

Euronext Core

Data Centre



Ponte San Pietro,
Bergamo - Italy

26 October 2022



What is a data centre?

A data centre is a facility composed of computing infrastructure, storage systems and networked computers for the purposes of processing, storing, and disseminating data and applications.

Data centres provide services such as:

- Data storage, management, backup and recovery
- Productivity applications, such as email
- High-volume transactions
- Big data, machine learning and artificial intelligence

The data centre is the most important system for an exchange. It's where all the trading happens. It also houses the matching engine, which is where we match all the buy and sell orders we handle as an exchange, plus all the supporting applications.

On 6 June 2022, Euronext completed one of the most ambitious projects in its history – relocating its data centre from Basildon, UK to Bergamo, Italy in just 14 months



Euronext Core Data Centre handles 25% of European trading volumes



It operates a state-of-the-art colocation facility



It's a green data centre 100% respectful of our environment

A succesful and smooth migration was completed through:



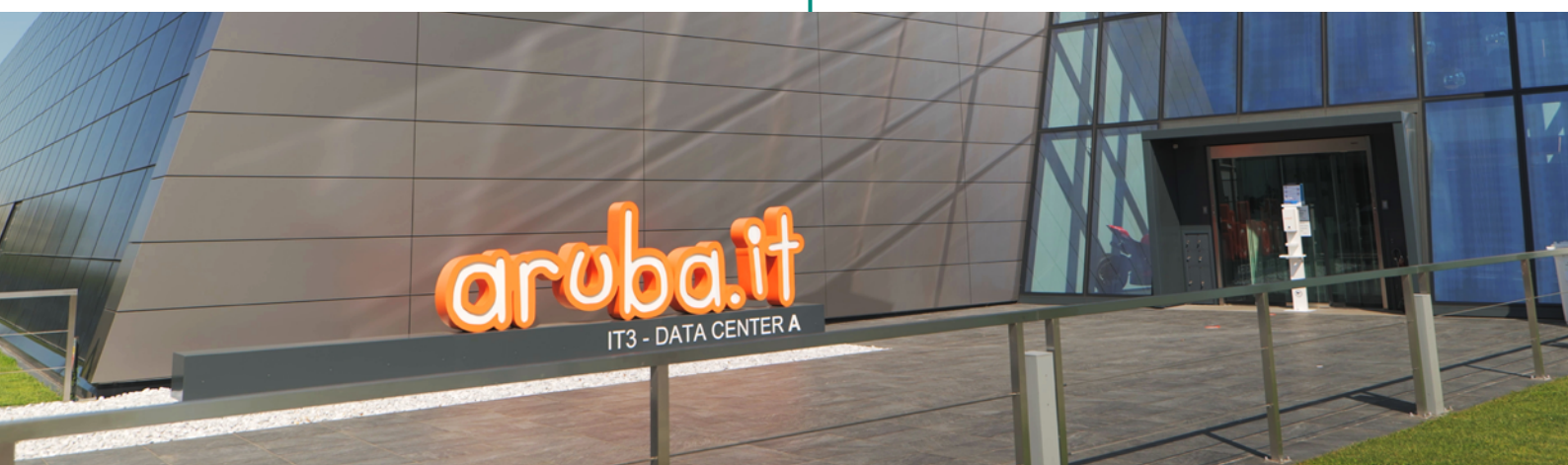
+12

teams



10,000

performed tests



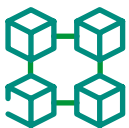
How is a data centre structured?

Data centres are made up of three primary types of components:

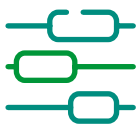
- Computing
 - Servers are the engines of the data centre.
- Storage
 - Data centres host large quantities of sensitive information, both for their own purposes and the needs of their customers.
- Network
 - Cabling, switches, routers connect servers together and to the external infrastructures. The manage high volumes of traffic guaranteeing high level performances.

Beyond this, data centres have supporting infrastructure to protect them, providing power subsystems, uninterruptible power supplies (UPS), backup generators, ventilation and cooling equipment, fire suppression systems and building security systems.

In Euronext Core Data Centre there are:



300
servers



800 km
of cable

Why did we choose this data centre in Bergamo ?

