



Managing goose populations: the flyway approach and the African-Eurasian Waterbird Agreement (AEWA)

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Presentation overview

- Pink-footed Goose management
- Other goose management processes
- European Goose Management Platform

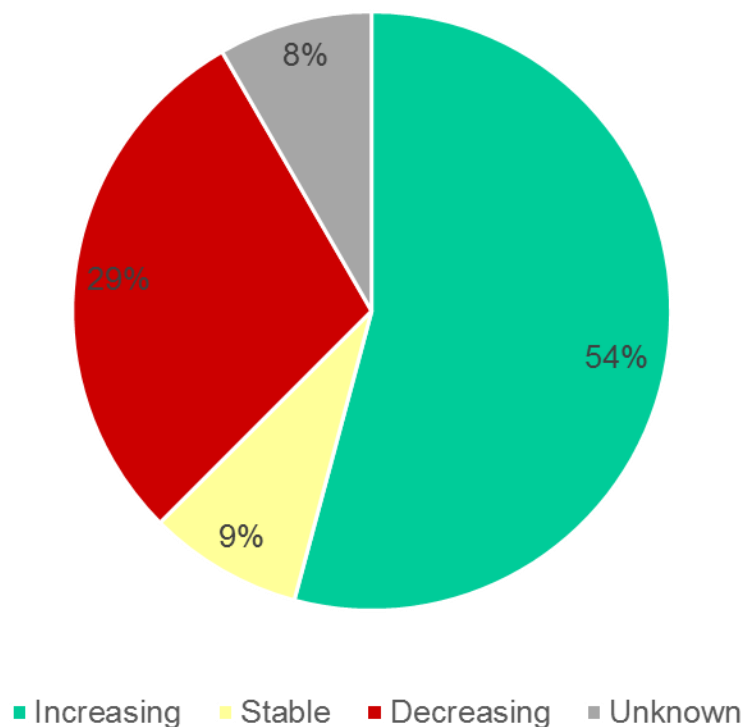




AEWA goose species

8 species, 24 populations = 5.2-5.7m birds

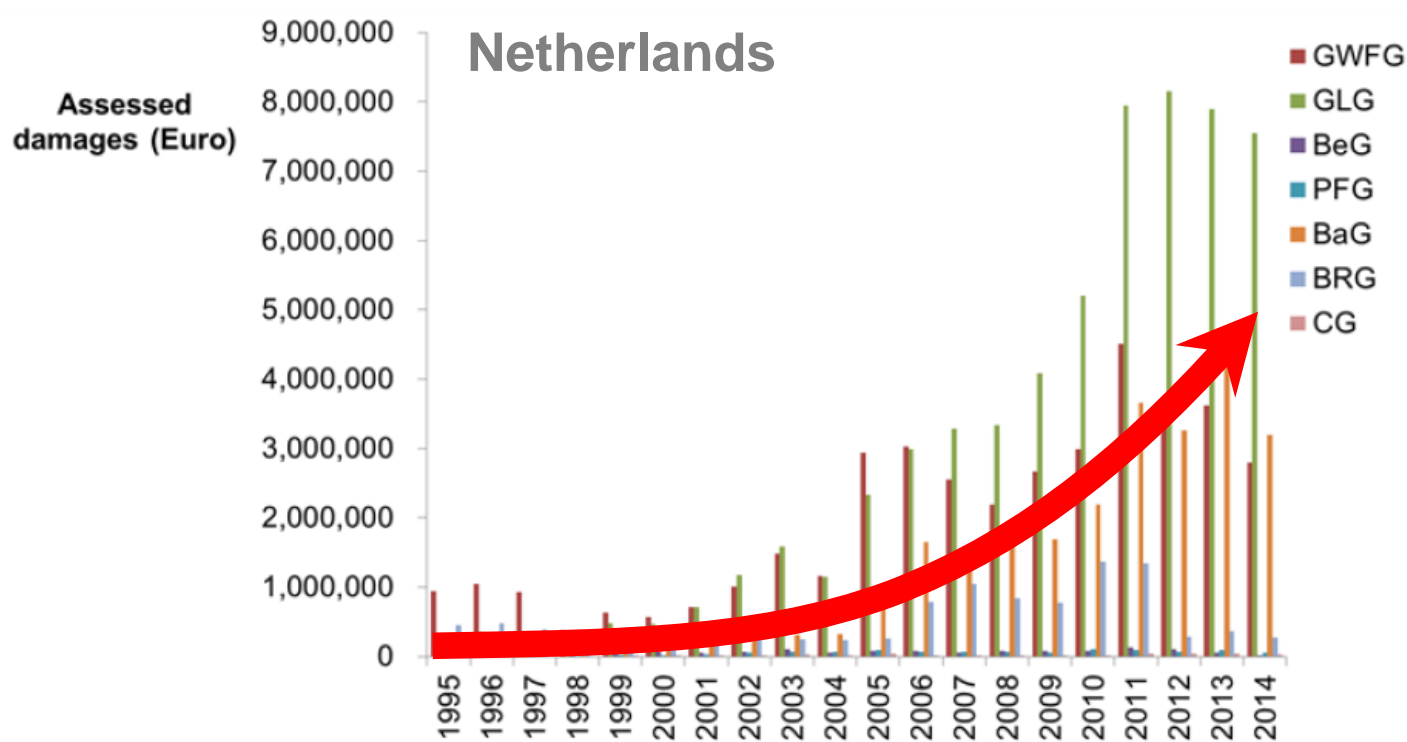
Population trends







Agriculture damage compensations

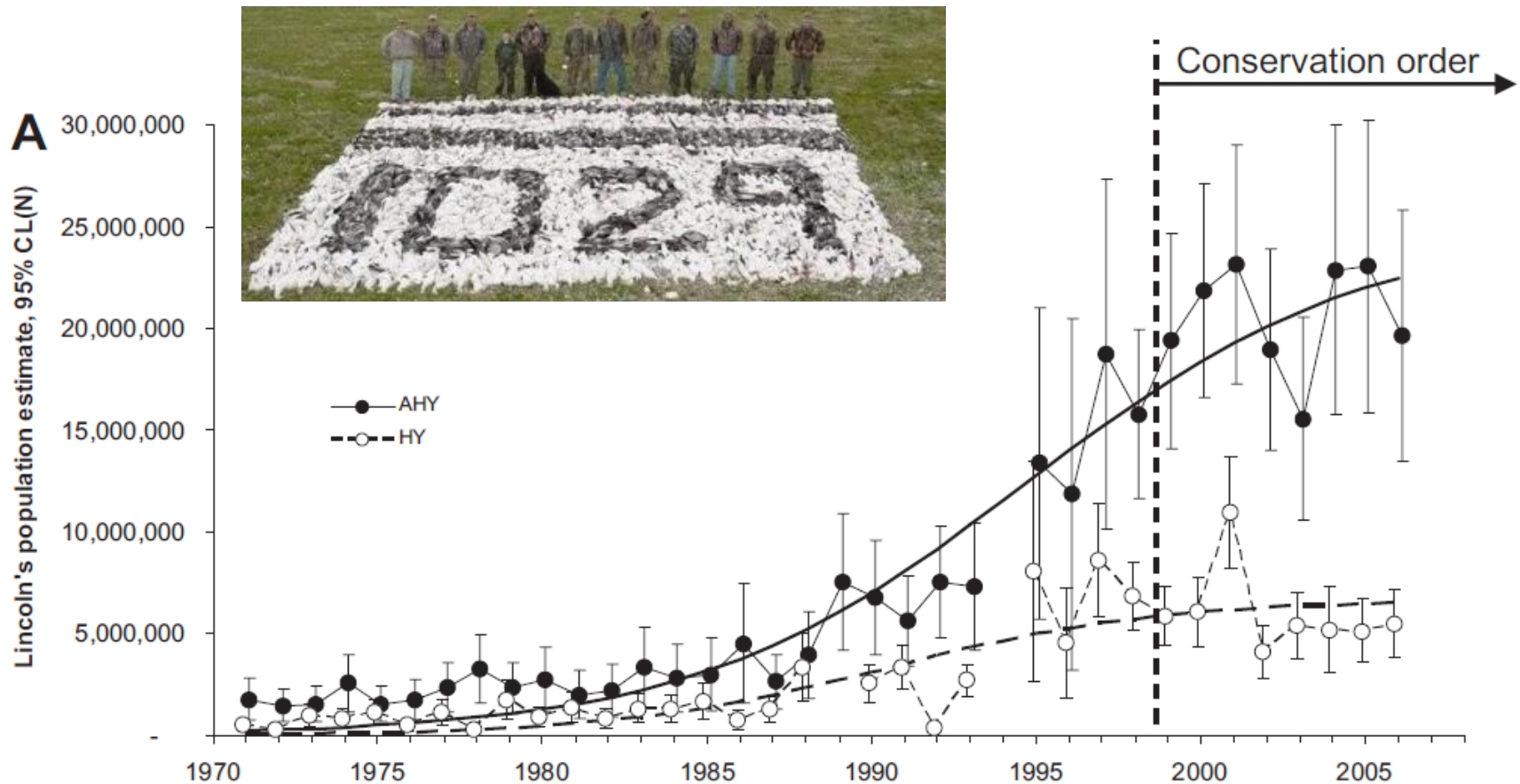


But increasing goose numbers are not just about agricultural conflict

Proceedings of a meeting held in Gram Slot, Denmark October 2015, to be published in *Ambio* in 2017



