



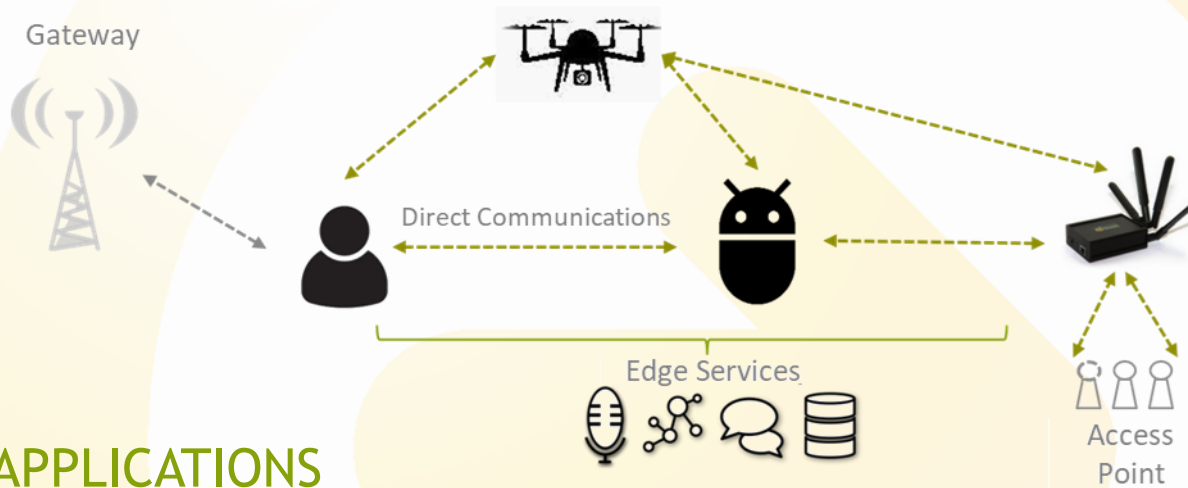
# Green PI

## Market Applications

*By Green Communications*

## CONCEPT

Green PI is a mobile and autonomous tactical communication network that connects people, drones, robots and vehicles with a dynamic and self-organized network. Green PI provides ground forces with essential applications and services hosted and distributed at the edge, close to users, so they can communicate with no need for external infrastructure.



✓ EMBEDDED

✓ NO POINT OF FAILURE

## APPLICATIONS



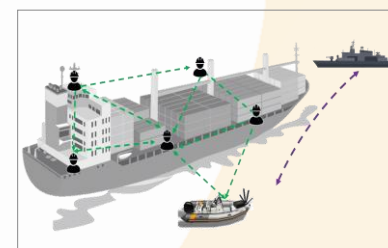
Mobile Radio



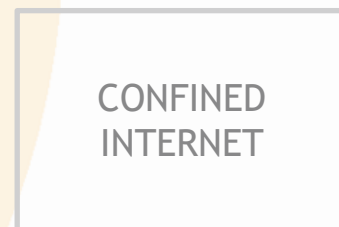
Critical Network



Swarm of Drones



Tactical Cell Extension



Sensitive Sites

# Public Internet

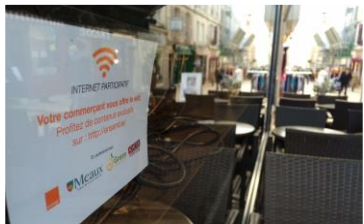
## CONCEPT

Green PI is a High-Density (HD) connectivity solution with Quality of Experience (QoE) for operators, large public venues, cities and events.

Green PI plug & play network creates connectivity on the fly, or it can extend and densify an existing network. Green PI replaces extensive cabling of traditional solutions by wireless Peer-to-Peer (P2P) connections to make Internet infrastructure deployment easy and affordable.

Contents, applications and services can be hosted locally on Green PI's edge cloud in order to preserve the Internet bandwidth when a large number of users connect. Edge services are also resilient and remain available in case of Internet shutdown.

