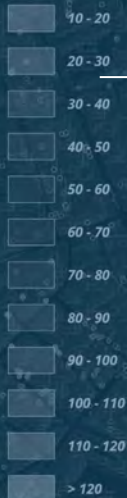




KUDZU

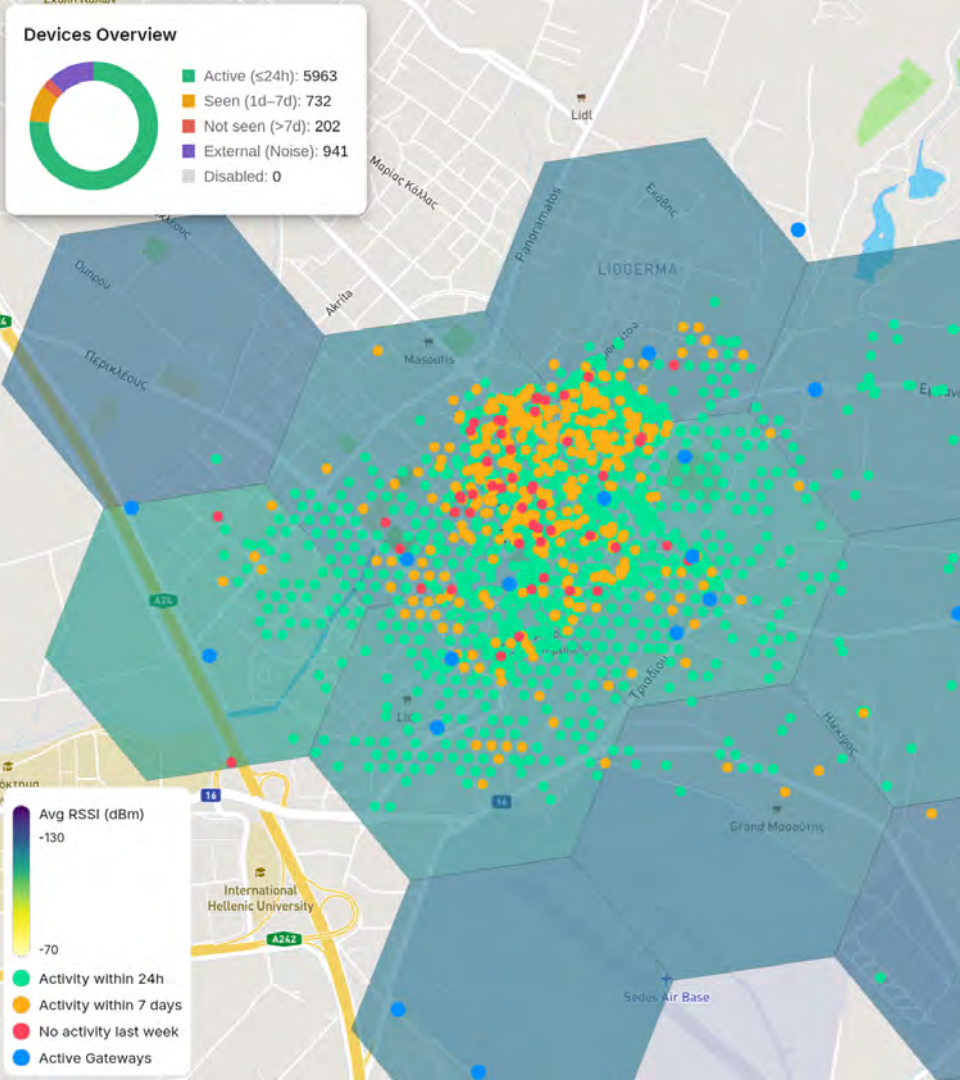
CONNECTIVITY REDEFINED



The moments that change the field

- Three turning points
- New transmission technologies
- Smart Cities
- AI & Agents

