DYLAN

How to manage DYnamic LANdscapes?

- Towards a new framework for the management of cultural and natural heritage in upland Landscape Conservation Areas (LCA) in Norway

Project NFR: 2009 -2011

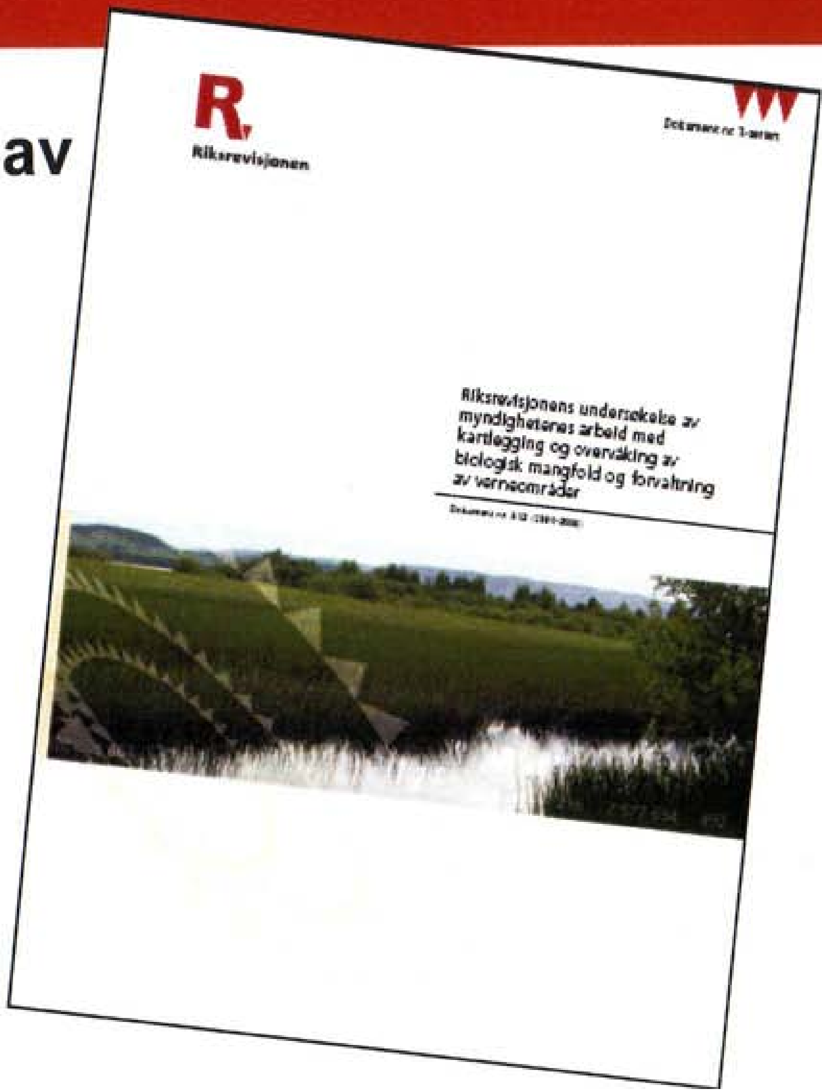
Riksrevisjonen

Office of the Auditor General of Norway

Riksrevisjonens undersøkelse av

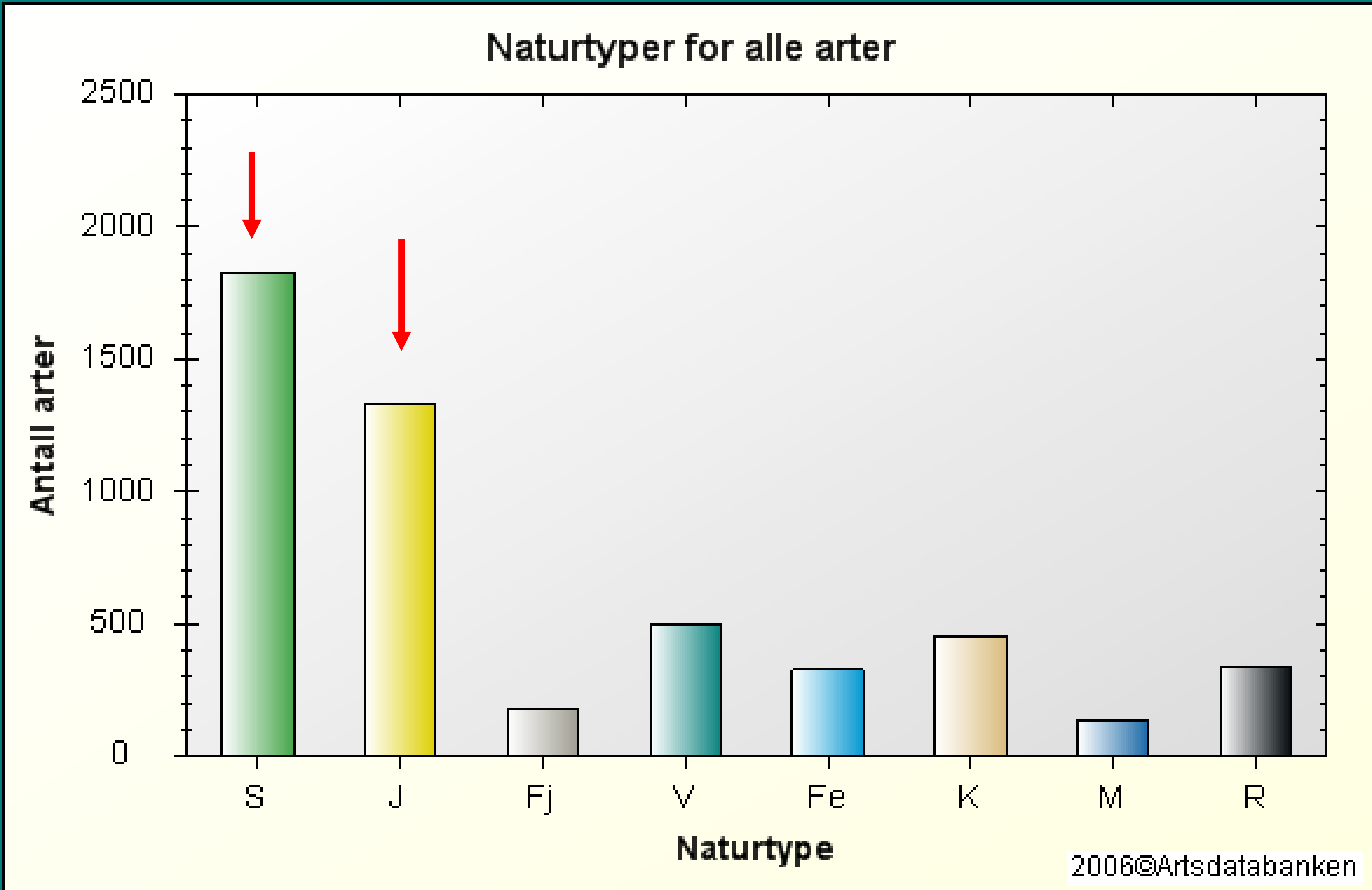
myndighetenes arbeid med kartlegging og overvåking av biologisk mangfold og forvaltning av verneområder

Dokument 3:12 (2005-2006)

