OPENFIELD

DATA SCIENCE PLATFORM FOR SMART BUILDINGS

December 2019

OUR PLATFORM LEVERAGES YOUR BUILDING DATA TO PROVIDE NEW SERVICES

COLLECT & PROCESS

STORE

EXPLORE & ANALYZE

EXPOSE

5 key use cases addressed :

Space occupancy and usage of your assets

Security and flow management

Operations optimization

Comfort and well being

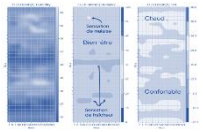
Energy performance

WE CORRELATE VARIOUS DATA SOURCES AND PROCESS ADVANCED ALGORITHMS TO MAKE YOUR BUILDING BECOME SMART

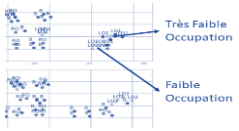
Sample use cases :

- **Restaurant / Cafeteria or Parking presence Prediction**

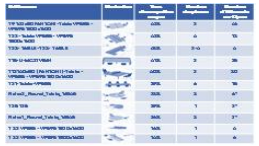
- **Comfort Indexes processing**



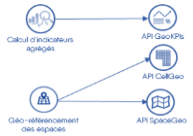
- **Space occupancy analytics, automatic room release and room insights**



- **Space Design & Furnitures, Relocation analytics / Spot finder**

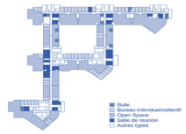


- **Data-sharing between promoter / lessor / lessees**

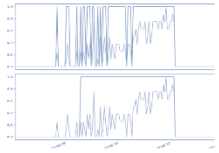


Sample processing :

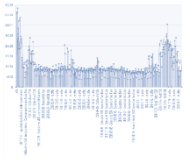
- **Multi-source, temporal and spatial Analytics**



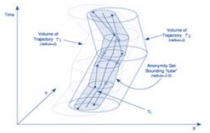
- **Data cleaning and Data enrichment processing**



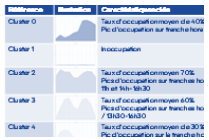
- **BIM management and Open data integration**



