

2016
future of
waterfowl
conservation
workshop



**waterfowl as a key subject in
vocational education**

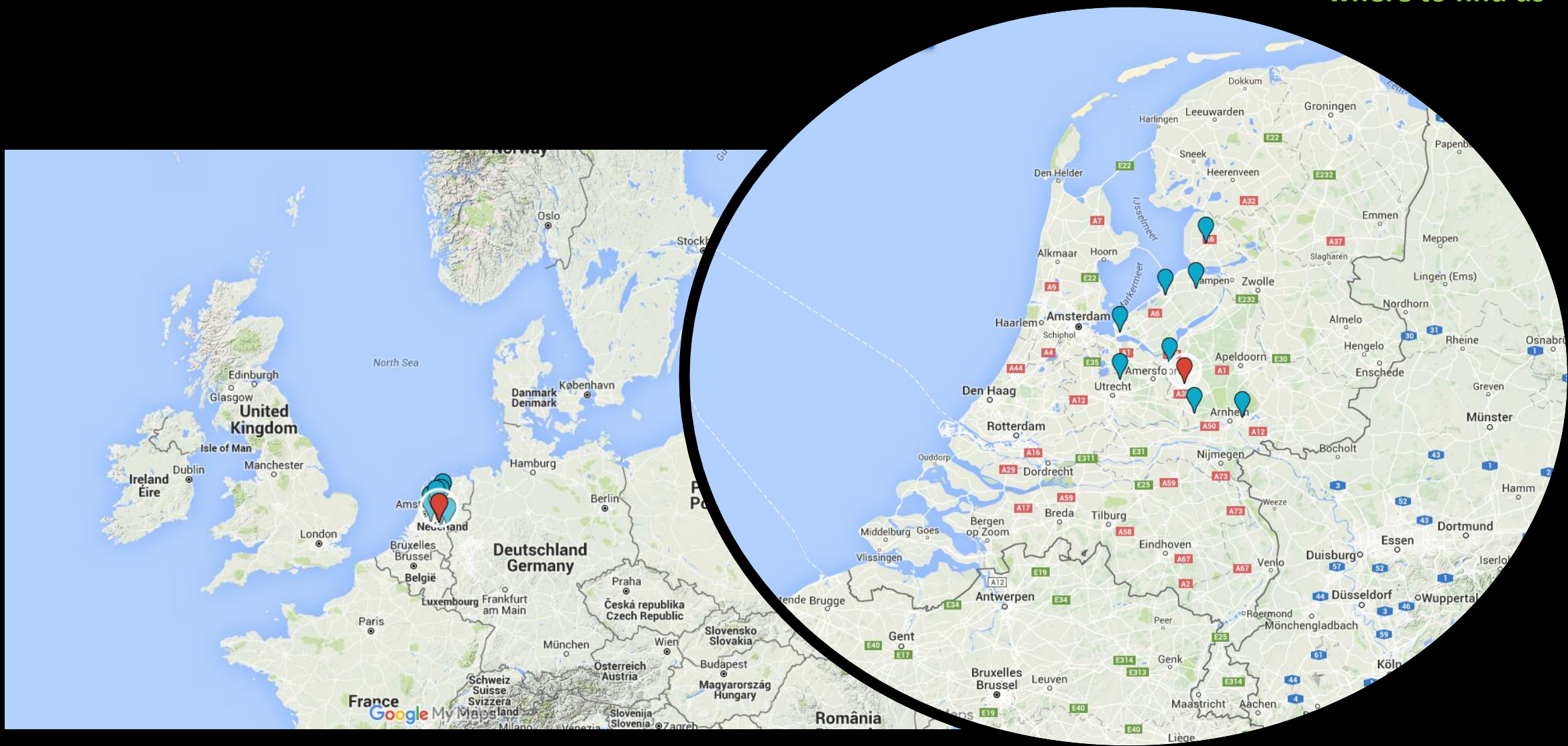
Jan Harteman
Groenhorst Barneveld
feb. 27, 2016