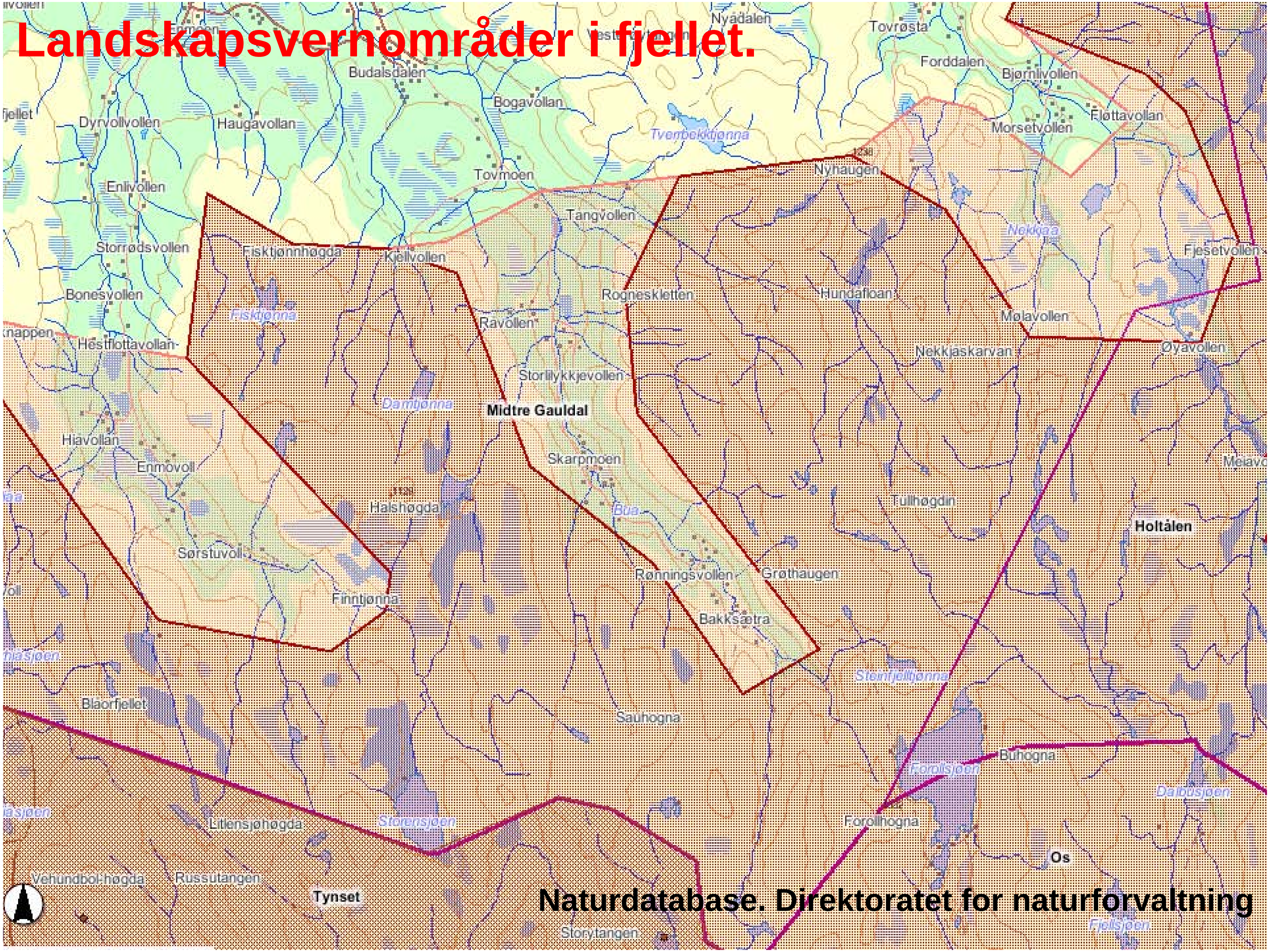


Pressekonferanse 7. september 2006
Presentasjon av avdelingsdirektør
Trond Hjelle

The Norwegian Red-list 2006: The majority of red-listed speceis are found in forests and semi-natural habitats



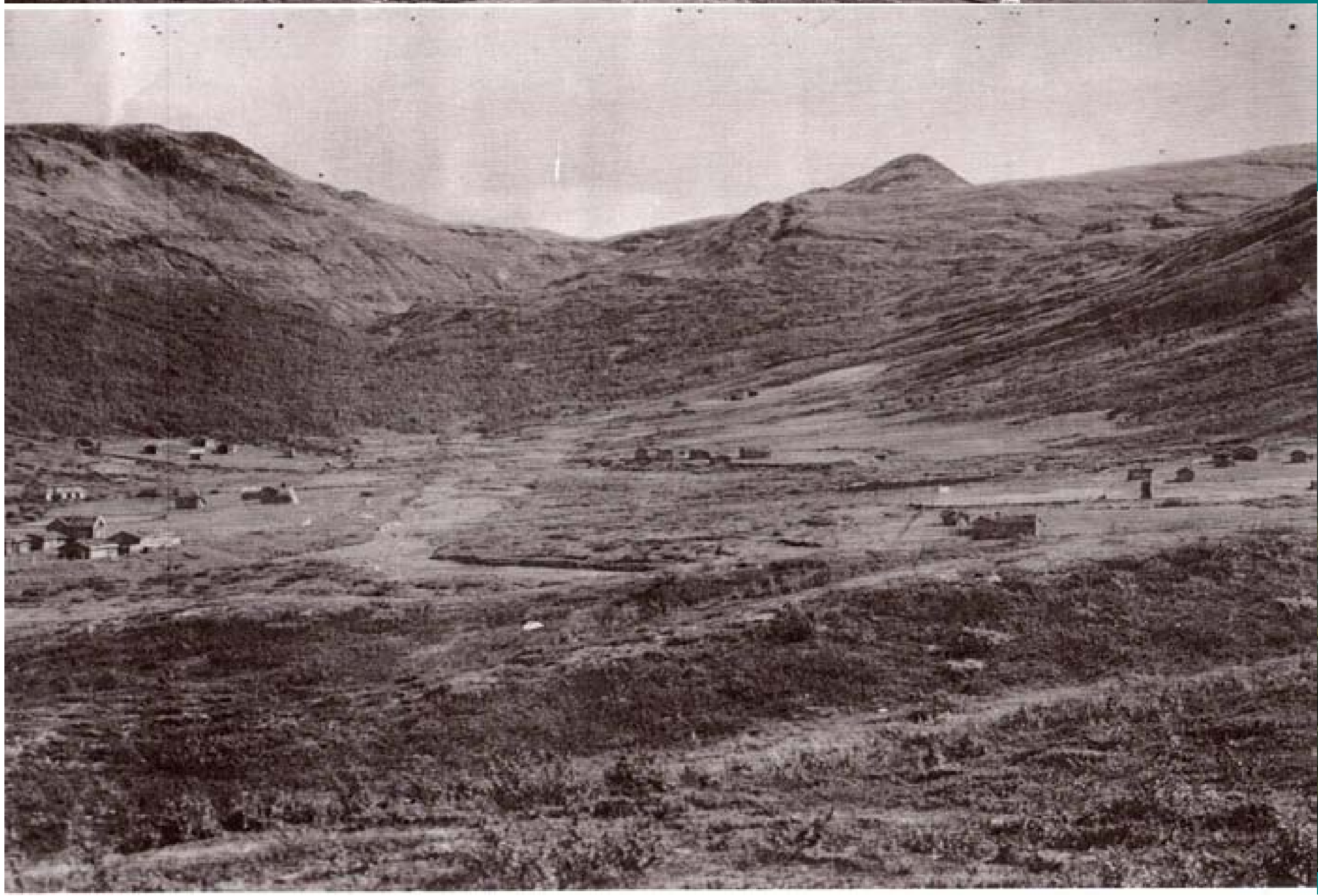
Landskapsvernområder i fjellet.