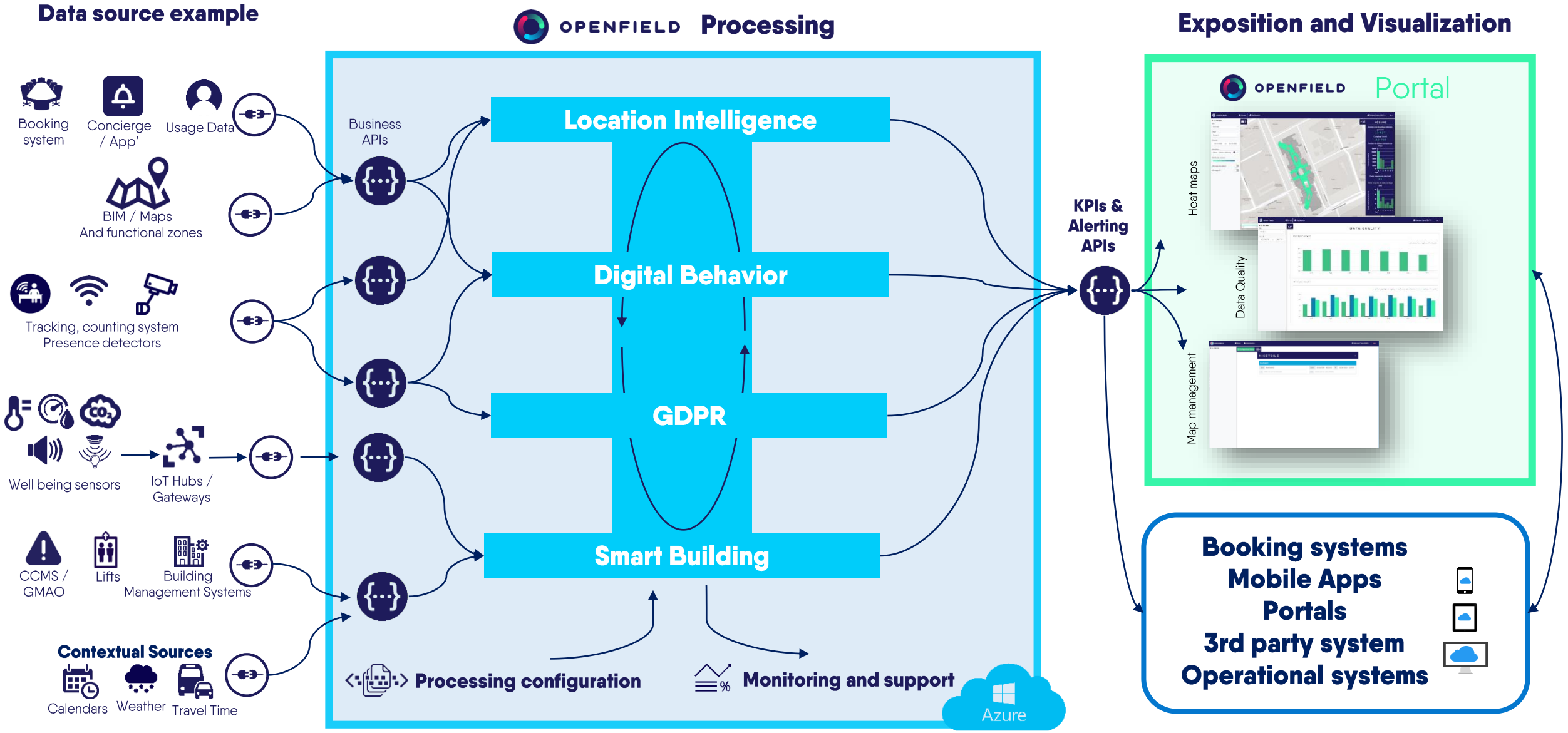
- **Advanced anonymization processing**



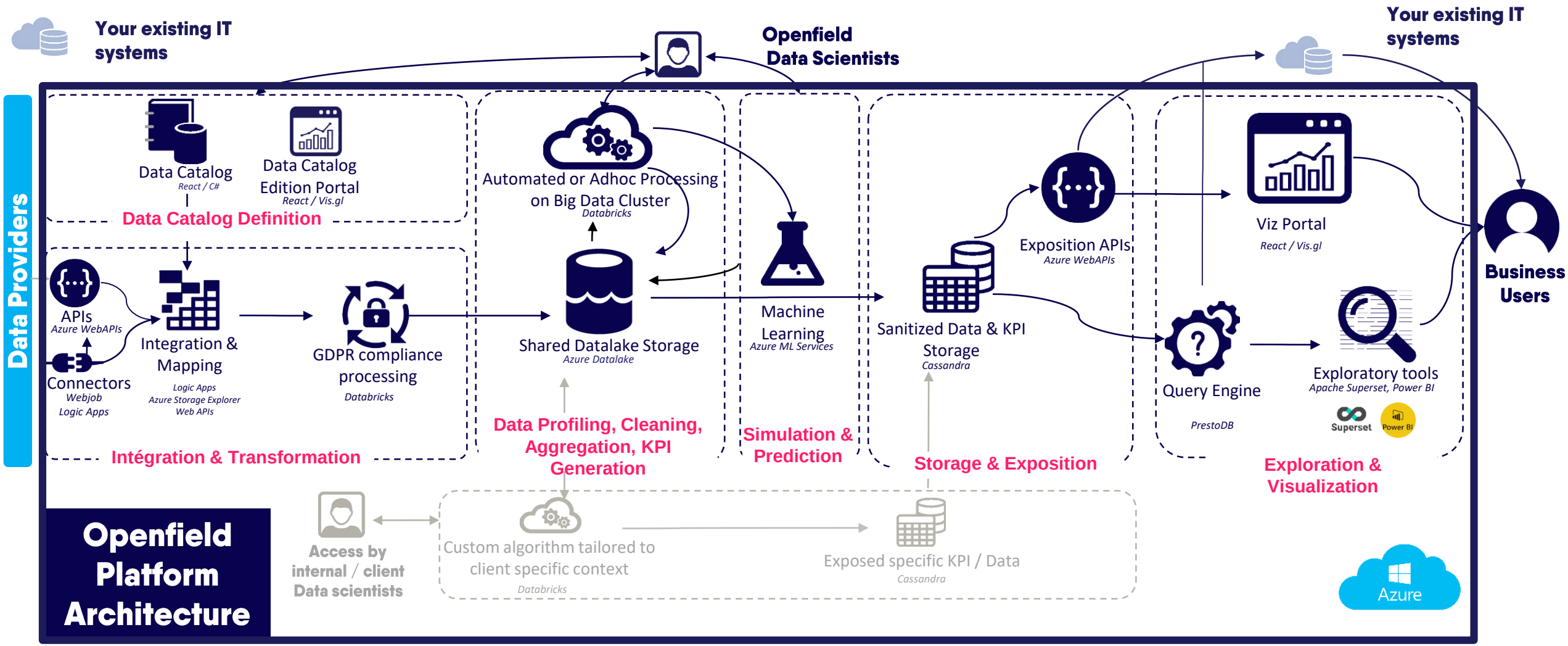
- **Spatiotemporal clusturing**



Logical Dataflow : We integrate in your existing Ecosystem

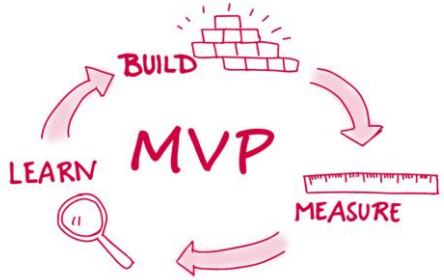


We provide a Robust, flexible and Open architecture, tailored for:
Data Science Studies AND Industrialized processing