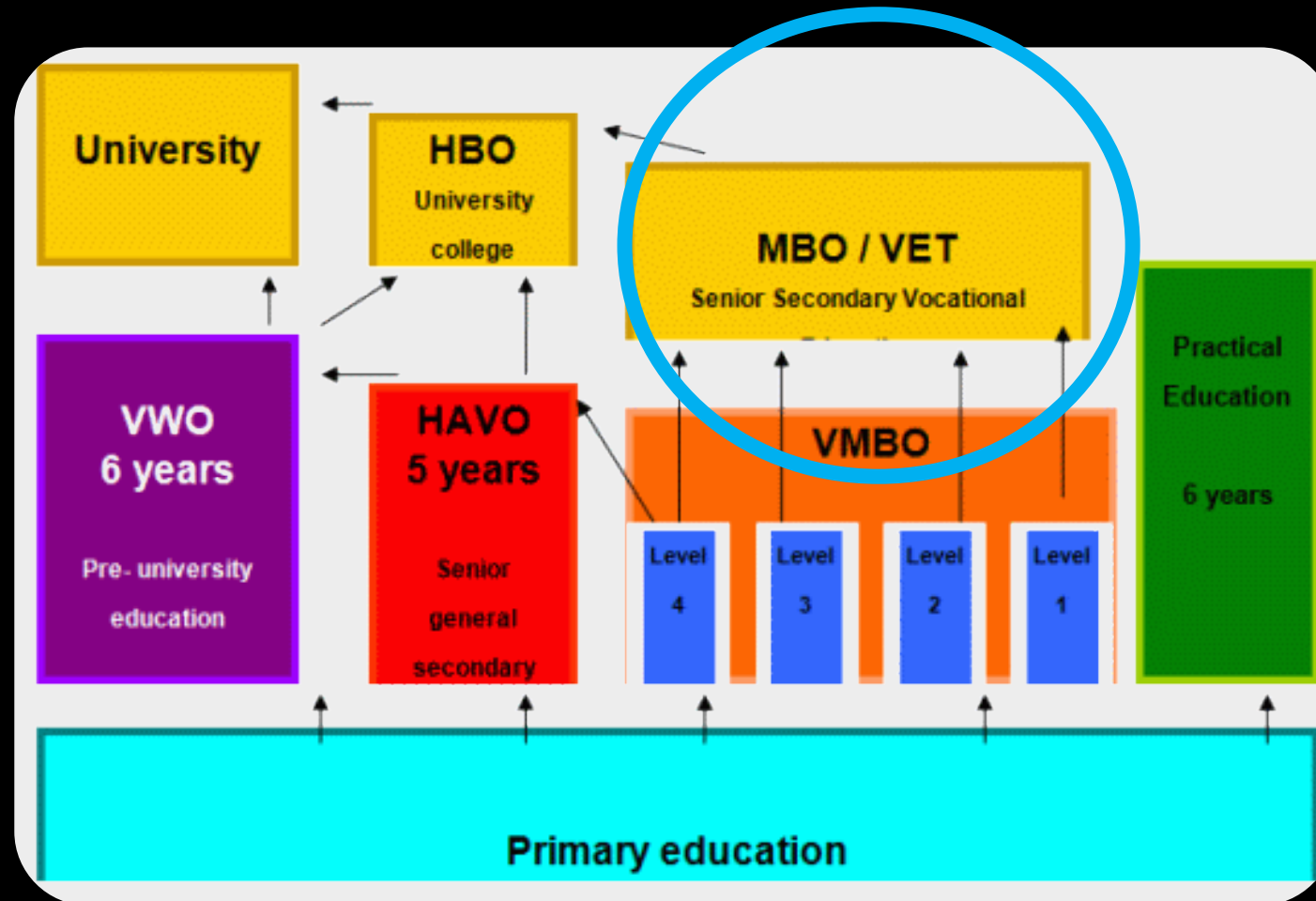


Groenhorst Barneveld





Dutch education system





Groenhorst Barneveld is home to 2000 animals



- Vocational education in agricultural and pet animal industry
 - Animal husbandry/ animal management
Including zoo keeping (specialty within the course)
 - Veterinary nursing (Acovene recognition)
 - Equine (horse) management/ equine sports
 - Poultry production (BTEC qualifications)
 - Dairy production (BTEC qualifications)
- Rated as best vocational colleges in 2011, 2012, 2013, 2014, 2015 & 2016.
- UNESCO school, work in support of international understanding, peace, intercultural dialogue, sustainable development and quality education
Large network of over 2000 companies offering internships

Groenhorst Colleges offer:

- A lot of **knowledge** and **skills** amongst our teachers and professional **network**;
- **Practical learning and working** on 21st century skills as an essential part of our education;
- **Consistency** between our curriculum and the demands of our professional network because of close links;
- **skilled and qualified zookeepers** to zoological institutions



*Bert Kleijer
