



AI/ML/IoT is changing the world

IoT deployment

Warehouses, fridges and freezers temperature monitoring



ABOUT US







43 DEPARTMENTS



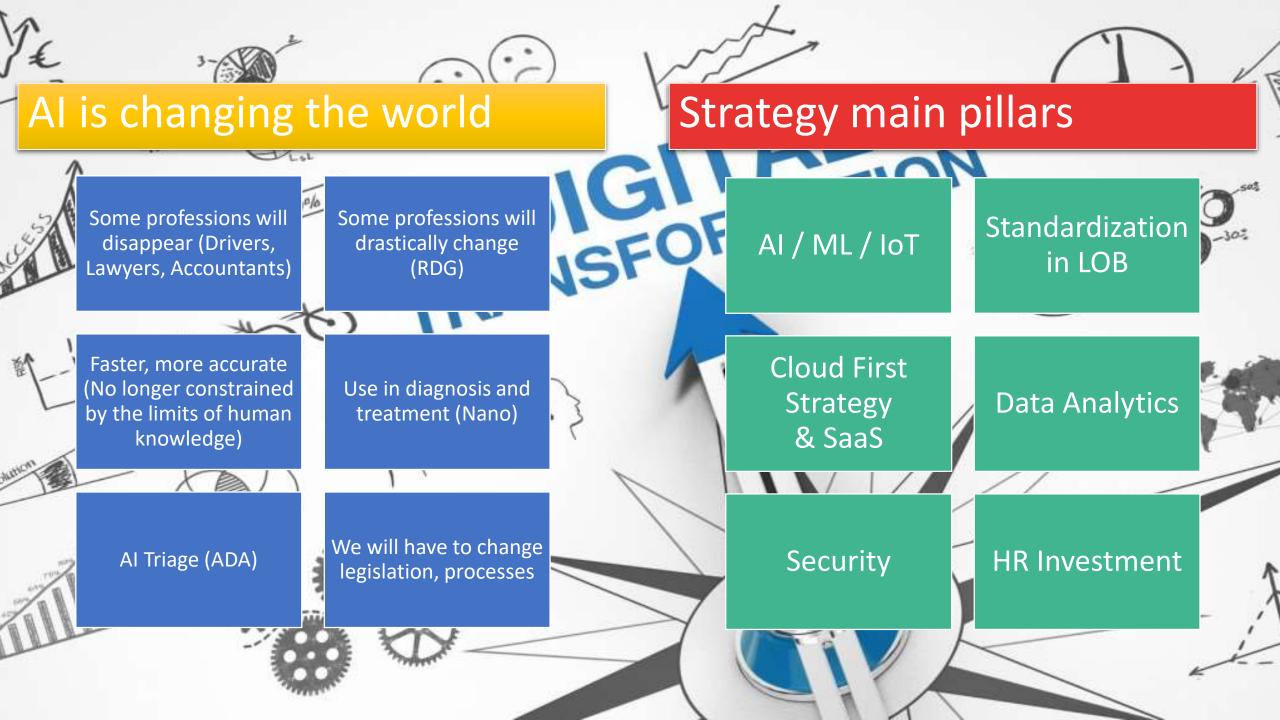
1 700 000 OUTPATIENT EPISODES

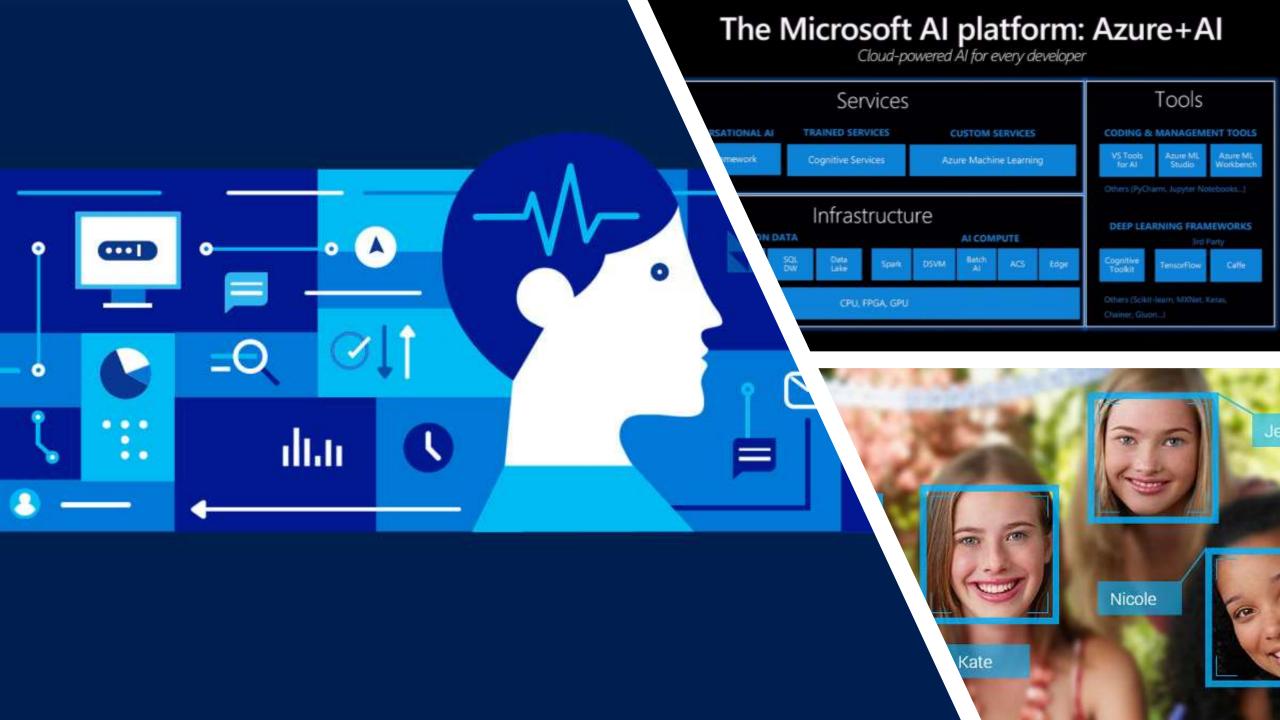


65 000 INPATIENT EPISODES

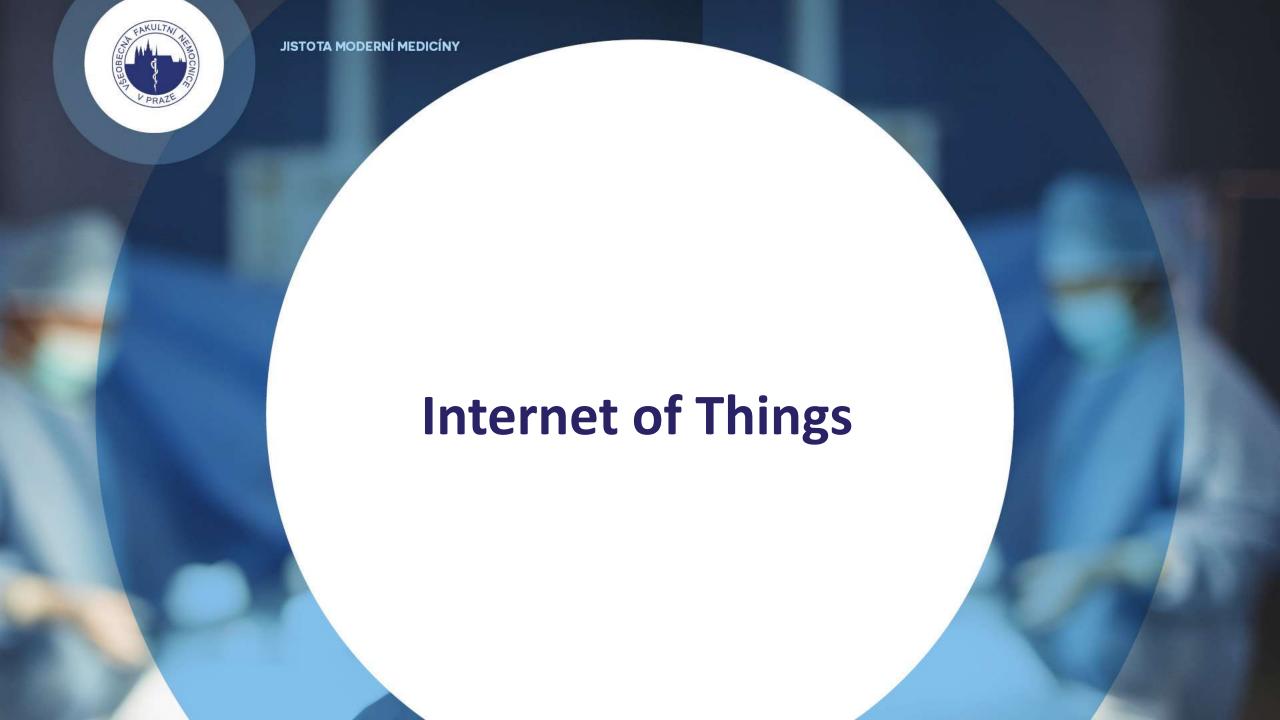


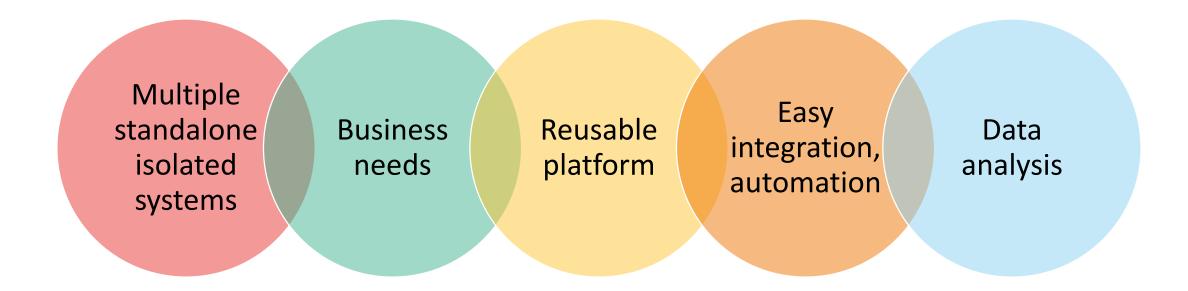
9 BIL. KČ













GOAL OF THE PoC PROJECT

We wanted to setup base IoT platform on simple PoC project using Microsoft Azure IoT platform services for collecting, processing and data visualization

