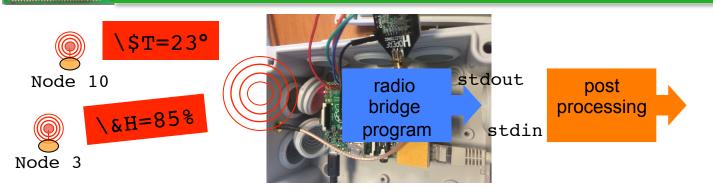
OG RECEIVED MESSAGES



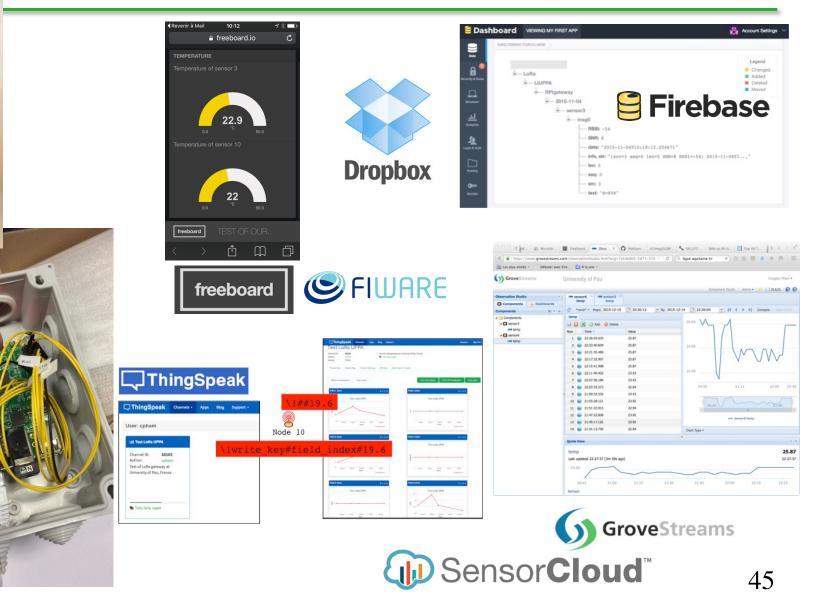
```
> sudo ./lora gateway | python ./post processing gw.py
Power ON: state 0
LoRa mode: 4
Setting mode: state 0
Channel CH 10 868: state 0
                                                  \$ or \& before the data indicates that the
Power M: state 0
                                                  data should be logged on a file or server. It is
Get Preamble Length: state 0
                                                  up to the end-device to decide which option
Preamble Length: 8
LoRa addr 1 : state 0
SX1272/76 configured as LR-BS. Waiting RF input for transparent RF-serial bridge
--- rxlora. dst=1 type=0x10 src=10 seq=0 len=5 SNR=9 RSSIpkt=-54
Rcv ctrl packet info 1,16,10,0,5,9,-54
(dst=1 type=0x10 src=10 seg=0 len=5 SNR=9 RSSI=-54)
rcv msg to log (\$) on dropbox : T=23°
--- rxlora. dst=1 type=0x10 src=3 seq=0 len=5 SNR=8 RSSIpkt=-54
Rcv ctrl packet info 1,16,3,0,5,8,-54
(dst=1 type=0x10 src=3 seq=0 len=5 SNR=8 RSSI=-54)
rcv msg to log (\&) on firebase : H=85%
```