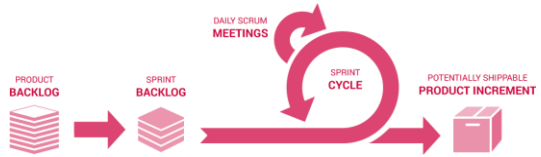


AN AGILE AND COLLABORATIVE ORGANIZATION & METHODOLOGY

We usually leverage the following methodology when working on studies or deploying our platform. It helps us quickly adapt to your daily business priorities and strategic objectives :



- **A « Lean Startup » approach :** Our objective is to demonstrate the value that can be generated based on your data, build your journey based on this first step. We identify with your team and business experts this Minimum Viable Product that will fit your top priorities and that will feed you Business Strategy.



- **An Agile Methodology :** Our team of experts and engineers usually work following 15-days sprints, composed of a sprint planning that will help defining the key features to address, daily meetings, and bi-monthly demonstration to show your team the advances

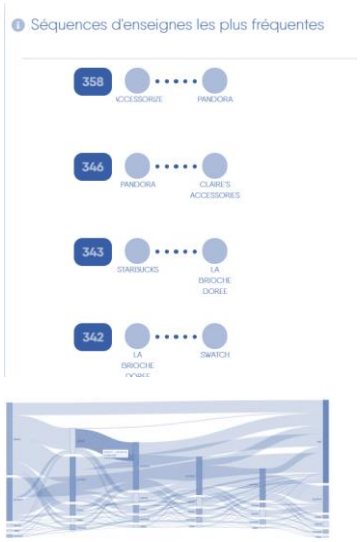
- **All the work (studies, explorations, algorithmic configuration,..) is documented on a Shared Wiki dedicated to your project,** allowing an easy and instant access to the information in real time by every party

- **Your partners / solution providers will take part in your project,** as their specific expertise might be needed to integrate their Data source within our platform

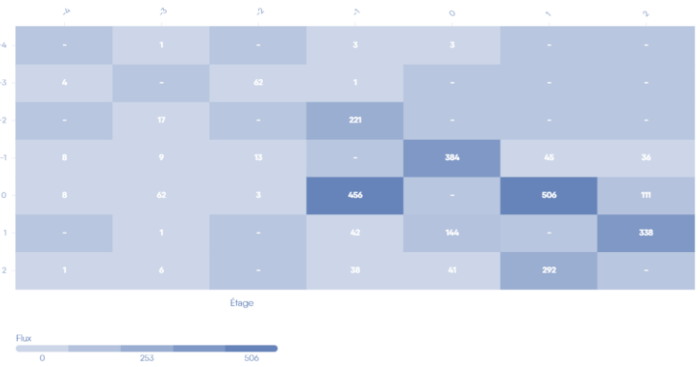
Our Dataviz Portal : Your smart building « control tower »

Our portal is tailored to provide Location Analytics / IoT based Data Visualization

Our portal, with visualization by site / levels of occupancy or presence data

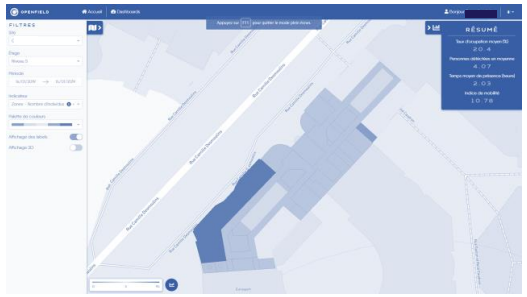


Sequence generation



Level transition matrix

Seat occupancy analytics



Group analytics

Temporal analysis of open spaces and room booking systems

Clustering

2 TYPES OF OFFERING :

OPENFIELD
Data Science as a Service

Dedicated to ad-hoc studies, problem definition, Data exploration, and value added KPI or output validation, that can later be industrialized

CAPEX

Data Science consulting

Man/days effort of our Data Scientists and project team, based on the study complexity

OPENFIELD
Platform as a Service

An Industrialized Data processing platform, integrated with your smart building ecosystem

CAPEX

Integration services

Development effort for Industrial connector to your data sources, and platform configuration based on the scope

OPEX

License and Infrastructure

Based on algorithmic complexity and infrastructure requirements (storage, processing)

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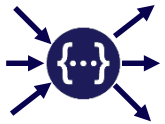
WHY OPENFIELD ?



