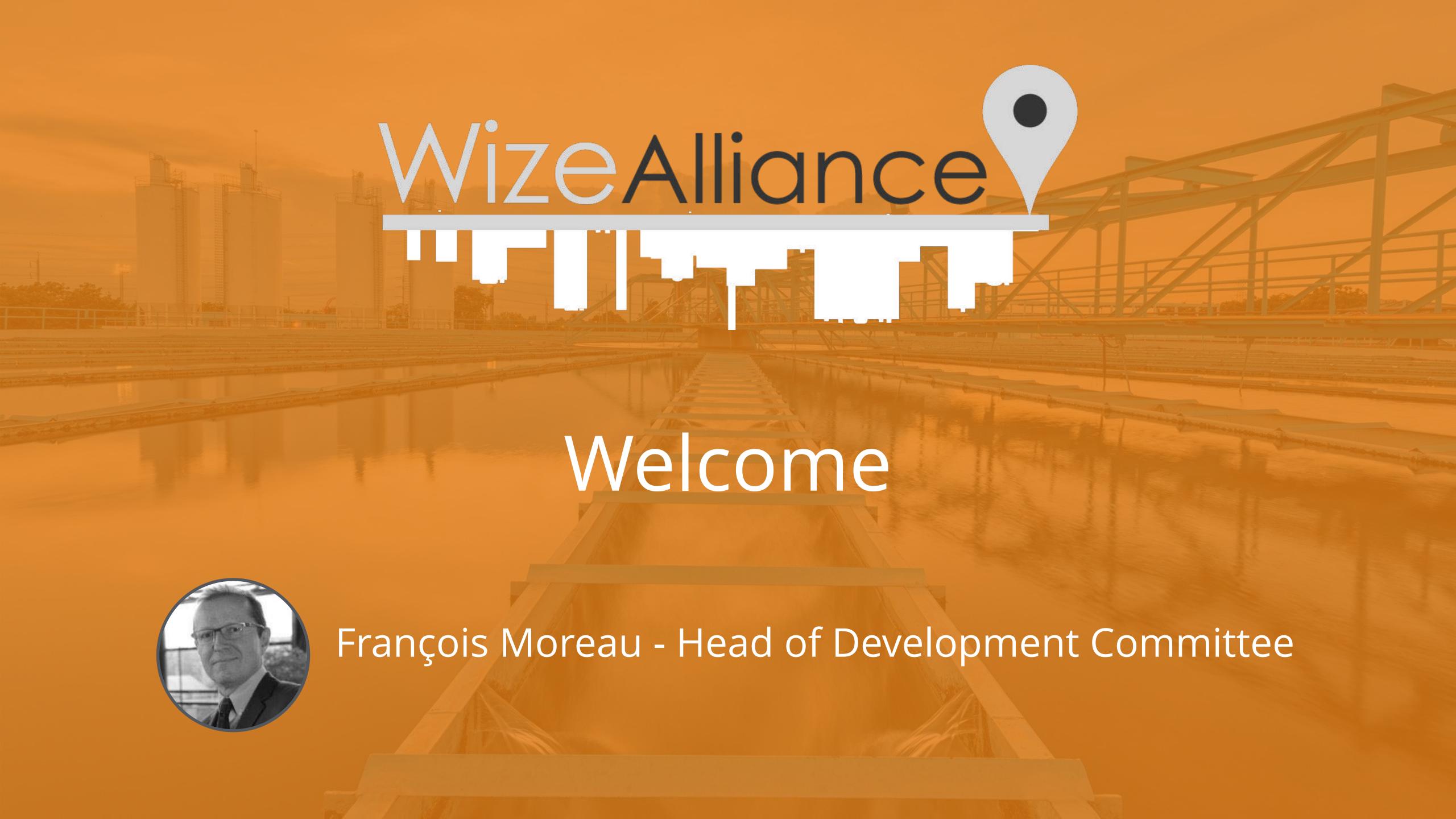
WizeAlliance

Wize hackathon
Create a LPWA loT prototype
using the new Wize technology





LPWAN



ADAPTRUM







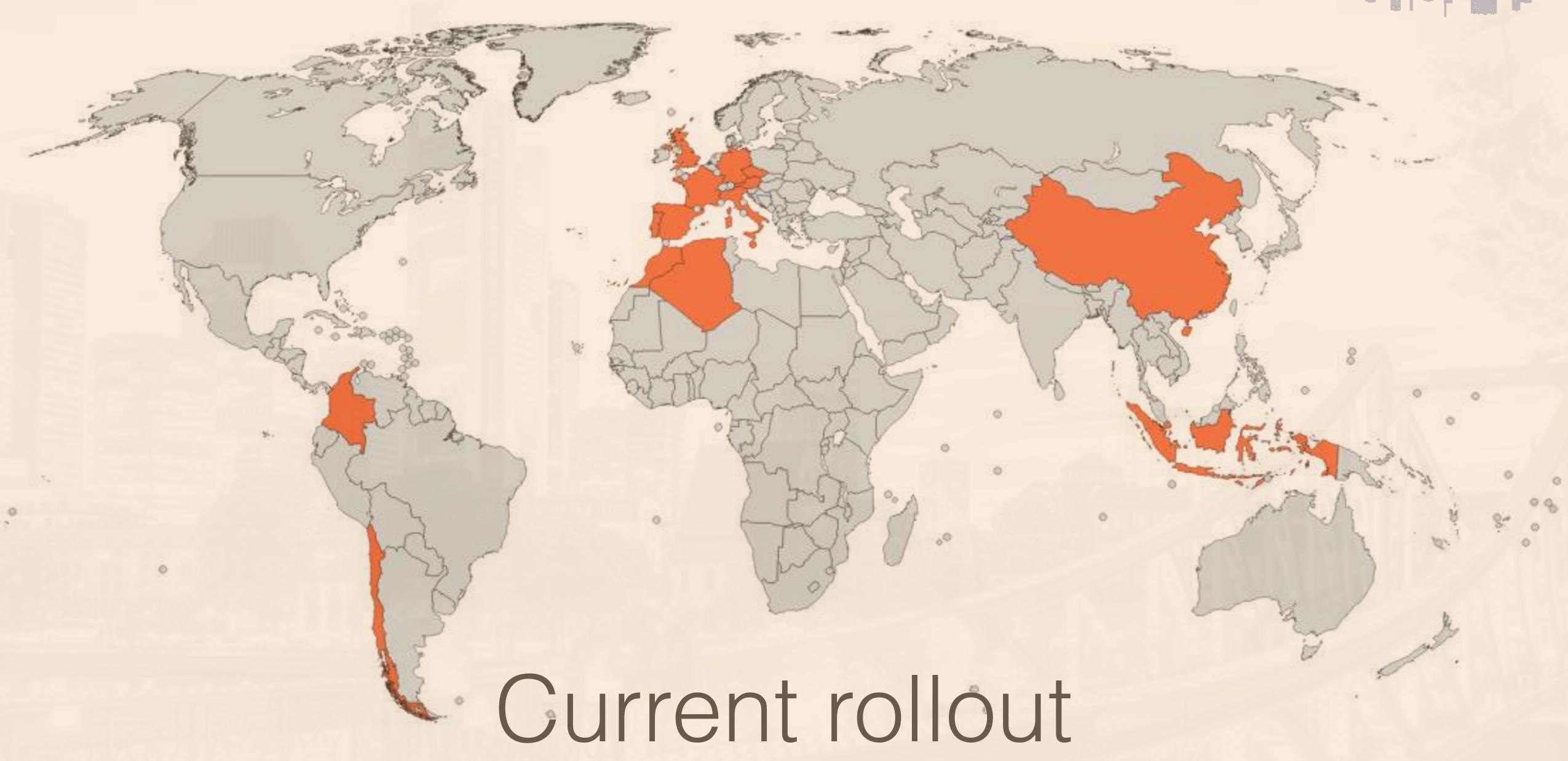


WEIGHTLESS



- Using the old, refurbished 169 MHz frequency band, now ISM (license free), non-polluted
- · Based on a robust and reliable standard **EN-13757** Wireless M-Bus, with **large scale rollouts** in place (3M+ devices)
- · Long distance, up to 20km LoS; but non-handover mechanism
- Extremely low-power consumption: up to 20 years of battery life in 1 message/day
- Bidirectional with OTAP
- · Deep indoor radio penetration