TEMPLATES FOR VARIOUS

INTERNET

CLOUDS

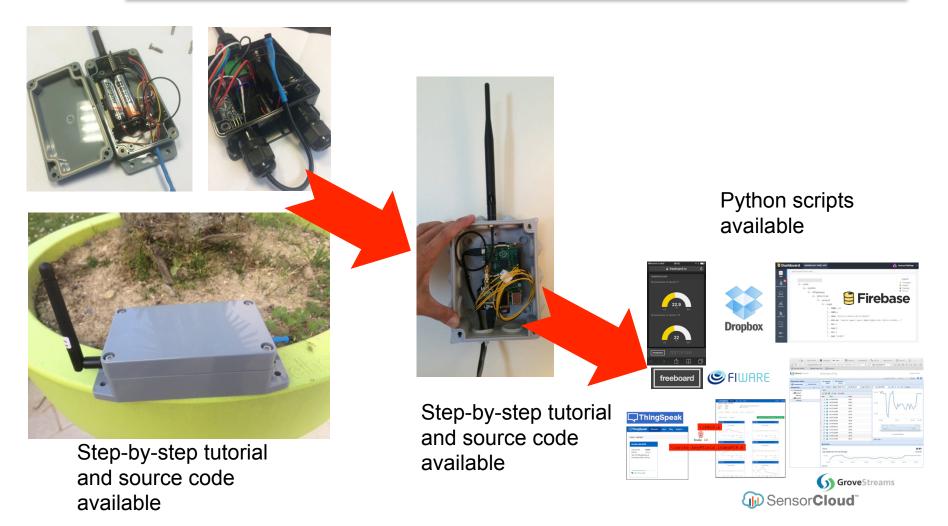






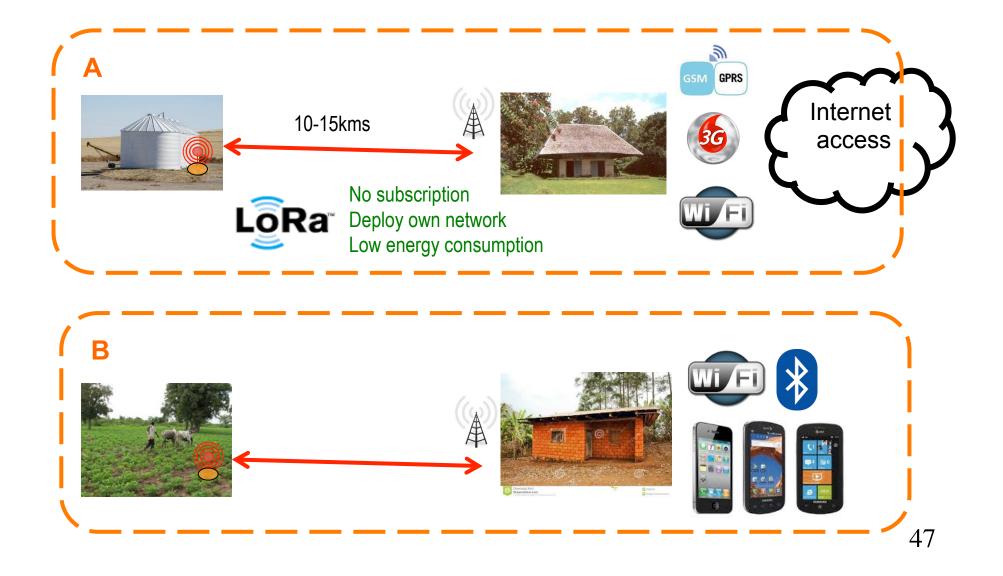
DO IT YOURSELF!





https://github.com/CongducPham/LowCostLoRaGw







STANDALONE GATEWAY



💻 node 1 📃 node 8

C

6



range F 🖃 * N 🖎 🎯 😚 📶 🖬 10:39 Iluetooth_raspi Creating .csv file with the data received File 17-05-2016_10h39m36s.csv created and saved in the folder /storage/emulated/0/Raspberry_local_data

