

The Role of Collections for Contaminant Monitoring in Raptors across Europe State of Play and Next Steps

Welcome address



Erik Smets, Scientific director
Virtual meeting
February 11 & 12, 2021

Museum Collections Research



M u s e u m





Live Science





Diversity of Life

Dinosaur age



Ice Age



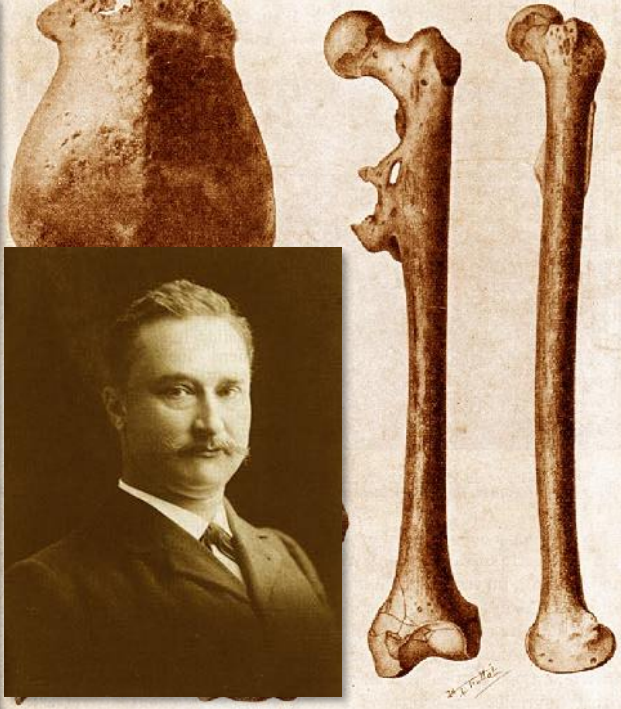
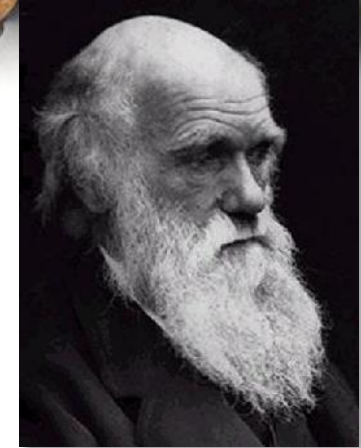
Seduction



Collection



The finches of
Charles Darwin



Eugène Dubois'
Homo erectus



Philipp von Siebold
Barnea japonica



<https://bioportal.naturalis.nl/dashboard/>



Naturalis dashboard

This dashboard is a window to the entire Naturalis collection. The complete collection has been digitized in some form, and the process to add the meta-data of all specimens at object level is ongoing.

The part of the collection that already has been digitized at object level was added to the Netherlands Biodiversity API (NBA) and is accessible through the BioPortal. Additionally, the NBA can be accessed using [nbaR](#), a specially developed client for the statistics- and analytics-language R. The API and BioPortal also give access to taxon information from the Catalogue of Life and the Dutch Species Register.

In order to present a more complete view on this dashboard, additional data sources have been used to present some facts for the entire collection.

Please note the distinction between the use on this page of the word 'specimen', which refers to individual specimen objects, and the term 'specimen record', which refers to a specimen record registered in the NBA.



Export dates

Naturalis Botany catalogues	14-12-2020
Naturalis Zoology and Geology catalogues	22-12-2020
Naturalis storage units	22-05-2017
Nederlandse Soortenregister	11-01-2021

Specimen count

42.835.776
specimens

registered in the Netherlands Biodiversity API as 8.214.106 specimen records and 1.114.112 storage units.

Taxon count

2.048.731
taxa

registered in the Netherlands Biodiversity API, sourced from the Catalogue of Life and the Dutch Species Register.

Multimedia count

5.473.166
multimedia records

registered in the Netherlands Biodiversity API, consisting of specimen images from the collection and taxon images from the Dutch Species Register.

