



# GBIF Norway after 2019?

Global Nodes Meeting at GB26, Biodiversity Next, Leiden | 19 October 2019



Research Council of Norway (RCN)  
UiO Natural History Museum (NHMO)  
Norwegian Biodiversity Information Centre (NBIC)

- Hosted by the UiO Natural History Museum since 2005
- Funded by the Research Council, NHMO and NBIC
- Node staff at NHMO (since 2005) & NBIC (since 2018)
- Project funding through 4 project periods (2005-2019)
- Node data publishing services are well integrated in operational national decision making systems
- Node funding after 2019 is not (yet) in place!!!

# TIMELINE FOR GBIF NORWAY

*1999 – OECD Science Forum recommends creating a GBIF*

*2001 – GBIF.org is operational (and the first member countries join)*

**2003 Nov** – seminar in Oslo recommends to join GBIF

**2004 February** – Norway signs the MoU with GBIF

**2005-2019** – Node at NHMO in Oslo operational

- annual GBIF.no Node budget was ~ 300k Euro
- 2 Node staff members: Node Manager & IT developer

**2020** – Proposed permanent GBIF.no infrastructure

- The funding status after 2019 still remains uncertain!!



# NODE BUDGET (2005 - 2019)

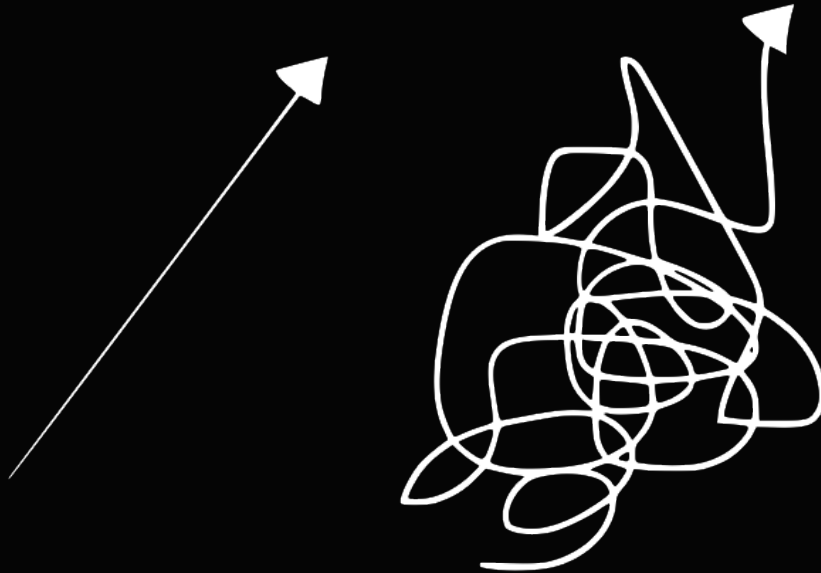
Overall investment (15 years, 50 MNOK = 5 M€)

- 2005-2007 (3 years -- 5,6 MNOK = 0,6 M€)
- 2008-2011 (4 years -- 12,1 MNOK = 1,2 M€)
- 2012-2016 (5 years -- 20,0 MNOK = 2 M€)
- 2017-2019 (3 years -- 12,1 MNOK = 1,2 M€)
- *2020 → permanent long-term infrastructure??*



# GBIF GOVERNANCE GUIDELINES

**expectation**      **reality**



# GBIF PARTICIPANT NODE

Participant Node (*min 4 people*)

- Node Manager (coordination)
- IT developer (informatics)
- Data scientist (science support)
- Biodiversity informatics officer





# STATUS 2019 GBIF.no

## Node team at NHMO, University of Oslo

Dag Endresen, *Node Manager*

Rukaya Johaadien, *IT developer*

Vidar Bakken, *part-time (30%)*

Fridtjof Mehlum, *Head of delegation*

## Norwegian Biodiversity Information Centre

Nils Valland, *node board member*

Stein Hoem, *IT Manager NBIC*

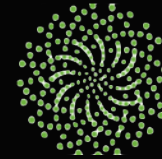
Knut Hovstad, *data portal contact*

Wouter Koch, *open data contact*

## NTNU University Museum

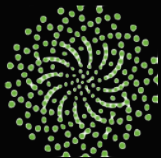
Solveig Bakken, *node board member*

Anders Finstad, *GBIF Science committee*



# GBIF NORWAY NODE CONSORTIUM (2020)

*Towards formalized sharing of Node responsibilities*



**UiO • Natural History Museum**  
University of Oslo



**NORWEGIAN BIODIVERSITY  
INFORMATION CENTRE**



**NTNU**

**University Museum**



**NINA**

Norsk institutt for naturforskning



# LANDSCAPE – STATUS AND PLANS

Global Biodiversity Information Facility – Norway (since 2004)