North American Lesser Snow Goose population size and trends





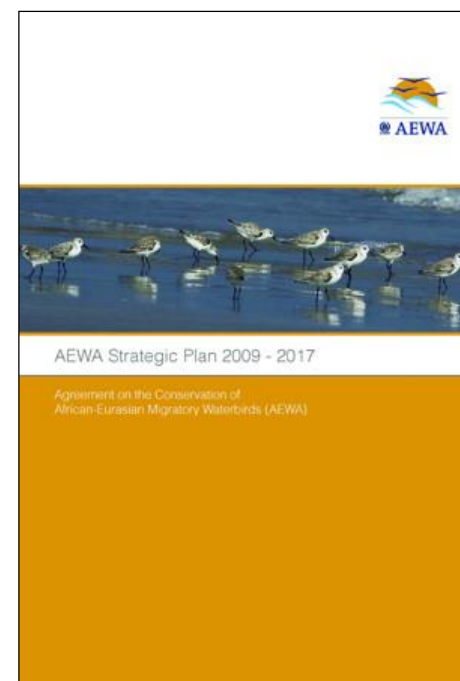
AEWA Strategic Plan 2009-2017

Target 2.5

“Adaptive harvest management of quarry populations is ensured at international level.”

Indicator

“International harvest management plans for two quarry populations are developed and implemented”





The first European trial of adaptive management of a migratory population



TECHNICAL SERIES No.48



International Species Management Plan
for the Svalbard Population of the
Pink-footed Goose

Anser brachyrhynchus





PfG – two discrete populations

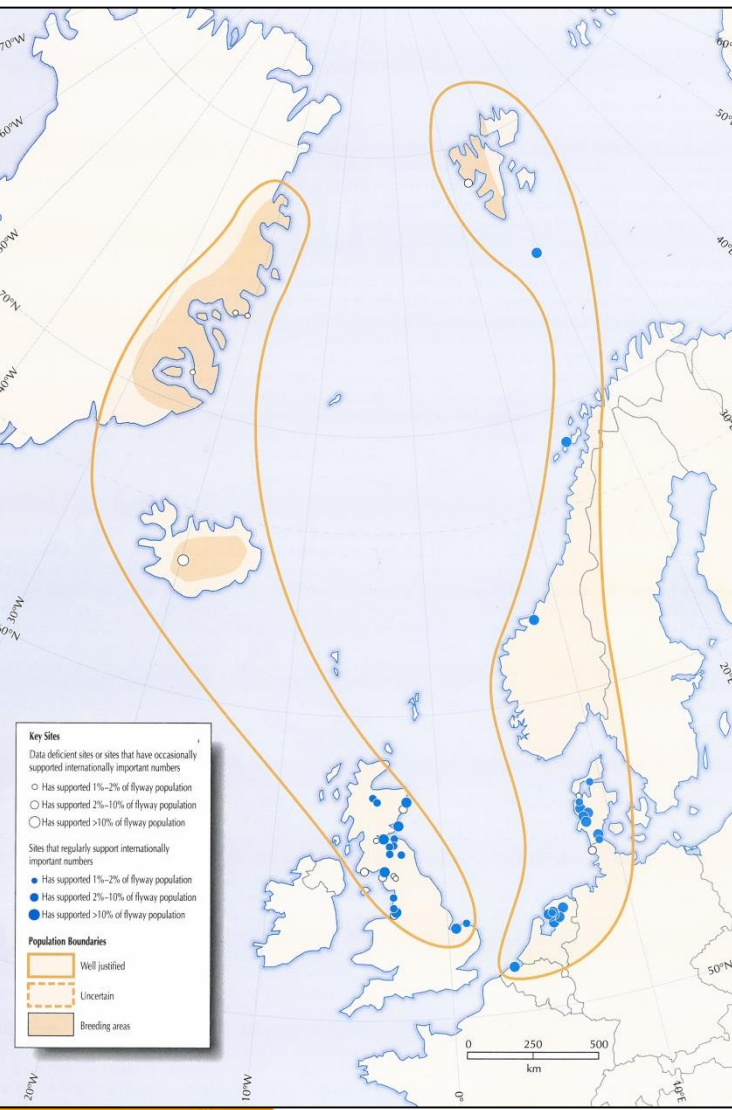
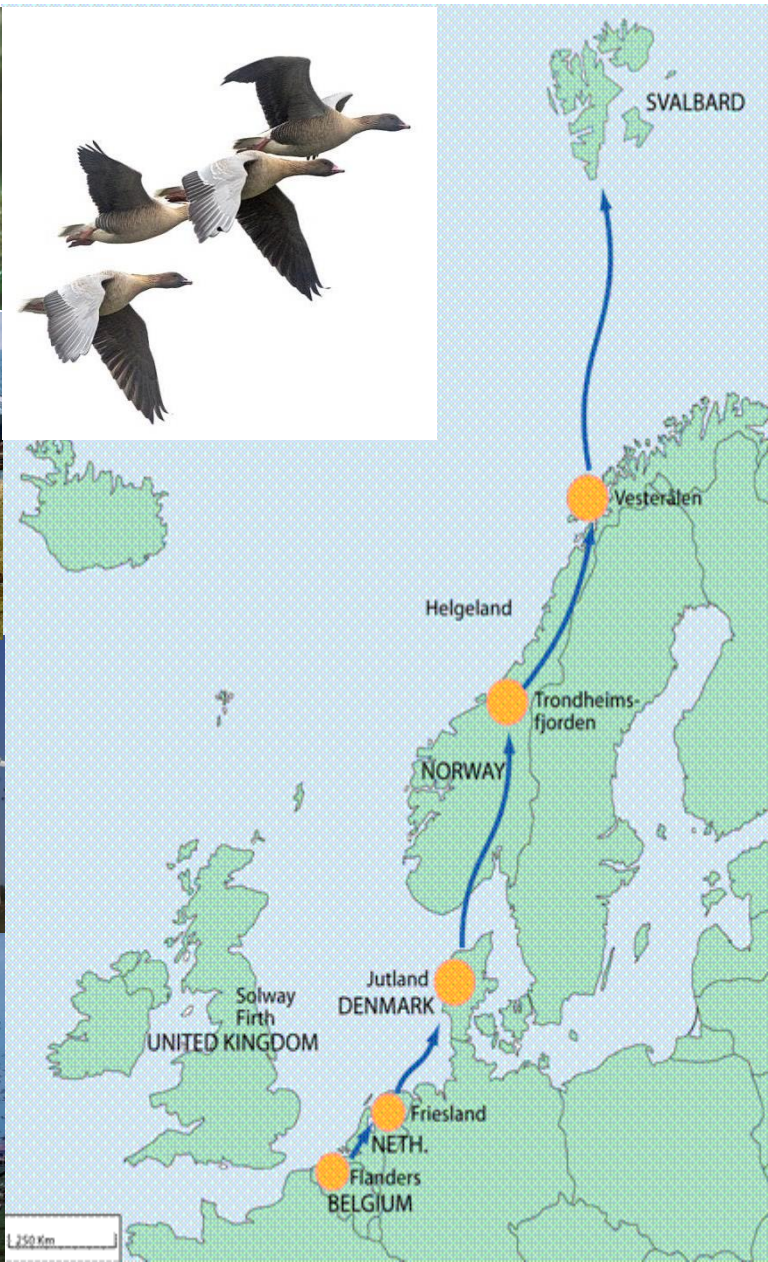
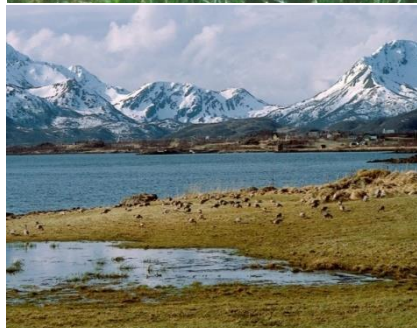


