



CLEPSYDRA

NEWSLETTER

Advancing Toward a Resilient Timing Platform

CLEPSYDRA is designed to support secure and resilient timing synchronization for critical infrastructures, with applications spanning: energy, telecommunications, finance and transport.

The platform integrates advanced timing and GNSS technologies, including:

- multi-constellation GNSS tracking
- Galileo OSNMA authentication
- T-RAIM integrity monitoring
- anti-jamming and anti-spoofing mechanisms
- high-accuracy timing distribution through PTP, NTP and IRIG-B protocols

A significant focus of the CDR activities was dedicated to resilience and integrity, confirming CLEPSYDRA's strategic positioning within the evolving European landscape for secure timing infrastructures.



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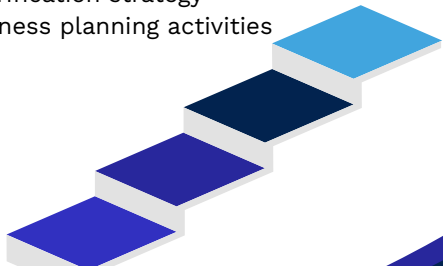
Successful Completion of the Critical Design Review (CDR)

The CLEPSYDRA consortium has successfully completed the **Critical Design Review (CDR)**, marking a major milestone in the project's development lifecycle.

The CDR represented a key consolidation phase for the platform architecture, detailed design definition, and preliminary verification planning, confirming the project's progression toward the upcoming integration and testing activities.

The review involved all project partners and focused on several core areas, including:

- detailed platform architecture
- GNSS and Time & Frequency core design
- resilience and anti-spoofing capabilities
- preliminary test and verification strategy
- dissemination and business planning activities





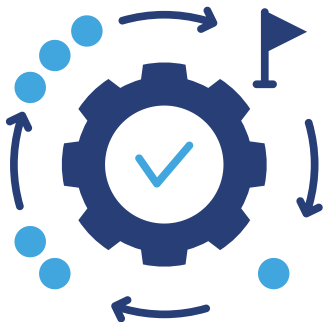
From Design Consolidation to Verification Activities

The project is now entering the next operational phase, which includes:

- prototype development and integration
- laboratory and field testing
- resilience validation activities
- benchmarking and calibration campaigns

The preliminary verification plan foresees testing activities across multiple European facilities.

Particular attention will be dedicated to testing the platform under degraded RF conditions, spoofing attempts, jamming scenarios, and obstructed operational environments.





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The successful completion of the CDR further reinforces CLEPSYDRA's objective of contributing to Europe's technological resilience through secure, robust, and high-precision timing solutions aligned with emerging operational and regulatory requirements.

The consortium will continue its activities toward the upcoming Test Readiness Review (TRR), scheduled for September 2026, alongside ongoing dissemination, stakeholder engagement, and market preparation initiatives.

Stay connected with Clepsydra EU for upcoming technical updates, dissemination activities, and project milestones.



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WORKSHOP

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DATE

10 JUNE 2026

ONLINE MEETING

11.00 - 13.00



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