



# Witekio

by  **deneo**  
Embedded

## System Software Integrator

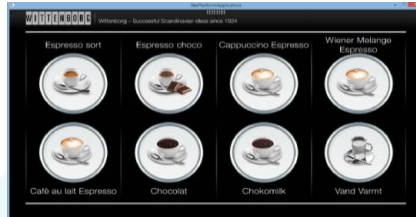
Embedded World – March 2017



**CASE STUDIES**  
OUR ADDED VALUE



# N&W new generation for coffee vending machine



## A partnership from specs to UI

### Features:

- ✓ User friendly touch screen with a 10"HD screen
- ✓ Intuitive highly responsive interface
- ✓ Multimedia/video
- ✓ Wifi and Bluetooth
- ✓ Fully customizable: 120 setting screens for UI adaptation, recipe creation, internal layout integration, eco mode settings, etc.)

### Technology:

Hardware platform:



Operating system:

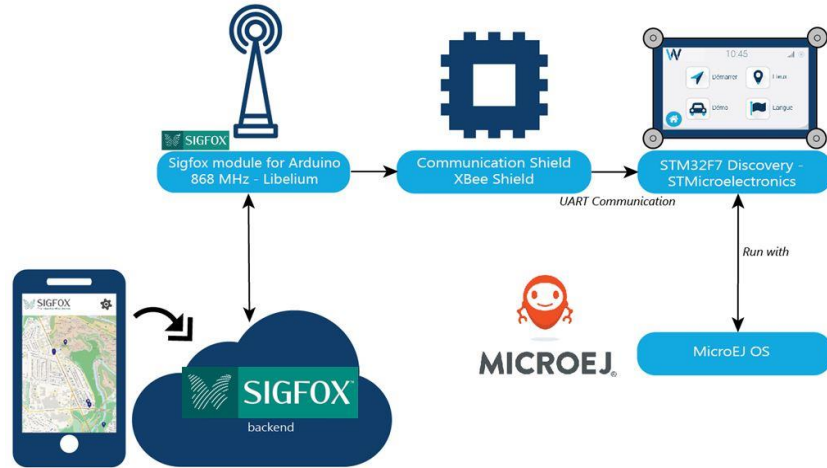


Framework:



6 different machines are now running with the same hardware and software platforms.

# MicroEJ geolocation app with Sigfox



## Develop next generation for cloud connected IoT devices

- ✓ Embedded system running MicroEJ on an ARM Cortex-M platform
- ✓ Data collected and stored on Sigfox backend
- ✓ System interaction : triggering position recording
- ✓ Data push over Sigfox network
- ✓ Advanced cartography system integration
- ✓ Mobile application (iOS, Android)
- ✓ UI for live positioning with user-friendly rendering on a map

### Technology:

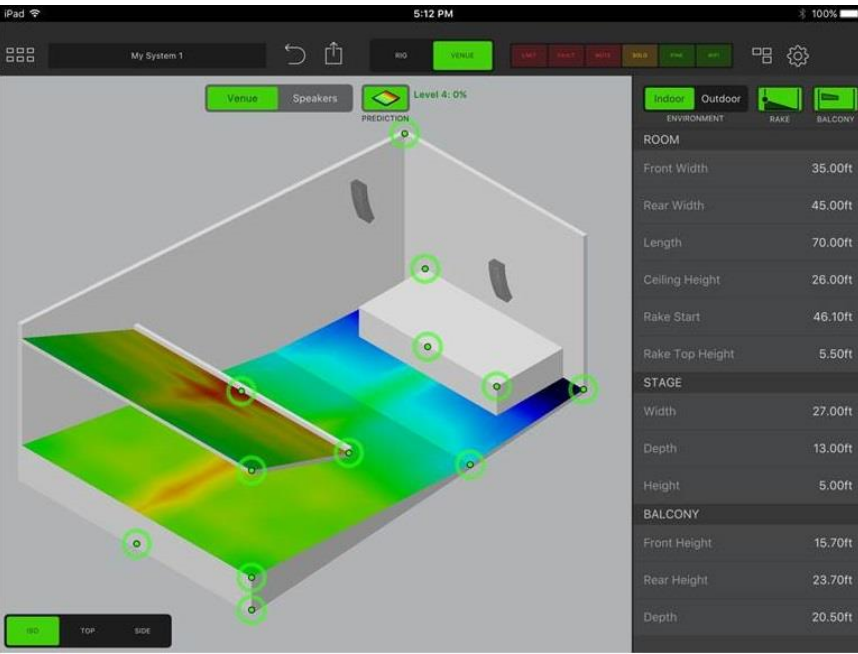
Operating system:



Framework:



# Concert venue sound system 3D design



From Business objective to actual application available on iTunes store

- ✓ Technology selection / Architecture
- ✓ 3D model rendering and editing
- ✓ Dynamic lighting based on the selected environment
- ✓ Smooth rendering through OpenGL/OpenGL ES 2.0
- ✓ Wifi communication with speakers
- ✓ Knowledge transfer

→ Available on iTunes !