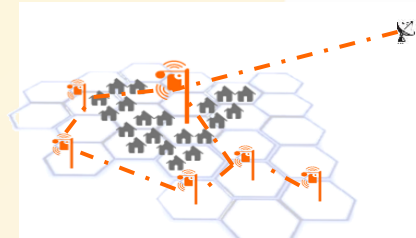
## APPLICATIONS



Cities'  
Public Internet



High-Density (HD)  
Internet Infrastructure



Operator Network  
Densification



Temporary Internet

- ✓ EASY TO DEPLOY
- ✓ HIGH-DENSITY COMPLIANT
- ✓ AFFORDABLE
- ✓ LOW CARBON IMPACT

# Internet of Things (IoT)

## CONCEPT

Green PI relocates and distributes the IoT services near the data source to increase the speed, mobility, resilience and sovereignty of massive, mobile and critical IoT applications.

- Green PI offers high bandwidth connectivity for massive IoT and for video streams;
- Routers can be solar or battery powered to create an autonomous IoT infrastructure for constrained environments;
- The Start & Stop technology turns ON/OFF the network components on demand to increase the system lifetime;
- Intelligence can be embedded onto Green PI's edge cloud to process data at source.



**SCALABLE**



**MOBILE**



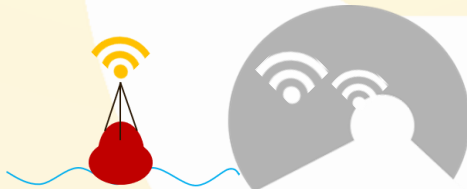
**HIGH-CAPACITY**



**LOW POWER**

## APPLICATIONS

Example: A set of sensors and cameras are coupled with the Green PI network for physical detection (fire, smoke, pollution, crime...). When an anomaly is detected by the sensor. Green PI network wakes-up to provide a high-bandwidth support for video surveillance.



IoT in Constrained Environments



Massive IoT



Internet of Moving Things

# Transports & Logistics

## CONCEPT

Green PI connects fleets of vehicles, drones and robots with a high-throughput dynamic network and provides them with a shared edge-based intelligence for V2X, swarming, platooning, and on-board services among other applications.

Green PI creates direct communication channels among vehicles (cars, trucks, drones, robots, etc.), infrastructure, users, etc. Green PI's communication network is dynamic, self-configuring and high-bandwidth.

Green PI users share a common edge cloud with edge-based content, applications and services (e.g., Chat, Voice & Video, Storage, etc.). These edge-based services can evolve independently from a centralized cloud as well as interact with it.



**FAST**



**SCALABLE**



**AUTONOMOUS**



**MOBILE**

## APPLICATIONS



V2X



On-Board Services



Fleet of Drones & Robots



# Cyber Resilience

## CONCEPT

Cyber resilience is the ability to continue operational activities even though the company has suffered a cyber attack. An attack can have many sources such as a breach in the organization's IT infrastructure, the deployment of new IoT, and third parties.

Green PI is an alternative, autonomous and secure digital infrastructure that can be deployed on the fly to rapidly restore critical services and work in degraded mode after a cyber attack. Green PI can also be used as an isolated IT infrastructure to discover innovative IT solutions before their Integration to the main IT infrastructure.

A set of IoE platforms create an autonomous digital infrastructure with access to Green PI's native digital services (messaging, file sharing, audio chat) and to specific corporate services.



**FAST**



**SCALABLE**



**AUTONOMOUS**



**MOBILE**

## APPLICATIONS



Finance



Healthcare



Industry



Business and Administrations

# They Trust Us



## GREEN COMMUNICATIONS

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<http://www.green-communications.fr>

**ABOUT US:** Green Communications is an innovative company created in 2010 with a unique expertise in wireless networks and distributed systems. The company is strongly engaged in answering the challenge of Internet mobility, saturation and energy footprint. Therefore, we created Green PI, a low carbon impact Internet and edge cloud platform providing fast and resilient services for IoT, mobility and critical applications. Green PI is the result of 20 years of research and development and a technology transfer from top French universities (Sorbonne University and Paris Saclay) and the CNRS.