Our unique platform enables **easy aggregation and value generation** on top of multiple data sources: on site infrastructure Data (Maps, WiFi, Sensors, Access Control,..), Business Data (HR Departments and performance, financial metrics,..) together with Open and contextual Data (weather forecasts, calendars, travel time,..)

The platform offers both :

- Ad hoc **Data Science tools & accelerating solutions** for early stage and exploratory studies
- Automated processes for **industrial setups**

It is **RGPD compliant** by design and provides our clients with state-of-the-art anonymization process when required.

Azure

It is built with the full support of **Microsoft Corp**. teams and runs on Azure's scalable infrastructures and services.

Our **Data Scientists and Subject Matter Experts** may run & interpret complex correlation & forecasting models, including location and business data in several industries.

References & Key Figures

Sports / Stadiums

Retail & Transport

Resort

Entertainment

Smart Building

Exhibition Centers

2013
Company creation

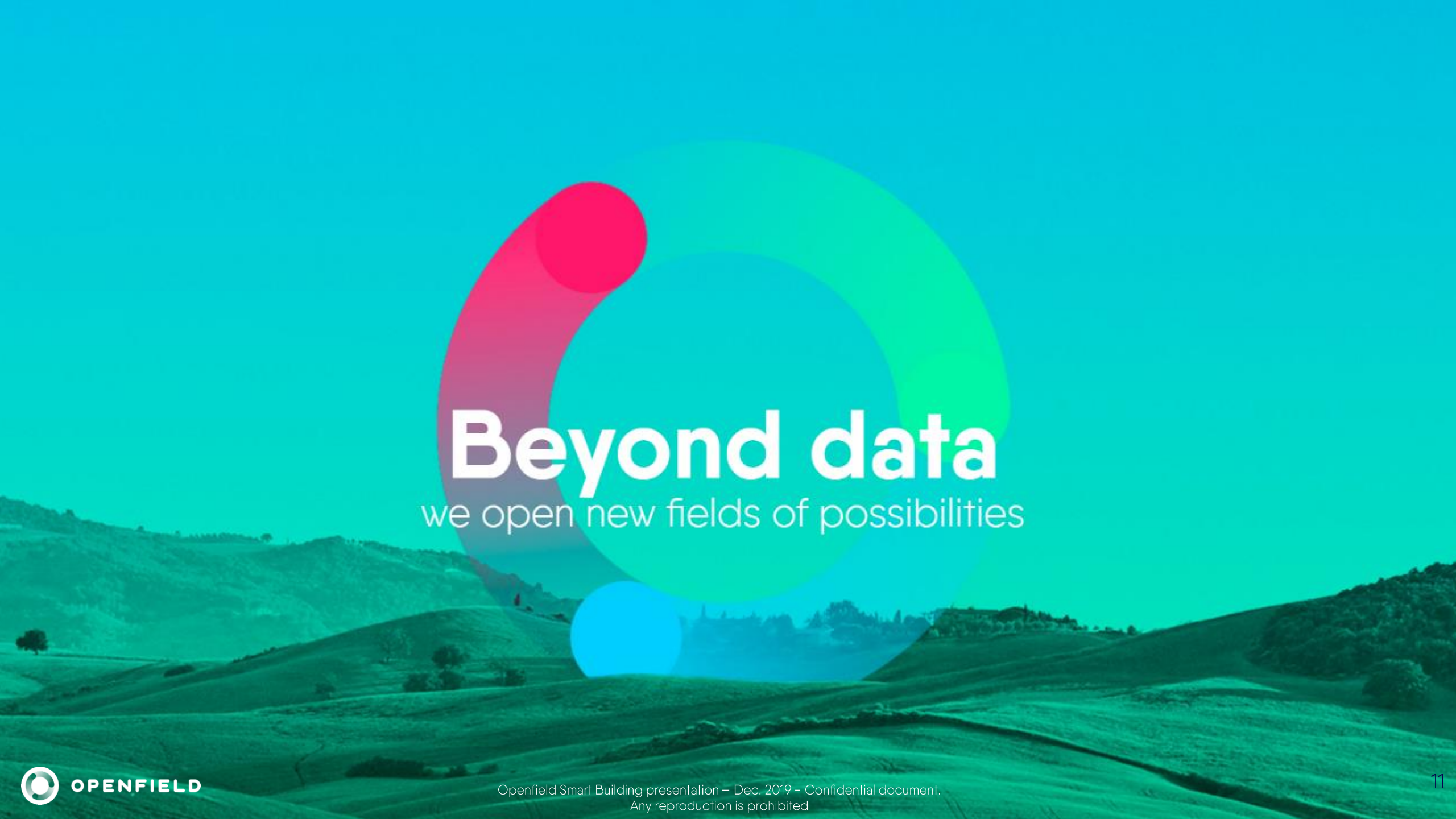
35
People

+8 m€
Invested in our Platform

6
Verticals

30
Clients

23
Sites



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