

DATA MANAGEMENT A key focus area for SAEON

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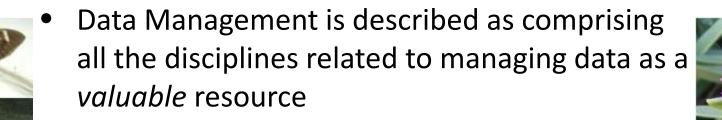
VRF SAEON

South African Environmental Observation Network

SAEON's VISION



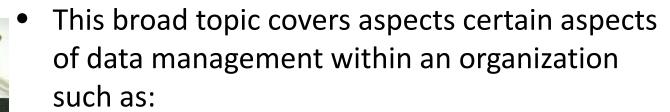
Introduction



 This is a <u>very</u> broad statement – what does it mean in reality?

 It can include the development and execution of policies, practices and procedures that manage the full "data life-cycle"

Data Governance



- Data Quality
- Business Processes
- Risk Management



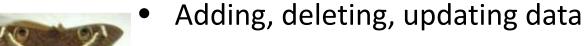


Data Architecture, Design & Analysis



- Data inspection
- Data cleaning
- Data transformation
- Data modeling
- Data mining using data to uncover knowledge rather than using data for descriptive purposes only

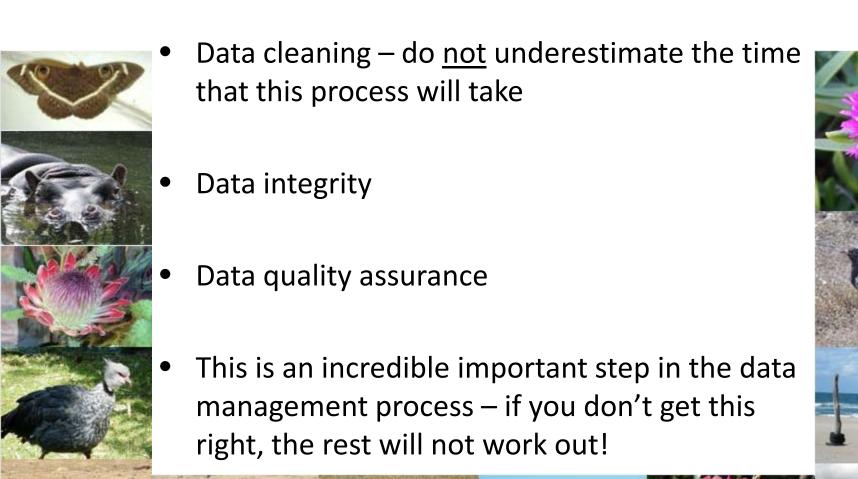
Database Management & Security



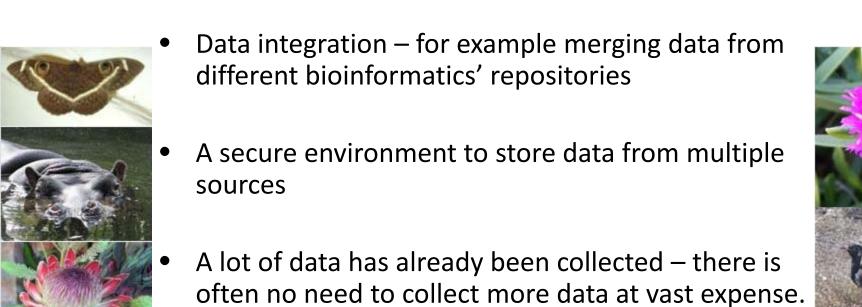
Database administration

- Database Management System systems / software / end users
- Data access
- Data privacy
- Data security
- Legal implications numerous Acts dealing with data availability

Data Quality



Data Warehousing



 Differentiate from the original raw data, and datasets created through analytical processes

Use what is already out there...

Document & Content Management

• A system for tracking electronic documents such as reference papers, images etc.

 Efficient storage, naming and summaries of documents will allow you to easily access documents which are relevant for you at that time

This can be another valuable resource for you

Metadata Management



Creating metadata

Metadata discovery

Metadata publishing

Metadata registry

We will discuss this in detail later today

Why is Data Management Important?

 Conducting research without a solid data management process is like trying to build a house without foundations

Good Data Management facilitates good Project Management

It forces you to understand and document what is in your data, meaning that less time is wasted when you revisit data and don't remember what you did or how it was collected

So What???



All talk and nothing concrete??