head of waterfowl department*



*Jan Harteman
head of exotic bird department*

waterfowl aviaries: overview



waterfowl aviaries: overview



choice of waterfowl species

Aviary 1 (Asia/ Africa)	Aviary 2 (Americas)	Aviary 3 (Europe)	Aviary 4 (Cranes)	Swan pond	Softbill aviary
1.1 Red-breasted goose	2.2.1 Puna ibis	1.1 Eurasian lapwing	1.1 Grey crowned cranes	1.1 Black swan	1.1 Ringed teal
3.3 Mandarin duck	2.2 NA Wood duck	1.1 Oystercatcher		2.2 Hook-billed duck	1.1 Brahminy starling
1.1 Baikal teal	2.2 Ringed teal	1.1 White stork		5.8 Dutch call duck	1.1 Silky starling
2.2 Hottentot teal	1.1 Bahama pintail	1.1 Common shelduck		1.2 Crested duck	1.2 Red fody (weaver)
1.1 White-headed duck	2.2 Hooded merganser	1.1 Northern shoveler		1.1 Indian runner	1.1 Temminck tragopan
2.2 WF whistling duck		2.2 Common (Eur) teal			
		1.1 Eurasian wigeon			
		1.1 Tufted duck			



Movie clip of our waterfowl aviaries

livestream webcams for our mandarin ducks



trailcams to spy the birds



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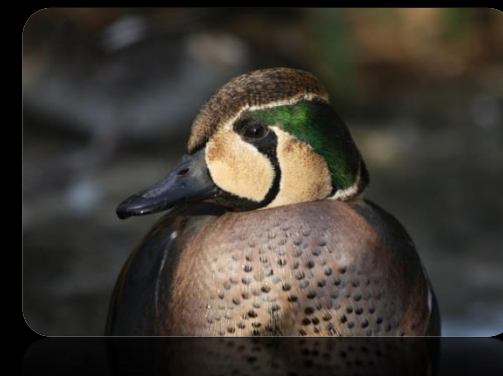
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Movie clip using trailcams

