

# Ministry of Infrastructure and the Environment





# Tussenstand Wozepbijeenkomst 2018

Kees Borst; Inger van den Bosch; Aylin Erkman; Martine Graafland; Maarten de Jong; Suzanne Lubbe; Maarten Platteeuw; Ingeborg van Splunder; Marijke Warnas

Presenter:

Ingeborg van Splunder (RWS)





### Welcome

Goal of the 'Tussenstand Wozep' meeting

Start at the beginning:

What is Wozep?

(Offshore wind

ecological programme)







### Offshore Wind Ecological Programme (Wozep)

- Ministry EKZ has given assignment to RWS 2016
- Government coordinates research programme Wozep
- Earlier, monitoring and evaluation part of permit by wind sector

### Goals of Wozep research programme:

- Reduce uncertainties in knowledge gaps and assumptions in EIA/AA
- Reduce uncertainties in upscaling offshore wind energy after 2023
- Effectiveness and necessity of mitigation measures





### Need for international cooperation:

- Effects are trans-boundary;
- North Sea countries similar knowledge questions; re-use of data and knowledge
- Cumulative effects on North Sea level





## Wozep research programme

Priority species and pressures:

- Marine mammals, under water noise
- Birds, collision and displacement
- Bats, migrating subpopulation, collision
- Benthos 'long' term development soft and hard substrate
- Focus on cause-effect relationships











## Role Wozep

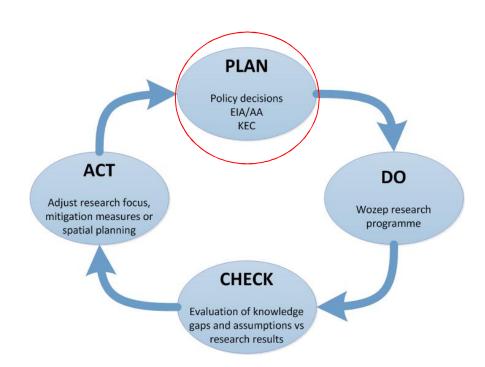
Future plans offshore WF

- PBL scenario's
- Min. EZK is preparing plans for WF

Research is part of adaptive management process

**Summer 2018:** 

KEC update for next WF's







### Programme

10.00 - 10.15 Welcome, introduction - I. van Splunder (RWS)

#### Birds

10.15 – 10.25 Maarten Platteeuw (RWS): short introduction in Wozep bird research.

10.25 – 10.50 Tobias van Kooten (WMR) - habitat modelling

10.50 – 11.15 Astrid (Bureau Waardenburg) - Population dynamics

Coffee 11.15 - 11.30

11.30 – 11.55 Mardik Leopold (WMR) presence of guillemots in wind farms

#### **Benthos**

11.55 – 12.00 Maarten de Jong (RWS) short introduction benthos

12.00 – 12.20 Edwin Verduin (Eurofins); Benthos soft substrate survey in PAWP

Lunch 12.30 - 13.30





#### Marine mammals

13.20 – 13.30 Aylin Erkman (RWS): short introduction marine mammal / underwater noise research

13.30 – 13.55 Ron Kastelein (Seamarco): energetics of Harbor porpoise

13.55 – 14.20 Christ de Jong (TNO): frequency weighting of underwater noise

Tea 14.20 - 14.35

#### Bats

14.35 – 15.00 Maarten Platteeuw (RWS): short introduction Wozep bat research

15.00 – 15.25 Sander Lagerveld (WMR) bat migration at sea and along the North Sea-coast

15.25 Closing and glimpse of future plans; Ingeborg van Splunder

#### Borrel/Drinks







# Summary and glimpse towards the future

- Birds habitat loss
- Birds collisions
- Marine mammals
- Benthos
- EMF



## Looking around Wozep

- 'Doorvaart en medegebruik'
- Building WF's Natuurinclusief; improving wind farm habitat?
- KRM: effect WF's on ecological status
  Knowledge gaps KRM refer to Wozep research programme and KEC
- Possible consequences for KEC because of CEAF project
- Increasing area offshore windfarms: ecosystem effects?

### Work to be done!