NoR Sponsorship request

SDA4Wetlands CCN



SDA4Wetlands

- SDA4Wetlands (Satellite Detection Algorithm for Wetlands)
- Use of Remote Sensing, Satellite based methods for detection and monitoring of wetlands
- Partnership and cooperation with: EOLAS insight (Estonia) and Kappazeta (Scotland)



Project Achievements

- Select algorithms suitable to detect and monitor wetlands
- Create a list of requirements for algorithms
- Test, validate and evaluate them
- TRL2-TRL3: Research and prove feasibility



EO browser (Sentinel Hub)

- Cloud service
- Operates as a SaaS Software-as-a-Service
- Provides instant access to satellite data (Base of our project)
- Handles data management and processing remotely



Cloud services and tools

Streamlined data Access and Processing

 E.g. eliminated manual data management tasks, automatically handled complex operations

Enhanced Scalability

• E.g. Handled massive datasets efficiently, created comprehensive time-series analyses

Advanced visualization and Analysis Capabilities

 E.g. Used custom visualizations, eliminating the need for manual data processing

Improved Collaboration and Workflow Efficiency

• E.g. Enabled team members to work simultaneously with the same datasets

Flexible Data integration and Processing

Implemented custom scripts for specialized analysis needs



Why NoR Services Were Helpful

Streamlined Access to EO Data

 Continuous and reliable access to Sentinel-1 and Sentinel-2 archives

Cost Efficiency

- Lowered data storage and computing costs
- Freed resources to focus on algorithm development and validation

Technical Support and Expertise

Guidance for NoR-sponsored networks

International Collaboration

 Connected us with stakeholders in Estonia and Scotland, strengthening our knowledge



Social Benefits

Better Wetland Management

- Tools for near real-time monitoring of wetlands
- Early detection of harmful changes

Conservation & Biodiversity

- Insights into habits that support crucial bird, plant and insect species
- Potential for improved local policies to protect threatened ecosystems

Awareness & Education

- Survey results shared with local agencies, boosting awareness about wetland surface
- Supports broader outreach campaigns about water resource management

