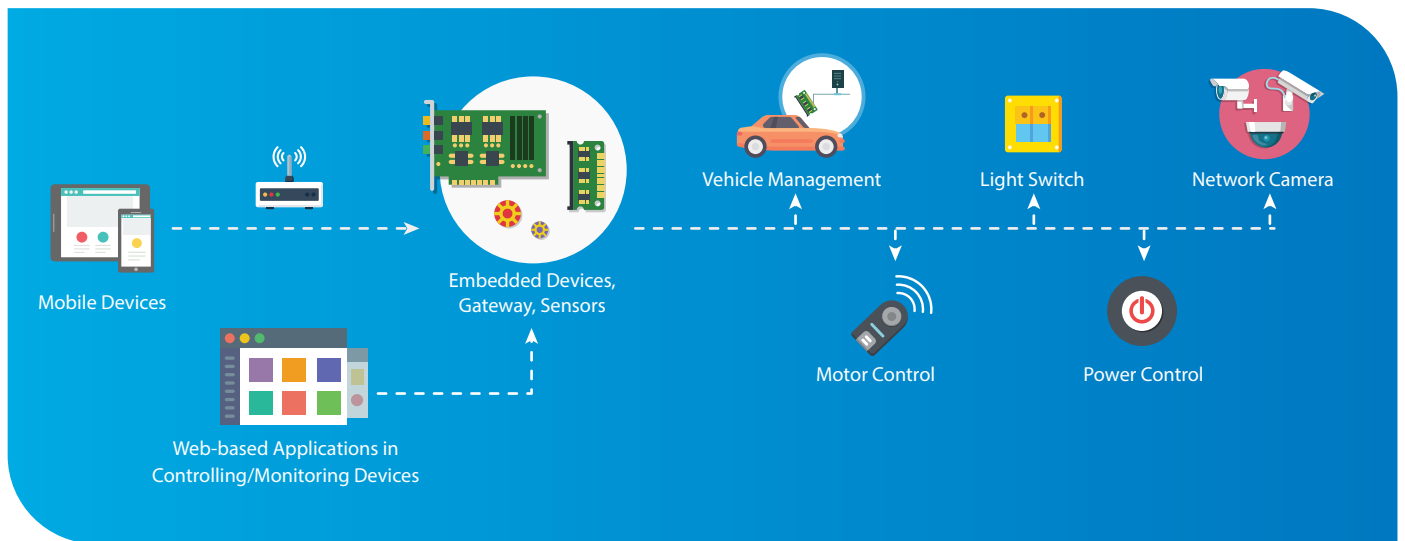
Computer Vision

Object Detection

NLP

Recommendation

IoT



Applications

- ▶ Smart devices
- ▶ IoT devices testing
- ▶ Smart agriculture
- ▶ Asset tracking
- ▶ Vehicle tracking
- ▶ Smart home

Technologies

- ▶ LoRa
- ▶ SimplicTI
- ▶ MQTT
- ▶ 6LowPan
- ▶ Zigbee
- ▶ BLE
- ▶ Beacon
- ▶ RFID
- ▶ Cloud IoT Platforms
- ▶ 3G-4G/LTE-5G

Blockchain

Apply Blockchain as an enterprise architecture

Services

Apply Blockchain technologies in various industries

Build Blockchain prototypes

Build your Blockchain development team

Skill Set

Hyperledger

Ethereum

Stellar

Smart Contract

Dapp, Docker

Golang, Solidity, NodeJS

Our Innovative Solutions

Machine Optimization



Smart Devices Framework



Performance Optimization



Predictive Maintenance

RPA Automation



Document Parser



Brand Detection



Call Analysis

Analytics



Student Analytics



Customer Analytics



Candidate Analytics

R&D Collaboration with Universities

Case Studies

Universities	Projects
Oslo University (Norway)	Healthcare information system
University of Agricultural Sciences (Sweden)	Imaging Mass Spectrometry
Flinders University (Australia)	GNOME/DNA Alignment
Adelaide University (Australia)	Blockchain for IoT Security
Can Tho University (Vietnam)	Apply IoT on water quality monitoring in Mekong Delta
Quy Nhon University (Vietnam)	AgriTech, 5G

Embracing global innovation best practices

from Harvard/MIT, Silicon Valley, UK, Australia, Europe, etc.