8,5 million specimens digitized in high resolution
(incl. 4,5 million herbarium sheets)

Most specimens registered at the storage unit level

ARISE

Authoritative and Rapid
Identification System for
Essential biodiversity
information



Distributed System of Scientific Collections



Research



Erik Smets
**Taxonomy,
Systematics and
Geodiversity**



Frederic Lens
Functional Traits



Martin Rücklin
**Vertebrate
Evolution,
Development and
Ecology**



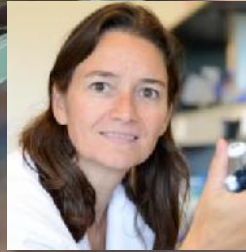
Hans ter Steege
Tropical Botany



Vincent Merckx
**Understanding
Evolution**



Willem Renema
**Marine
Biodiversity**



Barbara Gravendeel
**Evolutionary
Ecology**

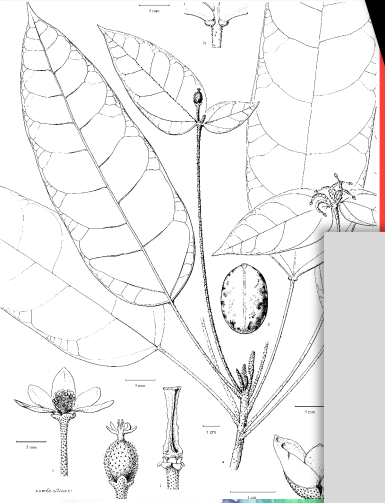


Koos Biesmeijer
**NL Biodiversity
and Society**

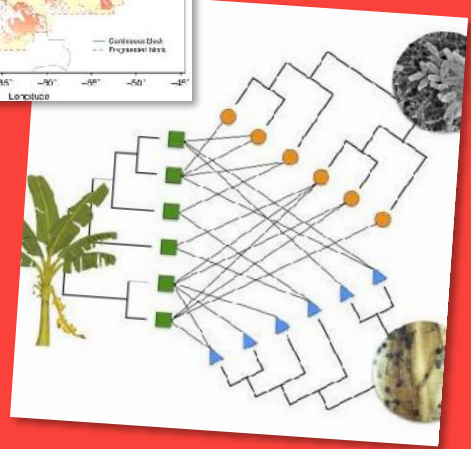
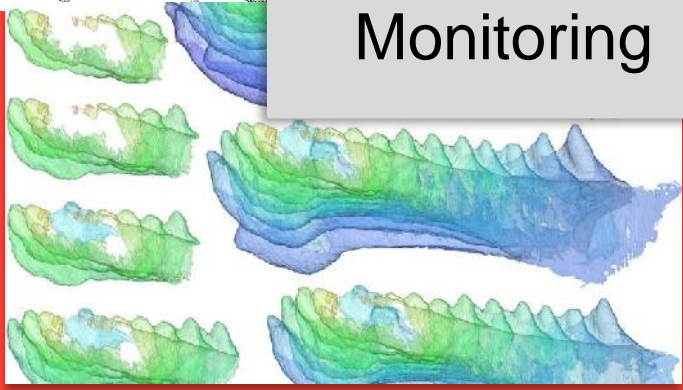
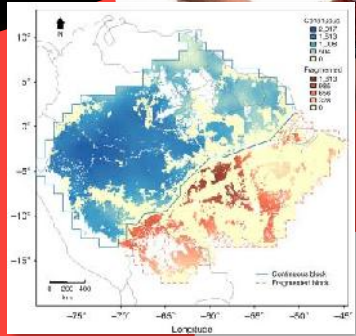


