

## Retail shelf management

Artificial intelligence boosts performance



### #1 A challenge for retailers

Nearly 90% of global retail sales take place in physical stores. In order to guarantee maximum sales and optimal customer satisfaction, shelves must be fully stocked at all times. 70% of customers who can't find what they are looking for would leave a retail outlet after 3 visits (some from the first incident). Shelf management is a major stake to face e-commerce competition.



100% customer satisfaction goal



### #2 A performance objective

The retail sector currently faces numerous problems: internal process management issues, constraints on resources and data disruption. These problems are handled manually on a daily basis by brand managers and by department staff, who need real-time information to effectively assist them.



Reliability



Responsiveness



### #3 A complete solution

To enable optimal shelf management, Atos brings innovation with Edge Computer Vision, an artificial intelligence solution based on the BullSequana Edge.



Smart cameras scan the shelves in the retail outlet.

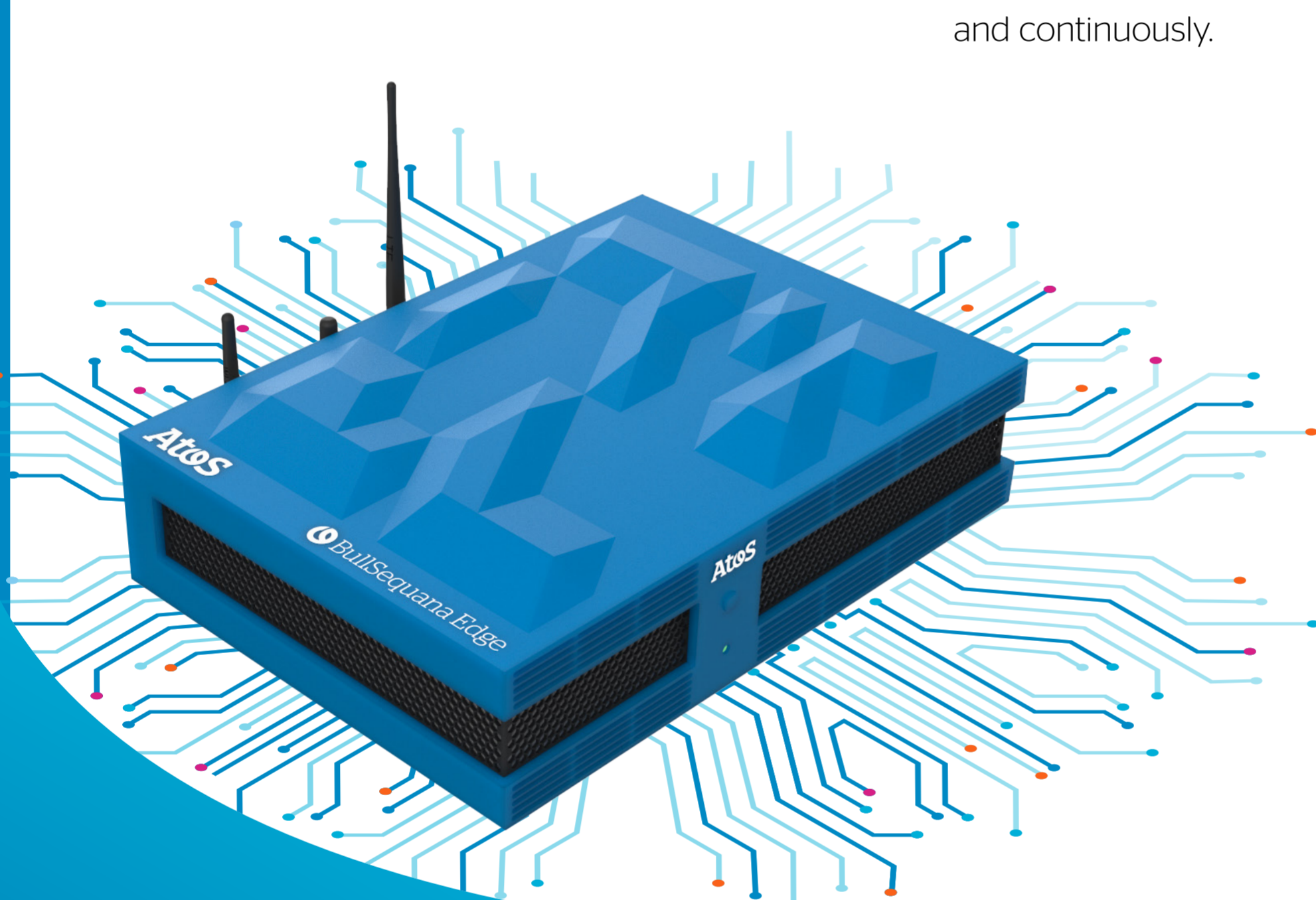
## The Atos BullSequana Edge server collects, sorts, stores and analyzes

the flow of data in real time and continuously.