Revita – Digitization of museum specimens (2007 - 2018)

ForBio – Research School in Biosystematics (2010)

Norwegian Barcode of Life network (2012)

DiSSCo Norway (2019)

NIBIGEN (RCN Infrastructure) – *proposed*

Living Norway (RCN Infrastructure) – *proposed*

DiSSCo Norway (RCN ESFRI Prepare) – *under development*

# NIBIGEN NATURE BIOBANK (RCN INFRASTRUCTURE)

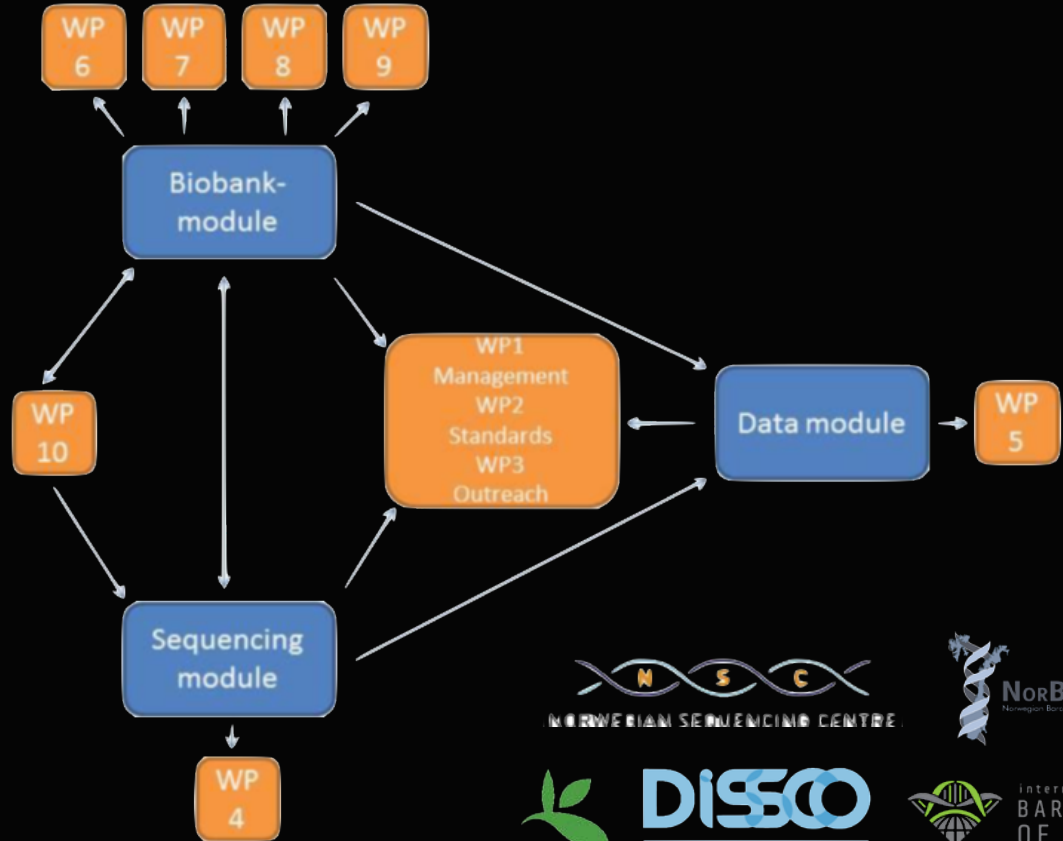
Nature biobank of digitized material samples *in silico*

