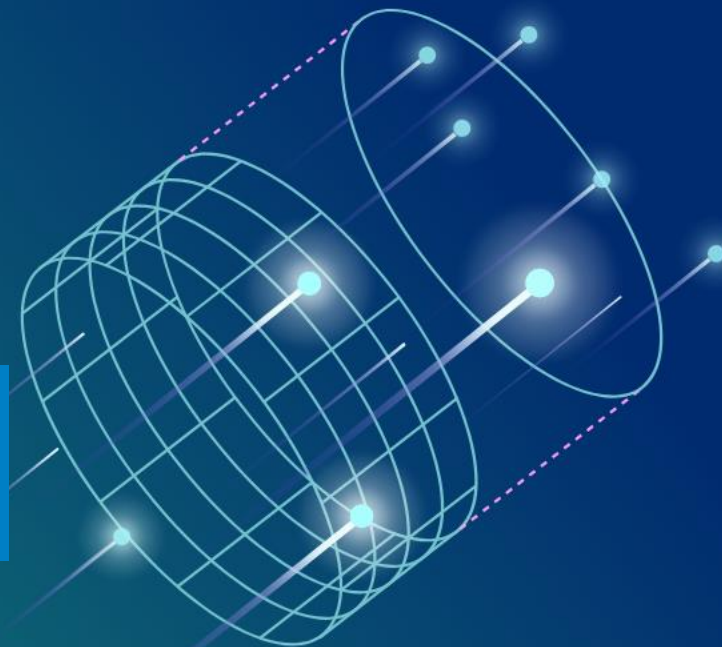


TANGO Project



DIGITAL TECHNOLOGIES ACTING
AS A **G**ATEKEEPER TO INFORMATION
AND DATA FLOWS



ORGANISED BY:



IN COLLABORATION WITH:



UNDER THE AUSPICES OF:





Hello! My name is Tomás Pariente Lobo

I work for Atos Research & Innovation (ATOS) in R&D projects related to AI and data, both on technical and management aspects. I'm currently coordinating the TANGO project and leading the WP on AI

