



**Industrial emissions monitoring:  
“Trustable and reliable certified  
IoT-based emissions monitoring  
via blockchain”**

Murcia, Spain HQ  
Established in 2013



## Meet the team



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CEO and R&D Director



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Fullstack developer &  
Blockchain expert



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CTIO / Chemical engineer

## The company

HOPU brings innovation through the latest technologies, such as AI, blockchain, IoT and Data-Quality. We are there to support decisions for environmental assessment and digital transformation through data-powered solutions with dashboards, decision support tools and our genuine IoT devices to monitor air quality (Smart Spot). HOPU promotes smart platforms, such as FIWARE, and added-value via data quality, cost-effective solutions and services to monitor gases, toxic substances, odours (VOC) and emissions.

## The Prototype

[HOPU] has developed the following prototype

### BPF & blockchain

The prototype developed consist of an emissions monitoring system, conceived as a Policy Based Solution (PBF) via Blockchain, certified IoT for indoor air quality monitoring, other heterogeneous data sources and visualization tools ([dashboard example](#)). The approach selected for the prototype is to handle authentication and authorization of carbon emissions through PBF, enabling trustable and reliable data. Customers will acquire an evidence-based value chain of their emissions: monitoring - certification - recording and regulatory compliance - compensation / monetization.

The main features of the solution are: Certified measurement via IoT indoor monitoring devices, Real-time emissions monitoring via dashboards, Registration and management of emissions via Blockchain (digitization of industrial processes and certificates issuance), Consulting services for assisting customers / users guidance (optional added value) and Access/ connection to third platforms to finally obtain sustainable tokens (monetization of carbon emissions reduction)

The business development for generating recurring revenue from several income sources is based on a B2C Business model supplying companies in the industry sector via direct sales and marketplaces, complemented with B2B to address market expansion via distributors/partners that integrate our solution as part of their offer.

The market validation will be performed via pilots with early adopters and interviews with potential customers, who will finally assess the solution and provide their feedback.

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