

# Destination Renewable Energy (DRE) Use Case

2<sup>nd</sup> Project Progress Meeting  
22 January 2024

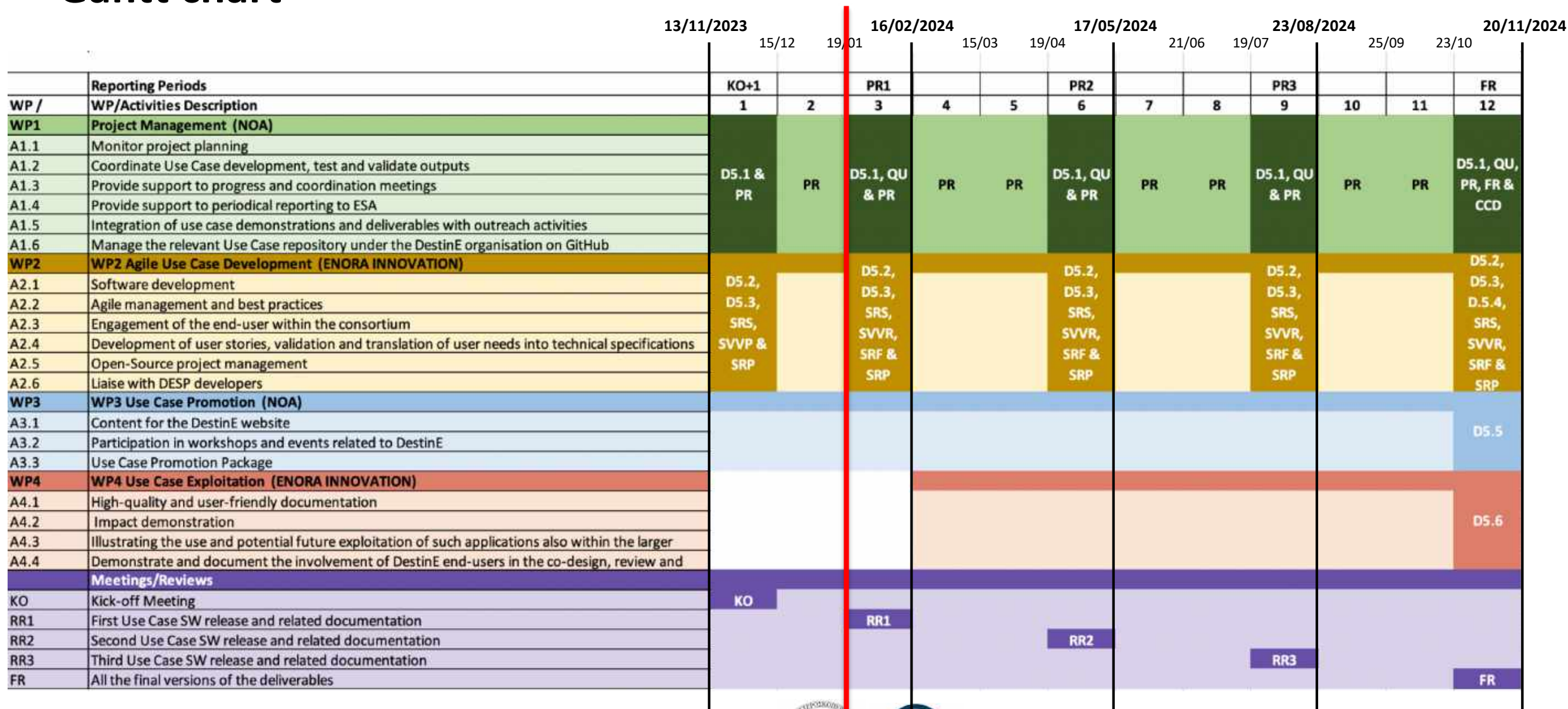
Selected by RHEA under the ESA regulations and Best Practice processes



Weather & Marine  
Engineering Technologies P.C.



# Gantt chart



# Status Overview

- **All actions** assigned to the consortium at KO and KO+1 are **completed**
- Internal weekly meetings in place
- **Sprint 2 is completed** (*further information under Sprint Review 2*), including updates on SW design
- **KO+2 deliverables provided** to RHEA Group
- **Abstracts submitted** to IGARSS 2024 and EGU 2024:
  - ✓ **IGARSS:** *Paper #1219: Destination Renewable Energy: A Renewable Energy application based on Destination Earth Initiative data and platforms* (CCS.28: Copernicus and Destine Platform Ecosystem Opportunities)
  - ✓ **EGU:** *The Development of a Hybrid Renewable Energy Forecasting System under the Destination Earth initiative* (ESSI2.5, EDI, Digital Twins of the Earth System)



## **Sprint 2 Goal**

### **(December 18th 2023 to January 19th 2024)**

- Software Workshop: Session took place on Thursday January 11th
- Work is done or is in progress under below areas
  - Database Design
  - APIs initialization using sample data
  - UI login & template
  - Wireframes designed to cover the business need to contribute to the scalability of the use Case until DESP services are published
- Data collection API and integration trials with Quest production sites
- Integration trials with NOA for forecasting results
- Provide access to DESP to the DRE team (intended after the meeting with the DESP team) → This Task was moved from previous Sprint as Open Item





# Wireframes - HYREF Model Prediction and Energy Production summary



HYREF model's predictive capabilities in forecasting energy production, along with a summary of actual energy output data for comparison and analysis

Thank you!