Photo: Magnus Elander



A well-defined flyway with few range states



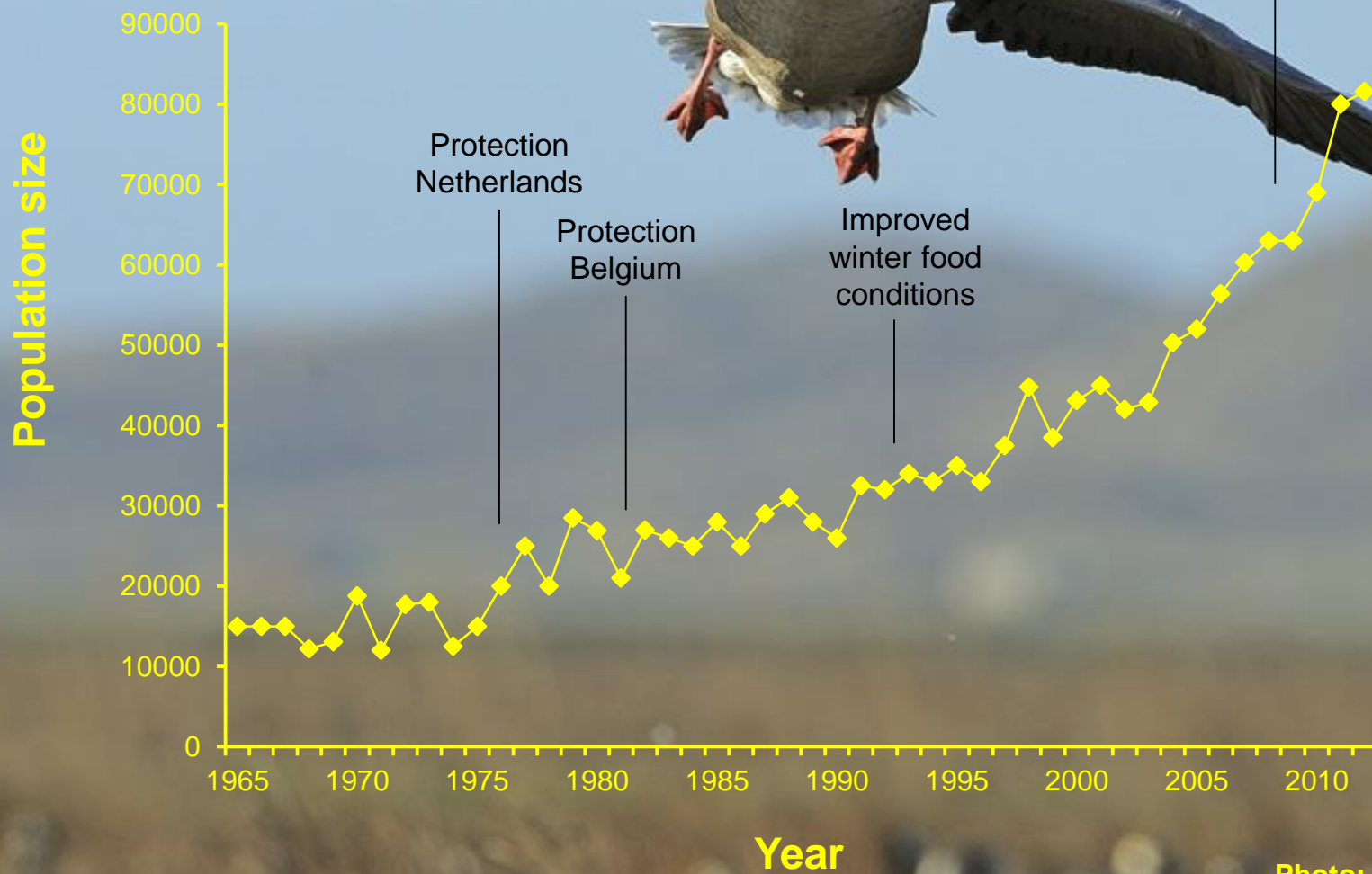


Photo: Magnus Elander



Internationally co-ordinated long-term studies



- Population monitoring
- Hunting bag statistics
- Capture-recapture study
- Year-round studies
- Experimental work
- Population modeling
- Individual based modeling



Conflicts with agricultural interests



Trønder-flvisa

Tirsdag 18. april 2006 • UKE 16 • NLE 98 • Lønning kr 15,00

NYHETER
Milliondryss
på Elvebredden
i Steinkjer
Side 18 og 19

SPORT
Alexander
odela festen
for SFK
Side 26 og 27

KULTUR
Sissy Wish
trives i
Rock City
Side 24 og 25

Mer bilbråk

LEVMØEL: John Thomas Krogstad i Westside Racing oppfører myndighetene ut å oppheve kjøreforbudet i Kirkegata. I mistant full frykt for Krogstad mye ure da neste månedene. Side 8

Tilstår incest
STENHUB: Den tidligere barneservertarbeideren er tiltalt for vedtatt, incest og seksuelle overgrep mot begge døtre sine. Mannen i 60-åra skal ved et tilfelle ha tilbudt døtrene 400 kroner for å ha samleie med ham. Side 9

Terrassehage for Liv Marit

STENHUB: Terrassen gir meg følelsen av å bo i et bolig med hage, synes Liv Marit Bønn. Vår i hagen side 32-49

43.000 kortnebbgås kommer snart til å okkupere jordene på Innherred:

Jager kortnebbgås

Våpnet med firehjul, hagle og gasskanon, verter gårdbrukerne Perry Frøysdal og Lars Bardal Flakkenberg på Sandvollan i Inderøy på kortnebbgås.
Side 4 og 5

Kostbar russefeiring
Million 0200

Moteplassen
Velkommen til
MOTESHOW
... "På reise"
Dancehall, Julebus

Vår i lufta!
Tilbud denne uka:
SOFT-IS



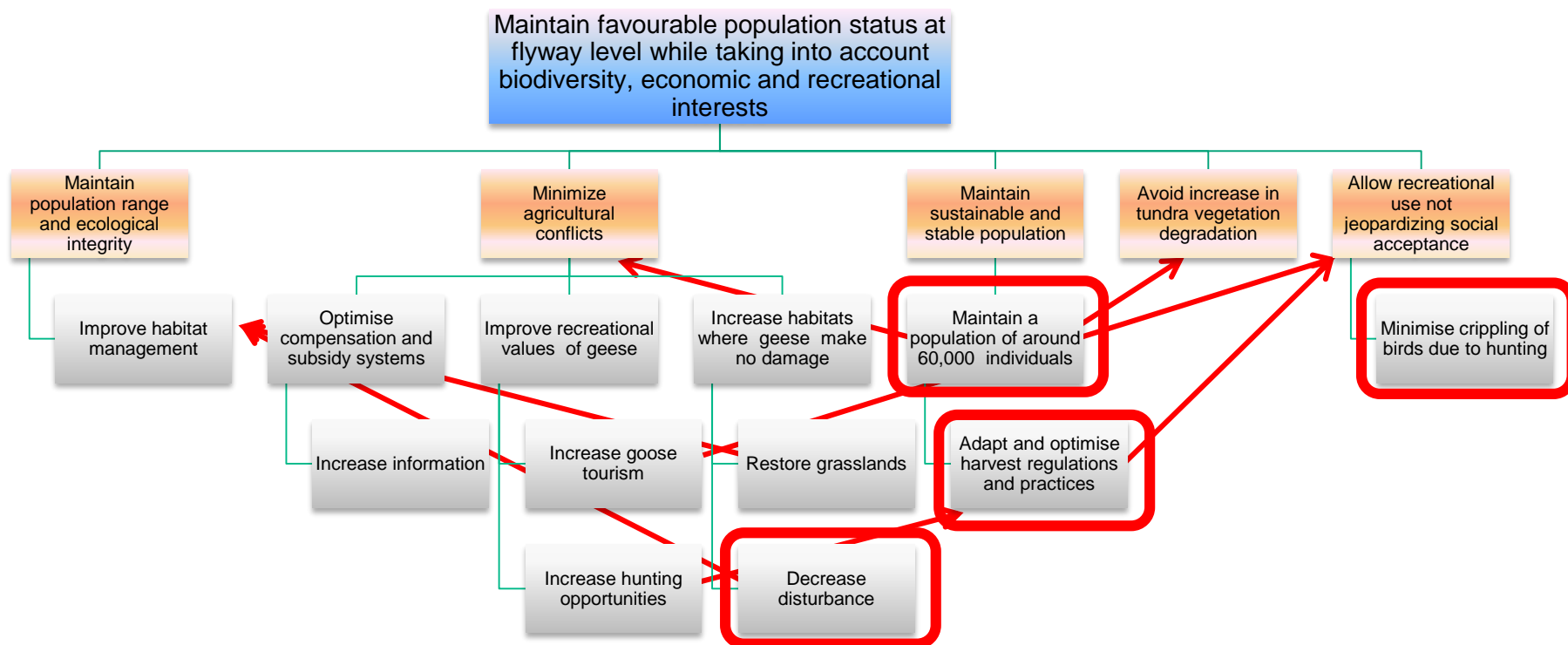
Signs of grazing impacts on tundra vegetation

