

## Rules for the webinar

*Waiting for  
other  
participants  
to join... 😊*

**Advancing Inland Waterways with  
Digital Twins** — Exploring CRISTAL project  
innovations and MultiRELOAD project  
demonstrator

**10<sup>th</sup>**  
April

**9.30 to 11.30** CEST



TG2



- The **session will be recorded** in case you or other ALICE members wish to have a look afterwards. A link to the recorded webinar and pdf presentations will be shared with participants through e-mail.
- Please, **keep your microphone muted when the meeting starts and your cameras off if you are not speaking**. You can introduce yourself when entering the meeting so you do a test (i.e. everybody can hear you) 😊
- Please, **share your questions to the speakers in the GoTo chat**. You are also welcome to share thoughts, suggestions or relevant information on the subject
- Please, **add your name and company** to identify yourself

**You may ask any question on these rules before the start!**



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# Programmes, activity fields and projects



Proposals

## Efficient and Low Emissions Assets and Energy

- Road Transport electrification
- Automated road transport
- GHG emissions measurement and reporting (SFC)

## Corridors, hubs and synchromodality

- Europe's Rail and ERRAC
- 5th Transport Mode
- Waterways
- Ports & hubs
- Resilient Transport Networks

## Systems and Technologies for Interconnected Logistics

- Data exchange, DTLF and eFTI
- 5G
- Artificial Intelligence
- Digital Twins

## Global Supply Network Coordination & Collaboration

- ALICE EXPRESS
- Increase use of rail
- Applied Collaboration Streams

## Urban Logistics

- Governance and regulations
- Clean & alternative fleet
- Urban data
- Innovative operations
- Consumer engagement
- EC Expert Group on Urban Mobility (EGUM)

Projects

- |       |         |            |             |         |          |           |          |           |            |          |
|-------|---------|------------|-------------|---------|----------|-----------|----------|-----------|------------|----------|
| ZEFES | CLEVER  | FLEXMCS    | MultiReload | Cristal | REMUNET  | AUTOSUP   | Seamless | DELPHI    | DISCO      | LOGeHUBS |
| MODI  | MACBETH | STRENGTH-M | PIONEERS    | SARIL   | FOREMAST | AUTOMOTIF | URBANE   | GREENTURN | Shift2Zero |          |

## Innovation uptake & Knowledge Management



## Influence



## Membership engagement Value creation for members



**1Key events**

- ALICE Brokerage
- T&L Munich
- ALICE Summit
- IPIC 2025 & 2026
- TRA 2026

# WORKSHOP OBJECTIVES



## Can Digital Twins unlock the full potential of Inland waterways or are we just dreaming?

To explore and validate how Digital Twins can enhance the resilience, efficiency and sustainability of Inland Waterway Transport, **CRISTAL** and **MULTIRELOAD** project will showcase their innovative solutions.

The workshop aims to:

- **Deep dive** into the concept of Digital Twins and their **practical relevance** to waterborne transport infrastructure
- Present **innovative solutions** for operational decision support, environmental monitoring and infrastructure management
- Evaluate the **value proposition of Digital Twins** for logistics stakeholders and policymakers
- Foster dialogue on overcoming **key adoption challenges and identifying opportunities** with an expert panel discussion
- Get your valuable insights – Interactive Q&A session via Slido – **Your vote & voice matter!**



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# agenda

## alice

Alliance for Logistics  
Innovation through  
Collaboration in Europe



- **Welcome & Introduction.** Elvina Nowak [ALICE](#) Giuseppe Luppino [ALICE](#) David Cipres [ITA](#)
- **Session 1: Cristal – Operational decision support system for navigability.**
  - **Goals and Expected impact** Orestis Tsolakis [CERTH](#)
  - **Digital twin application for water infrastructure monitoring and SCMS** Orestis Tsolakis [CERTH](#)
  - **Value proposition and business canvas** Edwin van Hassel [University of Antwerp](#)
- **Session 2: MultiRELOAD – Environmental monitoring tool for ports and water**
  - **Introduction to the DT concept in multimodal logistics**
  - **Demonstrator showcase: How digital twins improve port efficiency ( live demo)** José Antonio Clemente Pérez [Prodevelop](#)
- **SLIDO SESSION**
- **Session 3 – Panel discussion: Overcoming challenges & unlocking opportunities for IWT with DTs.**
  - **Introduction:** Key challenges for both project Tammo Märten [Franhofer IML](#)
  - **Panelists:** Moderated by Tomasz Dowgielewicz - [ALICE](#)
    - Jan-Christoph MASS [Duisport](#)
    - Peter Rojko [HafenWien](#)
    - Salvador Furio [Fundación Valencia port](#)
    - David Cipres [ITA](#)
    - José Antonio Clemente Pérez [Prodevelop](#)
    - Orestis Tsolakis [CERTH](#)
- **Wrap up and next steps.** Elvina Nowak, Giuseppe Luppino [ALICE](#)