TANGO Project Fiche

Project Name

- Digital Technologies ActiNg as a Gatekeeper to information and data fLOws

Project Consortium

- 36 partners, 14 Countries

Call / Project Type

- Topic: HORIZON-CL4-2021-DATA-01-01
- Project Type: RIA

Total Budget/Max EU Contribution

- €10.444.121

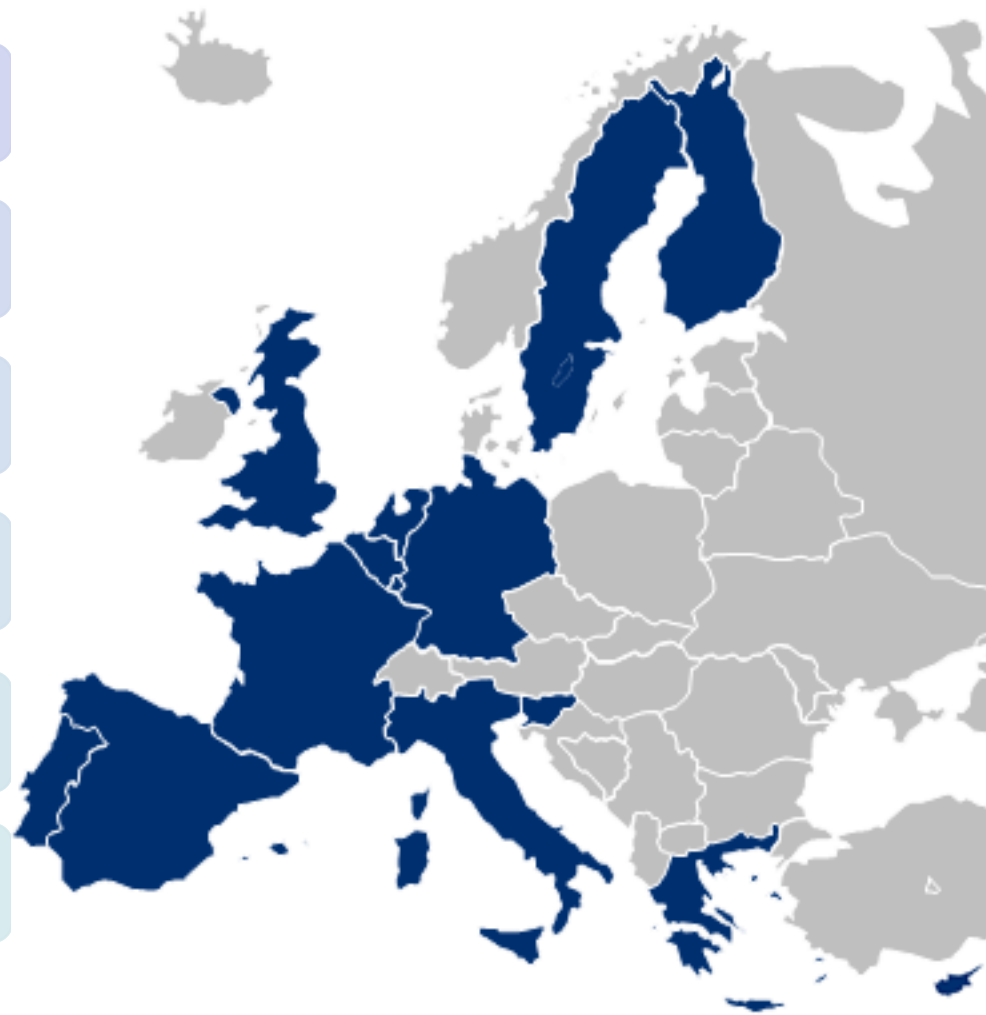
Start Date

- 1 September 2022

Duration

- 36 months (31 August 2025)

GA n. 101070052



Acronym	Country
ATOS	ES
ATOS SP	ES
FSDE	DE
FUJ LU	LU
INTRA	LU
SQUAD	PT
NORB	SE
DBC	BE
EXUS	EL
LSTECH	ES
SVI	CY
QBE	EL
SQD	BE
XLAB	SI
FN	CY
ANYS	ES
CEA	FR
FHG	DE
VTT	FI
DUT	NL
UMU	ES
KUL	BE
UTH	EL
UPRC	EL
IDSA	DE
EGI	NL
ECO	DE
LIC	BE
IDIADA	ES
ABI	IT
RIAS	PT
FMAKE	BE
CESGA	ES
AHOP	ES
VISA	DE
MET	EL
UOM	UK
UOG	UK