waterfowl aviaries: Africa/ Asia



Movie clip of our white-headed ducks

waterfowl aviaries: North & South America



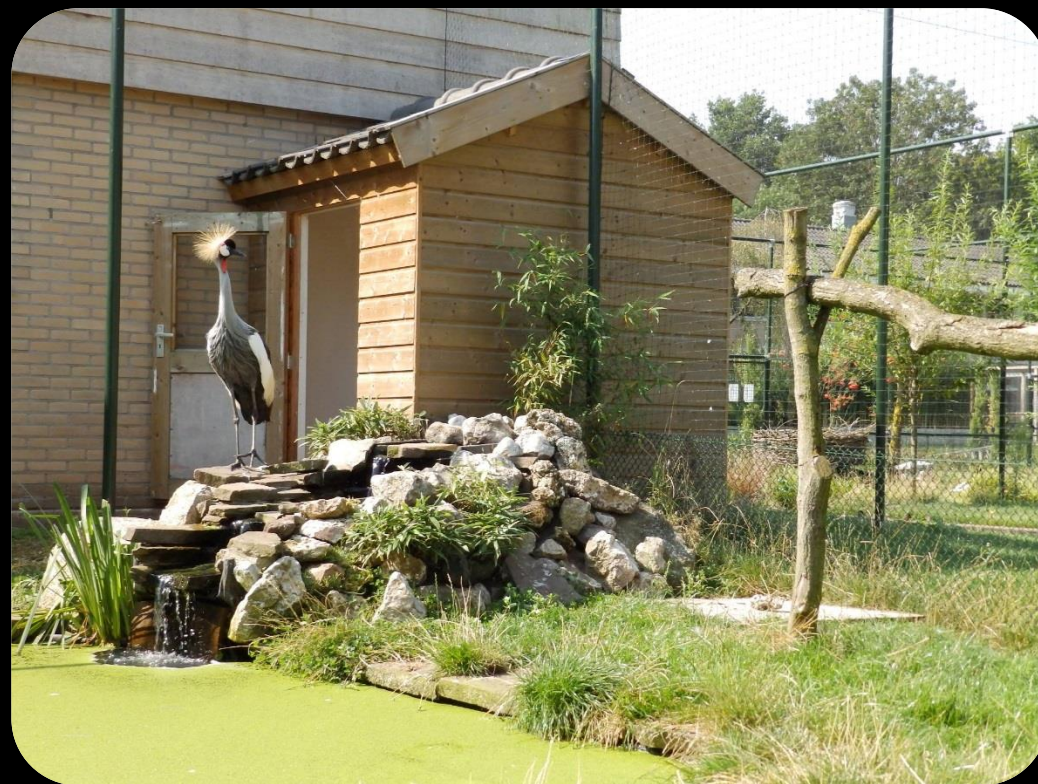
waterfowl aviaries: European birds