The Flyway Plan process and timeline





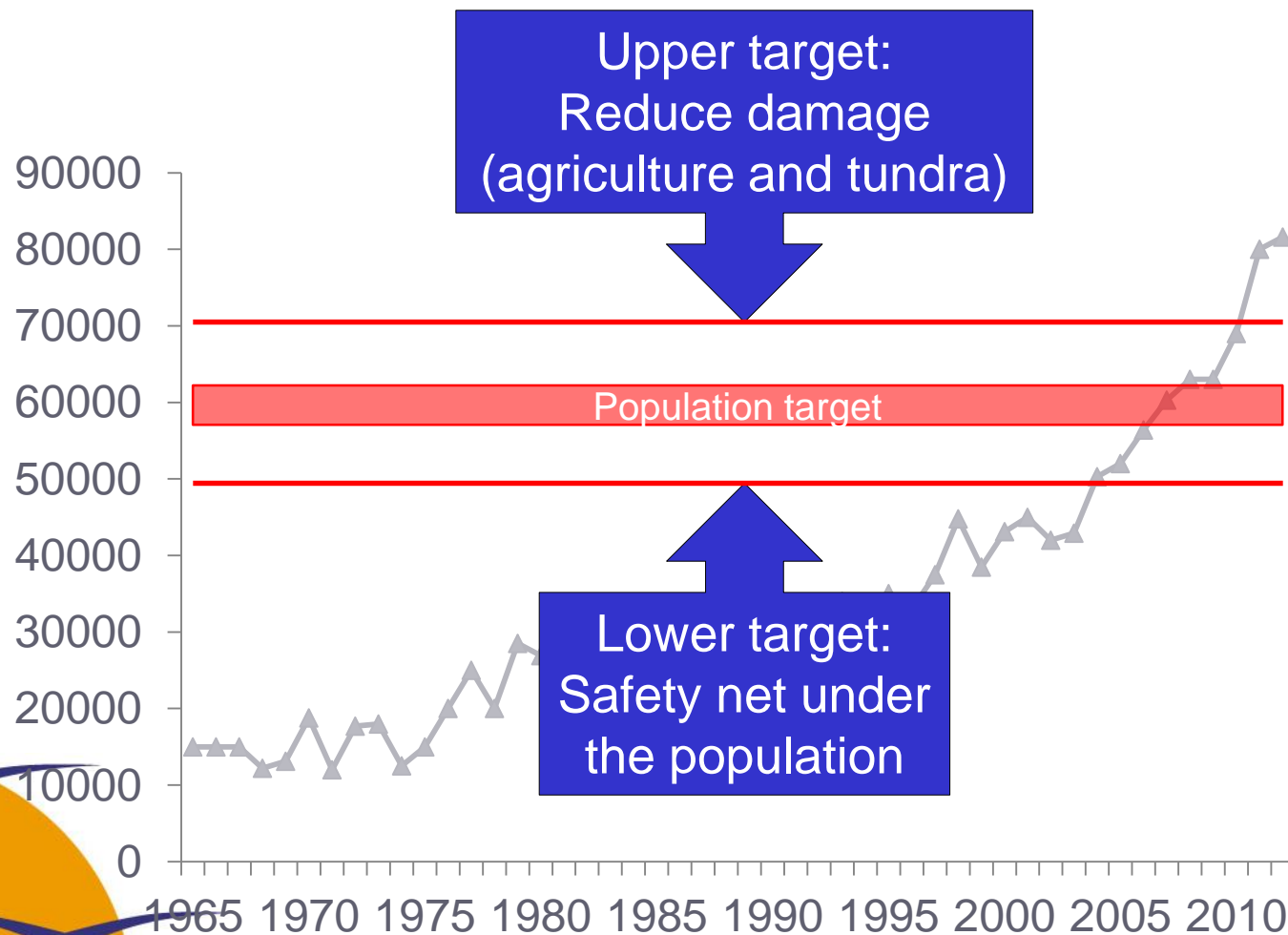
PfG management framework: goal and objectives





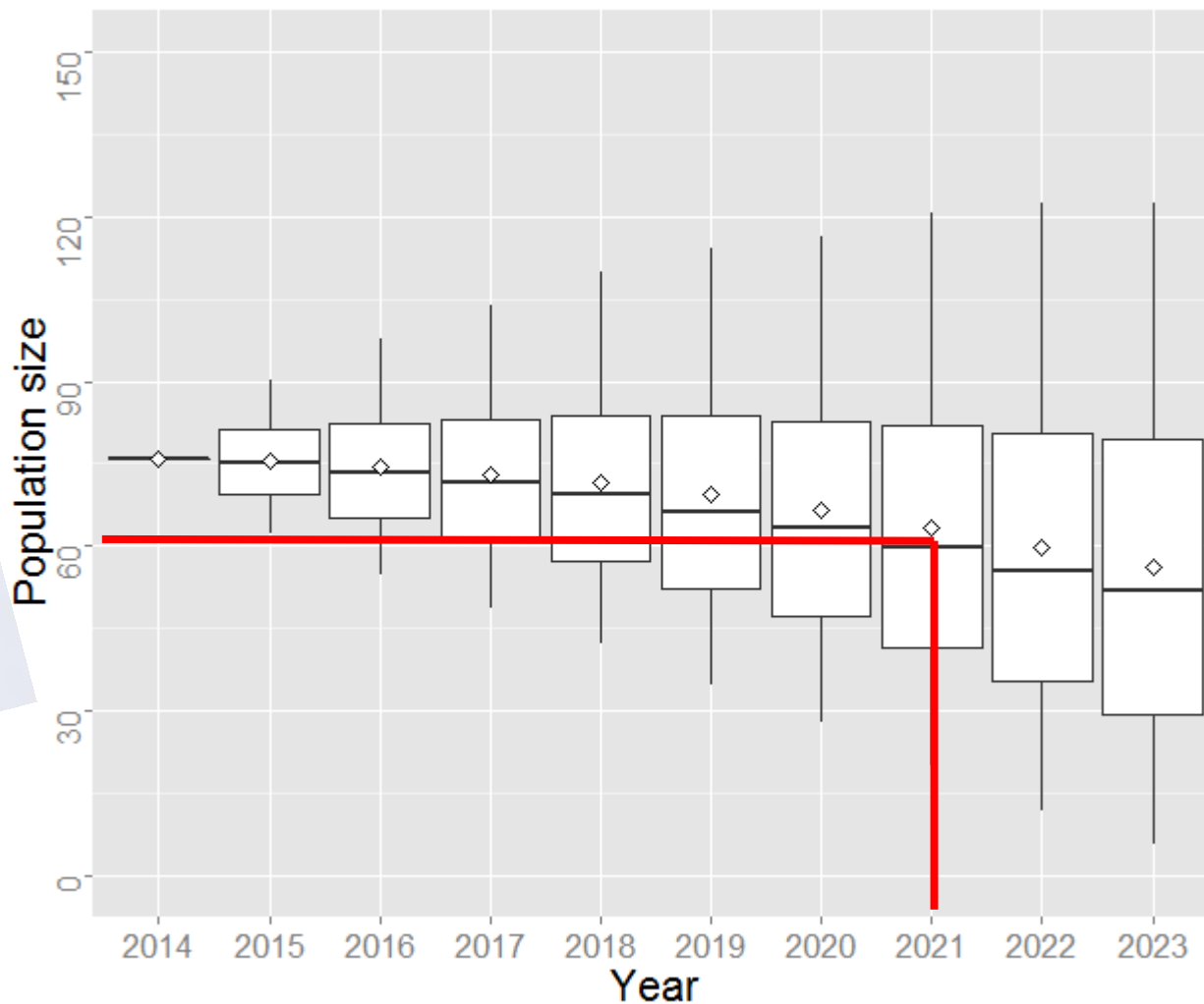
Setting a population target

A social construct achieving 'least mutual dissatisfaction'