Technology:

Hardware platform :

Framework :





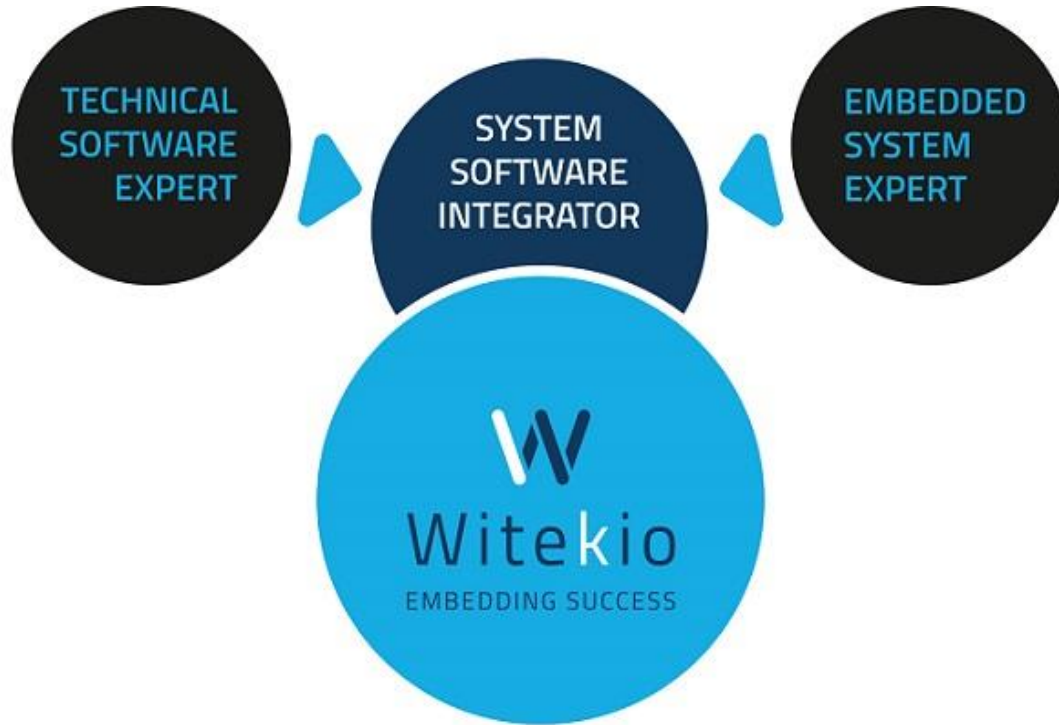
# Witekio

A new Player  
for new Challenges

by  deneo  
Embedded



# Witekio, System Software Integrator



Witekio is your partner to develop and integrate all the software layers  
from the hardware to the cloud



# Our People is unique

Our international team combines passion for embedded and mobile technologies and taste for technical challenges



