

## Why is it necessary to digitise a cultural space?

Museums increasingly need to operate with real data, automation, and more efficient infrastructures.

At a time when cultural spaces are looking to reinvent themselves, the smart museum emerges as a necessary response to the challenges of the 21st century. Digitalisation is no longer an option, it is a competitive advantage.



At Telefónica Tech, we drive the transformation of cultural spaces with solutions based on Connectivity and IoT and AI & Data technologies, which help preserve heritage, enhance the visitor experience, improve energy efficiency, and optimise management and accessibility.





**Unstable environmental** 



### Constant monitoring of critical

**Preventive conservation** 

microclimates

### Operational overload

**Uncontrolled visitor flows** 



### staff assignment

**Operational management** 

Sustainability

Capacity control, flows, data-driven

Lack of visitor behaviour

**High energy consumption** 

Misaligned budget

insights



## automated reports for grants

and subsidies

Adaptive content on screens

Optimised consumption with

# Generic visitor experience



### and signage

and energy

Visitor experience

**Automation of repetitive tasks** 

Smart rules for climate, access,

## **Reactive maintenance** Downtime,

repeated errors



### Integration of video, access, and alarms with traceability

Security and control

#### Digitising a museum not only transforms its infrastructure, but also the day-to-day work of every team. From management to visitor services, conservation or tech staff, everyone

experiences practical, measurable, and sustainable benefits:

Tangible benefits of digitalisation

Measurable and strategic profitability Centralised operational control Experiences adapted to diverse audiences Smart preventive conservation

Sustainability with documented ROI

What technological solutions power

#### (((o))) IoT sensors/devices Al & Data Cloud IoT connectivity



Simple and secure integration

a smart museum?



Ciberseguridad

Interoperability



**Building Management System (BMS)** 



# Central platform for managing building systems (climate, energy, security, access).

Indoor insights System that provides real-time information on visitor flows, occupancy, behaviour, and

## profiling.

**Dynamic marketing** 

Signage and connected screen system that displays content based on context.

## **The Brain**

Platform that securely integrates and coordinates all IoT solutions from a single Al-enabled interface in real time.

XR technologies.

Solution to create immersive, participatory, and adaptive experiences through audiovisual and

Cultural centres that embrace smart solutions today not only improve efficiency, but they also

gain resilience and stay relevant and sustainable.

**Experiential marketing** 

- Why Telefónica Tech?
- + 50.000 points of sale

• + 20 years deploying digital transformation solutions

- + 90 countries with our services
- + 100 digital transformation projects in 2023
- + 500 clients
- + €150 million invested over the last three years