Responsiveness

100% reliable



Time savings



Real time analysis

### The deep learning algorithms

running in Edge Computer Vision detect and identify products on the shelf. They are then able to check availability, selections, space, prices, promotions and much more. Then, they automatically trigger notifications to internal applications.

Store teams can quickly replenish the shelves as needed.

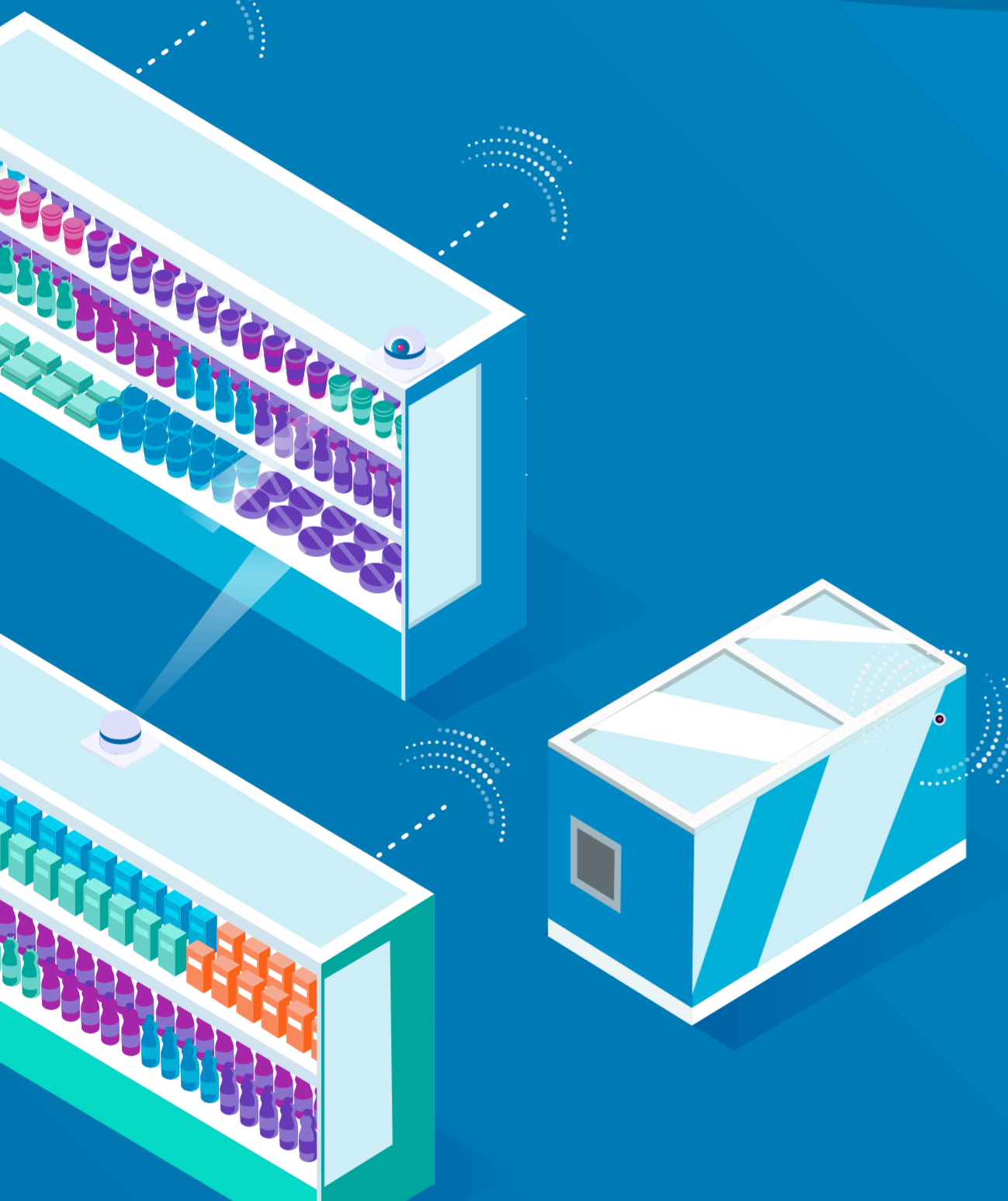


### #4 100% self-contained on-site installation

BullSequana Edge operates in a non-data centre environment. It can be installed as close as possible to the IoT data generated to improve the security and reduce data transfer latency.



