



DISRUPTIVE  
INTERNET  
OF THINGS  
APPLICATIONS  
IN AFRICA

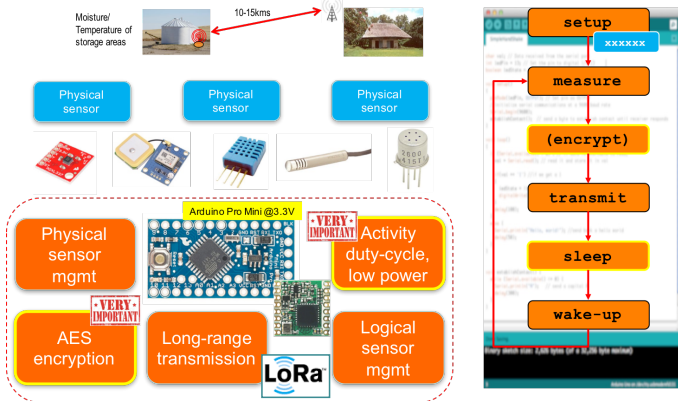


Poster design: Prof. Congduc Pham

# DIY LOW-COST, LONG-RANGE IOT DEVICE

Software building blocks handle most of IoT issues: communication, encryption, energy management, ...

<https://github.com/CongducPham/LowCostLoRaGw>



## Low-cost integration with simple PCB

1.5€

4€

1€

1-click order

2500mAh

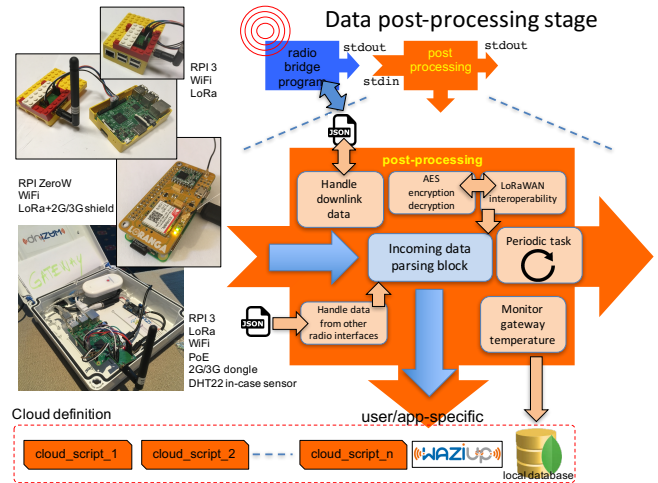
Can run for more than 2 years on 2 AA batteries when sending 1 measure /hour

Less than 10€/device

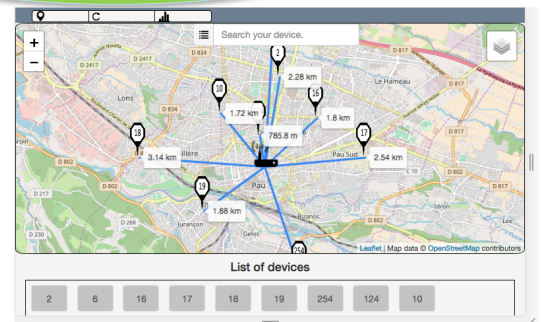
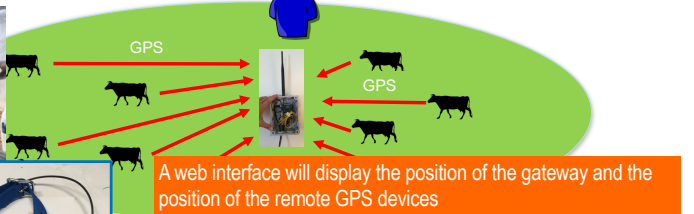
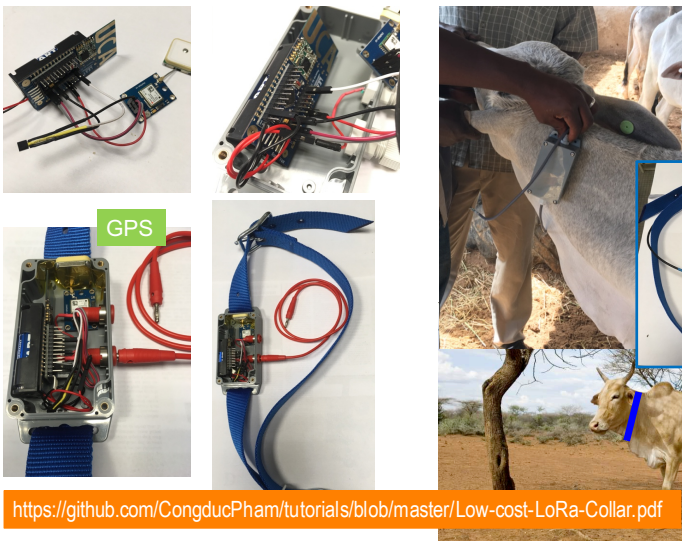
## Use-cases deployed in WAZIUP



## The low-cost, DIY, versatile IoT gateway



## Device customization, integration and deployment. Ex: GPS collar



<https://github.com/CongducPham/tutorials/blob/master/Low-cost-LoRa-Collar.pdf>



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