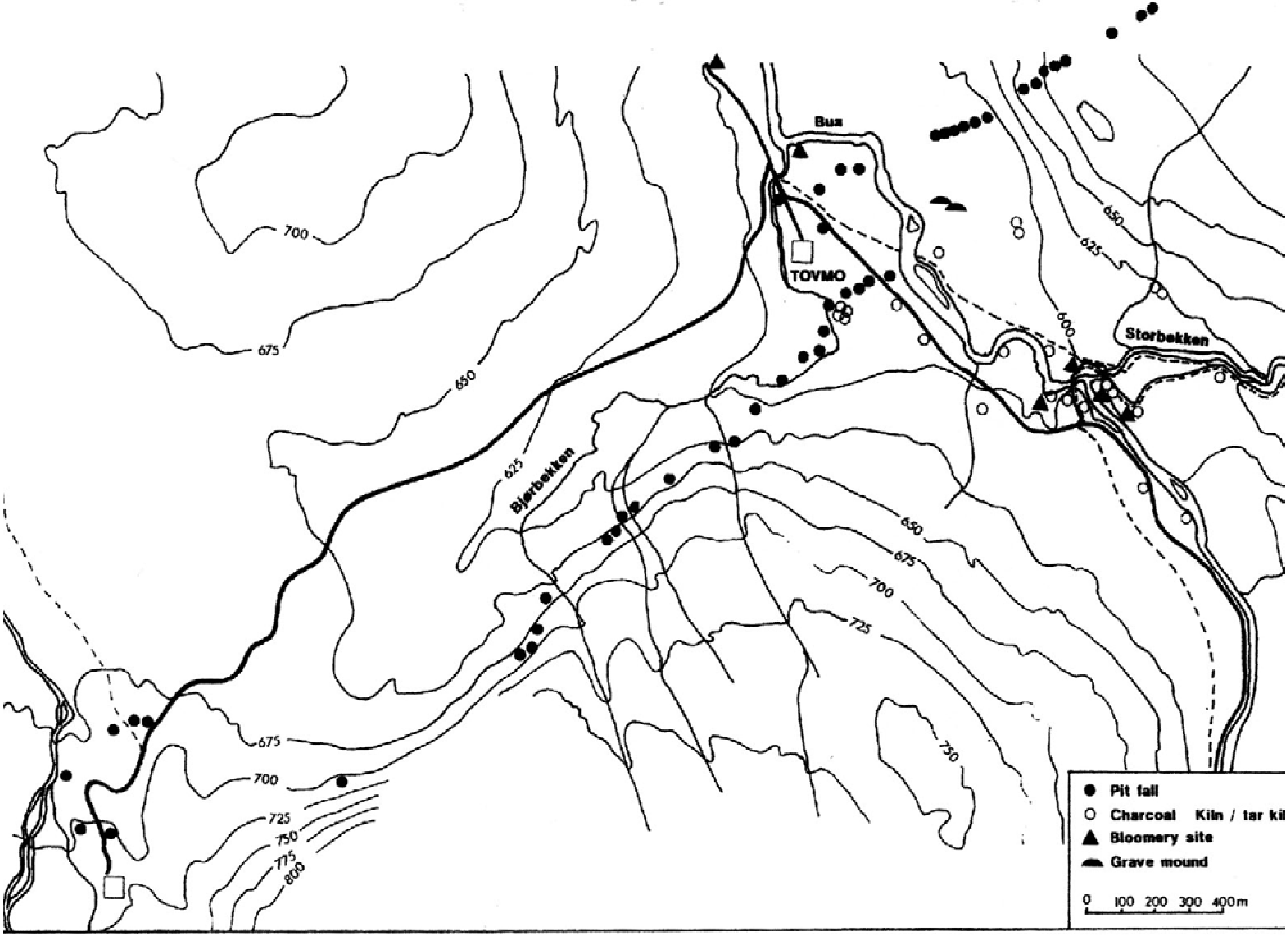


Naturdatabase. Direktoratet for naturforvaltning

BUDALEN LANDSKAPSVERNOMRÅDE

Bevaringsmål: “bevare et særpreget natur- og kulturlandskap”

Bua
TOVMO
Storbekken
Bjørbekken
700
675
650
625
600
725
750
775
800
Pit fall
