



NETHERLANDS INSTITUTE OF ECOLOGY

A series of five dandelion seed heads and seeds, arranged from left to right, showing the progression from a single seed head to a cluster of seeds blowing away.

PROCESS OF DATA MANAGEMENT AT NIOO-KNAW

Marianne van der Heijden

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Research data

- ▶ Lab notebooks = files from instruments
- ▶ Graphics, videos
- ▶ Models, samples, PCR, Micro array

- ▶ Experimental & monitoring data
- ▶ Raw data & analyses
- ▶ Publications & follow ups



Building a framework

- ▶ Together with researcher
- ▶ Contact persons per department

- ▶ Hosting ICT environment
- ▶ Discovery and archiving system



Step-by-Step Approach

- ▶ Inventory of data
- ▶ Structuring the data files
 - Training and checklist to start earlier with structured data
- ▶ Constructing datasets
 - Unity of files
- ▶ Archiving the datasets
- ▶ Publishing the Metadata for discovery



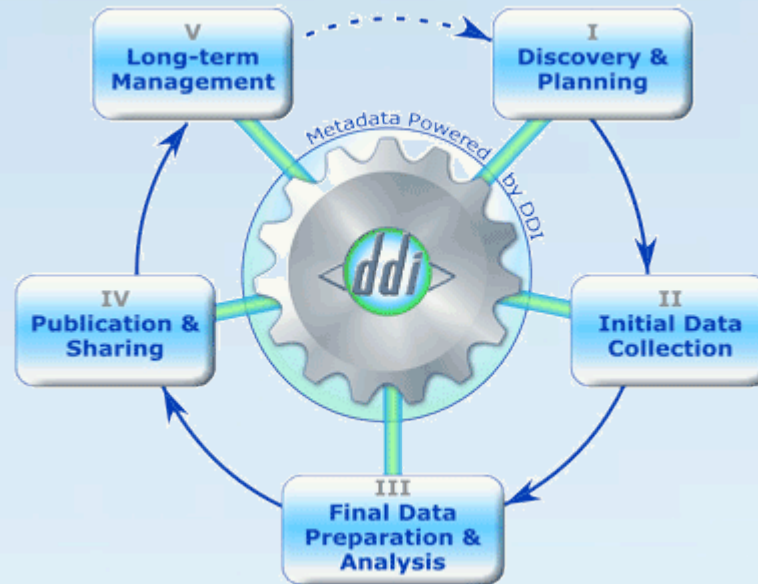
Motivating and Explaining

- ▶ Benefits of data archiving
- ▶ Recognition from data publishing
- ▶ Demands from publishers and financiers

- ▶ NIOODATA wiki
- ▶ Data day as a joint data archiving exercise



Data life cycle



Ease of Use

- ▶ Each format dedicated handling
- ▶ Integrate archiving with workflow steps
- ▶ Selection criteria
- ▶ Interface Design with Lots of Defaults
- ▶ Default suggestions in stead of fixed standardisation



DATA DAY

TUESDAY OCTOBER 20, 2009
Conference Room

10:00 – 10.45 General Introduction by VLIZ

Learn how to archive your data

Benefits of data archiving

Hands on Session

Archive your data yourself with help and explanation

11:00-12:30 Marine Microbiology

12:30-13:00 lunch break

13:00-14:30 Ecosystem Studies

14:30-16:00 Spatial Ecology





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NIOO DATA PORTAL

► In Cooperation with VLIZ

NIOO Nederlands Instituut voor Ecologie (NIOO-KNAW)
Data and Information Portal

Home Information System Dataset Submission Archiving System Training Register

Home

Statistics: 123 documented datasets; 98 archived datasets; 15 integrated datasets

Welcome to the **Data and Information Portal** of the Netherlands Institute for Ecology (NIOO-KNAW). The Portal has been developed in order to streamline and organise the data and information management of the institute. The Portal consists of:

- [The Data Information System](#), with an extensive metadescription of the datasets available at the NIOO Institute
- [The Quick Dataset Submission Form](#), where you can upload the metadata of your overall dataset
- [The Data Archiving System](#), with guidelines on how to describe and archive your datafiles online into the Marine Data Archive
- [Information on the training courses](#) on data management
- [Project information](#)

This project is a collaboration between the Flanders Marine Institute (VLIZ) and the Netherlands Institute for Ecology (NIOO-KNAW). A preliminary investigation at NIOO-CEME resulted in a working method that will lead to an improved organisation of the data management and data archiving. Within this project VLIZ will implement this working method and NIOO-CEME acts as a pilot. However the working method and processes will be applicable for all NIOO research centra. The training courses on data management for scientific data, an important aspect within this project, are also intended for participants from the three NIOO centra.

Royal Netherlands Academy of Arts and Sciences NIOO



Take home thoughts

- ▶ Technology is facilitating, not prescribing
- ▶ Motivation is essential
- ▶ Resolutions in close contact with researcher
- ▶ Start as early as possible in data life cycle process



More information

- ▶ <http://data.nioo.knaw.nl>
- ▶ M.vanderheijden@nioo.knaw.nl
- ▶ <http://www.slideshare.net/mheyden>

