TELCO

From 5G to cloud networks, timing is the backbone of connectivity. CLEPSYDRA provides high-precision synchronization to support ultra-low latency, seamless data transfer, and network resilience.

TRANSPORT

Connected vehicles, public transport, and traffic systems need a common time reference to operate safely and efficiently. CLEPSYDRA coordinates these networks, keeping smart mobility in motion.

CONSORTIUM PARTNERS

ThalesAlenia Space
a Thales / Leonardo company

ELPROMA ELEKTRONIKA

PIK Time Systems

bip. SCS space

CONTACTS

✉ info@clepsydra-eu.com

🌐 www.clepsydra-eu.com

in CLEPSYDRA

Scan the QR code to learn more

INNOVATION
THAT NEVER RUNS OUT OF
TIME

CLEPSYDRA

Certified gaLileo timE Provision for SYnchronisation of Disciplined Reference scAle

EUSPA

ABOUT US

CLEPSYDRA develops a new generation of **Galileo-based certified timing receivers** to ensure secure, resilient, and high-accuracy time synchronization for critical infrastructures.

Leveraging Galileo 2nd Generation features and Timing Service Message, and an innovative GNSS Spoofing detection capability, the project supports a European-standardized timing service compliant with EN 16605:2024.

Its goal is to enhance Europe's technological autonomy in precise timing, providing a cost-efficient, high-performance platform (TRL 7/8) for sectors such as energy, telecommunications, finance, governmental networks, and smart-city technical environments.

SMART CITIES APPLICATIONS

In the connected ecosystem of Smart Cities, every system, from energy grids to traffic lights and 5G networks, depends on one invisible foundation: precise time.

Without accurate synchronization, data loses coherence, networks desynchronize, and critical urban systems slow down or fail.

CLEPSYDRA delivers **secure, resilient, and high-precision timing based on Galileo and GNSS technologies.**

It ensures that core infrastructures, such as **energy, finance, telco, and mobility**, remain synchronized and operational.

KEEPING KEY SECTORS IN PERFECT TIME...

ENERGY

In smart grids, every millisecond counts. CLEPSYDRA ensures availability and continuity of the service and precise time synchronization for power generation, storage, and distribution, enabling stability, renewable integration, and efficient energy management.

FINANCE

Transactions, trading, and digital payments depend on trusted timestamps. CLEPSYDRA delivers certified, tamper-proof timing that meets regulatory standards and ensures data integrity across financial systems.