Charcoal Kiln / tar kil
Bloomery site
Grave mound
0 100 200 300 400 m

Målsetning DYLAN

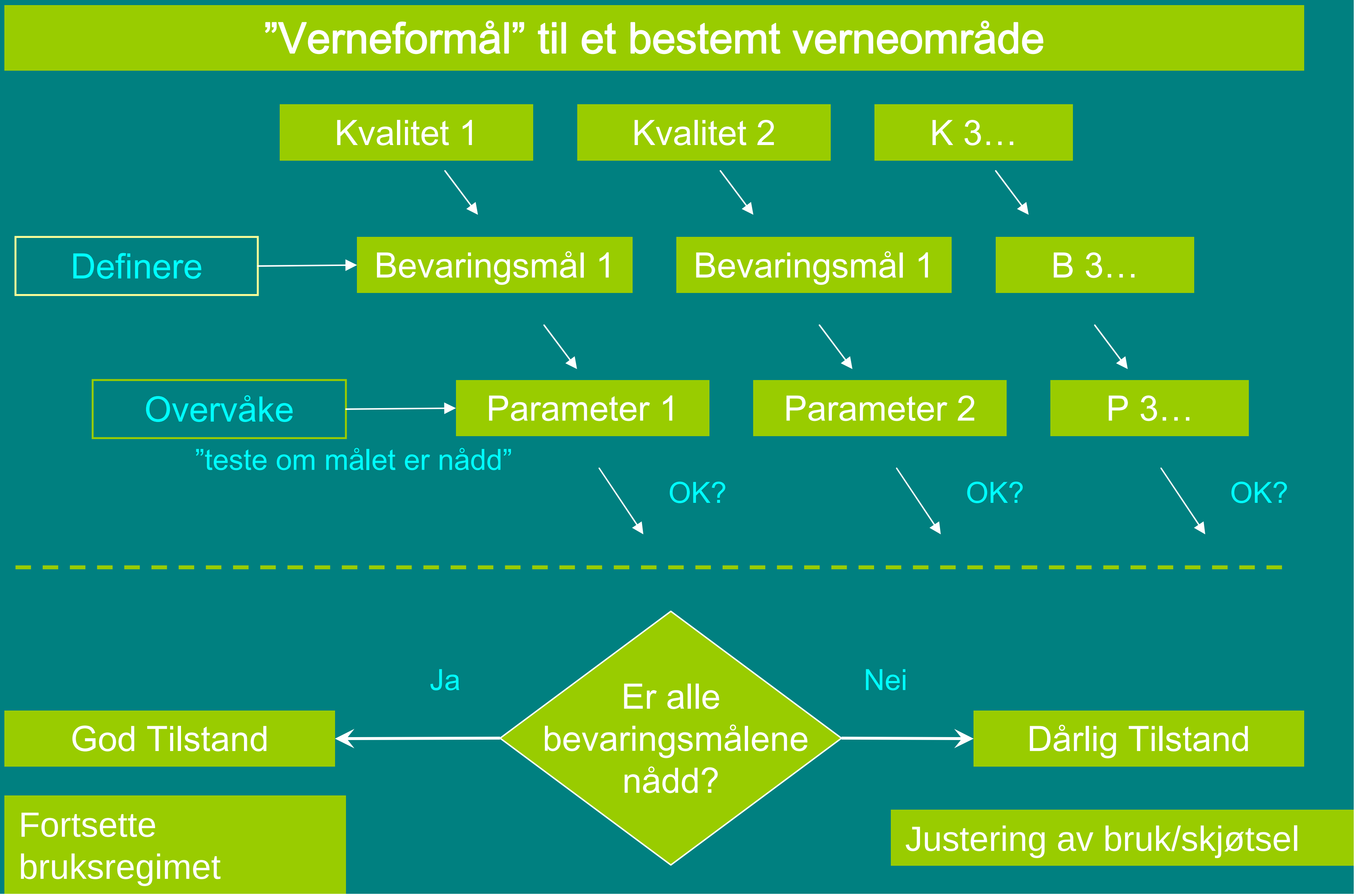
- Gi grunnlag for en kunnskapsbasert og mer målrettet forvaltning av både kultur- og naturminner i landskapsvernområder i fjellet

