

MODATS SUBTASK 2.5

Enhanced system understanding, Multi-party
dialogue

22/05/2024 • C. Debayle (IRSN) – A. Geisler-Roblin (NTW),
J. Dewoghélaëre (NTW), G. Fontaine (NTW)



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ICS ACTIVITIES IN MODATS - OBJECTIVES OF SUB-TASK 2.5

- The objectives of ICS activities in MODATS were:
 - To contribute to the development of **mutual understanding and common views** on the key challenges and topics on monitoring system and data management.
 - To collect **civil society's expectations** on monitoring.
 - To introduce a socio-technical **interpretation of monitoring systems**.
 - To think about how CS organisations could contribute to research.

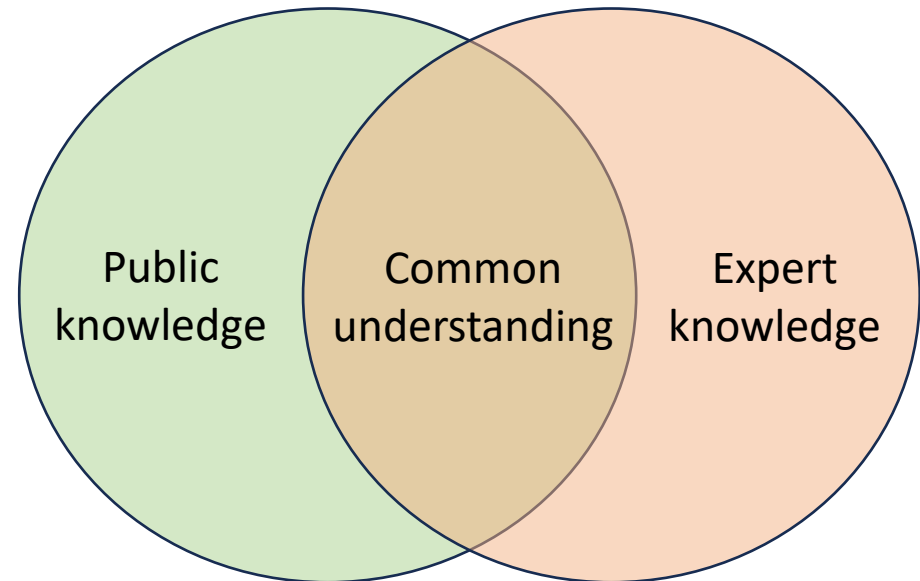
IMPLEMENTATION OF THE MULTI-PARTY DIALOGUE

- **Two hybrid workshops dealing with five topics identified collectively:**
 - **Nancy on 18-20 April 2023 :**
Bure, discussion based on practical cases, articulation monitoring-safety case
 - **Paris on 24-25 October 2023 :**
Téléray monitoring network visit, testing the PEP, digitalisation key aspects, articulation monitoring-confidence-trust
- **Composition of the audience:**
 - about **20 participants for each workshop**
 - **representatives from each EURAD college**, engaged in MODATS Task 2
 - **representatives from civil society**, including Civil Society experts and members of the larger Civil Society group involved in EURAD



KEY OUTCOMES

- Review of **Modern2020 stakeholder guide**
- **Common understanding** of core concept of repository and its related monitoring
- Monitoring results → data cleaning → data analysis → data interpretation → parameters → modelling → digital twins → safety case : **digitalisation of safety case**
- Data and knowledge management (preservation) over the very long term is a key challenge → **legacy for society and future generations**
- Transparency → Confidence → Trust : many discussions lead to think about **wording**