waterfowl aviaries: European birds



waterfowl aviaries: African birds





waterfowl aviaries: mixed softbill exhibit

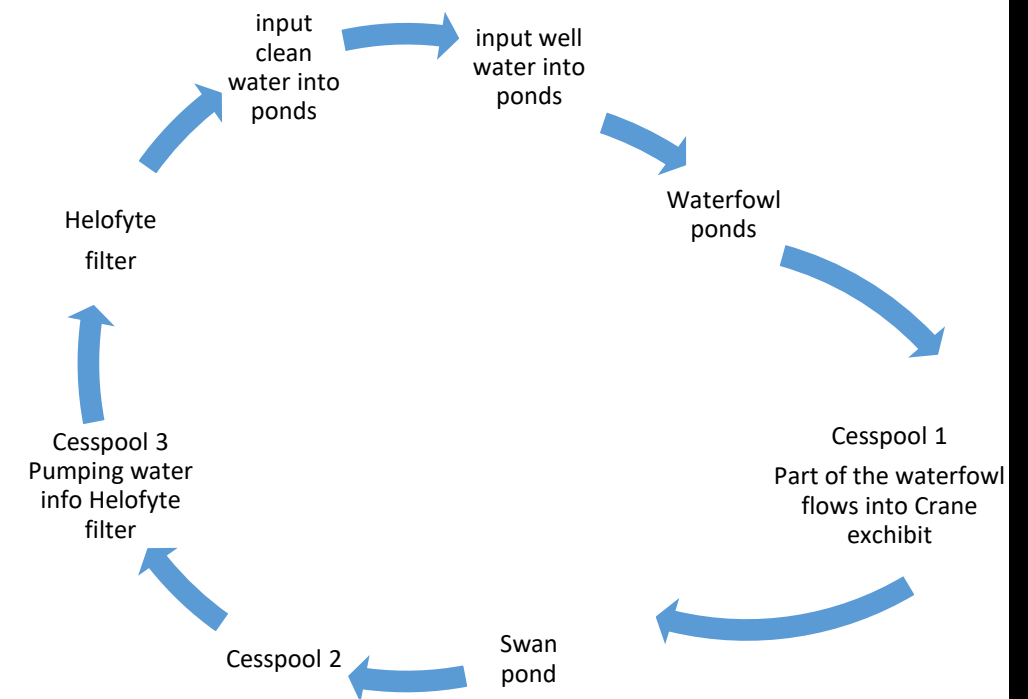
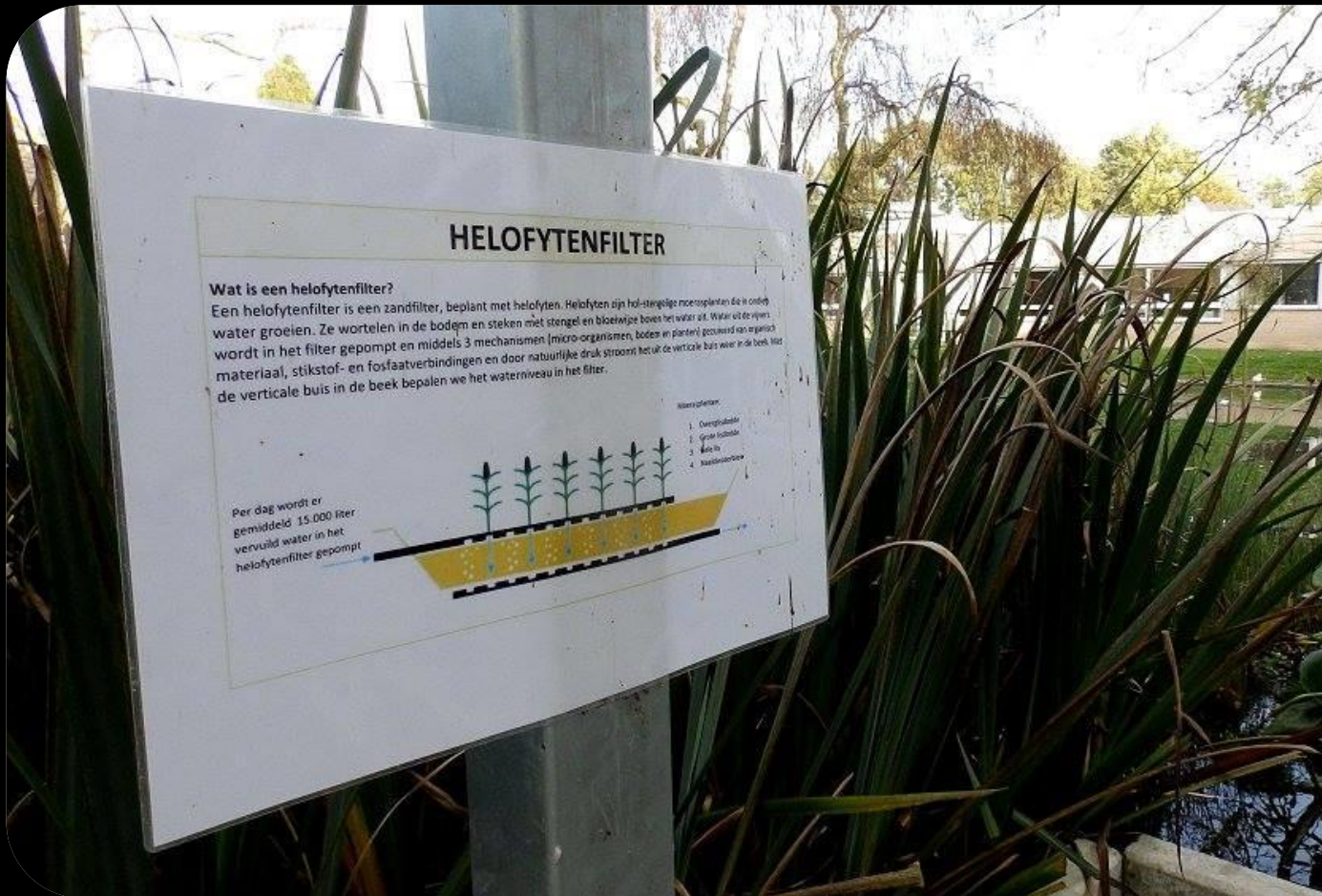


