



# PREDIS

## **Key takeaways from WAC webinar #1: Information and Resources**

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WASTE ACCEPTANCE CRITERIA II: NEEDS,  
CHALLENGES AND OPPORTUNITIES**

**20 MAY 2021**



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# Webinar motivation

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- **WAC issue addressed in different projects and international activities**
- **Approaches and outcomes follow goals of a particular project**
- **EC calls for the coordinated effort to systematically advise on WAC issues**
- **Two seminars proposed:**
  - **Information and Resources (21 April 2021)**
  - **Needs, Challenges, and Opportunities (20 May 2021)**

## Webinar scope

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**Sharing information and experience regarding WAC from**

- **EC projects - PREDIS, EURAD-ROUTES, CHANCE, THERAMIN, MICADO, LWC/ERDO**
- **International institutions - NEA/OECD, IAEA**
- **8 presentations**
- **4 Breakout Room discussions**
- **About 200 registered participants**
- **Summary of event is at <https://predis-h2020.eu/events/>**

# Outcomes regarding challenges in developing and/or modifying WAC

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- Different types of institutions are responsible for developing and implementing WAC in different countries
- A systematic application of common criteria would help to ensure the widespread application of best practice
- The requirements and limitations of all steps in the waste management lifecycle need to be considered while developing WAC
- There is greater confidence in using established (tried and tested) approaches (comparing to innovative ones)

# Outcomes regarding challenges in developing and/or modifying WAC (2)

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- **The determination and development of the methodology of quantifying parameters for the important features of WAC**
- **How to introduce new waste packages in the existing WAC system?**
- **Developing archives on the properties of the waste packages**
- **Looking for WAC harmonization when treatment/conditioning results in waste category change (e.g. from LLW to ILW)**

# Outcomes regarding the needs of less mature RWM programmes

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- **A lack of clear regulations may result in waste storage instead of its disposal**
- **WAC can be regarded also as an instrument helping to design a national policy/strategy for waste management**
- **Purchasing a conditioning technology together with a proof of the long term performance of the waste form may ease otherwise arduous waste form qualification process**
- **How to process and store safely a package without the knowledge about the disposal option – it may result in the need to recondition waste**
- **How to treat uncertainties in the WAC context?**

## Outcomes regarding the highest priority activity

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- **Need for shared predisposal solutions** (facilities and/or technologies), **including characterization** (mobile units, etc.)
- **Shared approach shall consider also regulatory activities**
- **Searching for common approaches to characterization of legacy waste and representative sampling**
- **Formulating requirements relating to hazardous / toxic waste as they may call for a different approach to its management compared to requirements defined for radioactive waste**

# Are the presented projects addressing the needs?

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- **Methodology to develop WAC is missing**
- **How far can you go in waste management without WAC so that to minimise the need for reconditioning waste?**
- **What is the minimum time needed for testing waste forms: shall we use different methods in parallel?**
- **Correlation of different testing approaches might be a solution**



# Summary of the main issues

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- **More focus be put on legacy waste sampling/characterization methods**
- **Request for the determination and development of the methodology of quantifying parameters for the important features of WAC**
- **SIMS option: sharing the technology and regulatory activities**
- **The trade-off between early conditioning and postponed conditioning should be explored**
- **Harmonisation of WAC among countries is useful**
- **Need of coordinated approach in EC, IAEA, NEA projects**

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# Thank you for your attention

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