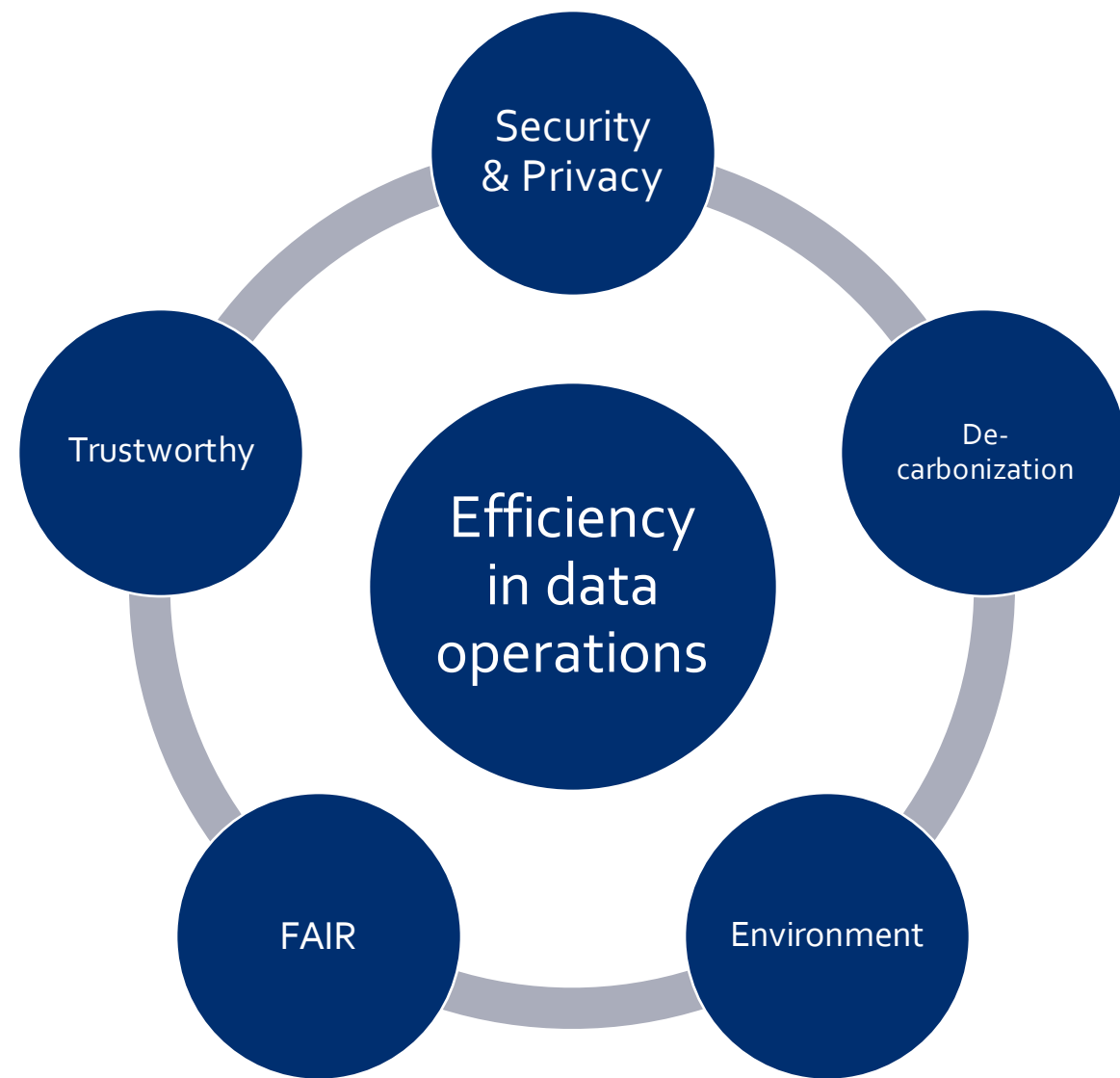
DUE TO CLIMATE CHANGE, ENERGY CRISIS, RISE OF PRICES
OPERATORS ARE NOW QUICKLY REALISING THAT THERE IS AN
**URGENT NEED TO INCREASE THE ENERGY EFFICIENCY OF DATA CENTRES AND REDUCE
THEIR ENVIRONMENTAL IMPACT**

EUROPE (AND THE WORLD) NEED STATE-OF-THE ART
**TECHNIQUES AND TOOLS TO REDUCE THE ENERGY CONSUMPTION AND CARBON
FOOTPRINT OF DATA INTENSIVE APPLICATIONS**



TANGO Motivation

- TANGO aims **at improving the efficiency of data intensive applications while decreasing time and carbon footprint** via innovative solutions for
 - Privacy-preserving and secure data sharing and management
 - Smart contracts
 - AI model training, life-cycle, decentralization
- Applied to **several real-life business problems**
- From a **citizen-centric, secure and trustworthy viewpoint**



TANGO Objectives



1

Framework for **fair, responsible and green data management, sharing and storage** while maintaining data ownership based on **energy-efficient Smart Contracts, AI, Self-Sovereign Identity, Self-Encryption and Continuous Behavioural Authentication.**

2

A **secure, trusted and audible data management, storage and sharing environment** by developing advanced **energy-efficient Blockchain, novel security and privacy-preserving protocols** for **guaranteeing the ownership** of the data throughout the whole data lifecycle.

3

Distributed **trust management mechanisms** that leverage **Self-Sovereign Identity for identity management, innovative user and device onboarding approaches** and continuous **behavioural authentication mechanisms, and hardening of side-channel attacks**, providing highly secure and user-friendly access control.

4

Exploit the power of **Artificial Intelligence** in order to produce accurate decision making targeting the data, security and infrastructure management towards **“green” data operations.**

5

To validate and **demonstrate** the effectiveness of the proposed solution in **six (6) diverse use cases** with the active engagement and training of several different stakeholders’ groups accomplishing at the end of the project a **TRL-6** level for the entire TANGO platform.