Retrieve data in a

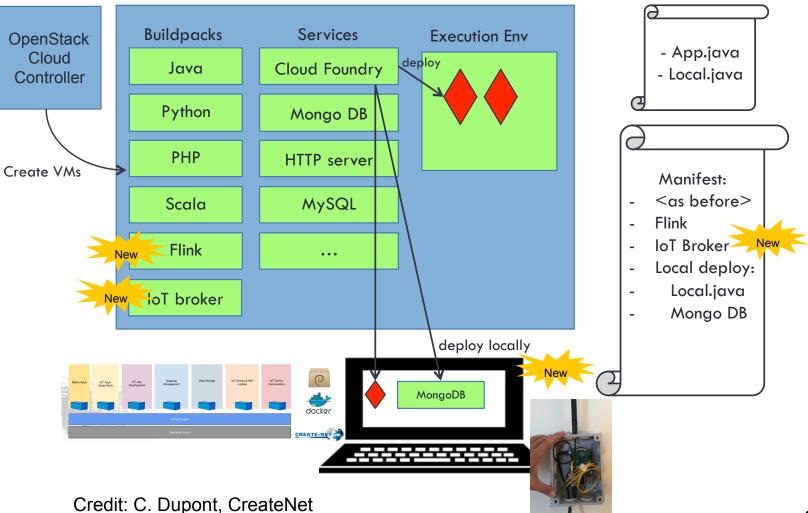
csv file

Display data

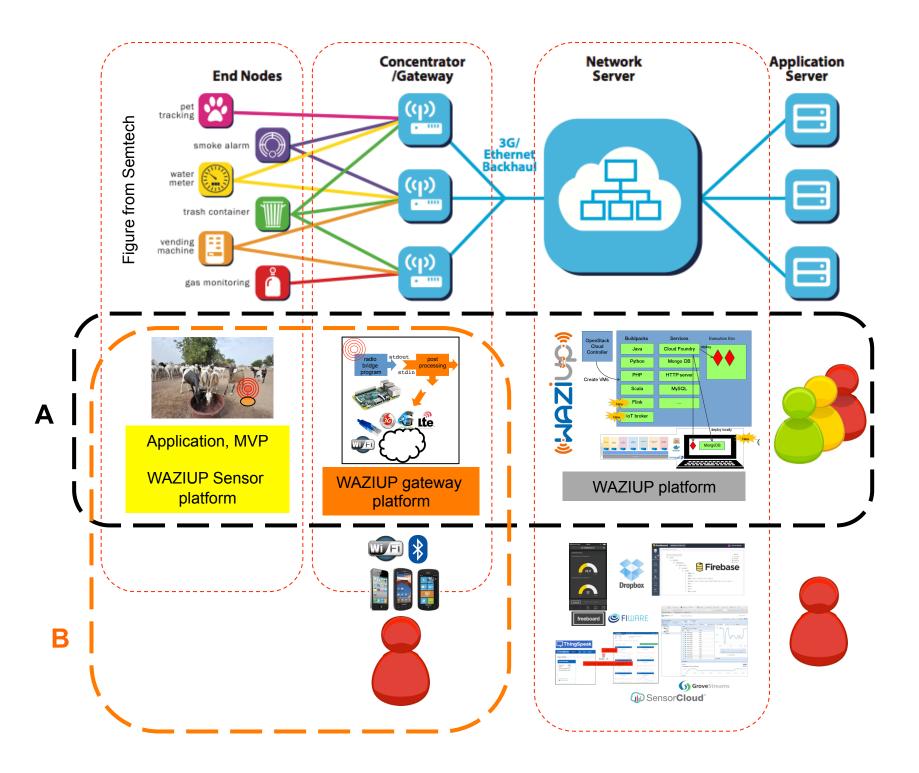
08:30 08:35 08:40 08:45 08:50 08:55

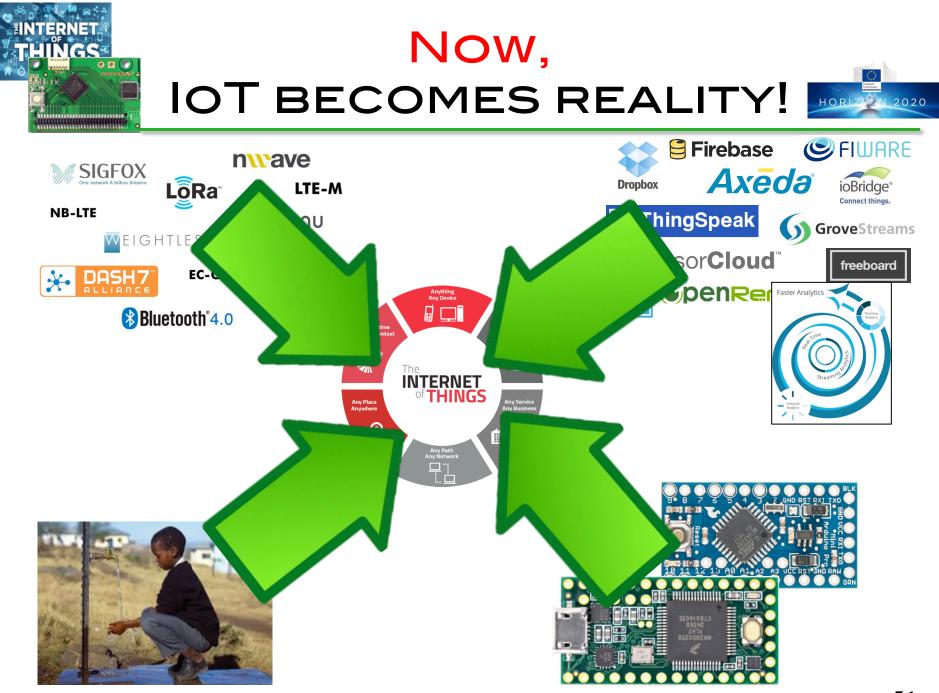


LOCAL DATA ANALYTICS



HORIZ N 2020







USE CASE: FISH POND MONITORING



Farmerline in Ghana

Water temperature and dissolved oxygen for monitoring fish ponds





OUT-OF-THE-BOX!