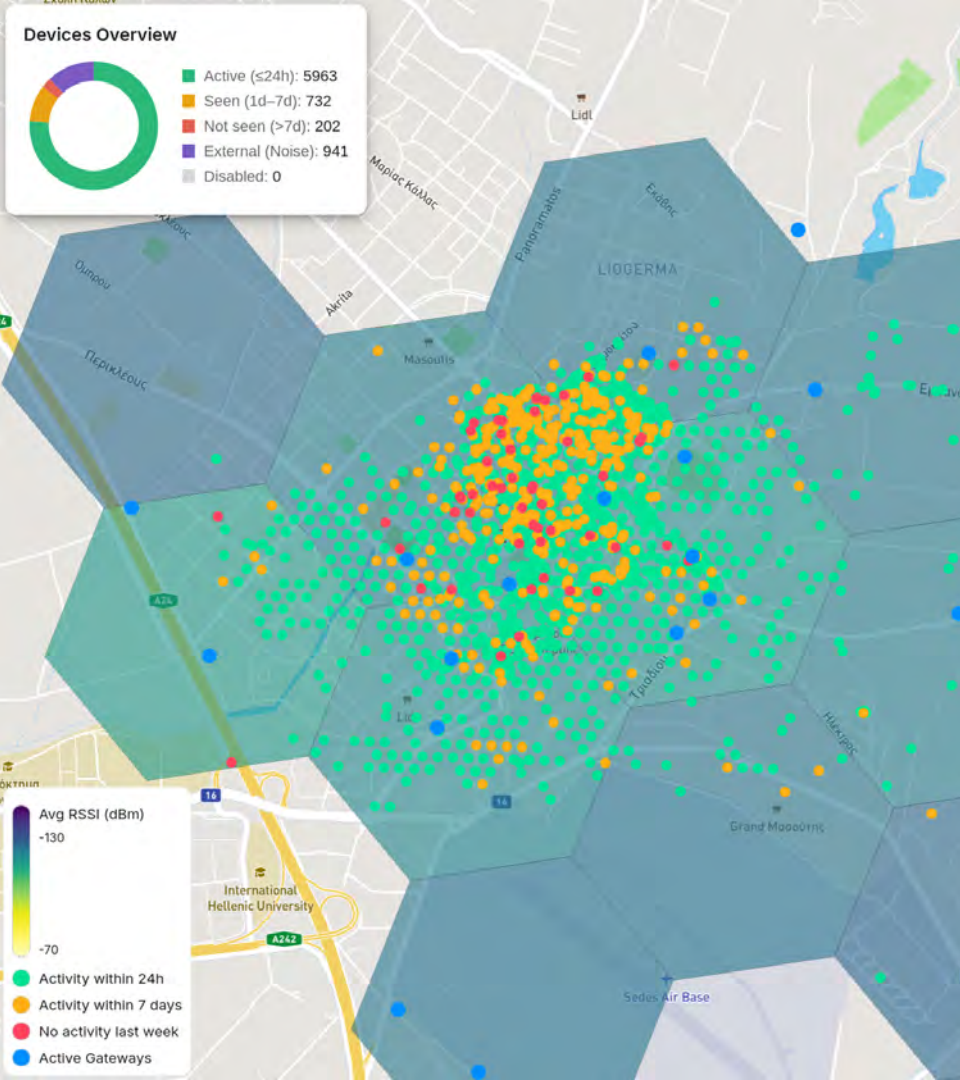




- Measure
- Transmit
- Run for 10 years
- Across kilometers

The impossible belief





- LoRa
- Long range & Low power
- **Real infrastructure**

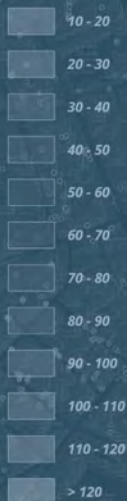
The missing piece



RSSI

serres-017

Band 1 (Gray)



- Smart meters
- Street lights
- **City-wide sensing**

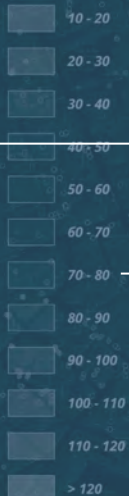
From pilots to **scale**



RSSI

serres-017

Band 1 (Gray)



LoRaWAN became infrastructure

130M+ devices
25% annual growth
Still version 1



Scale

revealed the problems

Coverage gaps

Gateway failures


Invisible degradation



Kudzu's first answer

- Design networks
- Monitor quality
- Recommend actions

- RSSI measurements are better than expected
- No installed gateways in this cell
- All devices are seen
- No planned gateways in this cell



Then smart cities hit the wall

Pilots that never scale

Projects that work once

Innovation without operation

- RSSI measurements are better than expected
- No installed gateways in this cell
- All devices are seen
- No planned gateways in this cell



The real problem was not technical

Kudzu sees signal loss

The city sees citizen problems

- RSSI measurements are better than expected
- No installed gateways in this cell
- All devices are seen
- No planned gateways in this cell





Weak Signal
No bin update
Silent meter

Unsafe street
Bad smell
Hidden leak

Translate technology into impact



A new definition of reliability

Not packets

Not dashboards

Citizen outcomes



An aerial photograph of a village built on a rocky, hilly landscape. The buildings are white with blue accents. The scene is bathed in the warm, golden light of sunset or sunrise, with long shadows and a clear blue sky. The hills are covered in sparse, dry vegetation and large rocks.

AI changes the abstraction level

From **systems**

To **reasoning** mechanisms

Dynamic quality for dynamic cities

Water metering \neq parking
Criticality changes

The network must adapt



What Kudzu does now

- Design **adaptive** networks
- Monitor **operational** quality
- Turn **issues** into **action**



Smart cities need **smart infrastructure**

Infrastructure must **prove it works**





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