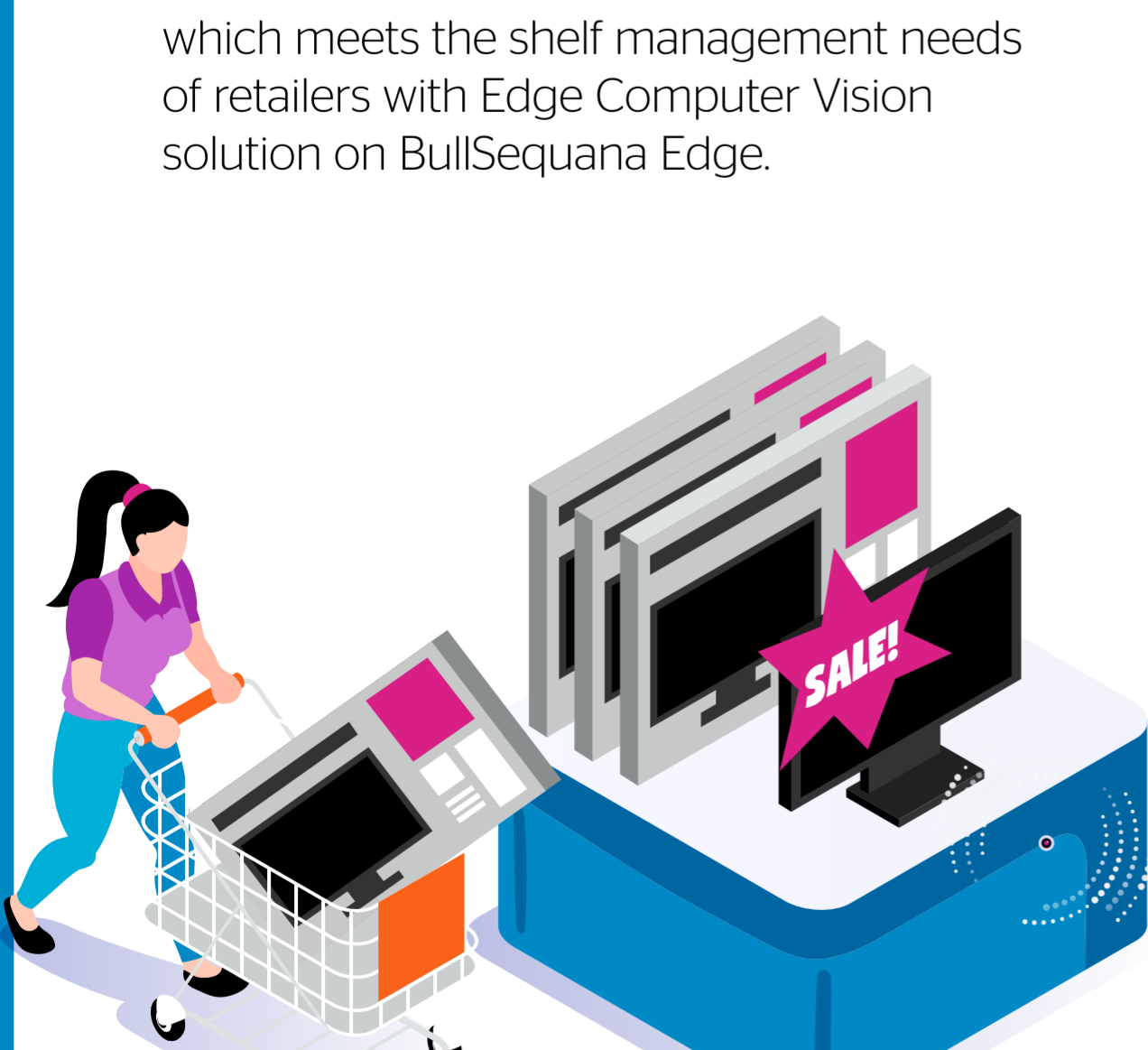
Local and remote control management the Edge Data Container solution allows you to have a mini data center on site. The Edge servers are placed in racks for increased data storage volume.



Functional in all types of environments

### #5 A technological revolution in Edge Computer Vision solution

which meets the shelf management needs of retailers with Edge Computer Vision solution on BullSequana Edge.