Business models

A flexible solution:

· No chip vendor lock-in





- · 3 options on the infrastructure site (WAN definition ongoing):
 - → Self-operated, self-infrastructure network
 - → Use of existing and already deployed network
 - → Deploy infrastructure and become an operator of it



The Deep Indoor Low Power (DILP) solution

- · Using lower frequencies: deeper indoor link & lower path loss
- · Adjustable output power to prioritise either power consumption or long range, or both (trade-off)
- · Medium data rates, from 2.4 to 6.4 kbps, reduce emission time
- · Small payloads frames, especially suitable for low data use cases
- No signalling channels needed and non-polluted channels, minimum re-transmissions



Introducing All Wize // Julianz/

Allwize aims to become the reference for anyone wanting to create connected devices using the **Wize** protocol by providing **solutions to connect things to the Internet** using the Wize technology.

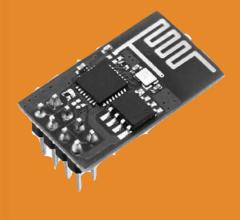
How?

- · Build a community of users around the Wize technology
- · Provide Wize solutions that are easy to use and affordable
- Spread the reach of Wize: + users and + network infrastructure

Roadmap - products



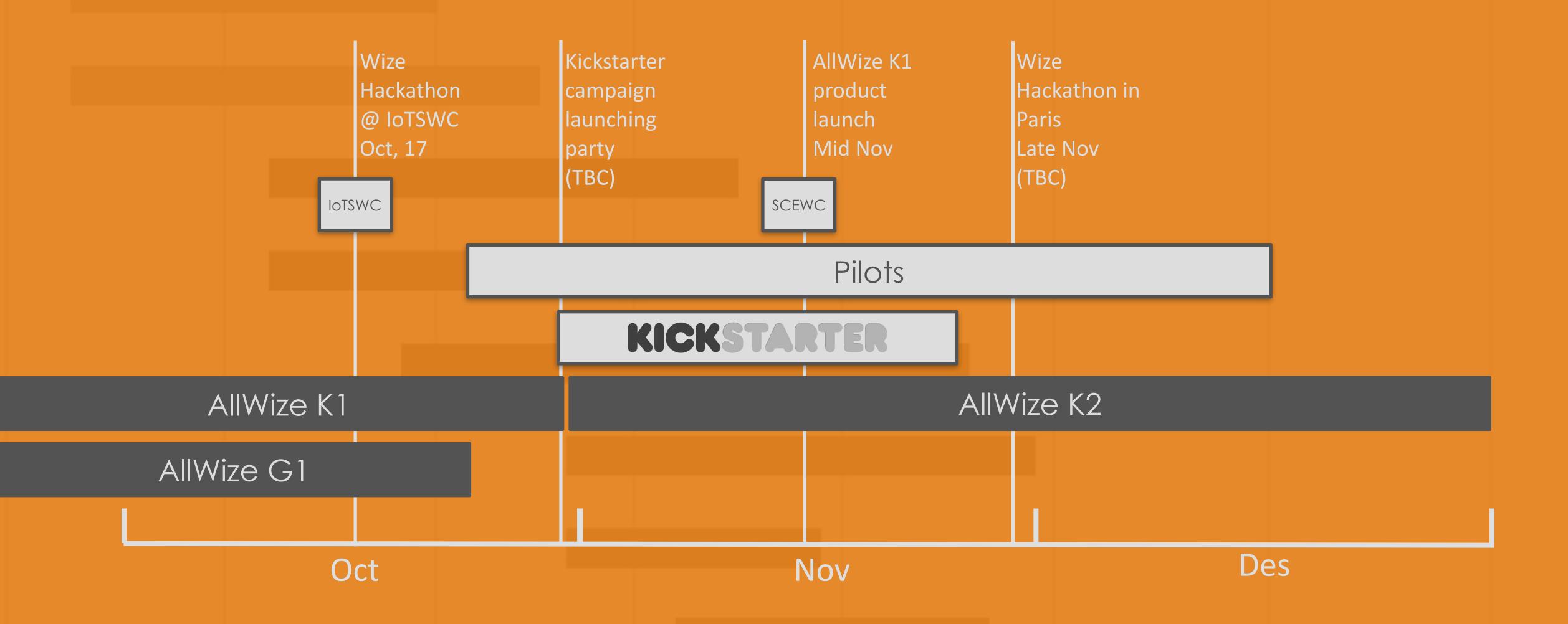




K1+G1 Q4 2018 **K2**Q1 2019

K3 H2 2019

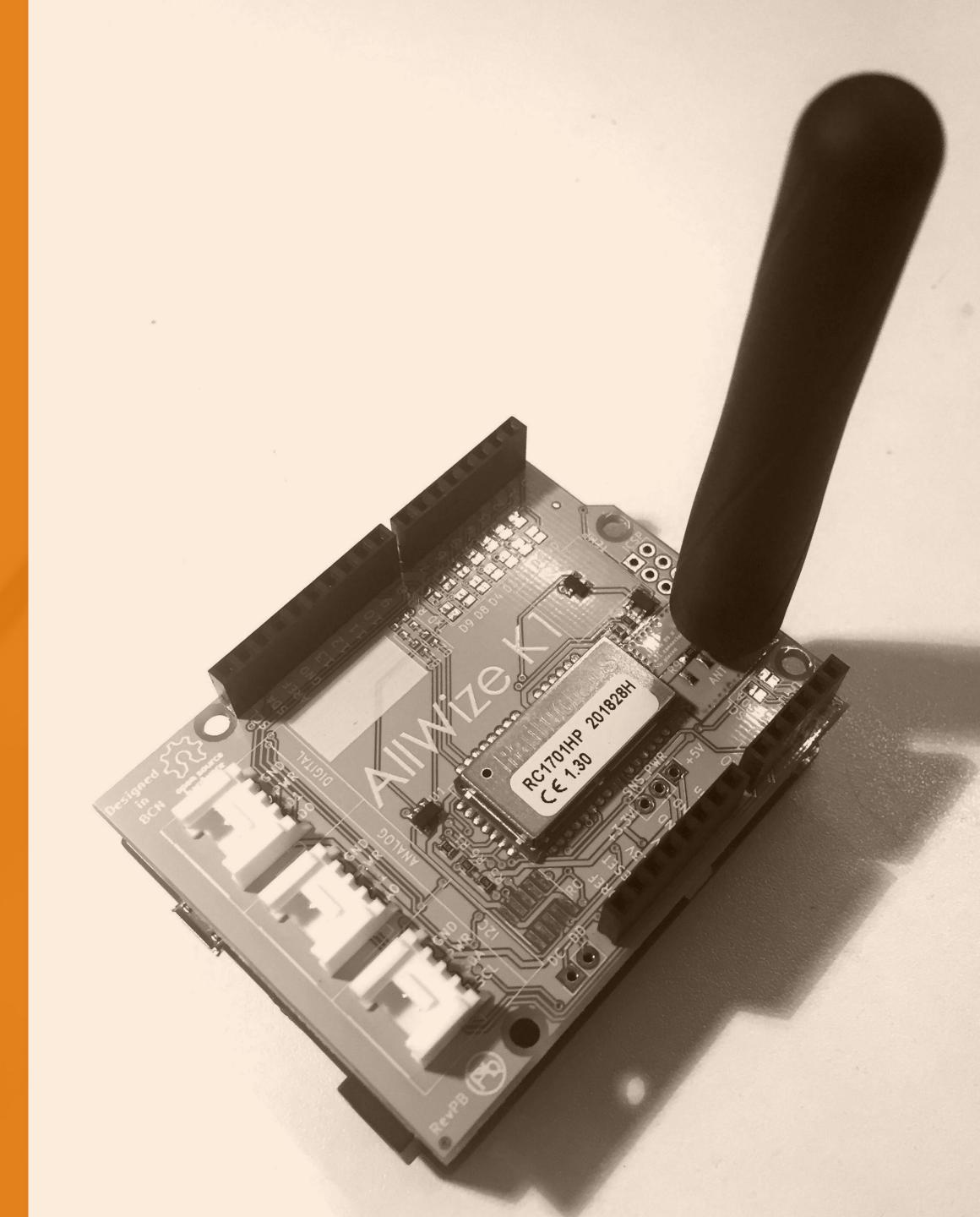
Roadmap - events & more



Presenting Allwize K1

Arduino Shield with Wize protocol