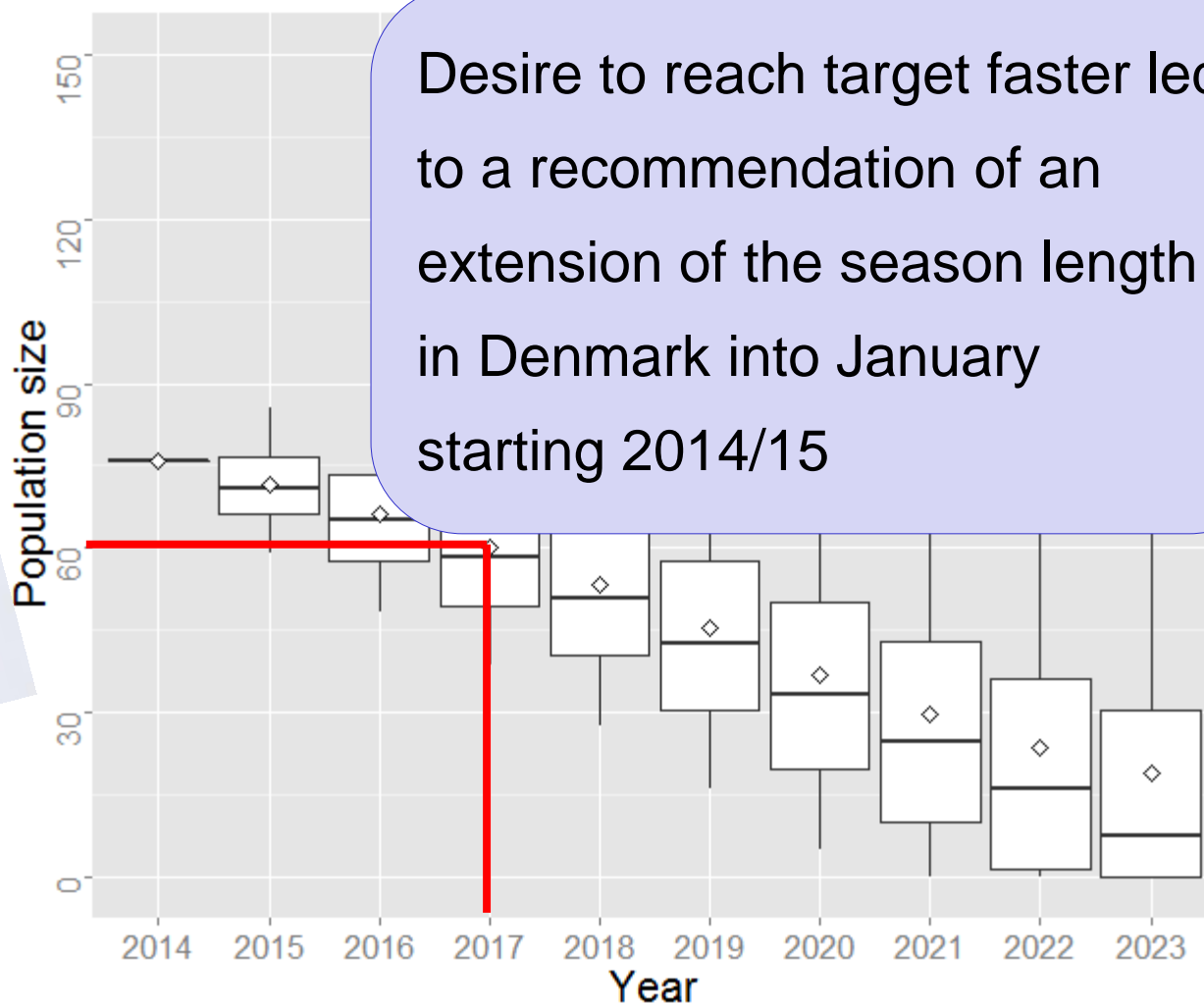


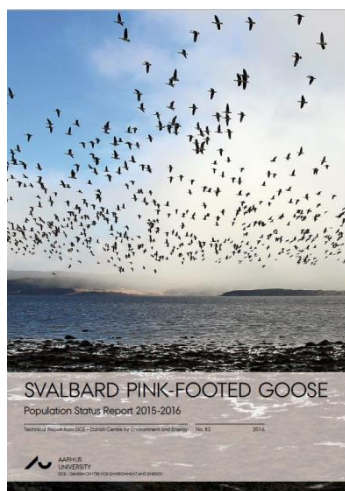
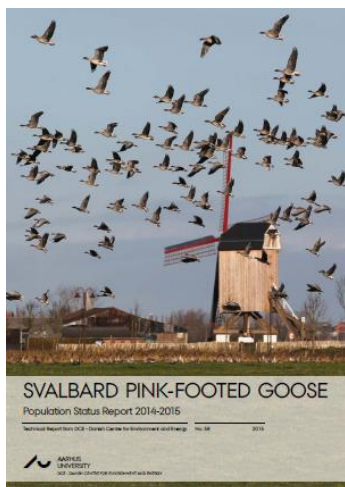
Predicted population trajectory with stable harvest (11,300 per annum)



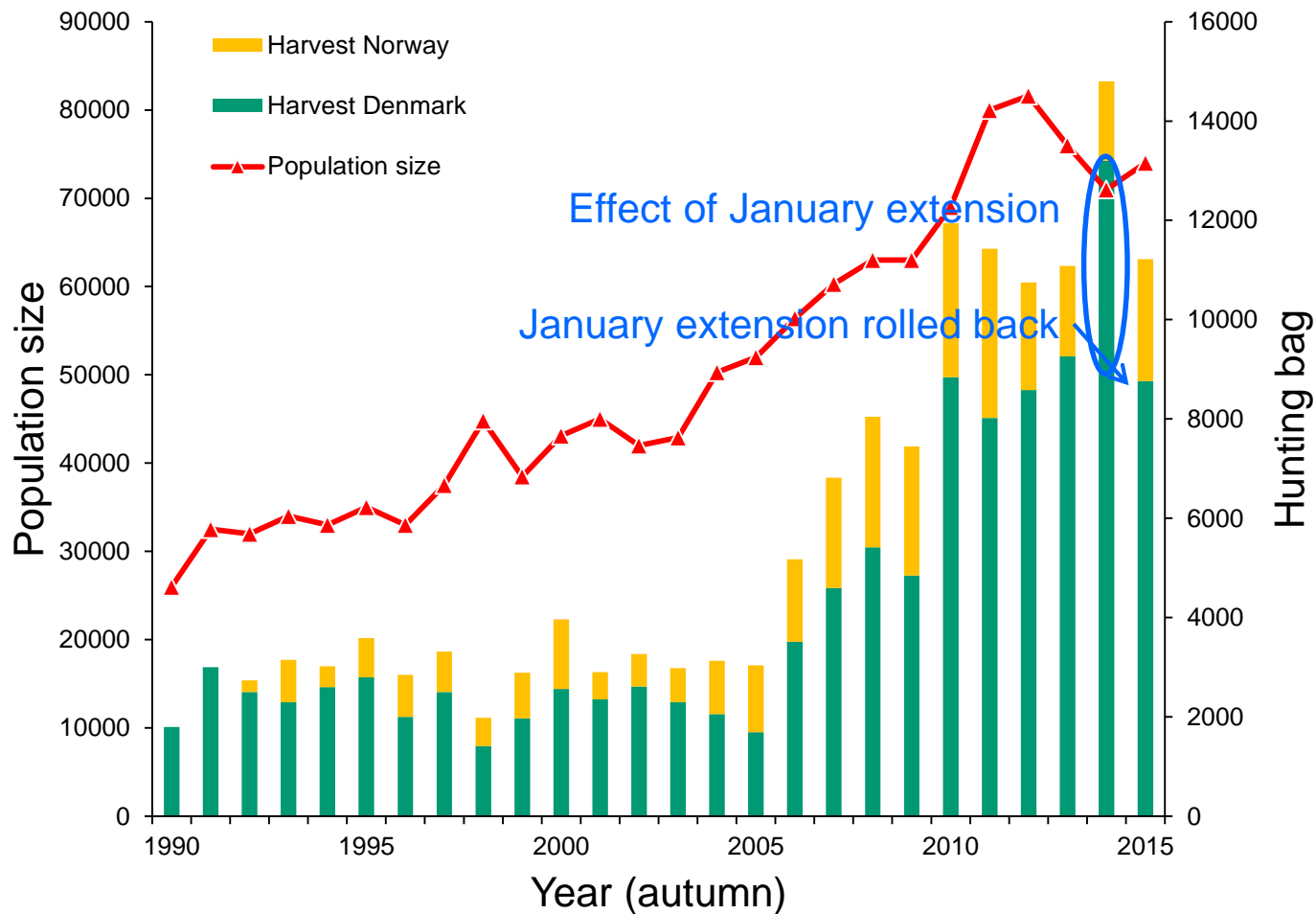


Predicted population trajectory with increased harvest (15,000 per annum)





Recent developments





Crippling – a critical issue

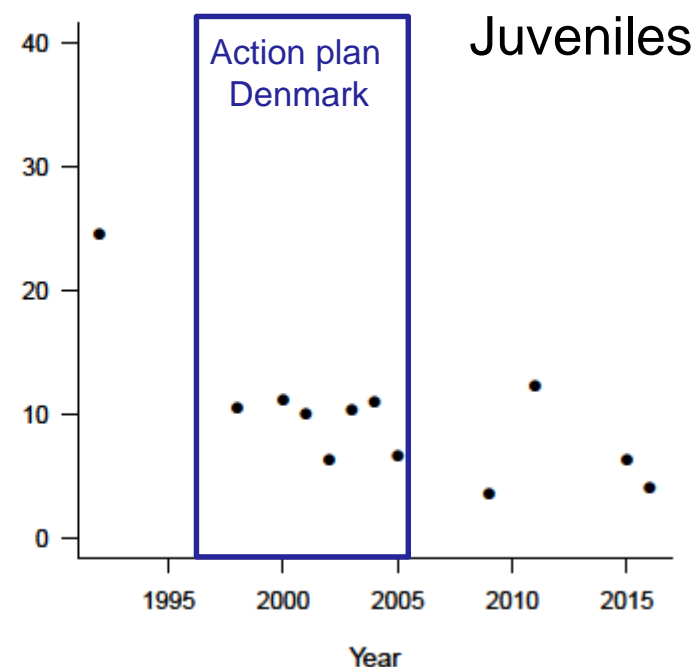
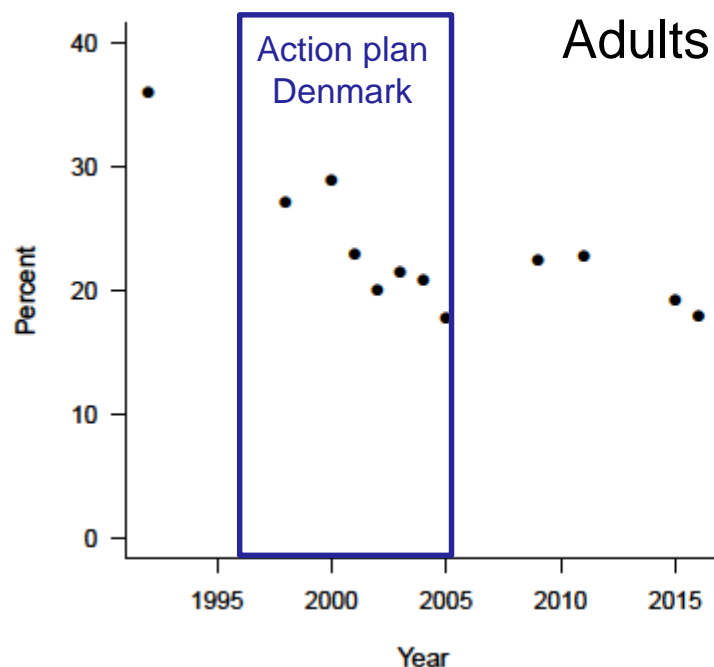
Monitored by X-ray in conjunction with goose catches (canon-netting)





Crippling rate

Agreed objective: continued decline



Taking the increasing harvest rate into account the decline in crippling rate represents a 5-fold improvement in performance



A few lessons learned.....

- Patience: it takes time to set up international adaptive management, tune the operation and test actions
- Be careful with problem framing and objectives
- Commitment and transparency are essential
- Stakeholder engagement => trust-building, ownership
- Process shall be nationally and locally anchored
- Understanding of hunters' behaviour and motivations
- Clear communication and lines of command
- Need for reliable data on population size and harvest





AEWA Taiga Bean Goose Action Plan

Long-term decline (100,000 in the 1990s to 50,000-60,000 nowadays)

Action planning launched in November 2013; AP approved in November 2015

Adaptive management scheme was developed in 2016 and is up for discussion and adoption at this meeting



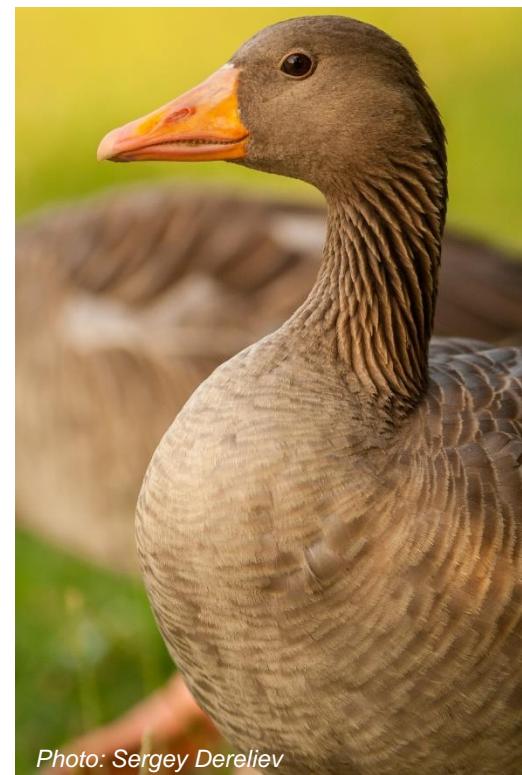


Greylag Goose management

November 2014 – French Minister of Ecology and Sustainable Development proposed the development of a GG ISMP

Funding support was pledged and other Range States seconded the initiative

March 2015 – the issue was discussed at the 12th meeting of the AEWA Technical Committee





Goose Management: Challenges 2015

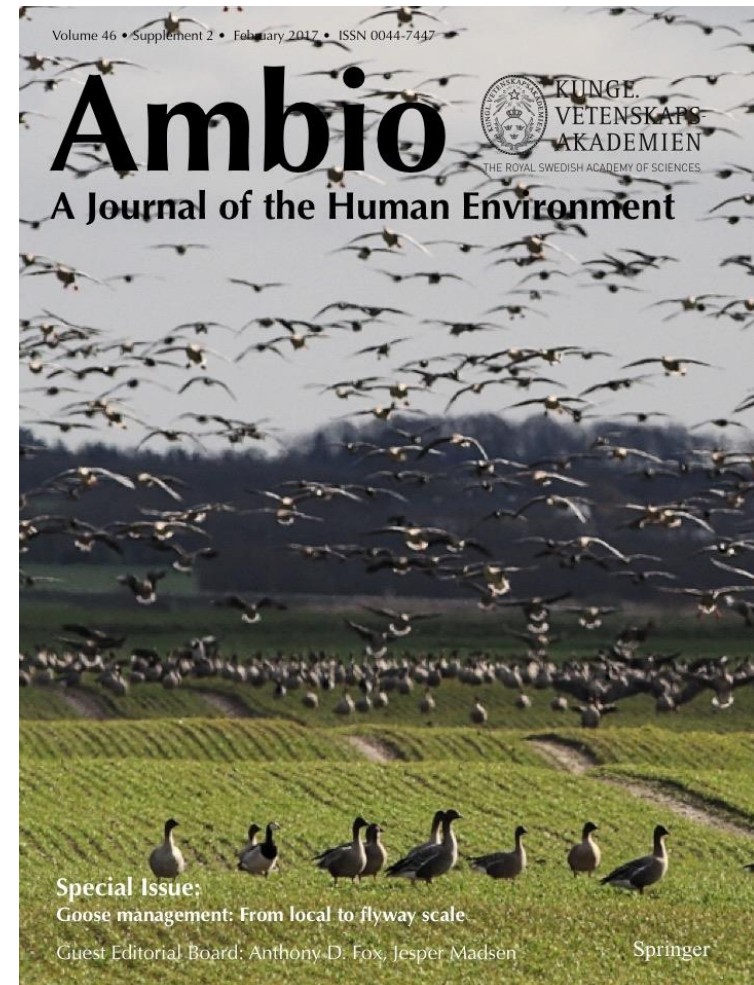
International Conference, Gram Slot, Denmark, 27-29 October 2015

Organised by Aarhus University and the National Nature Agency, Denmark



Goose Management: Challenges 2015

- Proceedings expected in February 2017 (*Ambio*, Volume 46, Supplement 2)





European Goose Management Platform

Mandate

- Resolution 6.4: “Requests the *Secretariat* to facilitate, *funding permitting*, the establishment of an *European multispecies goose management platform* and process to address sustainable use of goose populations and to provide for the resolution of human-goose conflicts, targeting as a matter of priority *Barnacle* and *Greylag Geese* populations for which management plans are yet to be developed as well as the *Svalbard population of the Pink-footed Goose* and the *Taiga Bean Goose* for which plans are already in place, and invites interested *Parties*, *Range States* and other stakeholders to *take pro-active* role in this initiative, including to *ensure necessary resources* for the maintenance and the functioning of the platform.”





European Goose Management Platform

Paris negotiation meeting (May 2016) – confirmation of commitment and agreement on modalities (Paris Declaration)

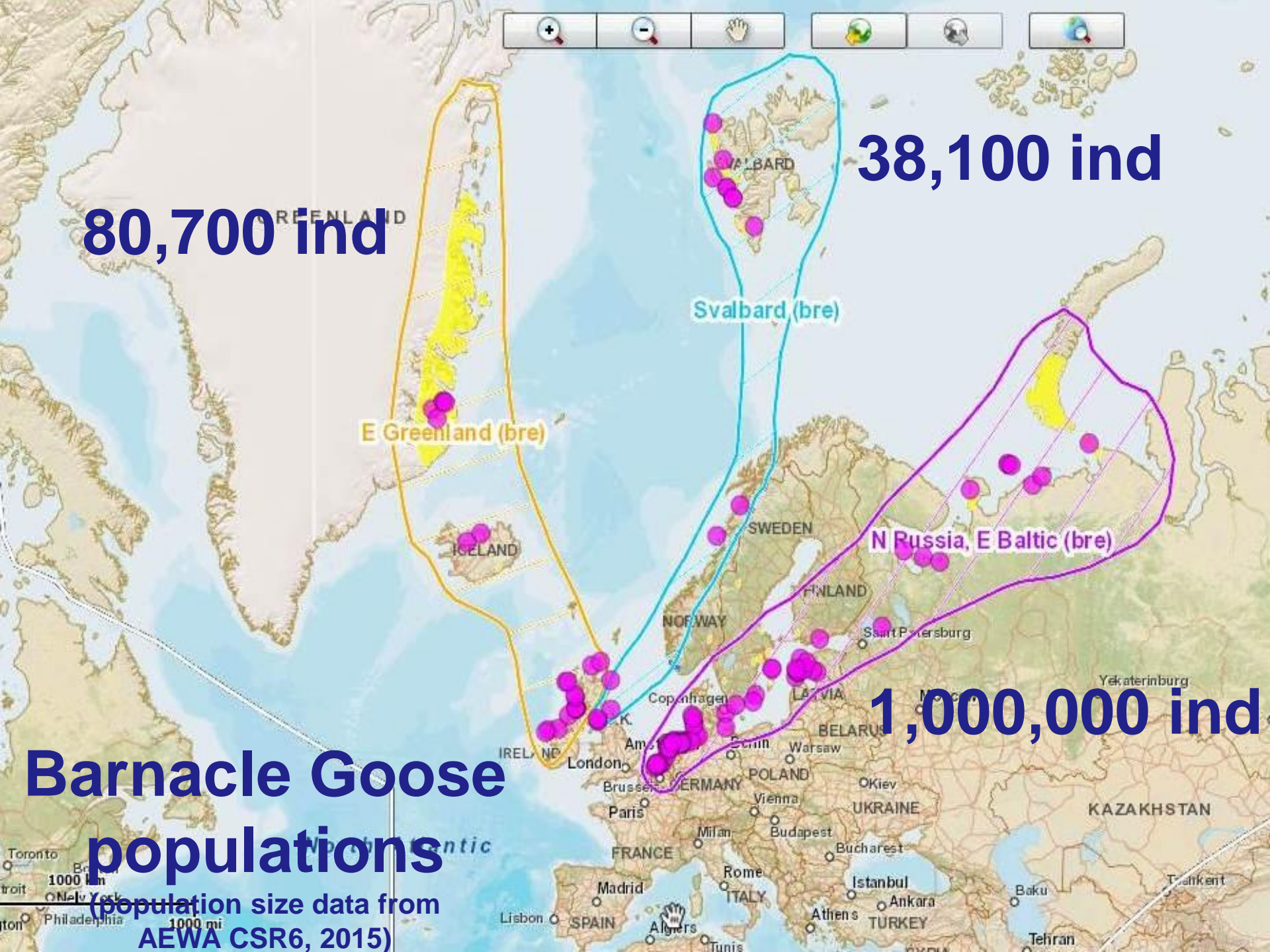




Populations to be included for a start

- Pink-footed Goose, Svalbard population; **ISMP** implemented since 2012
- Taiga Bean Goose; **ISAP** endorsed at AEWA MOP6, November 2015
- Barnacle Goose, 3 populations
- Greylag Goose, **North-west European** population





80,700 ind

38,100 ind

1,000,000 ind

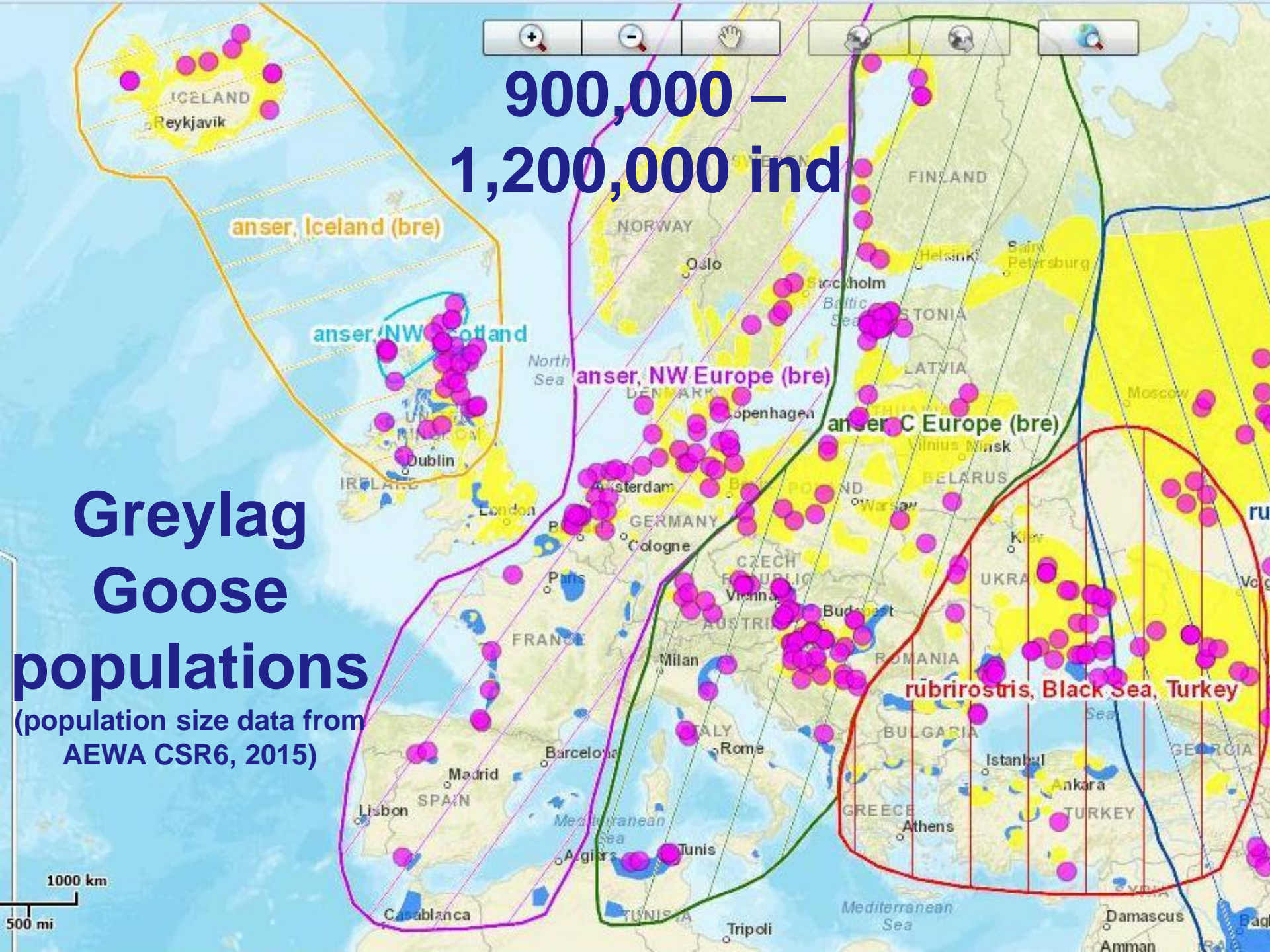
Barnacle Goose populations

(population size data from AEW CSR6, 2015)

900,000 –
1,200,000 ind

Greylag Goose populations

(population size data from
AEWA CSR6, 2015)

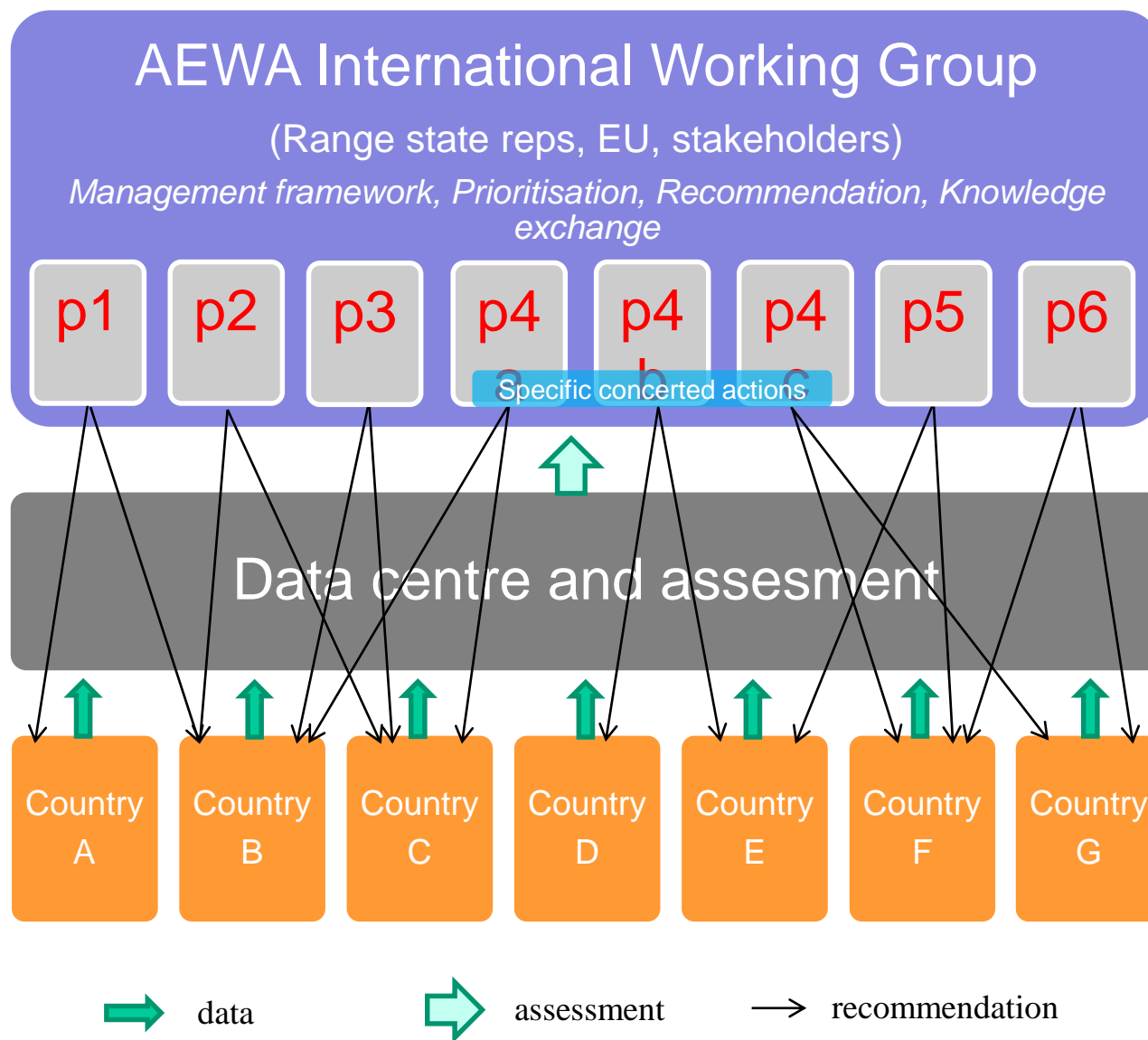




EGMP goal

*Provide the **mechanism** for a **structured, coordinated and inclusive decision-making and implementation process** for the **sustainable management** of goose populations in Europe, with the objective of maintaining them in a **favourable conservation status**, while taking into account **concerns** of relevant **stakeholders** and the pertinent **legislative frameworks and regulations**.*







EGMP

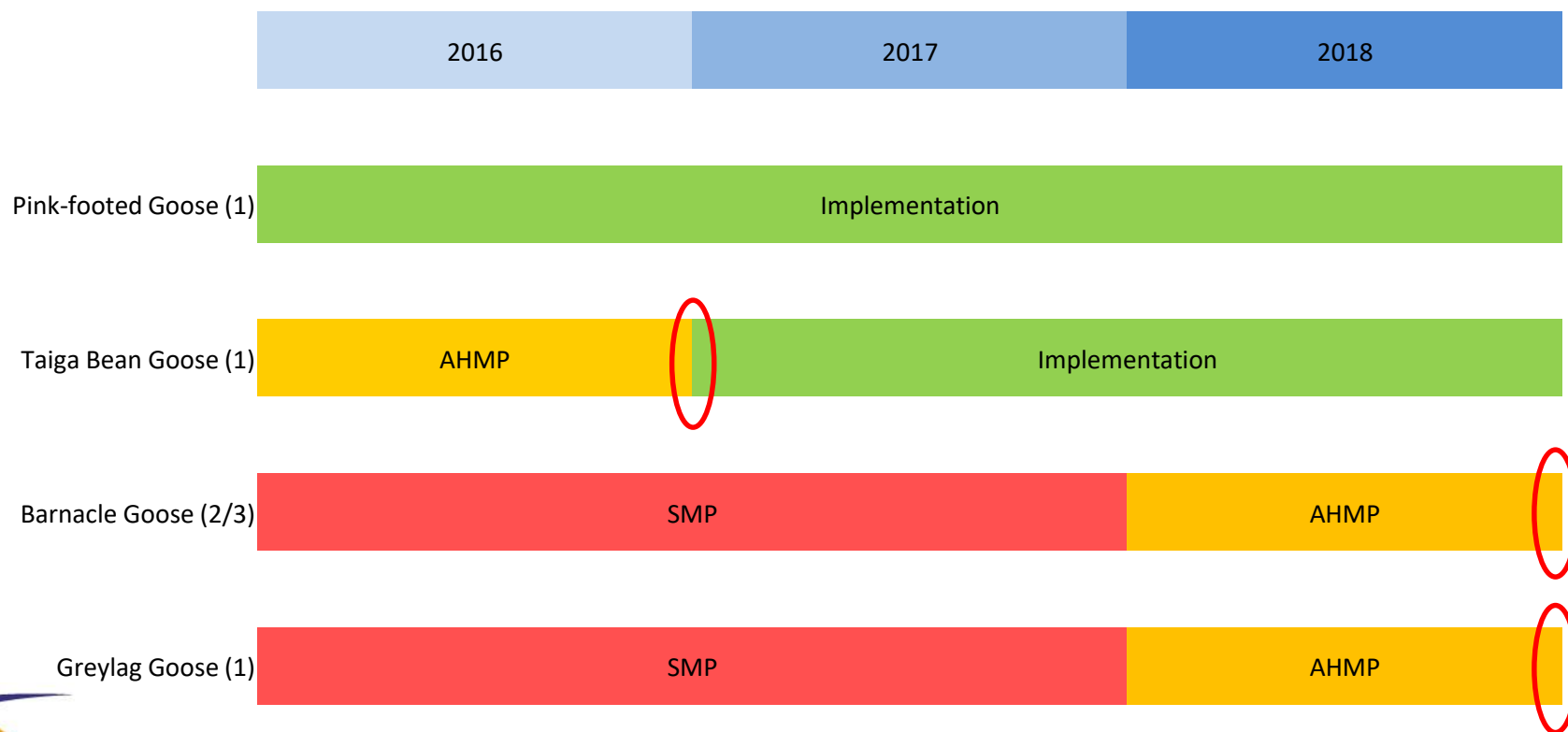
Annual iterative process





EGMP

Goose pops and timelines 2016-2018





EGMP range states

Belarus – 1 population	Latvia – 2
Belgium – 3	Lithuania – 2
Greenland – 1	Netherlands – 4
Denmark – 4	Norway – 4
Estonia – 2	Poland – 3
EU - 6	Russia – 2
Finland – 2	Spain – 1
France – 1	Sweden – 3
Germany – 3	UK – 2
Iceland – 1	Ukraine – 1
Ireland – 1	



Post-AEWA MOP6 activities

1st AEWA EGM IWG took place (14-16 Dec 2016, Kristianstad, Sweden)

2nd AEWA EGM IWG forthcoming (15-16 Jun 2017, Copenhagen, Denmark)

Barnacle Goose Management Plan:
International Planning Workshop (12-14 Jun 2017, Copenhagen, Denmark)

Greylag Goose Management Plan:
International Planning Workshop,
autumn 2017