11 M€ – 5 years

UiO coordination

Distributed infrastructure

Builds on museum collections, DNA barcoding, genome sequencing and DiSSCo RI



  
NORWEGIAN SEQUENCING CENTRE

  
NorBOL  
Norwegian Barcode of Life



**DiSSCO**  
Distributed System of Scientific Collections



international  
BARCODE  
OF LIFE



# Living Norway Ecological Data Network

Data mobilization

Institute sector

Ecology data

Observation data

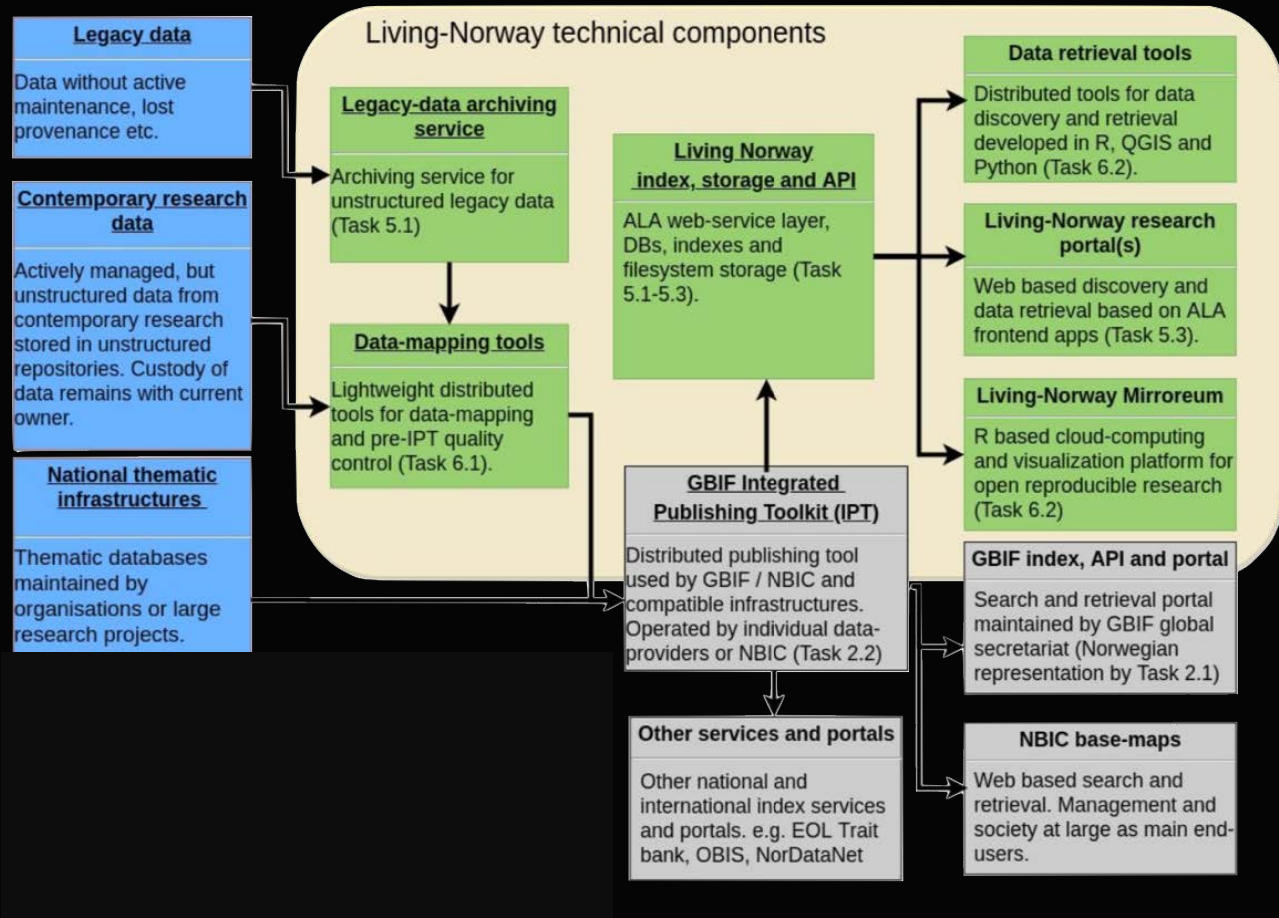
9 M€ – 5 years

NINA coordination

Distributed infrastructure

Builds on BioAtlas Sweden  
& Living Atlas community

## LIVING NORWAY (RCN INFRASTRUCTURE)



# DISSCO NORWAY (RCN & ESFRI INFRASTRUCTURE)

Distributed System of Scientific Collections – DiSSCo RI

DiSSCo Prepare (ESFRI) to be launched in 2020

DiSSCo Norway consortium MoU signed (by the 4 university museums)

Align/integrate GBIF Norway with DiSSCo Norway??



# NODE SUSTAINABILITY

Securing the Node budget is a challenge also for operational nodes...

Project-based funding remains a major obstacle to long-term planning!







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