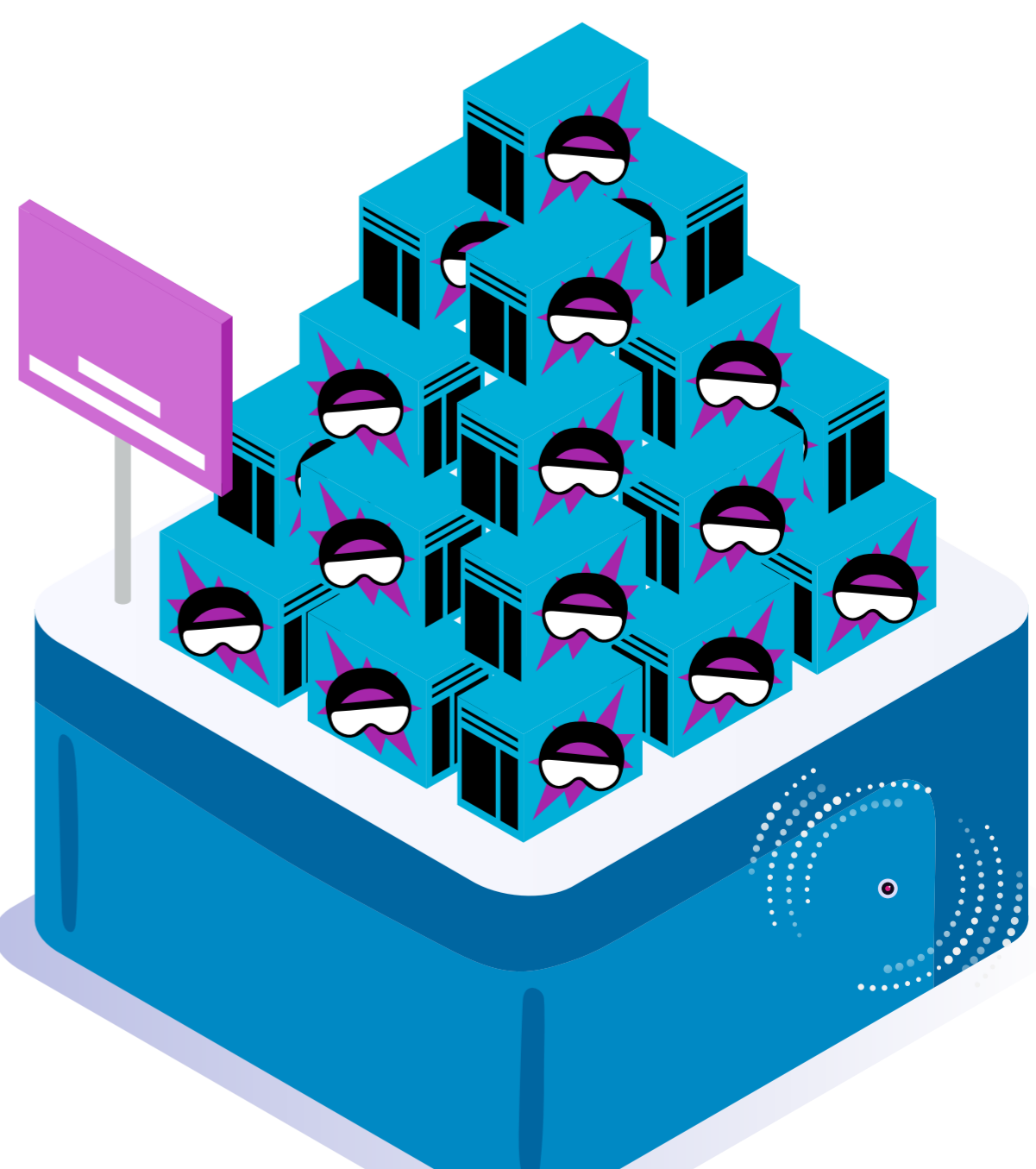


- Generate a real-time alert system
- Ensure rapid replenishment of your shelves (30 min versus 24 hours)
- Increase your sales by 3% to 5% in certain product categories
- Securely analyze data near to IoT sources
- Improve customer satisfaction

This solution is also very effective for:

**Preventing theft with the installation of cameras at self-checkouts.** Deep learning algorithms analyze massive quantities of complex video data in real time. Goal: detect fraud at the checkout or attempted theft and report it immediately.

**Combat the obsolescence of in-store data storage and analysis systems,** while rationalizing the number of servers and reducing energy consumption and costs. Goal: benefit from local and highly reactive analysis.



Together, let's meet new challenges

Contact our BullSequana Edge experts [Atos.net](http://Atos.net)