WP1: Examine the long-term natural and cultural variability in four upland LCAs in Norway

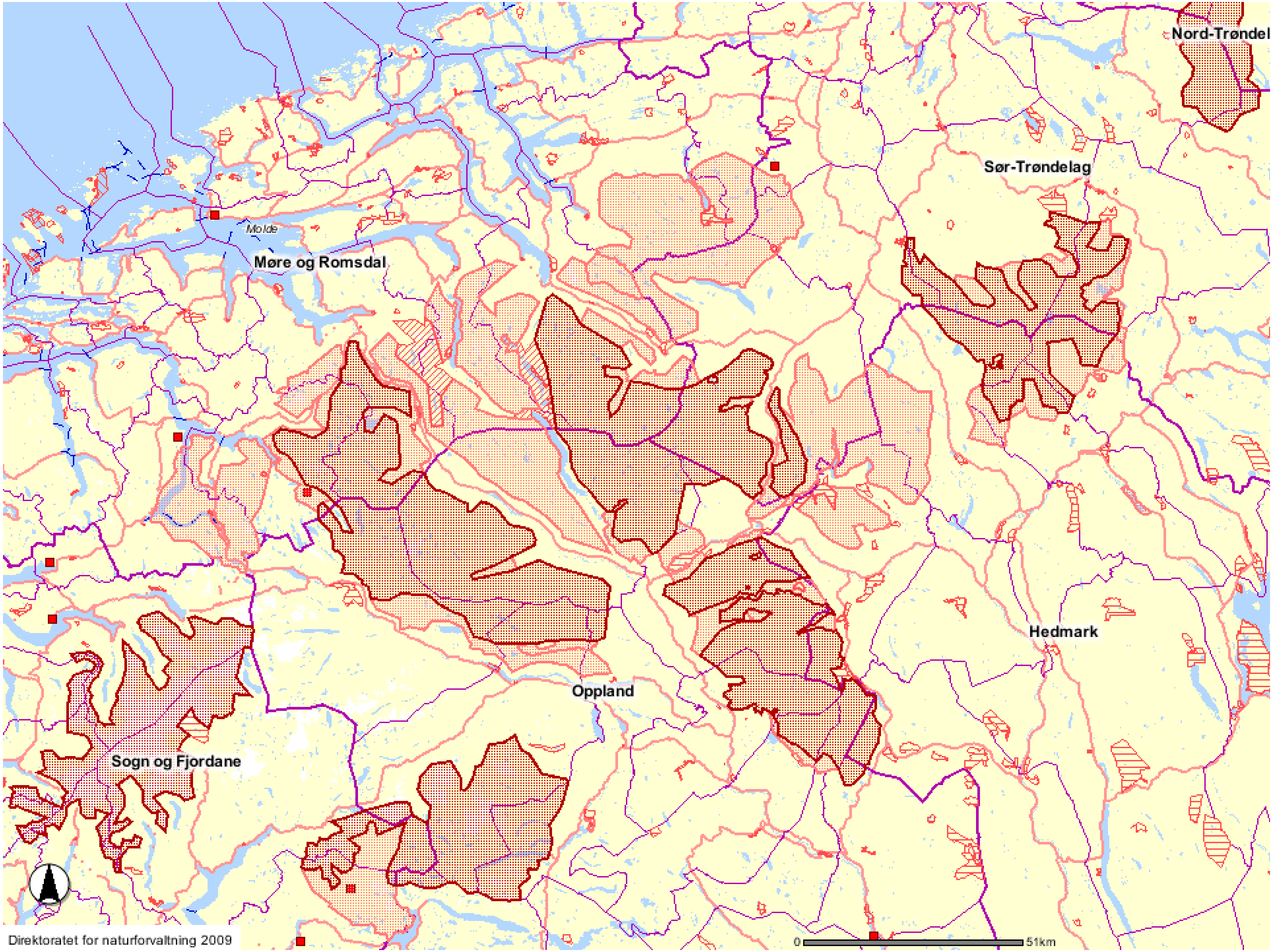
- Large Scale: Identify red-listed species and cultural heritage at present
- Small scale: Describe the landscape in more detail, and identify cultural and natural conservation objectives inherent at 4-6 time stages.
- Identify major driving forces underpinning landscape dynamics

