OIKOS Satellite Symposium Sharing Biodiversity data for re-use: Informatics tools and processes in Ecology. *Lund University, 6 February 2017*

Wireless Remote Animal Monitoring (WRAM):

The national Swedish biotelemetry database e-infrastructure for sensor data from fish and wildlife

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One of the most important tasks in modern wildlife biotelemetry is the ability to automatically receive, handle and share the ever growing amount of data in order to collaborate efficiently. The Wireless Remote Animal Monitoring (WRAM) e-Infrastructure contains more than 182 million records from real-time biotelemetry sensors and is used to date by 38 user groups from 8 countries, monitoring 24 species and more than 2 600 individual animals. The infrastructure consists of 2 main parts: 1) The backend WRAM Data Warehouse (WDW) is a high performance data warehouse for automatic reception and storage of real-time 'big data' as position, acceleration, or heartbeat data from fish and wildlife. Modern 'key-value-pair' database technics enable any type of current or future sensor data to be stored. 2) The WRAM Data Broker (WDB) with its Client – and Admin-Portals is the single-sign-on web interface seamlessly federating the WDW with other similar database systems around the world as Movebank or CAnMove.

During the workshop session we present and demonstrate the abilities of the client- and admin-portal of the new version of the infrastructure, currently in the final stages of development.