One team, + 90 software developers



A passion for complex technical challenges



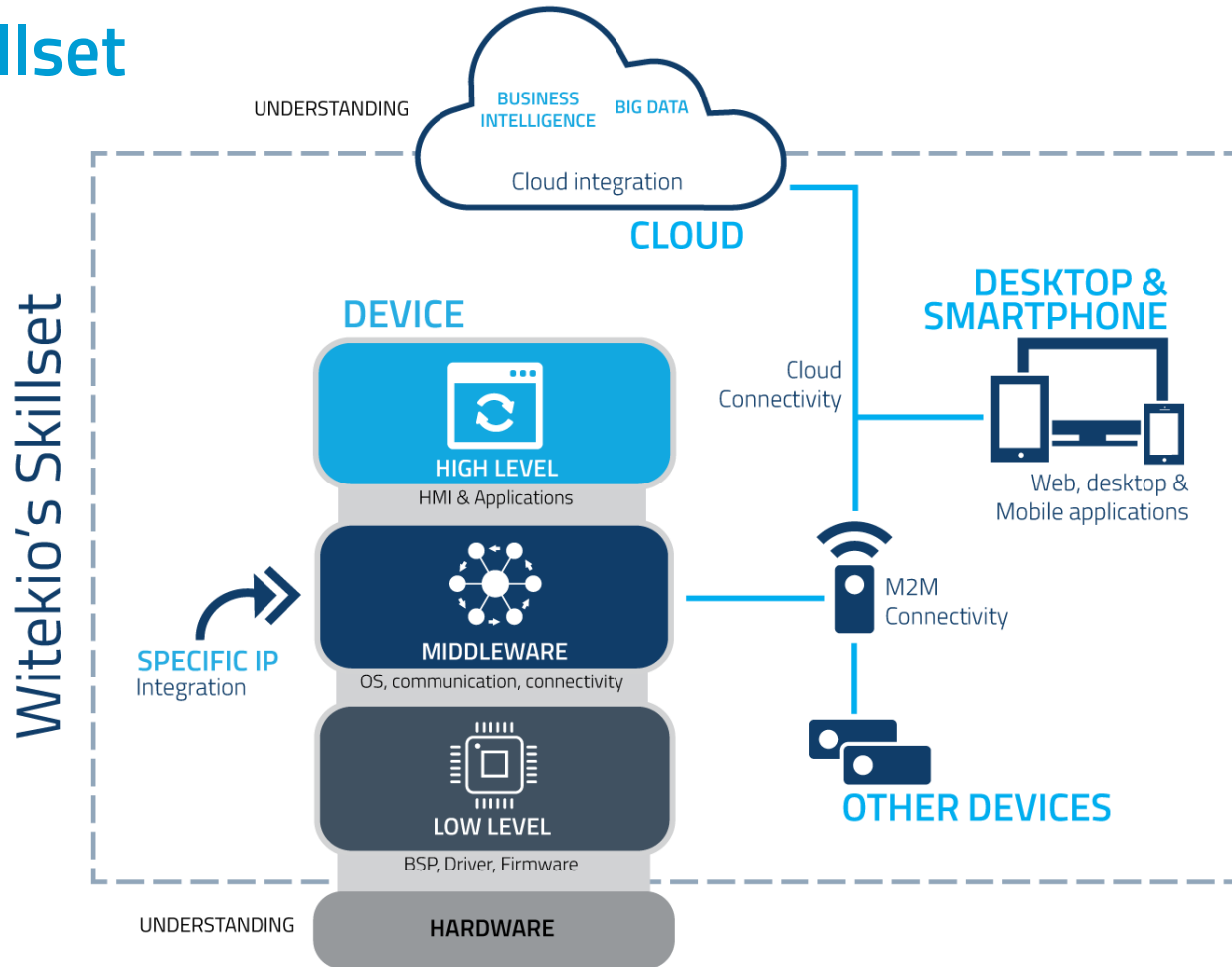
Technology versatility, from embedded and mobile to the Cloud



Emulation, knowledge and experience sharing



# Witekio Skillset



**Accountability & Commitment**  
**Cutting Edge expertise**  
**15 years experience**  
**Local Teams** **Worldwide presence**  
**Agility & Scalability**  
**Compliance with customers teams**

**Thank you**



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# Global Reach, Local Presence



**Our flexible teams along with our partners allow nimble, scalable and mature system's software integration**

# Embedding Success

We are committed to enabling the success of your embedded systems' development by



Managing the software technologies and integration challenges



Maximizing your project's efficiency by providing expertise, methodologies and expert engineering teams



Reducing the project's risk and improving your product reliability and performances



Accelerating your time to market through an agile collaboration with all the project contributors

# Solutions Through the Entire Project



## Analysis

- System level consulting
- Benchmarking, proof of concept development
- Trainings & workshops: technologies and methods



## Design

- System Architecture
- Design reviews
- Reference BSP support and updates
- 3rd party software and h/w selection
- 3rd party software and h/w integration
- BSP and OS selection



## Creation

- BSP customization
- Driver development
- 3rd party stack integration support
- Application technologies enablement
- Cross platform apps



## Production

- Global integration and project architecture
- System performance optimizations
- Validation and interaction testing
- BSP and driver optimizations
- Full application development
- Connectivity (M2M, cloud, etc.)
- Post Launch maintenance and support services

# A Global Expertise

## Vertical market



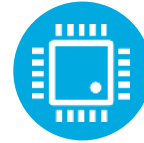
- System level understanding and analysis
- Extensive system integration expertise on (Medical, Automotive, Handheld, Industrial & Smart Objects) devices
- Fast boot mechanism, power management, software update
- Knowledge on uses & Design thinking

## System level approach



- Multi OS expertise (WEC, Linux, Android, QNX...) on heterogeneous system design
- System Optimization (Real-Time, Power Management...)
- 3rd party component integration and 3rd party management
- Middleware expertise (stack integration...)

## Low level software & Firmware



- Reference BSP Silicon Vendors architectures
- Adaptation of reference BSPs for custom designs
- OS optimizations based on final product requirements
- Custom device driver development (connectivity, multimedia, storage / industrial)

## Application & connectivity



- Full custom application development (Qt, HTML5, .Net, Java...)
- Cross-platform apps
- Web interface
- Data management & cloud connectivity
- Graphical performance