Artskart Budalen januar 2009

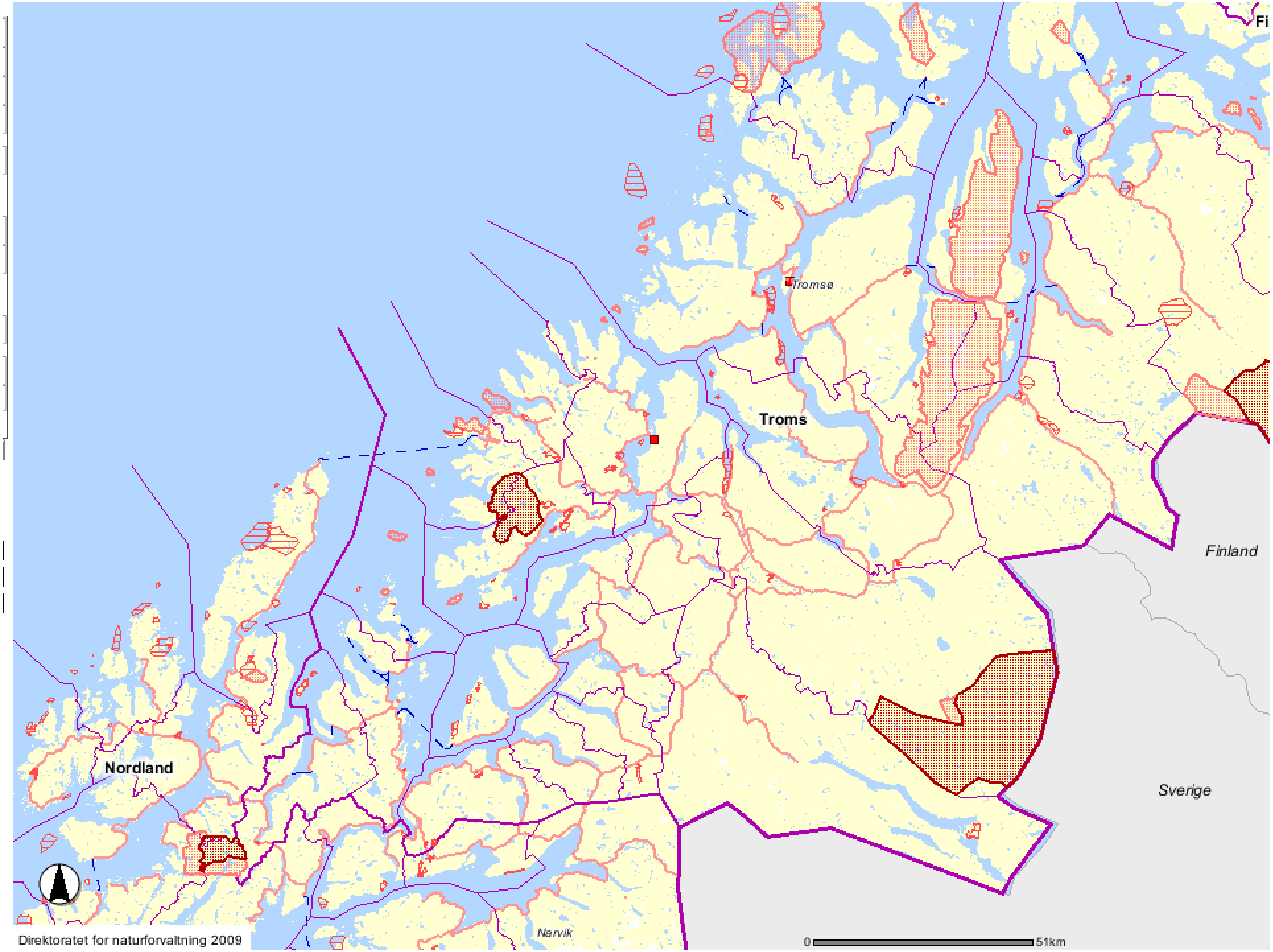
Flytskjema for overvåking



Study-area	Cultural heritage	Natural heritage
Grimsdalen LCA, Area: 122,5 km^2	Pit-falls (reindeer), large-scale trapping systems (reindeer), grave mounds, house-sites, permanent settlement based on hunting and farming during The Late Iron Age and early Middle Age, mountain summer-farms, mining activity.	Species-rich semi-natural grasslands. Red-listed species especially vascular plants, bryophytes and fungi
Sunndalen, Erdalen, Bødalen within Jostedalsbreen National Park. Area 40 km^2	House remains from deserted summer farms, grave mounds, grave finds, charcoal kilns, track ways, grazed forest from the Bronze Age, and establishment of summer farm pastures in the Iron Age. Summer farms with clustered buildings	Semi-natural grasslands. Glacier forelands and summer farming, large variations in species diversity related to altitude gradients of 2000m, mixture of continental and western species
Budalen LCA. Area 33.8 km^2	Pit-falls (moose), ironmaking and smithing, grave mound, charcoal kilns, tarkilns, mountain summer farming system with in- and outfields (pastures and former hey-making fields), semi-domestic reindeer herding	Species-rich semi-natural grasslands; large variations related to altitude, land-use, soil pH. Red-listed species especially vascular plants, bryophytes and fungi
Dividalen LCA. Area 19 km^2 Parts of Øvre Dividalen NP will be included.	Mixed Sami and "Døla" culture. Pitfalls, homestead remains, turf hut sites, saami fire place (arran), sacrificial place, semi-domestic reindeer herding, hunting cottages, tarkilns, partly grazed and previously mown forest.	Old Pine forest (traditionally used and harvested), diverse river bank vegetation. Diverse flora including red-listed species of vascular plants, fungi and beetles.



Nord-Trøndel
Sør-Trøndelag
Molde
Møre og Romsdal
Hedmark
Oppland
Sogn og Fjordane
Direktoratet for naturforvaltning 2009
0
51km



Fi
Tromsø
Troms
Finland
Nordland
Sverige
Narvik
0
51km
Direktoratet for naturforvaltning 2009

Time

2009-June 2011

WP1

Provide evidence based knowledge

WP2

Stakeholder perspectives and conservation philosophies

WP3

A comparative study of upland regions in UK and Norway

June 2011-December 2011

WP4

1. National conference: Present the results from WP1, WP2 and WP3 in June 2011
