

### The SMART HYBRID POWER UNIT:

The new effective solution to power off-grid telecom sites.







Sarkis Armoudian – Guillaume Jullien de Pommerol 22-23 October 2015, TBB Berlin







## A specific power context in emerging countries

√73% diesel generator

√75% failures due to power.

**✓** 1<sup>st</sup> Operational Expense

= Power

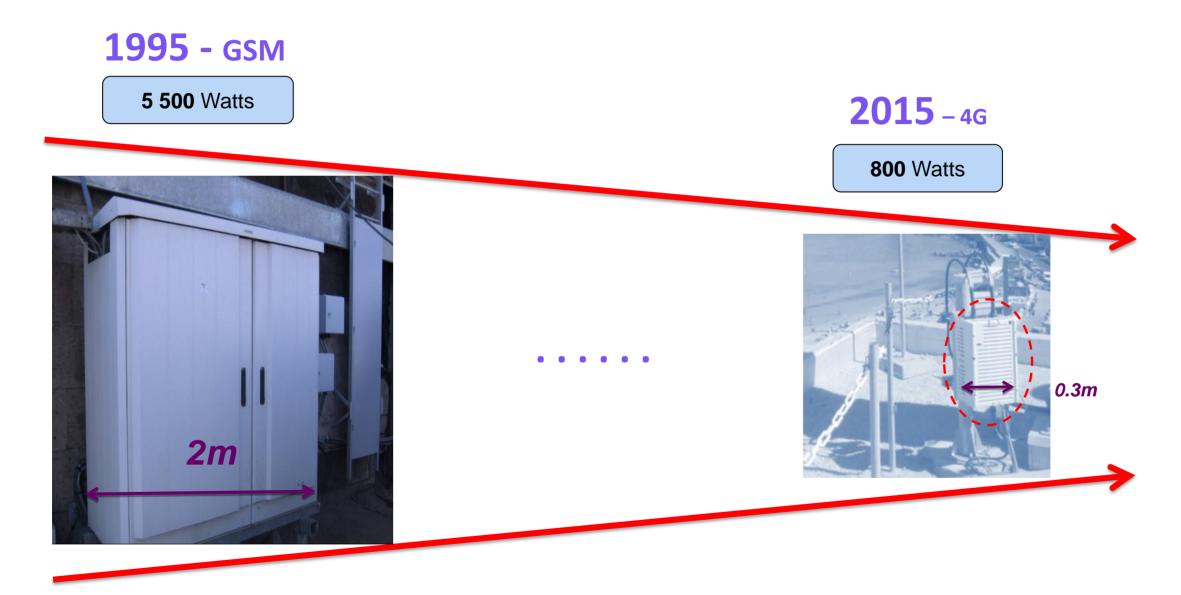
#### → NEEDS :

- DECREASE OPERATIONAL COSTS
- and SECURE POWER SOURCE





## Evolution of telecom equipment



→ Power consumption divided by 7.





### Existing solutions:

**Diesel generators** 



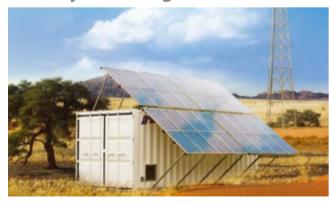


100% solar solution





**Hybrid integrated solution** 

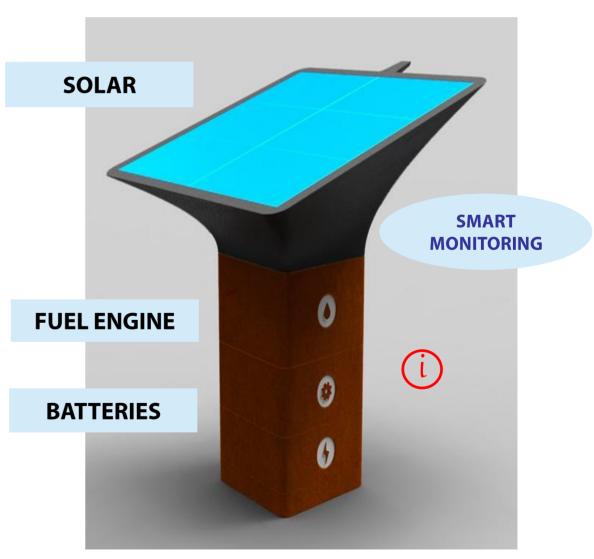




CYSALYS has developed the

#### SMART HYBRID POWER UNIT

New equipment generation consumption < 1500 Watts



... not really adapted any more





## The targeted market

#### **AFRICA + MIDDLE EAST**

**Existing telecom sites** 

sites < 1500 Watts

Diesel generator life time



40 000 /year

New sites to be equipped



8 000 /year

Total: 48 000 units/year 1 billion €uros potential market

#### **AFRICA:**

53 countries

146 mobile operators













**Tower companies**IHS, ELIOS, Eaton, ...





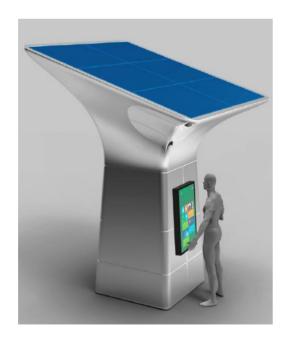
## Next steps

2015 2016 2017-2018-2019

- POC OK + lab prototype
- 1st patent filled
- 1<sup>st</sup> funding round finalized
- Real scale prototype
  - 1<sup>st</sup> field pilot installed (3 real customers)
- → Business development commercial acceleration (new customers)
- → Commercial growth
- Product industrialization

TTM version

- 2<sup>nd</sup> funding round (1 M€)





Number of SHP Units sold





## An experimented team with complementary skills

#### **Sarkis Armoudian**

expert in mobile network deployment

Founder,

CEO of CYSALYS Technologies.





## **Guillaume Jullien De Pommerol**

expert in broadcast network deployment and operations

Co-founder,

CTO of CYSALYS Technologies.



**Qowisio team** 

Participation in the capital of Cysalys Technologies,

represented by Cyrille Le Floch, Co-founder

29 customers in 14 countries

Hiring:

R&D engineer

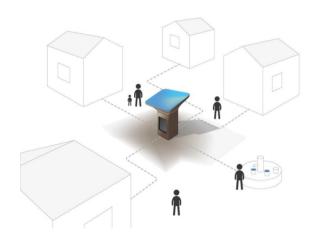


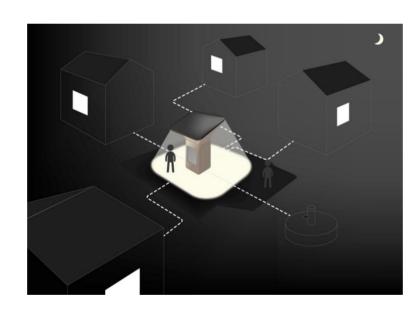


Business development



# Thank you Any questions?









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