- Wize radio transceiver embedded
- SMA connector for antena or pigtail
- Arduino UNO form factor (used by several other Arduino boards)
- Temperature sensor included + 3 Grove connectors for other sensors and actuators
- ▶ Low-cost gateway implementation



Why ArduinoTM

- 1. Open-source
- 2. Community
- 3. Easy to build DIY
- 4. WE ARE MAKERS:)



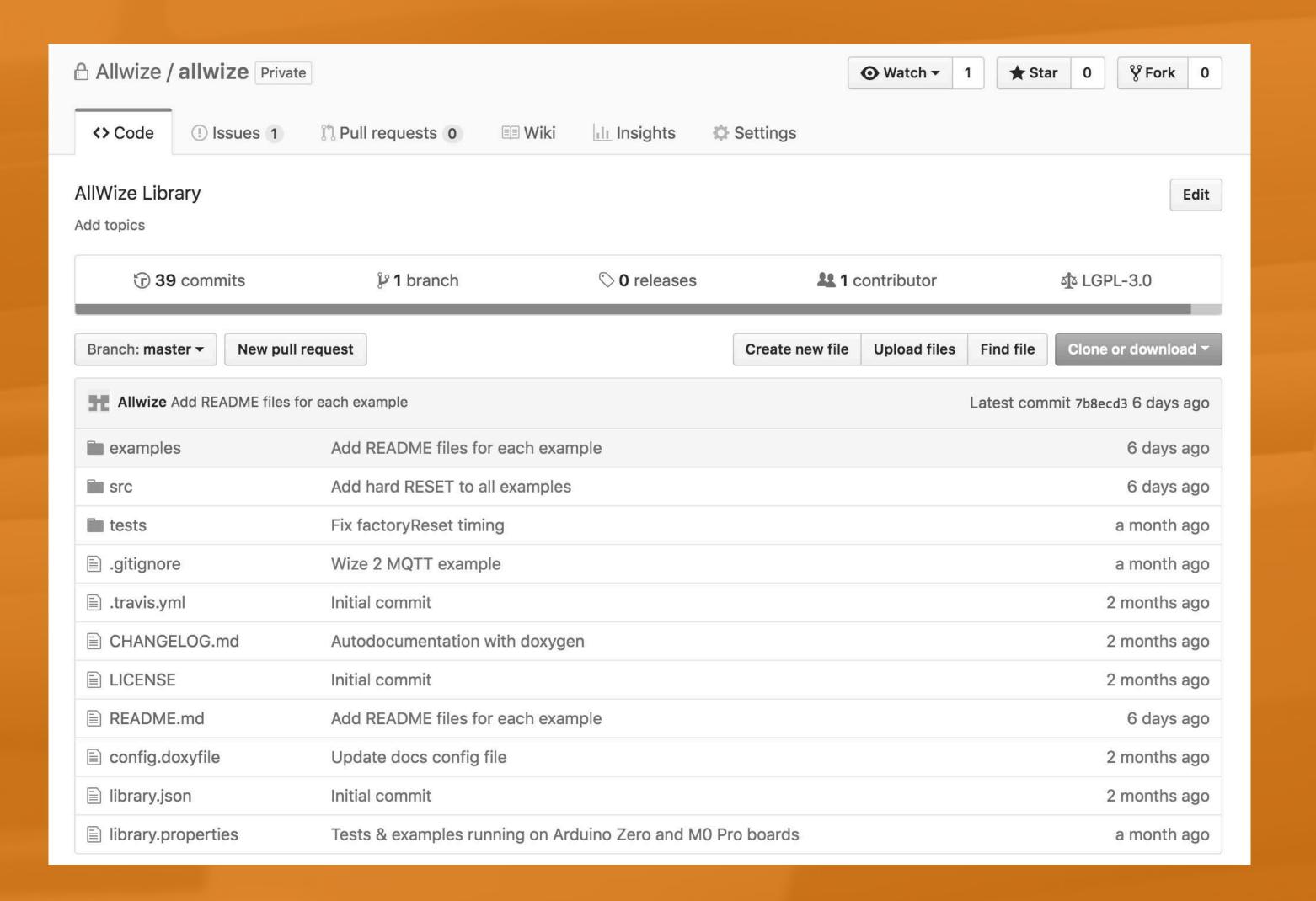
IDE integration

```
sketch_dec07a | Arduino 1.8.3
File Edit Sketch Tools Help
  sketch_dec07a
void setup() {
 // put your setup code here, to run once:
void loop() {
 // put your main code here, to run repeatedly:
                                                                      Arduino/Genuino Uno on COM3
```