2. Use an advisory group to suggest a new framework for the management and conservation of LCA's in Norway. This framework will be presented and debated on the 2 conference in december 2011.

- **Organization and collaboration:** Project leader: Gunnar Austrheim, VM, NTNU.

- WP1: Gunnar Austrheim, Section of Natural History,
- WP2: Terje Brattli, Section of Archaeology, WP3: Post doc. & Des B. Thompson, SNH
- WP4: Reidar Andersen, Section of Natural History

- **Active partners**:
- Museum of Cultural History & Natural History Museum, UIO,
- Bergen Museum, UIB,
- Tromsø Museum, UIT
- NTNU, Museum of Natural History & Archaeology
- The Norwegian Institute for Cultural Heritage Research, NIKU.
- DBT. Thompson, Scottish Natural Heritage, JNCC.

- **Advisory group**:
- Ecology John Atle Kålås, Artsdatabanken, NO, Des Thompson, Scottish Natural Heritage, UK,
- Landscape archaeology: Birgitte Skar, NIKU,NO, archaeology: Reidar Bertelsen, UIT, NO, Eva Svensson, Karlstad University, S
- Paleoecology: John Birks, UIB, NO, Bent Odgaard, Aarhus University, DK
- Geography: Gunhild Setten, Michael Jones, NTNU, NO.
- History: Aud Mikkelsen Tretvik, NTNU,NO

Communication platform

Project management:TRH

Advisory group: 11 scientists

WP1

Multi-disciplinary groups	O:K. Kallhovd Grimsdalen	B:K.L.Hjelle. Jostedal	TR:P.J.Sjøgren Dividalen	TRH:T.Solem Budalen
Multi-Inst. groups	Scientific groups: *Ecology *Archaeology *Palaeoecology	External services (formidling)	Database- management	

General communication

- (1) Establish www.ntnu.no/dylan
- (2) Photos and film
- (3) A major museum-exhibition
- (4) Publish popular and scientific articles.

- (5) Report for national management directorates: "General guidelines for the management of both cultural and natural heritage in Norwegian conservation areas in the uplands".

Status budsjett

- NFR støtter DYLAN. Budsjett 1.8 mill 2009-2011.
- DN, RA og SLF er omsøkt til sammen 1.2 mill 2009-2011
- Egeninnsats ca. 1.3 mill. 2009-2011

	2009	2010	2011	
adm/koordinering	250	200	200	
WP1 Trondheim	325	325	125	
WP1 Tromsø	325	325	125	
WP1 Bergen	325	325	125	
WP1 Oslo	325	325	125	
NIKU	200	200	200	
WP1 Workshops	70	70	115	
WP2 Drift Workshops	165	165	190	
WP3	20	70	70	
WP4			100	
External services	50	100	150	
Post doc.		824	849	
Total	2045	2929	2374	
Own funding	1290	1346,25	1251,25	