Katja Peijnenburg
**Plankton Diversity
and Evolution**

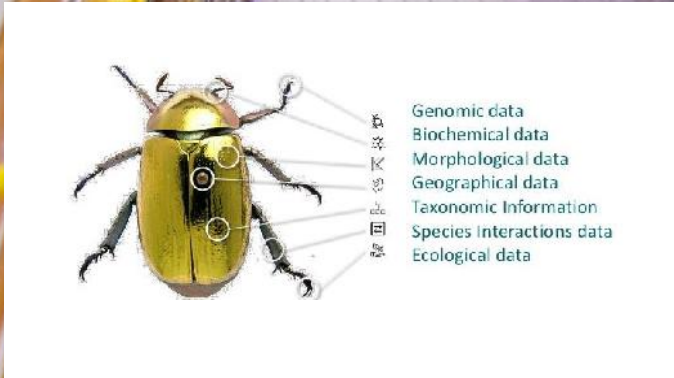
Where we are now

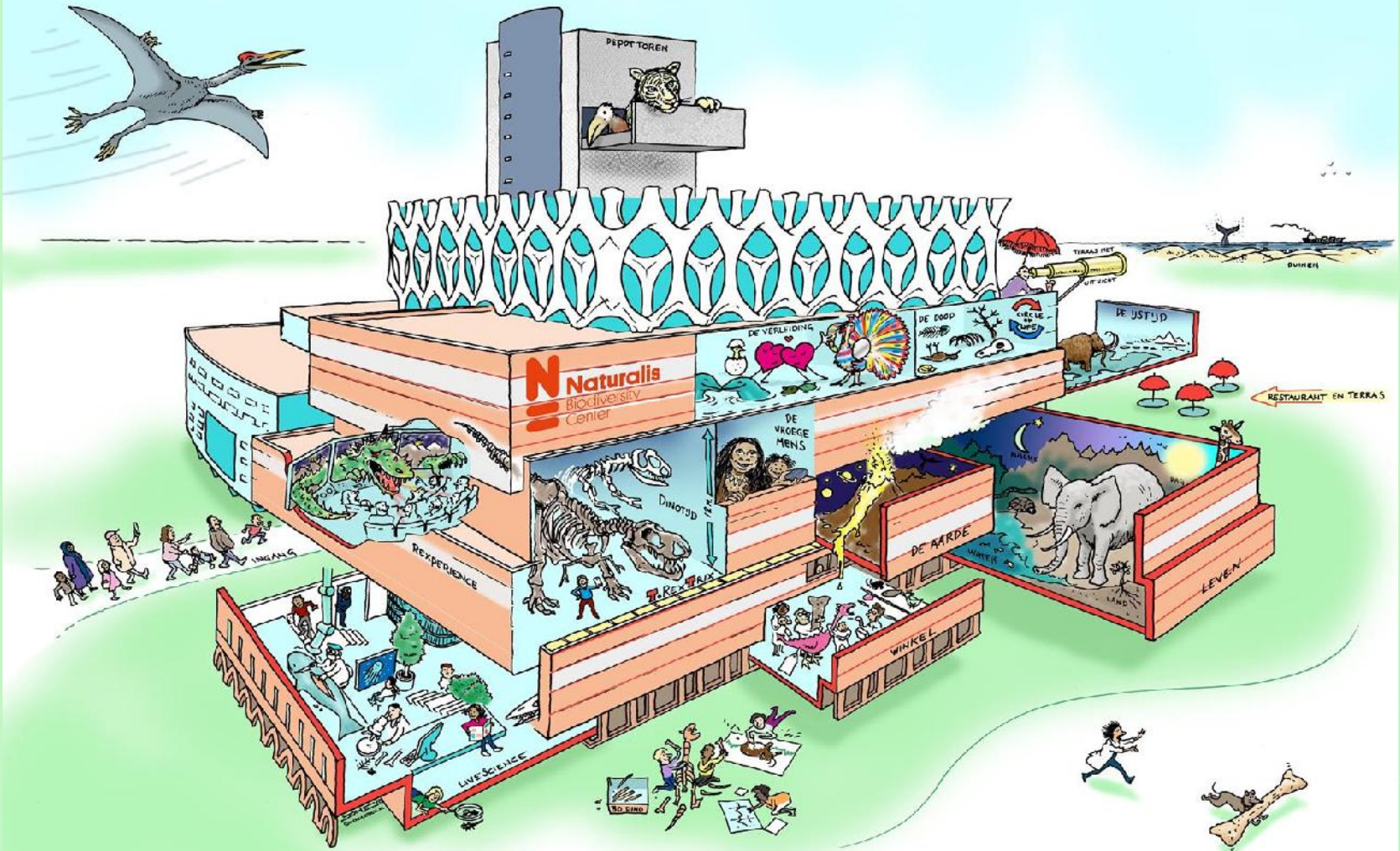


Evolution
Identification
Interactions
Monitoring



A unique institute





N Naturalis
Biodiversity
Center

DEPOT TOREN

DE VERLIDING OP

DE DOOD

DE JUSTID

DE VROEGE MENS

DE AARDE

LEVEN

RESTAURANT EN TERRAS

TERRAS MET
UITZICHT

DUINEN

REXPERIENCE

WINKEL

LIFE SCIENCE

INGANG

NO SIMO