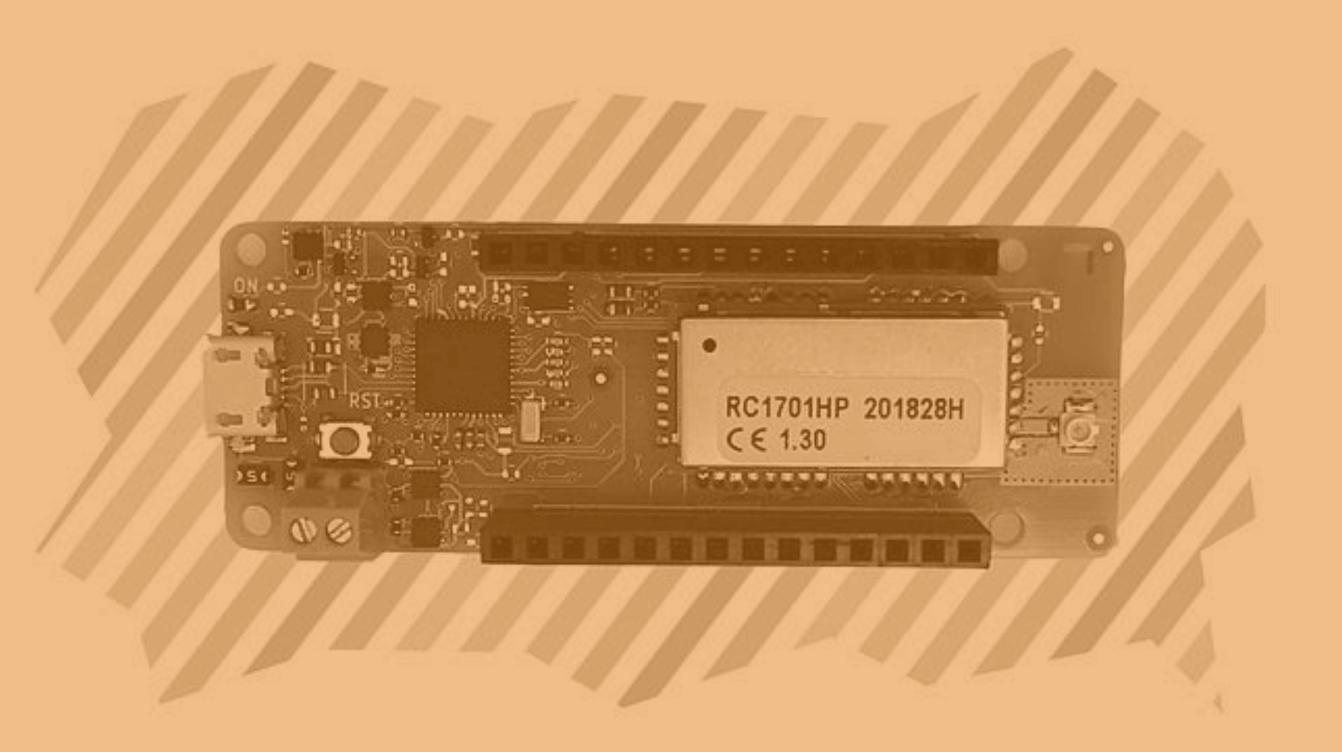
```
000
                                              - main.cpp — ~/Desktop/Old/walkie-talkie
  walkie-talkie
    lib
    src src
                                     bool role = 0;
    platformio.ini
                                     void setup() {
                                       Serial.begin(115200);
                                       Serial.println(F("RF24/examples/GettingStarted"));
                                       Serial.println(F("*** PRESS 'T' to begin transmitting to the other n
                                       radio.begin();
                                      // Set the PA Level low to prevent power supply related issues since.
                                      // getting_started sketch, and the likelihood of close proximity of t
                                       radio.setPALevel(RF24_PA_LOW);
                                       if(radioNumber){
                                         radio.openWritingPipe(addresses[1]);
                                         radio.openReadingPipe(1,addresses[0]);
                                       }else{
                                         radio.openWritingPipe(addresses[0]);
                                         radio.openReadingPipe(1,addresses[1]);
                                                                               • LF UTF-8 C++ $\mathcal{P}$ master ●+145 🗇 1 update 🌣
PIO Build + x src/main.cpp 0 0 0 31:78
```

