

# **EASY and AFFORDABLE i4.0 pilots** IQRF case studies with BigClown Digital Maker Kit



TOMAS MORAVA Co-Founder HARDWARIO



# HARDWARIO





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## WE TRANSFORM THE IOT IDEAS INTO THE REAL BUSINESS

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#### HARDWARIO BLOX



## YOUR IOT DEVICE IN JUST 3 MONTHS!

FAST PROTOTYPING & PROOF OF CONCEPT











**Ready To Customize** 

Outdoor



Indoor

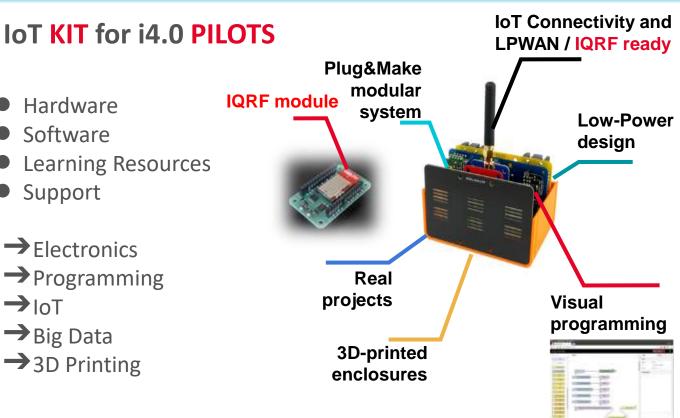
### Tracking













Alliance

#### **COOPER**

- Indoor IoT Multisensor
- IQRF / NB-IOT / LORA / Sub-GHz
- BLE Commnication
- Low-Power (3x AA Alkaline bat)
- Variety of sensors
  - O TEMPERATURE + HUMIDITY
  - o CO2
  - o VOC
  - ACOUSTIC NOISE
  - O MOTION
  - O LIGHT INTENSITY
  - O SHOCK/TILT
- Versatility





Alliance

#### **CHESTER**

- Outdoor IoT Unit
- NB-IoT & BLE Communication
- Low-Power (1xD Lithium BATTERY)
- Temperature + Humidity
- Shock/Tilt
- GPS
- EXTERNAL SENSORS
  - O SOIL MOISTURE
  - O TEMPERATURE
  - О рН
  - O ...







#### BONER

Outdoor IoT Unit NB-IoT / LTE CatM1 Communication Low-Power (4xAAA Alkaline BATTERIES) Temperature + Humidity Shock/Tilt GPS / GNSS accurate position







#### ... and many more

- DRONE TRACKING
- PREDICTIVE MAINTENANCE
- ANDON BUTTON
- WORKFLOW MONITOR
- INDUSTRIAL BACKUP SYSTEMS
- PERSONAL ALARM
- SMART WINEYARD
- BARK BEETLE MONITOR
- BEEHIVES MONITOR















#### **BIGCLOWN for Industry 4.0**



## 



**INDUSTRY 4.0 PILOT - PREDICTIVE MAITENANCE** 





### **ANDON BUTTON**



IQRF ready deployment for long production lines and warehouses



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### **INTEGRATIONS**

- MS AZURE IOT CENTRAL
- AWS
- GRAFANA
- UBIDOTS
- BLYNK
- OPERATORS
- PARTNERS
- Custommed Data Feed







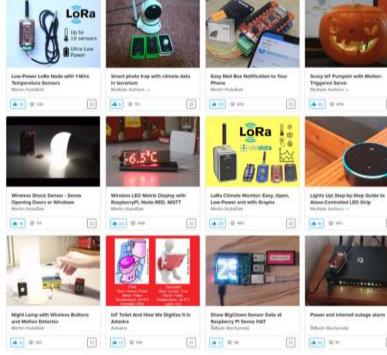






## BIGCLOWN INSPIRATIVE PROJECTS









## INSPIRING THE INVENTORS OF TOMORROW









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