domesticated waterfowl: our cultural heritage

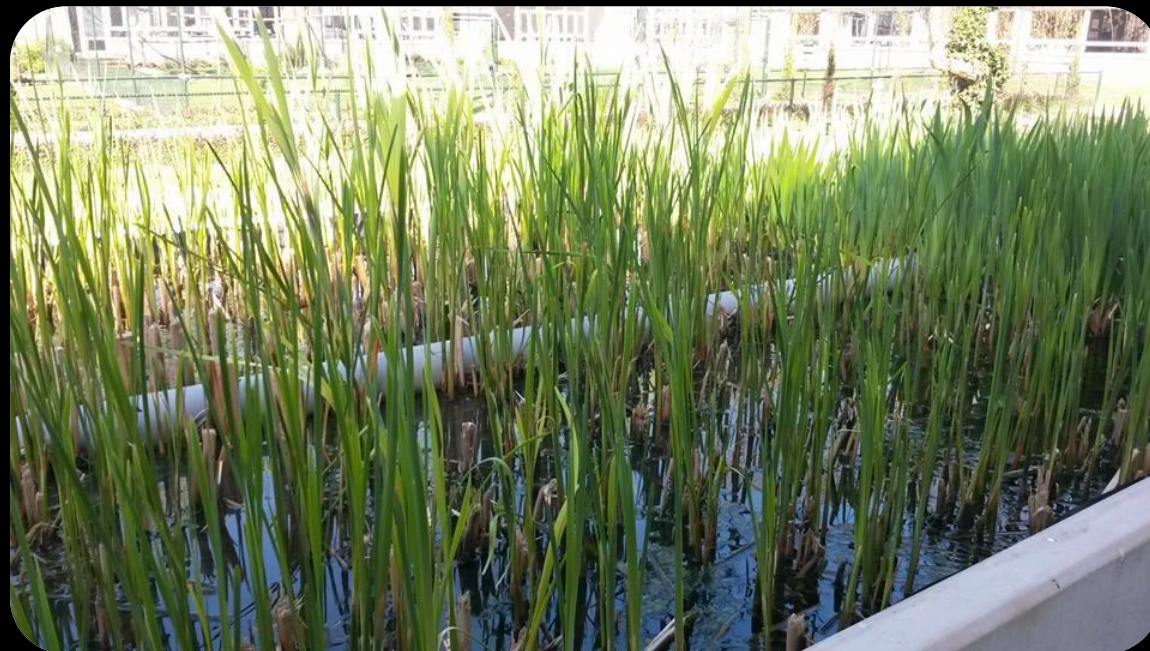




waterfowl aviaries: design and technics



waterfowl aviaries: helofyte filter

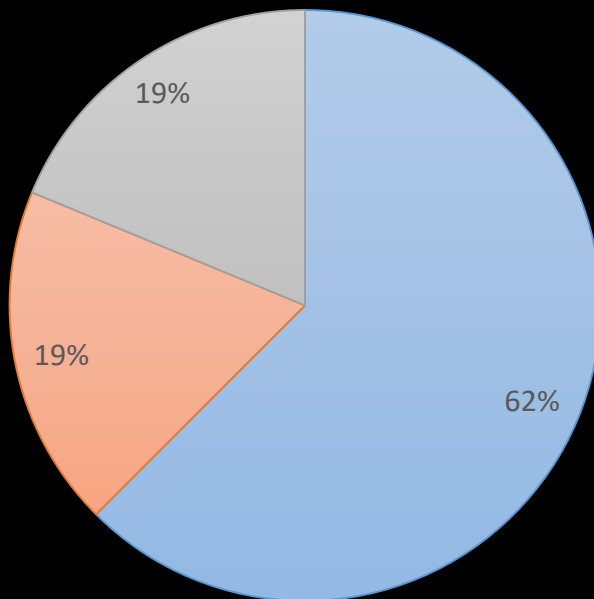


Identification methods



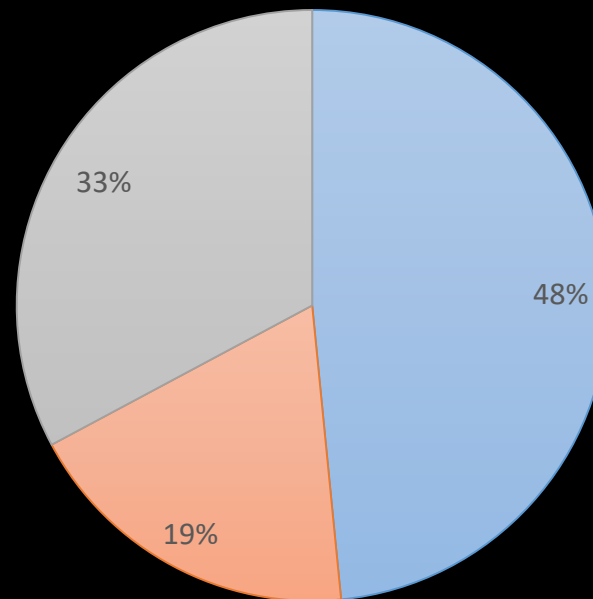
our education schedule: 3 years, vocational education level 4

1st Year (1600 hours)



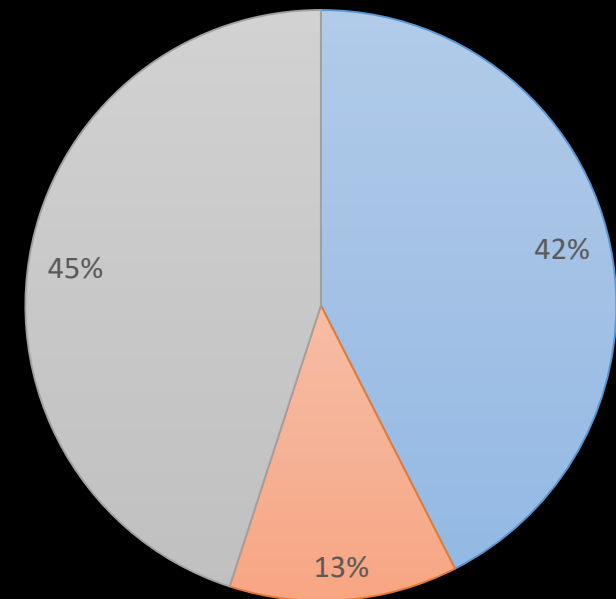
■ class time (theory) ■ class time (practical)
■ internships

2nd Year (1600 hours)



■ class time (theory) ■ class time (practical)
■ internships

3rd year (1600 hours)



■ class time (theory) ■ class time (practical)
■ internships

taking care for the birds, 365 days a year

Schedule

- School days 1st shift 8.00 AM – 9.00 AM
- School days 2nd shift 2.45 AM – 4.15 AM
- Weekend + vacation 8.30 AM – 4.00 AM

Level	1st year	2nd year	3rd year
1	N/A	N/A	N/A
2	Schooldays	Weekend + vacation	N/A
3	Schooldays	Weekend + vacation	Weekend service
4	Schooldays	Weekend service	Managing role 365 days/year



taking care for the birds, 365 days a year



taking care for the birds, 365 days a year



taking care for the birds, 365 days a year



Breeding facilities



measuring and reporting



How students educate our guests





Erasmus+

This project is funded by the European Union.



Strategic partner in the *European Zoo Keeper Competency Framework*



From 2015 to 2018 we collaborate in a project to develop modules and a framework to Professionalize the European zookeepers and improve animal welfare.













Groenhorst Barneveld

Want to know more? Follow us on social media:



Or visit us at www.groenhorstbarneveld.nl

The future is in our hands