A data centre is designed to guarantee maximum reliability: redundancy of all sources of energy and cooling systems, maximum security for facilities, redundancy of network connections.

Sites for data centres are selected based on a multitude of criteria, such as geographic location, seismic and meteorological stability, access to roads and airports, availability of energy and telecommunications, and even the prevailing political environment.



The Bergamo facility was chosen because it provided a perfect opportunity to leverage existing talent and resources while ensuring a smooth transition for Euronext's clients. During the design phase, the relocation team made sure the technology would allow the company to manage its colocation service in-house in a manner compliant with **MiFID II RTS 10**

Another important benefit is the data centre's geographic location. The fact that it is on EU territory means that Euronext's clients will be unaffected if the union imposes limits on trading for exchanges based in third countries. In addition, moving the data centre into Italy and the European Union brings it into line with Euronext's European DNA.

Euronext Core Data Centre meets the strict requirements for a Rating 4 classification according to **ANSI/TIA-942-B-2017**. As the top tier of classification for data centres, this identified it as a high-end facility in terms of network architecture, security, electrical design and, importantly, its green credentials.

What is a green data centre ?

Green data centres are designed to minimize the environmental impact, being powered by renewable energy and using energy-efficient technologies.

Aruba Cloud Data Centre is powered by 100% renewable sources. It uses groundwater as the main cooling energy source.

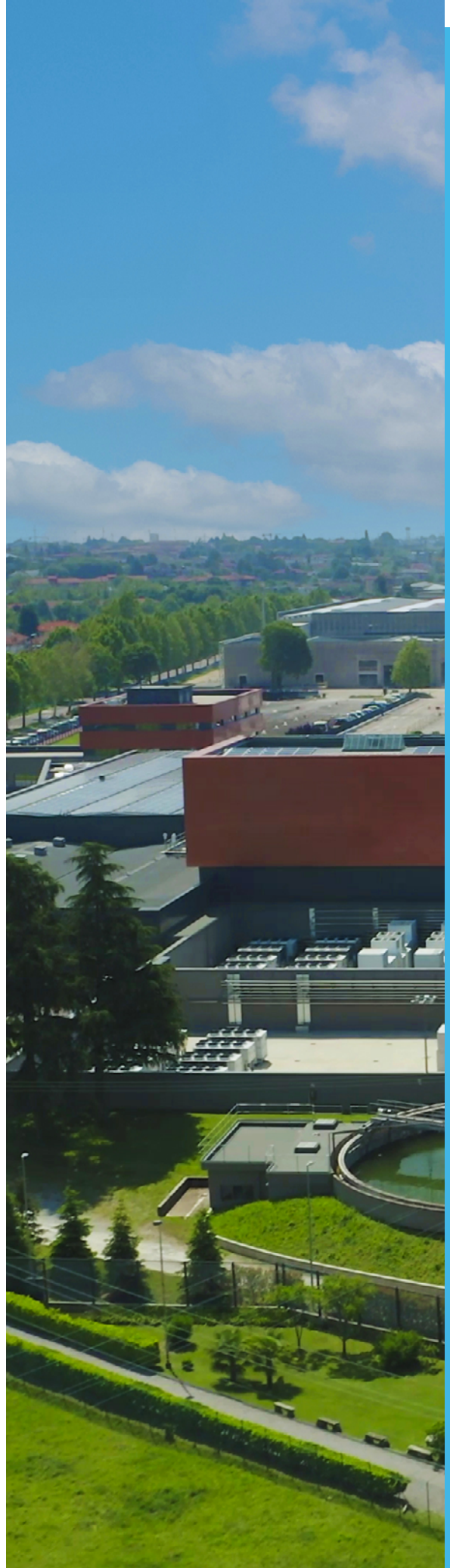
Clean energy is produced by a hydroelectric power plant on the river Brembo. The three-turbine plant uses the river's water mass to produce energy.

The buildings harvest clean energy thanks to photovoltaic panels installed on the entire usable surface that is exposed to sunlight.

The technology of its servers is designed and constructed with an increasing focus on energy saving.

Euronext Core Data Centre has excellent **ESG credentials**. They align perfectly with Euronext's "Fit For 1.5°" climate commitment.

As a result, the new Core Data Centre enables both Euronext and its clients to take a concrete step toward fulfilling their ESG goals.





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