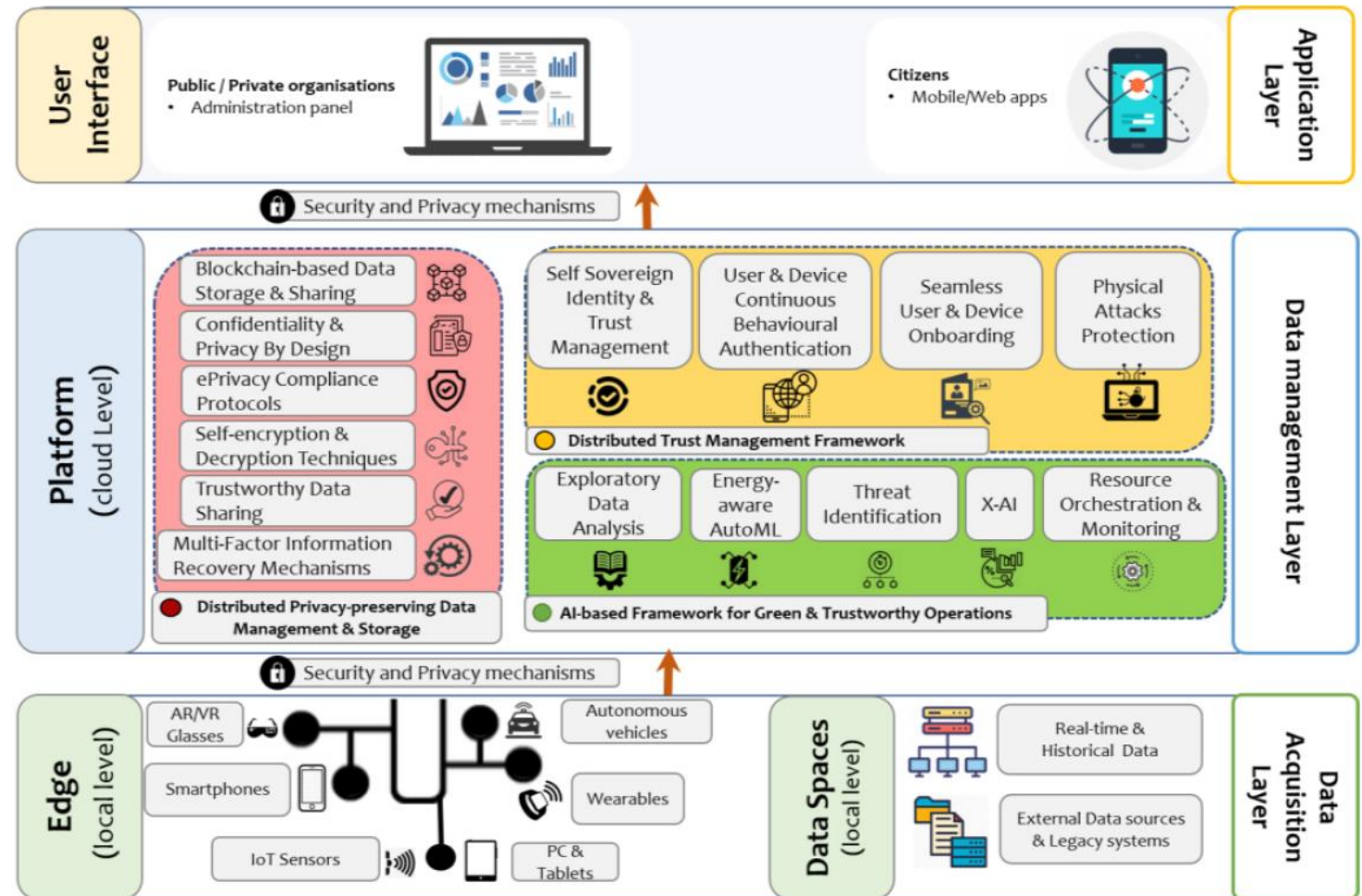
6

Ensure wide **communication and scientific dissemination** of the innovative TANGO results, the **efficient exploitation and business planning**, as well as the contribution of specific project results to relevant **standardisation** bodies.

TANGO Main elements and technologies

“Fair, accountable, trustworthy and green ways for end-users and organisations to share, store and manage data”

- Energy efficiency
- AI, blockchain
- Trustworthiness
- Data sharing, IDS
- Ensuring privacy and security
- Legal and ethical compliance



T: A: N: G: O

DIGITAL TECHNOLOGIES ACTING
AS A GATEKEEPER TO INFORMATION
AND DATA FLOWS

**A small drop
Can make the world
rippling**

Thank you!

For more info contact me
tomas.pariantelobo@atos.net

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UNDER THE AUSPICES OF:

