



WLE

Interreg Europe



European Union
European Regional
Development Fund

Collecting of Data in the Regional Landscape Kempen en Maasland

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Regionaal Landschap
Kempen en Maasland

We monitor

- **Visitor streams**
 - Quantitatively
 - Qualitatively
- **Biodiversity**

We calculate

- **Economic spin-off**
- **Ecosystemservices**

Together with governmental agencies, ngo's, universities,...

This gives us

- **Data as proof / supporting evidence**
- **‘The same language’ as policy makers i.e.**
- **Knowledge about our ‘customers’**
- **Foundation for improvement**



Some examples

1. Counting visitors
2. Hiking Research - with province Limburg (B)
3. National Park Hoge Kempen
4. Social benefits of ecological restoration of the river Meuse
5. Transboundary biodiversity survey

Regional Landscape

Kempen~Broek

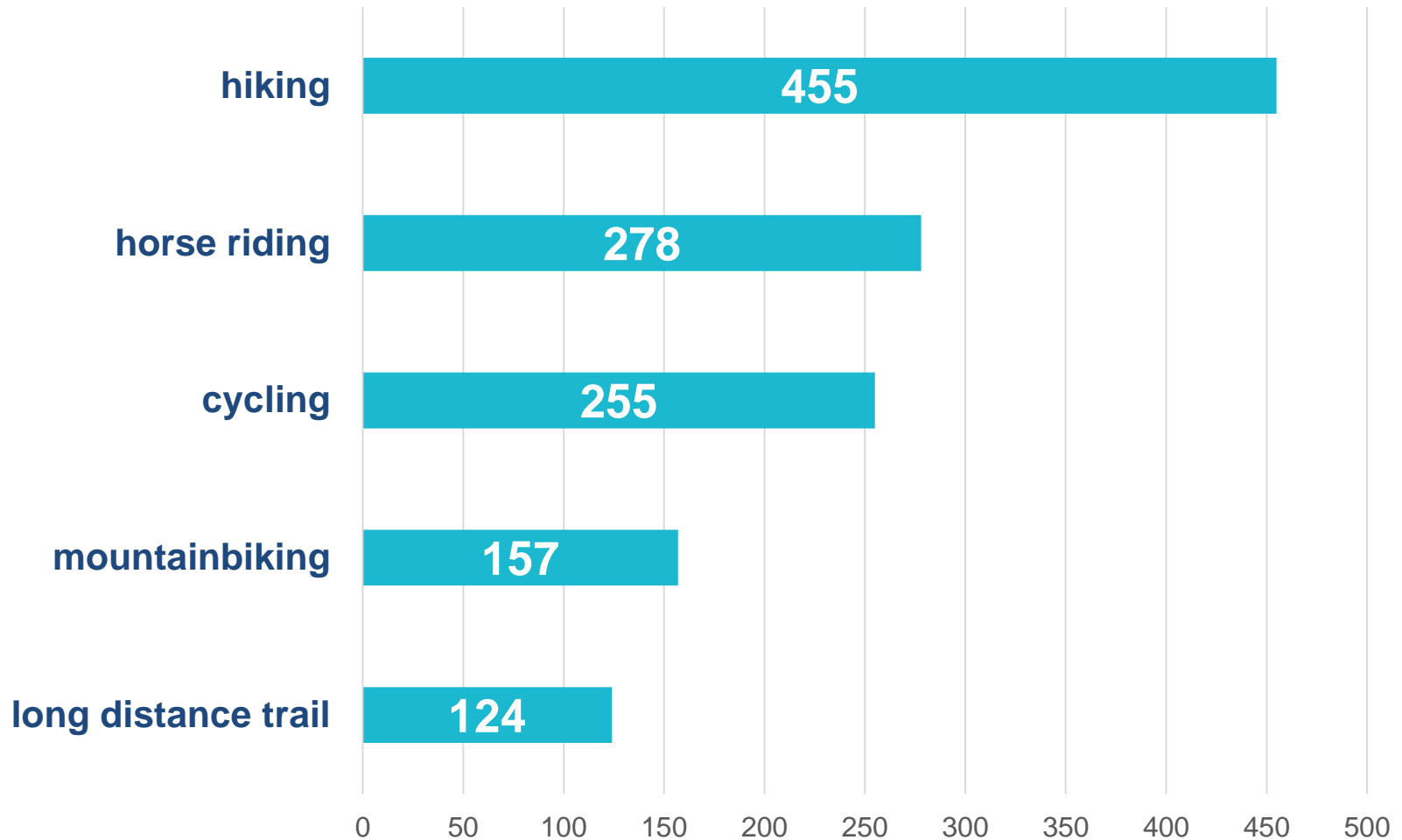
Meuse Valley

Hoge Kempen



1. Counting visitors

In Kempen~Broek: 1.260 km trails



1. Counting visitors

sensors



slabs



tubes



1. Counting visitors

Slab



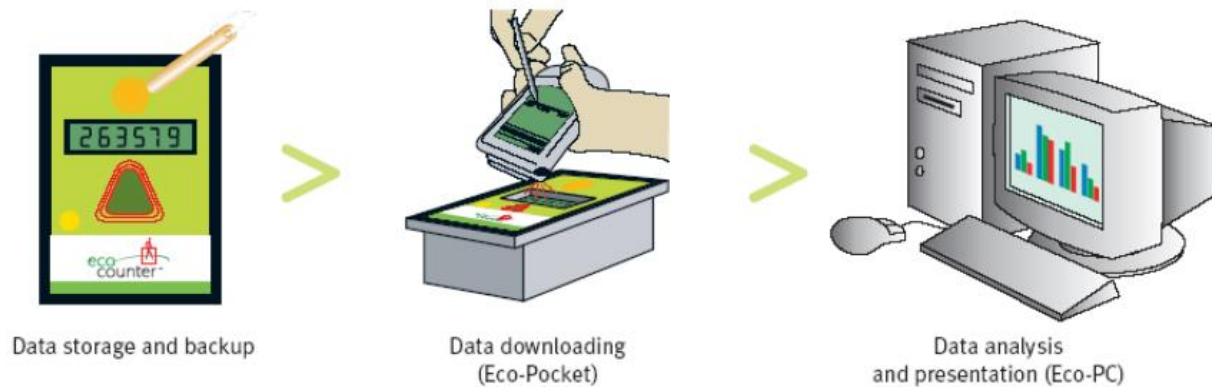
1. Counting visitors

Sensor



1. Counting visitors

Pocket-PC and on-site download



Telemetry using the Eco-GSM Modem



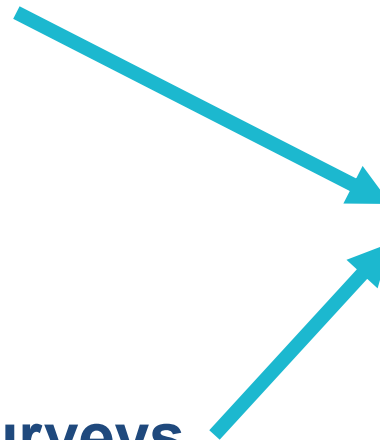
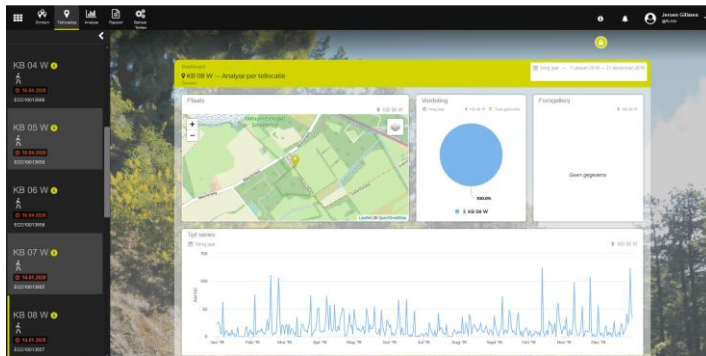
1. Counting visitors

Company: www.eco-compteur.com

Cost:

- Slab: ca. 3.300 EUR
- Sensor: ca. 2.300 EUR
- Read out manually:
 - > in Kempen~Broek > 15 counters
 - > 1 person ca. 2 days > 2 times/year

1. Counting visitors



Visitor interviews and surveys

2. Hiking Research (province wide)

- Limburg (B) as ‘greenest province’ in Flanders
- Important hiking and cycling destination
- 2000 km hiking routes

www.wandeleninlimburg.be

Ontdek de mooiste wandelroutes in Limburg

Favoriete wandelingen bewaren? [Registreer](#) / [Login](#)

Wandelroutes Wandel op knooppunten Webwinkel Activiteiten Wandelen in Limburg Contact

Filter de wandelroutes ✕

Verfijn ons aanbod via onderstaande filter. De resultaten kunnen geraadpleegd worden op een kaart of als een eenvoudige lijst.

[Toon op kaart](#) [Toon op lijst](#)

Filter wissen

Afstand

- < 2km
- 2km - 5km
- 5km - 10km
- 10km - 15km
- 15km - 20km
- > 20km

Filter op plaats ▾

Filter op regio ▾

Landschapskenmerken ▾

Andere kenmerken ▾

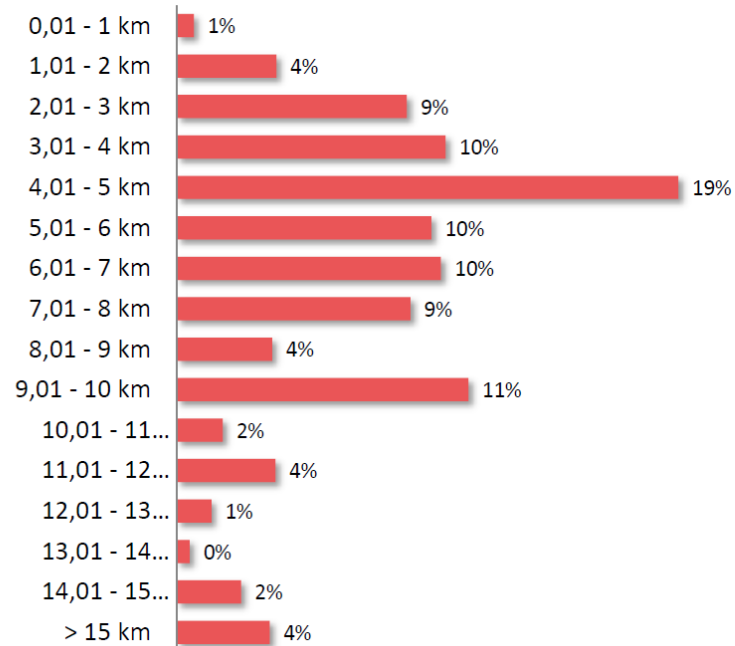
Toegankelijk voor ▾

© OpenStreetMap contributors. Tiles courtesy of GEO 4

2. Hiking Research (province wide)



Average hiking distance



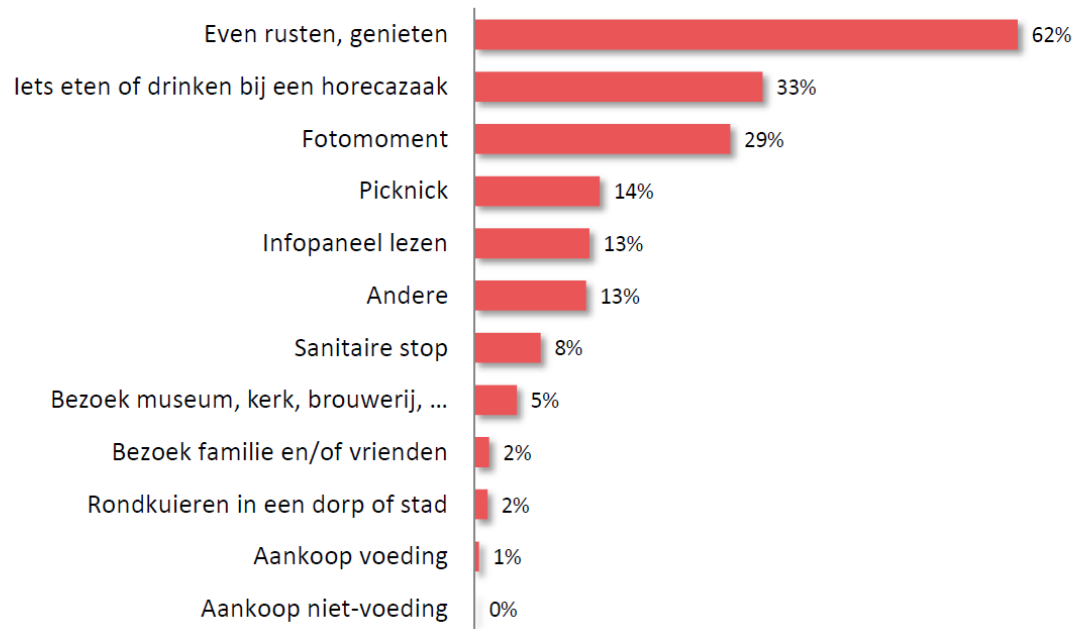
7,2 km



2. Hiking Research (province wide)



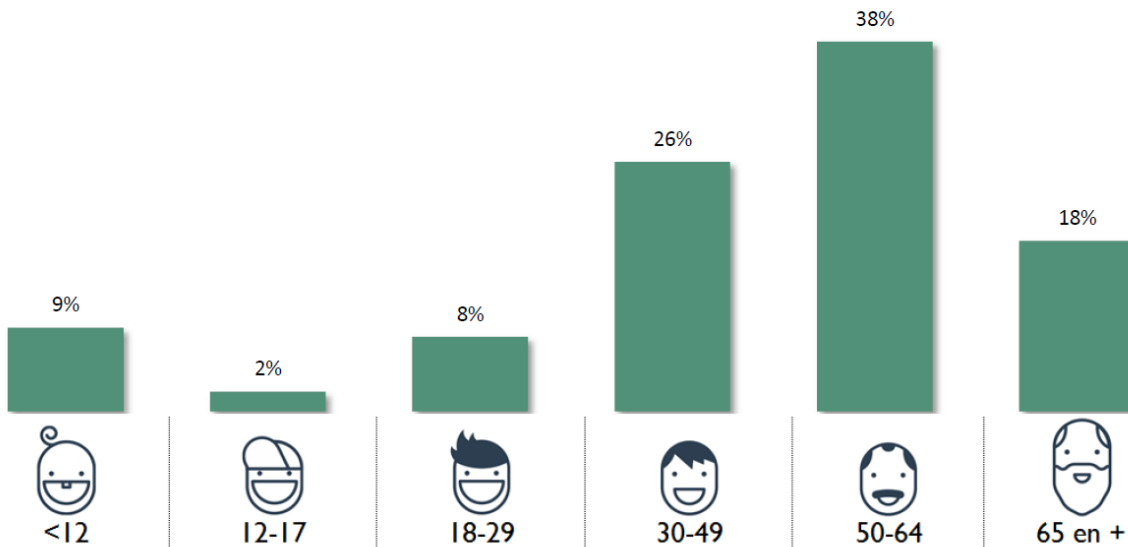
Reasons for breaks



2. Hiking Research (province wide)



Age



2. Hiking Research (province wide)

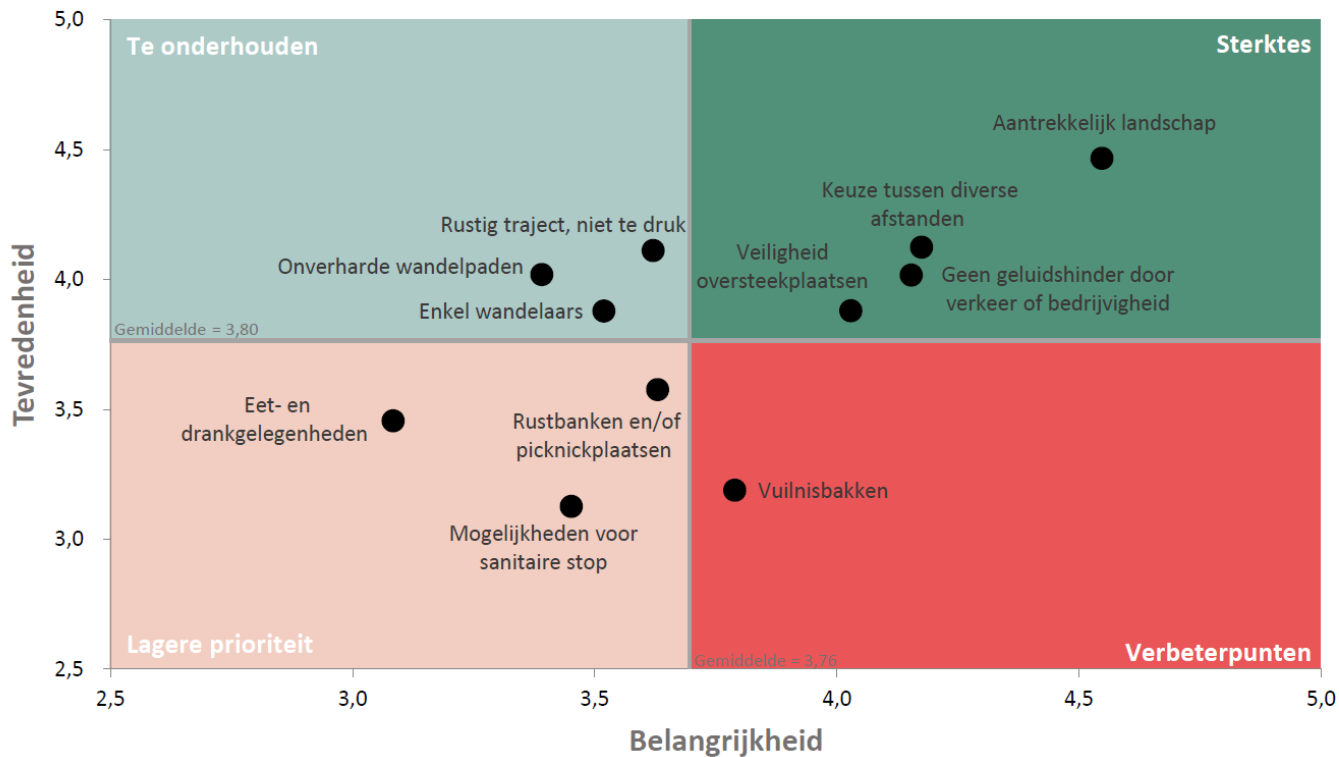


Reasons to come?



2. Hiking Research (province wide)

SWOT



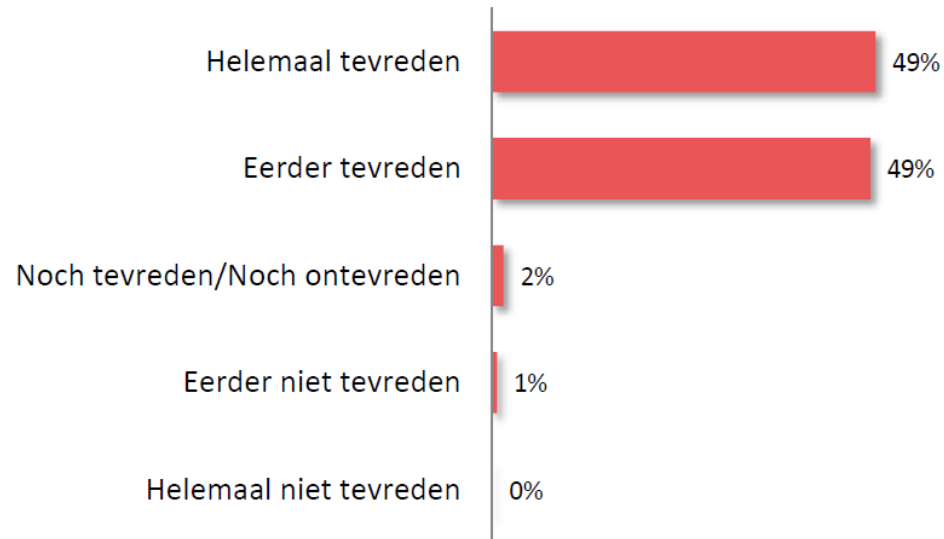
2. Hiking Research (province wide)



Overall satisfaction

98%

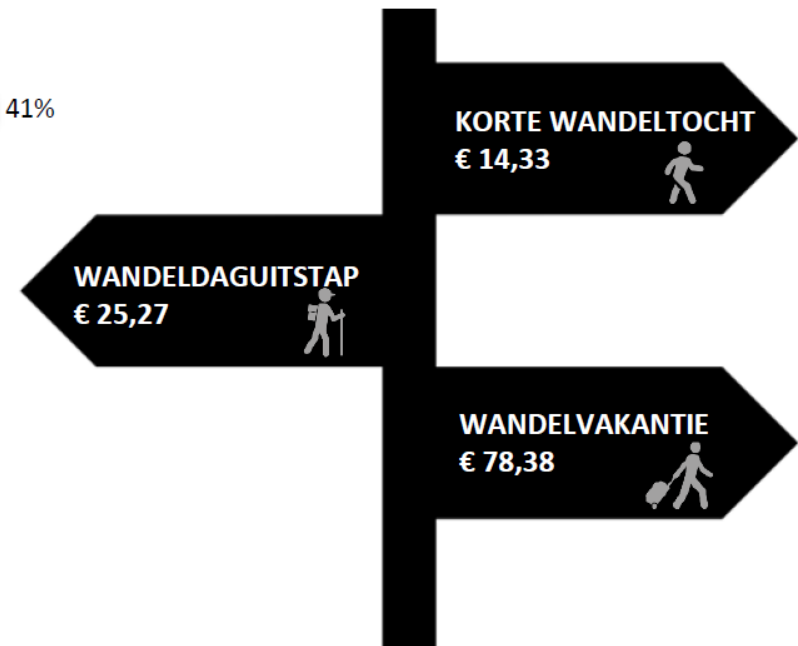
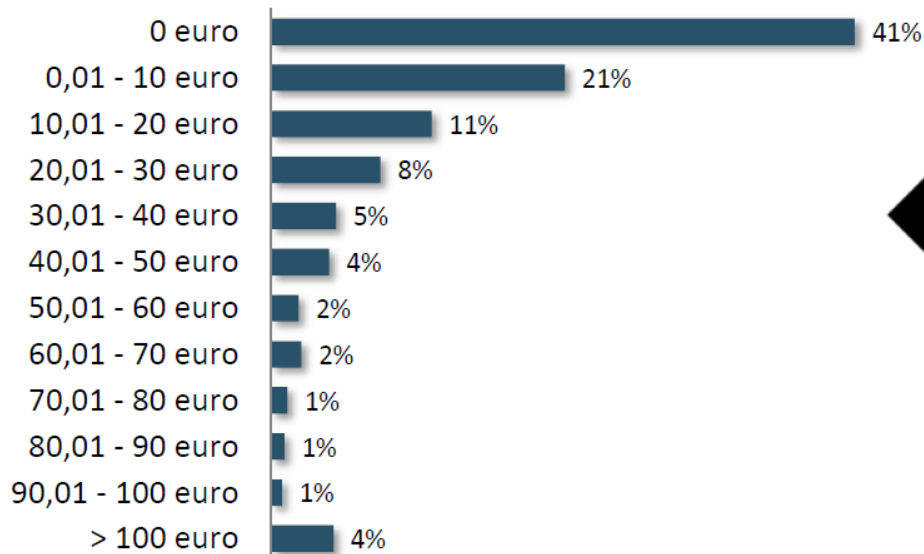
is tevreden



2. Hiking Research (province wide)

Average spending

€ 19,75
gemiddelde besteding



2. Hiking Research (province wide)

hikers

2.196.237

wandelaars in 2018

2.042.678

wandelaars in 2017

1.766.858

wandelaars in 2016



spending / year

€ 43.375.681

totale bestedingen

56%



20%



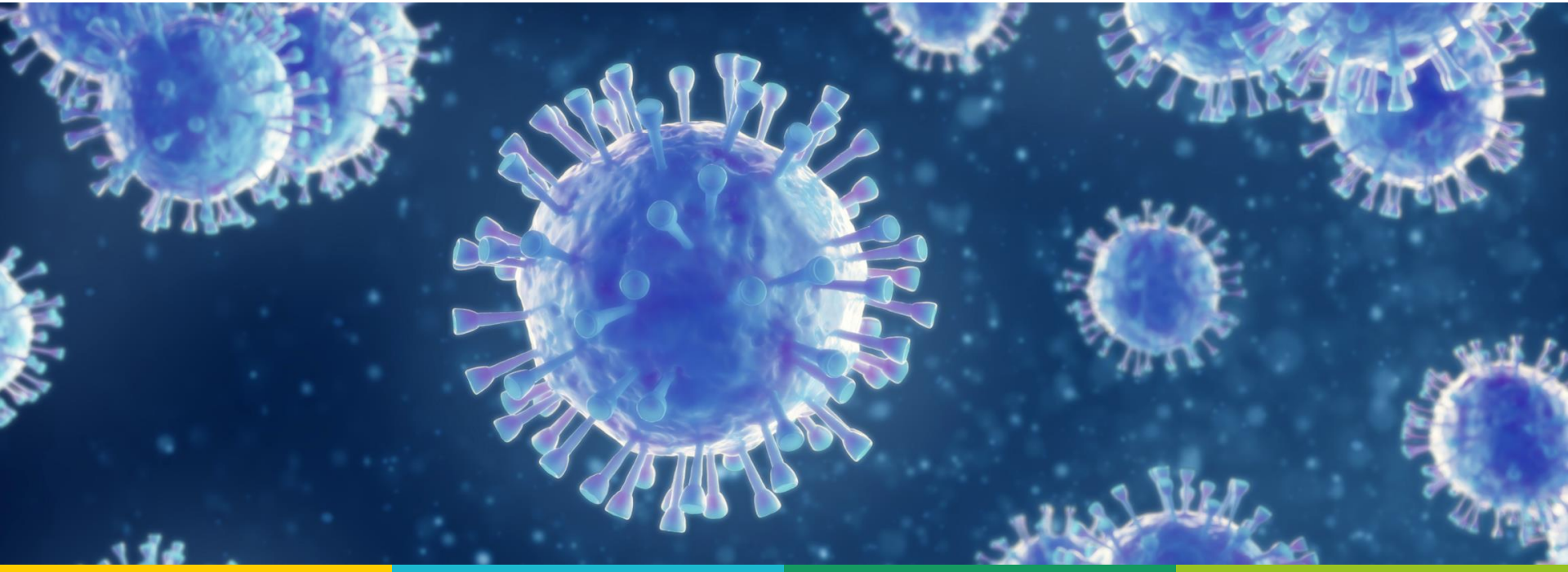
24%



2. Hiking Research (province wide)

March - April 2019 vs. March - April 2020

+ 28-42% hikers



2. Hiking Research (province wide)

Research University Antwerp (11.300 participants):

- **Nearly all respondents went out into nature regularly during the coronacrisis, more than a third even several times a day.**

- **More than half did this more often than before the coronacrisis.**

2. Hiking Research (province wide)

Research University Antwerp:

- **More than half of the respondents who found their way to nature are experiencing nature even more positively than before the coronacrisis. Most are grateful for the alternative to sitting inside.**
- **The vast majority consider it important for health to go into nature. Almost 90% feel fitter, more positive, more relaxed, happier, less anxious and less vulnerable after being in nature.**

2. Cycling (province wide)



Total spending: 57.330.000 EUR / year

2,1 million cyclists (recreational) / year

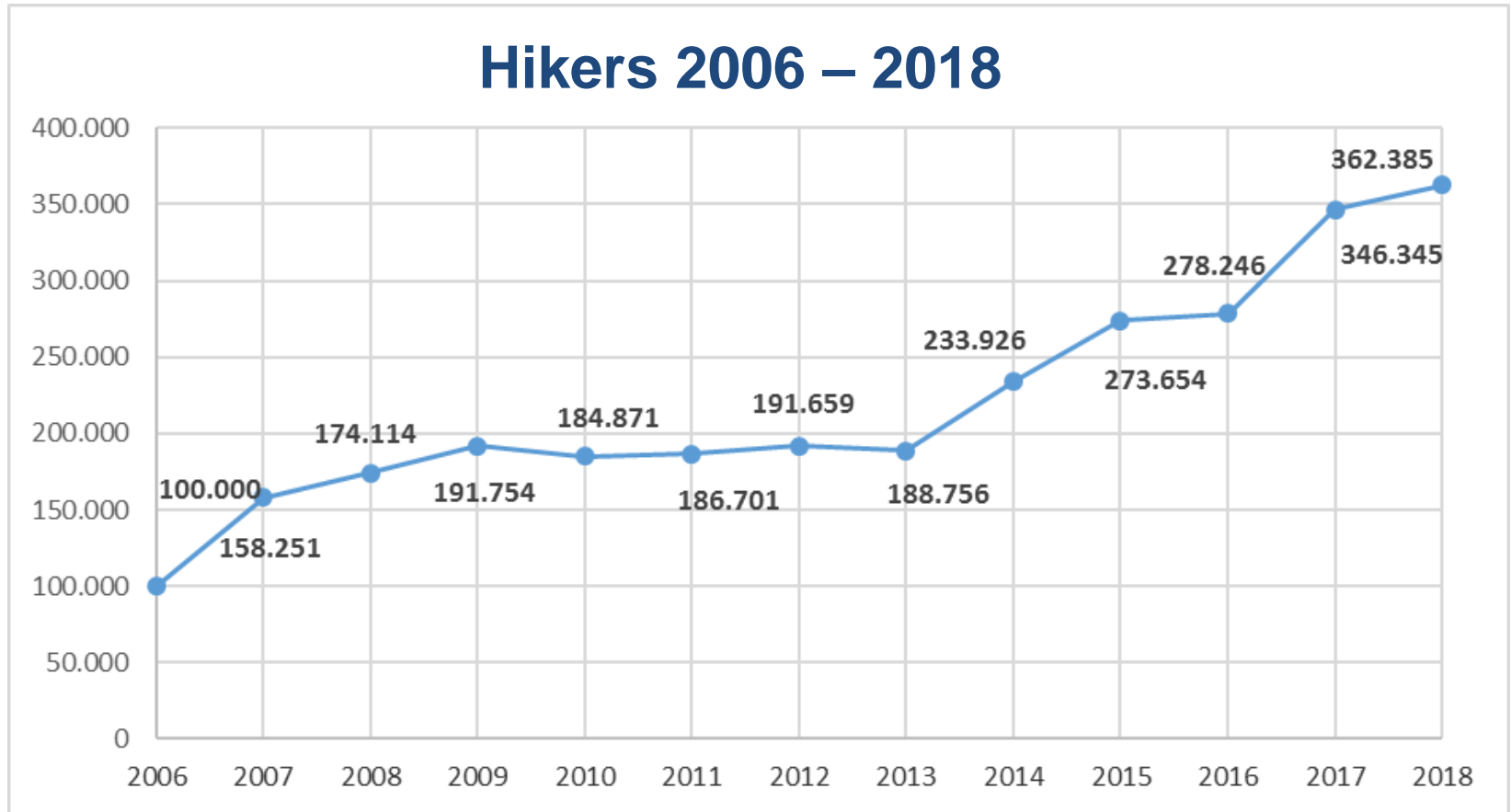
Average spending/ cycling tour (45 km) = 27,63 EUR

cycling and hiking
100 Million EUR each year

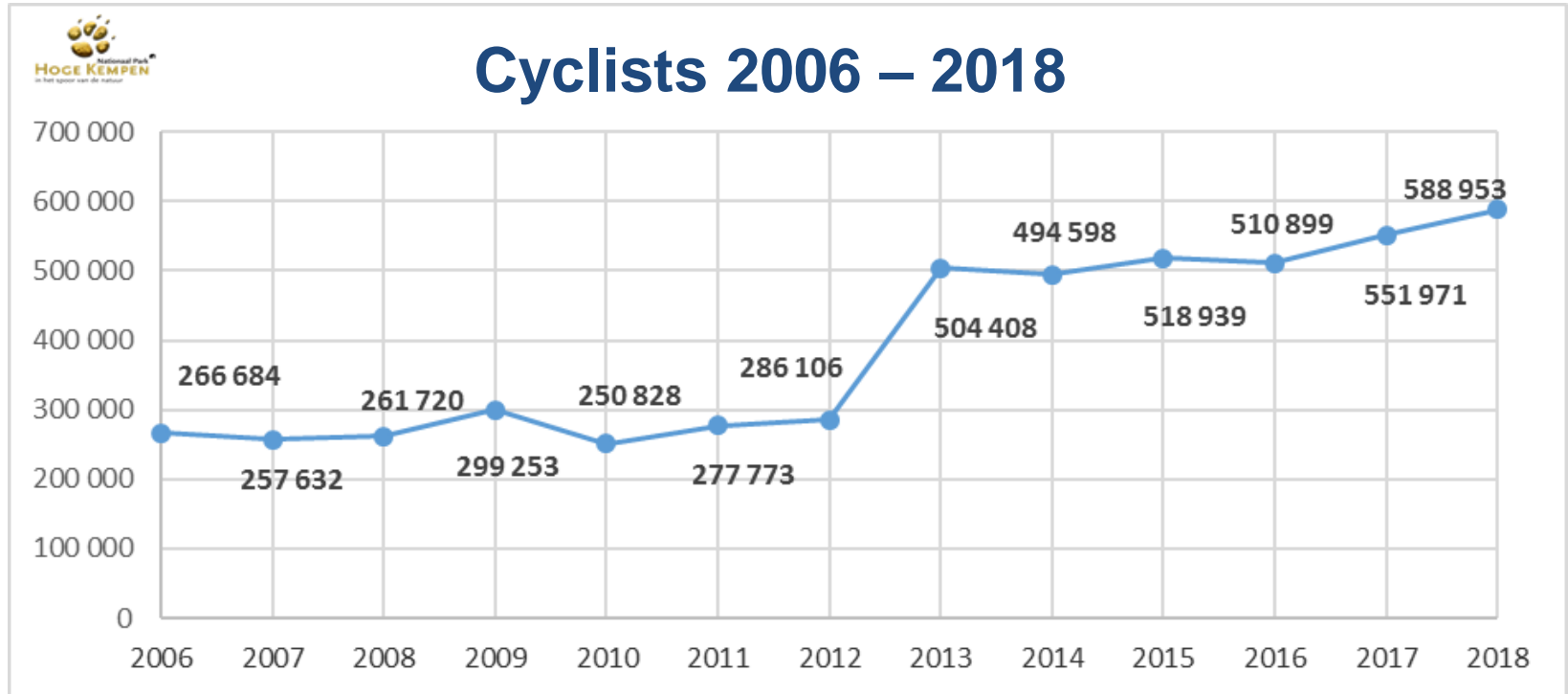
#1 reason to come:



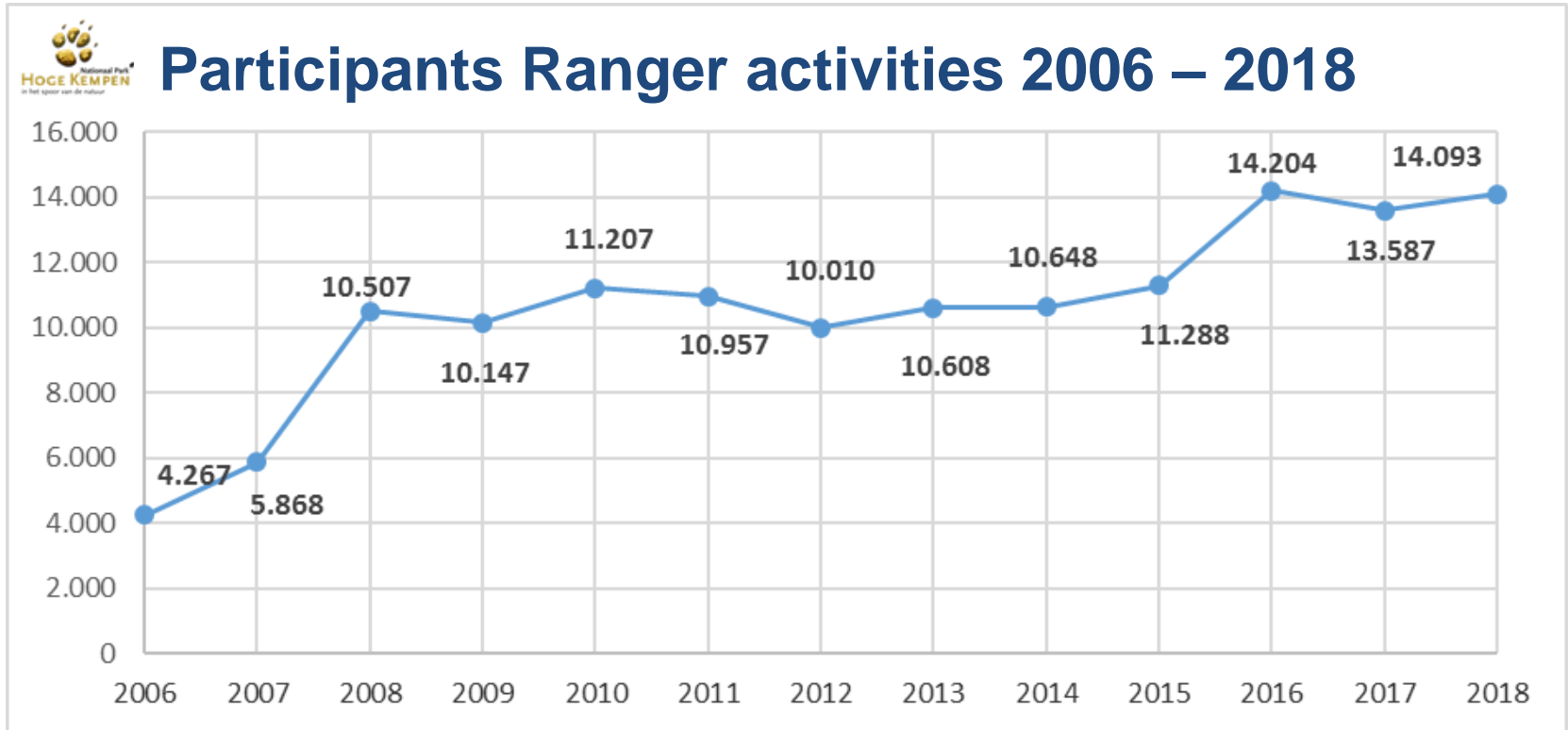
3. National Park Hoge Kempen



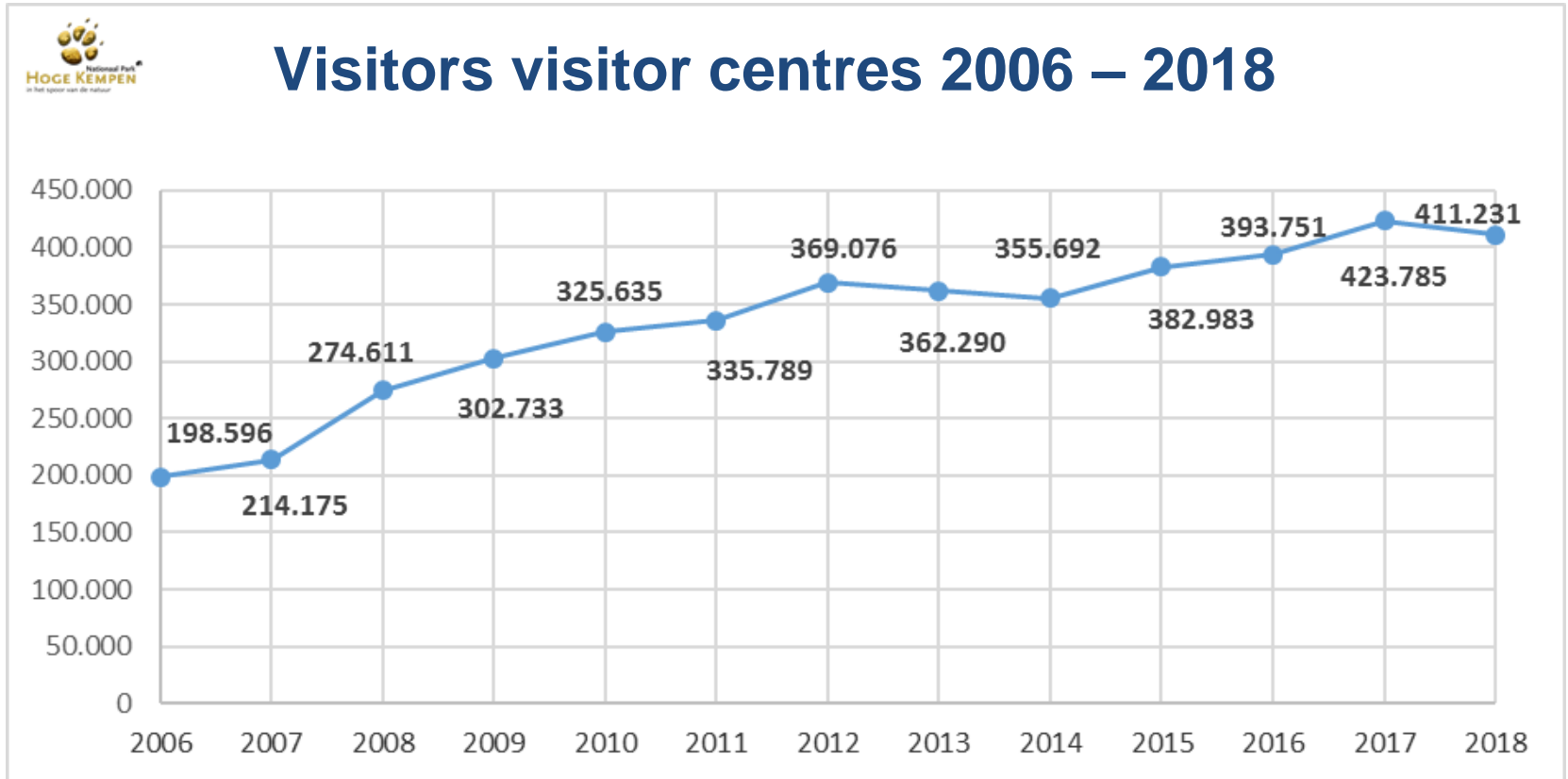
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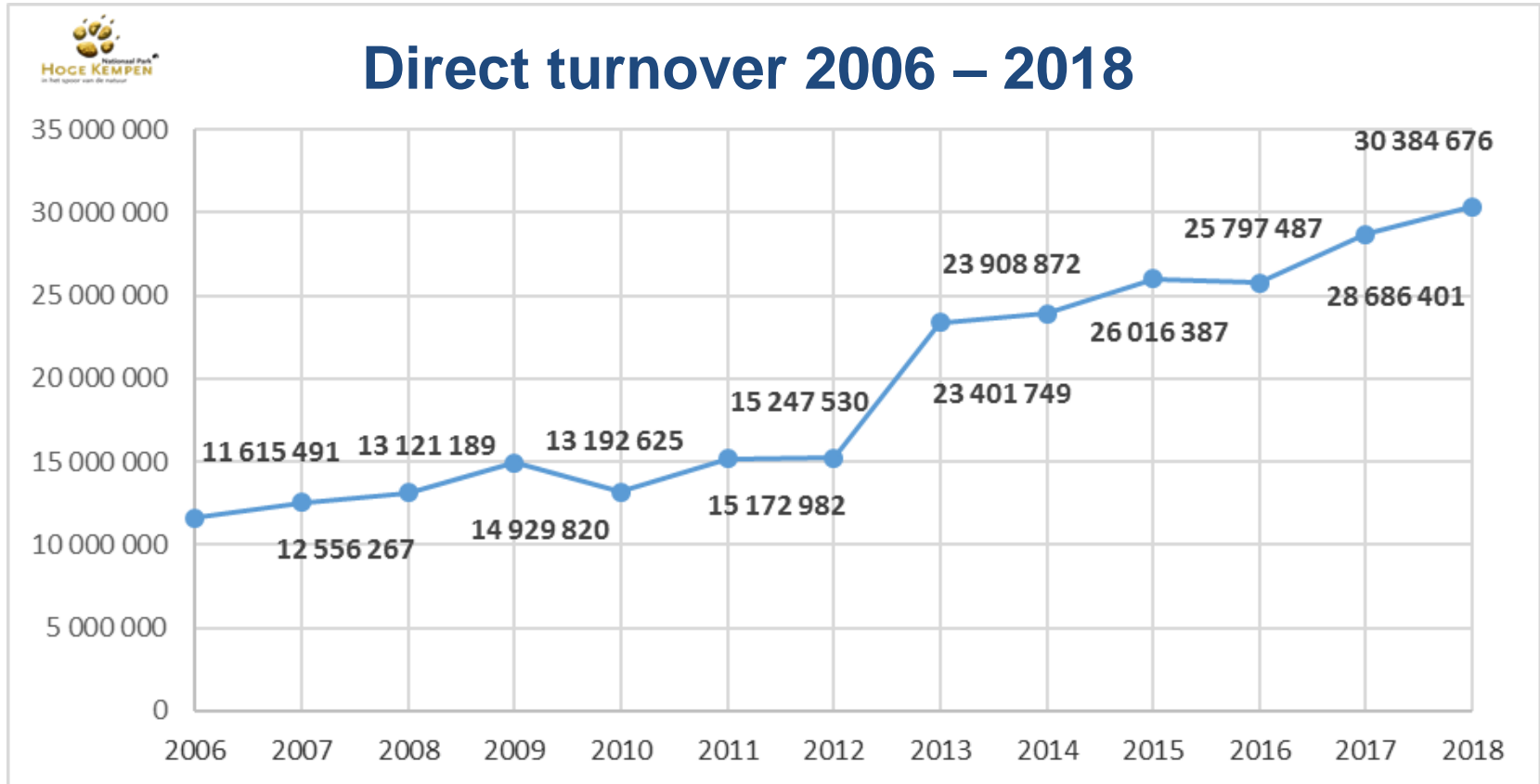
3. National Park Hoge Kempen



3. National Park Hoge Kempen

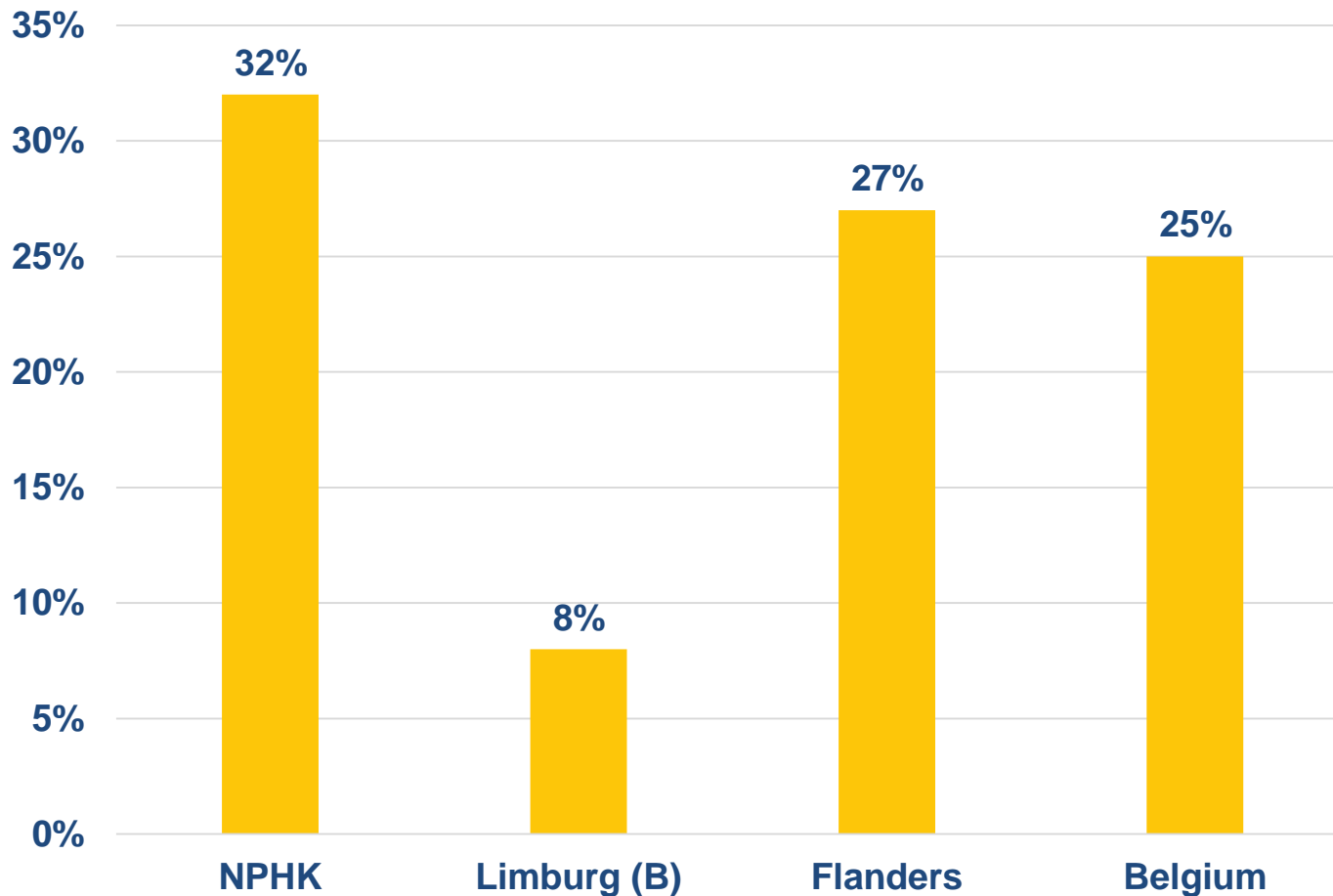


3. National Park Hoge Kempen



3. National Park Hoge Kempen

Increase overnight tourists 2005-2013

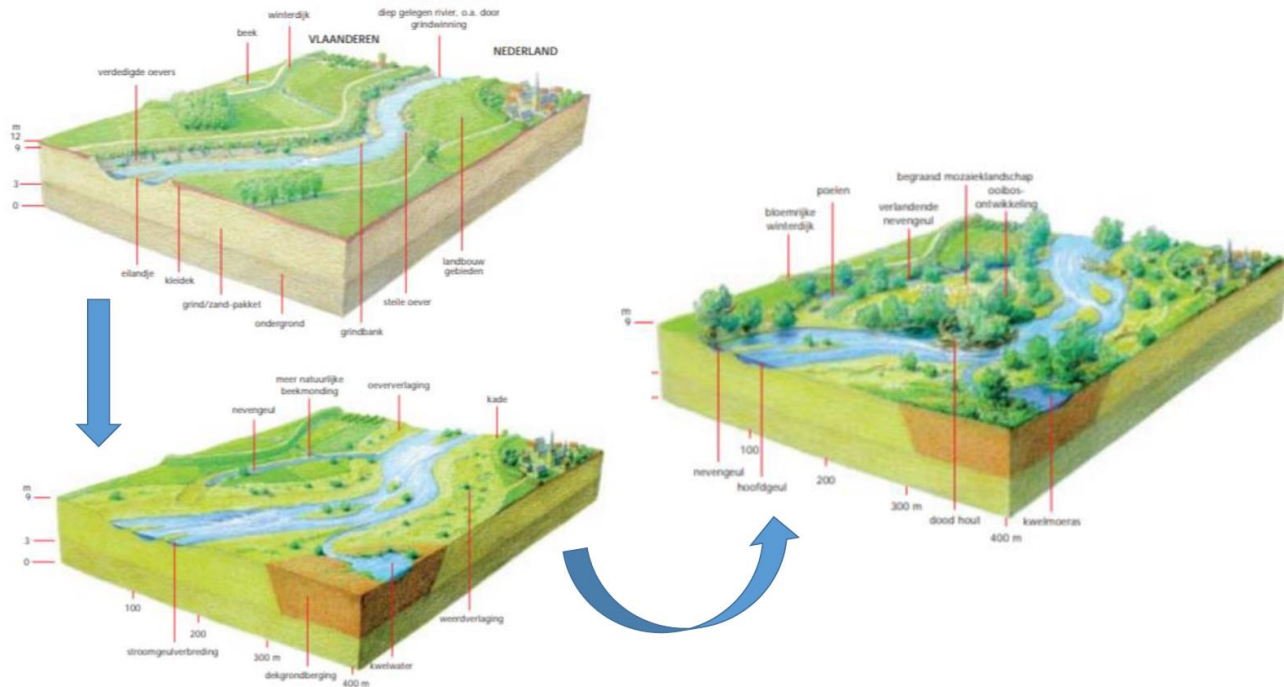


4. Social benefits of ecological restoration of the river Meuse



from flood protection to ecological restoration

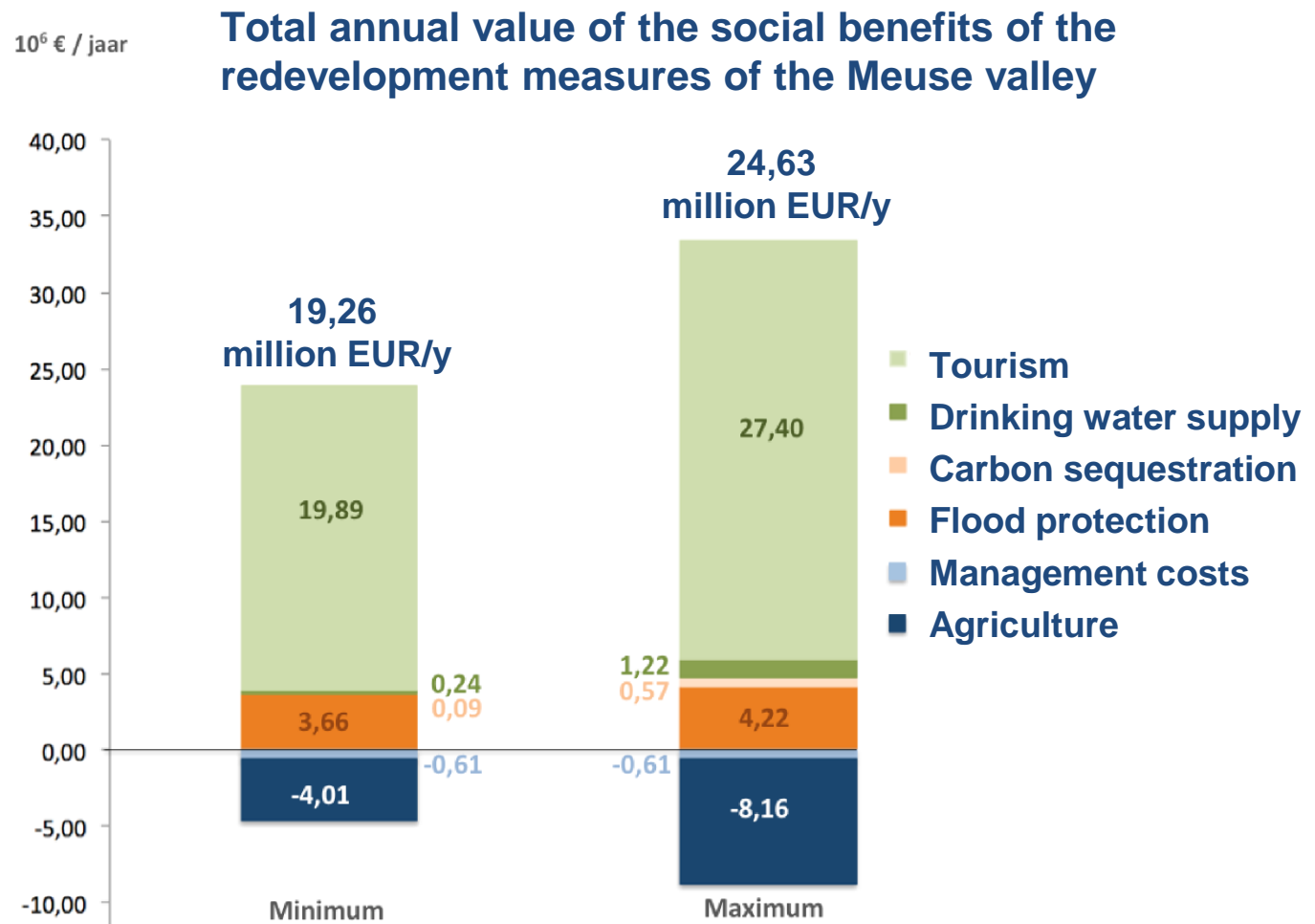
4. Social benefits of ecological restoration of the river Meuse



from flood protection to ecological restoration

4. Social benefits of ecological restoration of the river Meuse

Ecosystem services



(Future) questions

- **Gain more insight in how much of this money is reinvested back in nature, landscape, infrastructure,... by those who benefit?**
- **Maximum carrying capacity of nature?**
- **...**

5. Transboundary Survey of Biodiversity

www.waarnemingen.be en www.waarneming.nl

“The largest nature platform in the Netherlands and Belgium to enable everyone to store and share nature observations via the internet in order to document the richness of nature for now and for the future.”

5. Transboundary Survey of Biodiversity

Waarnemingen uit Kempen-Broek
 Invoeren ▾ Waarnemingen ▾ Overzichten ▾ Mijn waarnemingen.be ▾

Vernieuwd op: do 04 jun 2020 14:08:29 CEST Volgende vernieuwing na: 14:08:29 volgende dag

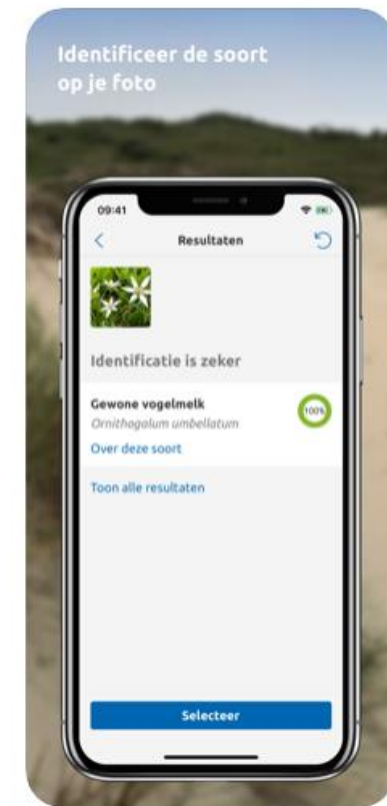
Soortgroep:
 Familie:
 Jaar:
 Maand:
 Begindatum:
 tot:
 jaargetijde:
 Zeldzaamheid:
 Soort:
 Hybride:
 Verzamelsoort:
 Synoniem: Gebruik de toets control (ctrl) + muisklik om meerdere items te selecteren

Soorttype:
 vondst (dood)
 vangst
 sporen
 verkeersslachtoffer Gebruik de toets control (ctrl) + muisklik om meerdere items te selecteren

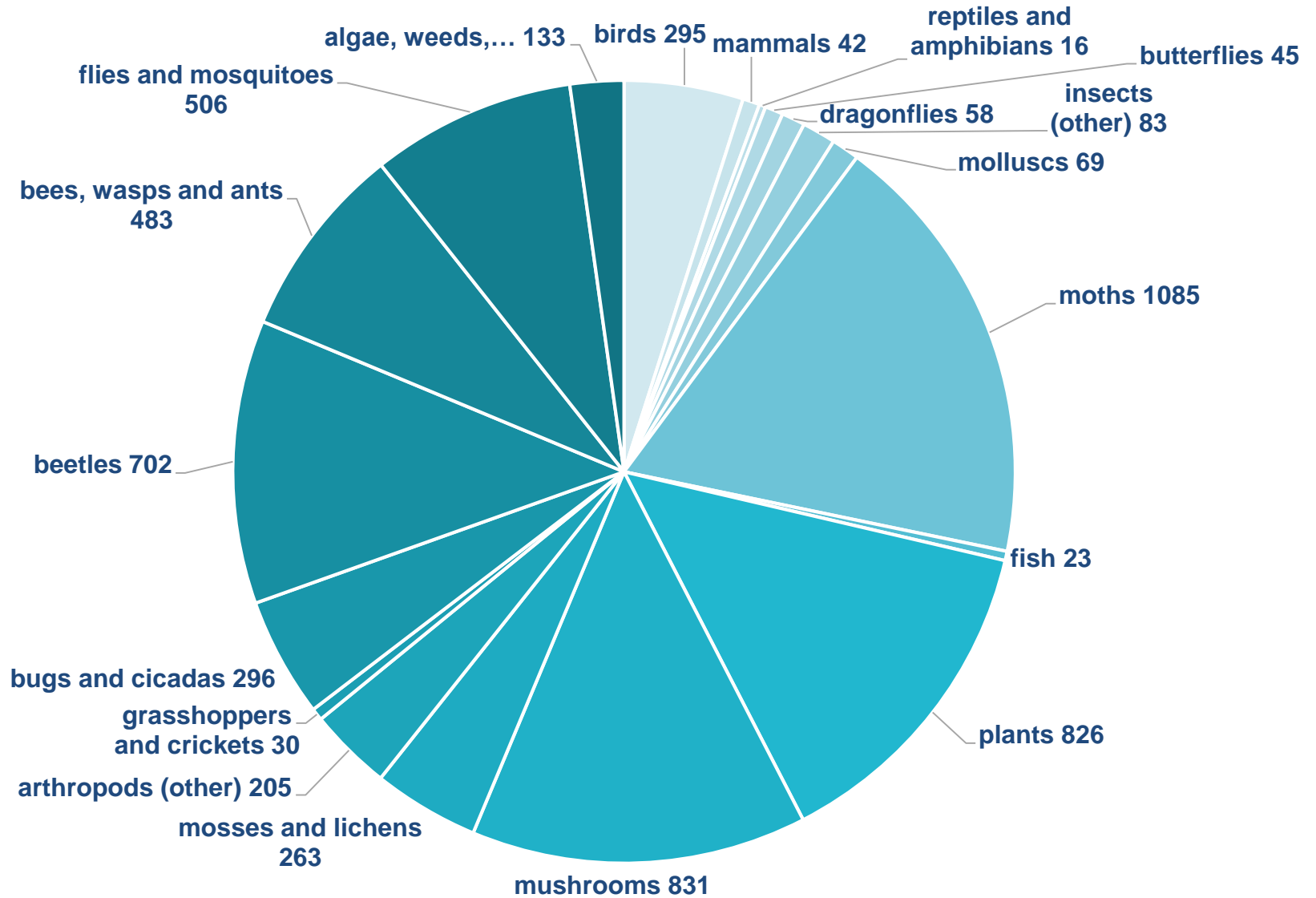
incl. deze activiteiten: inclusief niet inheemse en uitgestorven soorten *
 inclusief escapes **
 alleen goedgekeurde waarnemingen

Soorttype : Soort

#	euring	soort	vroegste datum	aantal	#	laatste datum		
1	3320	Korhoen - <i>Lyrurus tetrix</i>	1924-07-01	72	263	1978-11-05		
2	3670	Patrijs - <i>Perdix perdix</i>	1865-01-01	573	1.750	2020-06-01		
3	3700	Kwartel - <i>Coturnix coturnix</i>	1927-04-18	240	306	2020-05-31		
4	1680	Rotgans - <i>Branta bernicla</i>	2005-11-30	3	6	2013-03-23		
5	1690	Roodhalsgans - <i>Branta ruficollis</i>	1999-12-04	3	3	2019-08-18		
6	1670	Brandgans - <i>Branta leucopsis</i>	1985-07-14	574	2.487	2020-05-29		
7	1630	Sneeuwgans - <i>Anser caerulescens</i>	2019-01-07	1	1	2019-01-07		
8	1610	Grauwe Gans - <i>Anser anser</i>	1974-12-08	2.974	88.098	2020-06-02		
9	1571	Taigarietgans - <i>Anser fabalis</i>	1997-12-31	4	6	2004-02-05		
10	1580	Kleine Rietgans - <i>Anser brachyrhynchus</i>	1999-12-04	14	33	2019-12-26		
11	1574	Toendriarietgans - <i>Anser serrirostris</i>	2004-01-15	443	79.584	2020-02-21		
12	1590	Kolgans - <i>Anser albifrons</i>	1979-02-27	528	44.995	2020-03-28		
13	1600	Dwerggans - <i>Anser erythropus</i>	1997-12-21	8	8	2009-05-09		
14	1520	Knobbelzwaan - <i>Cygnus olor</i>	1980-07-31	2.269	9.083	2020-06-03		



5.991 Species observed



As part of our UNESCO Man and Biosphere application procedure, we are working on an Agenda for Scientific research, Monitoring and Education



Who has ideas, examples, methods which can be shared?