THINGS WE ARE DOING FOR RESEARCH



To leverage the « single » connection gateway approach

Smarter radio channel access mechanism

Image sensor

Transfer low-resolution images for context-awareness applications

To handle larger amount of data (image)

Quality of Service mechanism

Activity sharing mechanism

The proposed framework can be used to set-up your own LoRa test-bed for implementing advanced mechanisms



ADDED-VALUE



INVOLVING INNOVATION HUBS/STAKEHOLDERS



- Close to dev & entrepreneurs communities
- Have their **own community and com channels** (community builders & catalysts)
- Used to organizing disruptive events
- On the field (know the targets personaly & the market)
- Used to empowering startups & businesses

(coaching, business dev, incubation, acceleration...)

• Affiliated to **international networks** that could be involved in dissemination or Business dev (Afrilabs)







Credit: C. Vavasseur, CTIC Dakar



COMMUNITY ENGAGEMENT

	Hackathons	Innovation Lab Weeks	Startup weekends	Webinars	Conferences	Workshop	Participation to international events	Presentation events	Publications
Scientific researchers									
Developers									
Entrepreneurs									
End-users									
Standardisatio n and policy makers									V
Application industries									
Investors								V	

Credit: C. Vavasseur, CTIC Dakar

BUILDING WAZIUP COMMUNITY



Workshop at the European Conference on Networks & Cmmunications (Greece, CNET)



Launch event (Ghana, iSpace)



Launch event (Senegal, CTIC Dakar)



IoTWeek2016 (Belgrade, EGM)

loTBigData2016 (Italy, EGM)





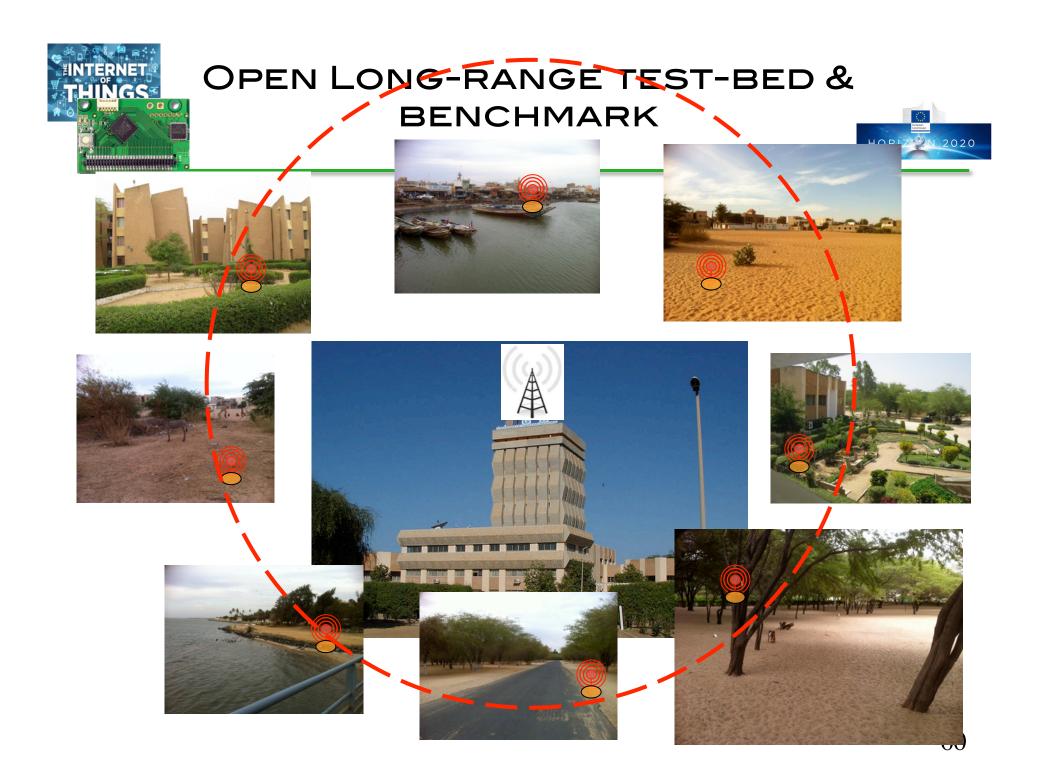


IoTCareConference (Budapest, CNET)





Credit: C. Vavasseur, CTIC Dakar Workshop at the RESSACS 2016 (France, UPPA) 59





TUTORIALS/RESOURCES







Than keep in touch



Carine VAVASSEUR

<5

Communication & Event Manager Carine.vavasseur@cticdakar.com

> www.cticdakar.com contact@cticdakar.com





facebook.com/waziuploT

BIG DAT

WAZ



twitter.com/waziuploT



linkedin.com/groups/8156933



github.com/waziup