PlatformIO

GitHub



AllWize Pre-campaign http://allwize.io/kickstarter



Introducing the AllWize K2

- Connect objects to the brand new Wize technology.
- Multiple sensors to monitor movements, humidity, gas, etc.
- Open source and open hardware, based on Arduino architecture.
- A simple back-end solution to monitor anything you want.
- Extremely low power consumption, up to 20 years battery life.
- Long distance signal, up to 20 km.
- Deep indoor radio penetration.
- Flexible solution (no telco lock in, no chip vendor, self-operated).

Get informed

Be the first to get the AllWize K2!

CONNECT PACK TO TRY



CONNECT PACK TO PLAY





GARDENING PACK TO TRY



EARL

BIRD

AIR CHECK PACK TO TRY



GARDENING PACK TO PLAY



AIR CHECK PACK TO PLAY



Get an early bird pack

Wize hackathon agenda

- 9:00 10:00 >>> Registration and introductions to the hackathon
- 10:00 -10:30 >>> Coffee break and team up!
- 10:00 13:00 >>> Each team creates an application made possible with AllWize
- 13:00 14:00 >>> Lunch window
- 14:00 17:00 >>> Finishing of applications
- 17:00 18:00 >>> Prepare your pitch!
- 18:00 18:30 >>> Pitch competition
- 18:30 19:00 >>> Prize giving & networking

AllWize team today



Alice - Organisation and coordination



Xose - MC and technical support



Marc - Technical support

Competition jury



Patrick Cazein

Product line Manager at Sagemcom

Member of the Wize Alliance's Marketing
and Communication Committee



Alain Désandré
Head of Smart Metering at GRDF
Head of Technical Committee of the
Wize alliance



Arnaud Philibert

Business developer at Edel Energy

Member of the Wize Alliance



David HernándezCEO of Aqualogy - Suez Group
Member of the Wize alliance