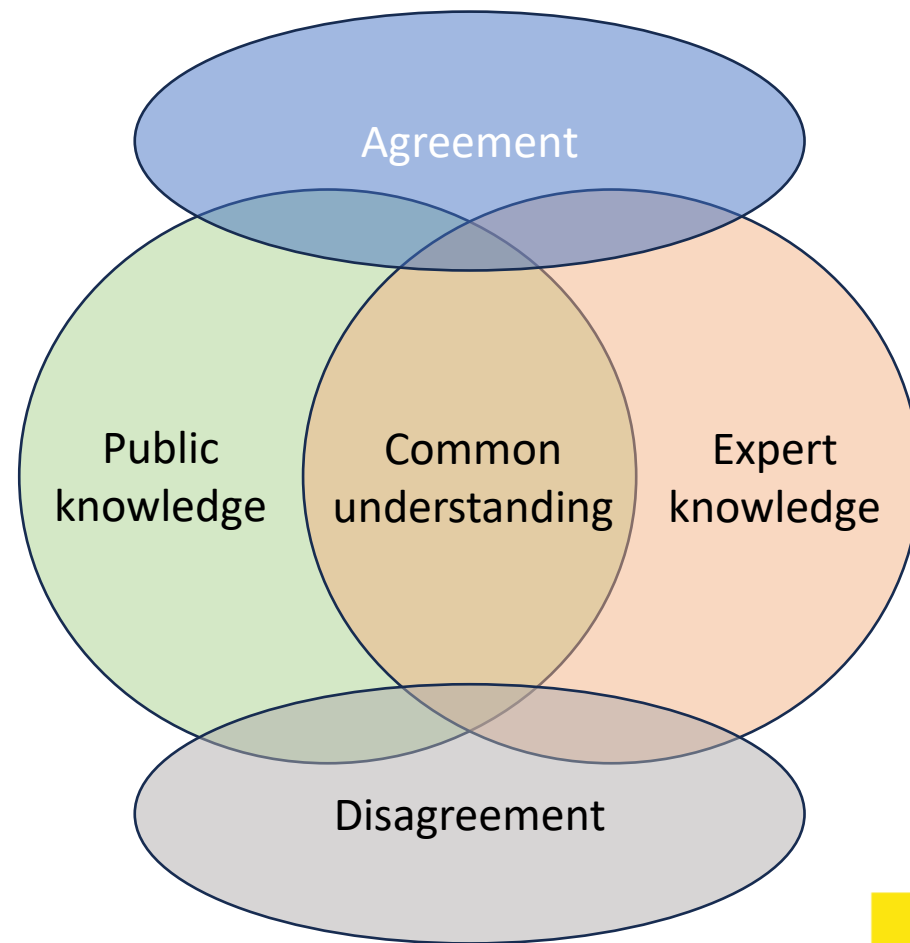
FROM CIVIL SOCIETY PARTICIPANTS POINT OF VIEW

- **Monitoring** a geological disposal facility, considering high complexity of all components and long-term considerations, **is a challenge.**
- **Discussions** about post-closure monitoring and data interpretation (raw / processed data)
- Safety culture was transferred : **training**
- Possibility for CSO to express concerns and point of view to allow **research co-construction**
- **MODATS was the only WP in EURAD** in which **CS was associated** in such a way... and it worked...



BENEFITS OF A GOOD METHODOLOGY FOR SUCH INTERACTIONS

- A **safe place for dialogue** is essential to allow postural changes and knowledge sharing
- Common understanding **doesn't mean agreement**
- Knowledge is always **shared in multiple ways** : the technical visit to Téléray online monitoring network was opportunity when no one was expert...
- It brings people to **listen** and sometimes to **change point of view or opinion**
- Tools & methodology + digital twins → **higher engagement in work package**



CONCLUSION AND PERSPECTIVES FOR FUTURE EURAD ACTIVITIES

- Thanks to MODATS WP, it was demonstrated that **interaction with civil society is possible into a R&D work package**
- A key for this, is the **methodology** that allow a safe place for dialogue and open posture for knowledge sharing
- The **words** used, sometimes the jargon employed by the parties, can lead to difficulties in understanding. This is a crucial point to consider to make these interactions effective.
- When **tools and knowledge** are **shared**, it leads to high involvement of parties.
- **CS interactions** with experts could be considered as **innovative training in KM**.
- All this could be enhanced with **better interactions between WPs through KM activities**.
- A better and efficient **data management** could enhance **transparency** which could lead to higher **confidence** from public