We wanted universal, open solution, prepared for future extension

We wanted that the knowledge will be transferred to the internal staff, so we would be able to maintain and extend solution by ourselves



PROJECT REALIZATION & OUTPUTS

Laboratory chemicals department

•15 temperature sensors

Nuclear medicine department

- •10 temperature sensor
- •1 power consumption sensor

We are collecting data every 20 minutes using local wireless IQRF network with mesh topology. All communication is AES-128 encrypted. GW's are connected to the cloud using LAN.

Data are transformed in GW from IQRF DPA protocol to the JSON protocol and sent to Azure using MQTT

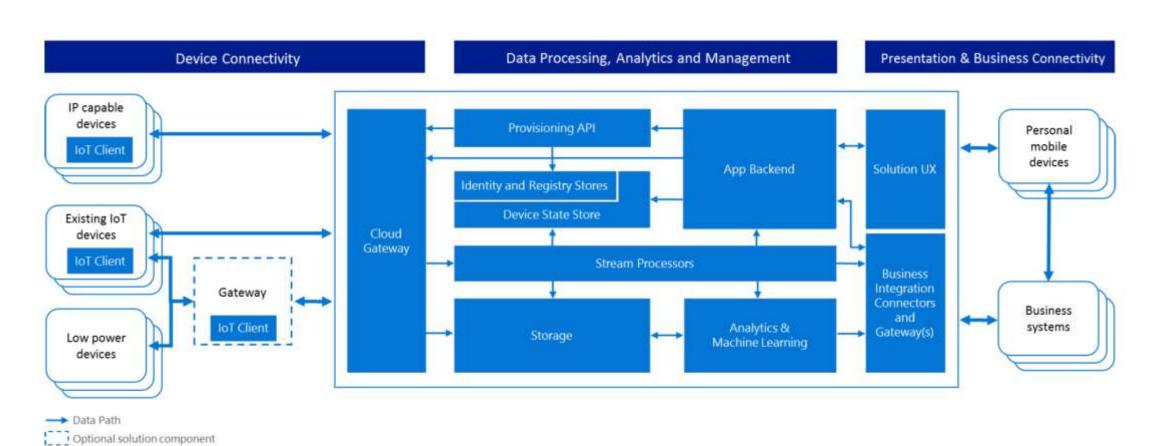
We are using Power BI
Dashboards as a visualization
platform (VFN standard)

We are using e-mail notifications in case of any out of range values



IoT solution component

IOT – SOLUTION ARCHITECTURE















DASHBOARDS





WHY IQRF ALLIANCE WAS CHOSEN

Simple physical installation

MESH network –
sensors communicate
by their own RF
network, HA in case of
GW failure

Open environment – multiple vendors alliance

DEV kits for testing, with reference documentation

Cloud ready solution

IoT GW monitoring with notifications



