# The Swedish Transport Administration

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**Trafikverket** 

## Bats!

What do we know? What do we not know?



# High speed Railway

Avoiding to build a new Great Chinese Wall i.e. to divide Sweden into three pieces!



No animals on the railway call for:

- The entire length is fenced
- Many fauna passages

If few fauna passages are built, a reinforced fence (higher and stronger) is a necessity and the result can be considered A Great Swedish Wall



#### The Species Protection Ordinance

In Sweden, the EU provisions on species protection from the Birds Directive (2009/147/EC) and the Habitats Directive (92/43/EEG) are mainly transposed to the Species Protection Ordinance (2007:845).

All Swedish bats are listed. But are they affacted by Roads, Railways and Traffic?

A steadily growing number of judgments in court showed that:

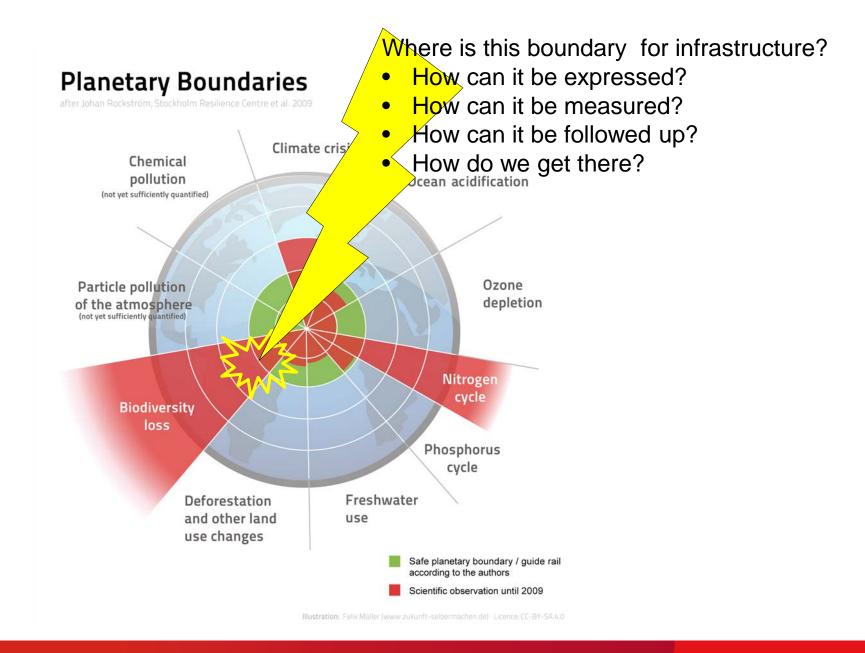
Not knowing, is no reason for excemption or an excuse from taking Bats into consideration or making mitigation measures.



There was a significand risk that Bats could cause great problems (time and costs) or even stop parts of the project.



Urgent need for knowledge. We contacted Johnny De Jong, CBM for help!



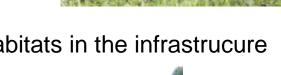
# **ECOLOGICAL STANDARDS for Roads and**

Railways: In order to meet the requirements for sustainable boundaries.

The decisive impacts on biodiversity should be addressed with the following adaptations:

- 1. Safe passages for animals (barrier and mortality)
- 2. No traffic noise in important birdhabitats (disturbance)





FOUND!

- 3. Maintain, strengthen and add new species-rich habitats in the infrastrucure (connectivity etc.)
- 4. Prevention and control of alien invasive species.

### 1. Safe passageses for animals should

- 8. När vägar och järnvägar kors perptrovided ka passage för vattenlevande djur finnas.
- 9. Vid ny- och ombyggnad av vägar och järnvägar ska passage för *grod-och kräldjur* finnas vid identifierade konfliktsträckor.
- 10. Anläggningen ska vara utformad så att djur inte riskerar strömgenomledning, kollisioner med ledningar eller att fångas i fällor (t ex kabelbrunnar).
- 11. Riktade miljöåtgärder ska vara genomförda på identifierade konfliktsträcker enligt Mitigation measures should be implemented
  - a. Medelstora dägon conflict areas identified according to
  - b. Stora däggdjur. established methods for the following
  - c. Fladdermöss. species:
  - d. Grod- och kräldjur .a. Ungulates and big carnivores
  - e. Vattenlevande djur. b. Other mammals
- 12. Alla passager ska skötas och underhållas Båtst de har fullgod funktion enligt skötselinstruktion och baskontrakt d. Amphibias and reptiles 13. Hantering av viltolyckor ska ske så att sekundara djurpåkörning
- 13. Hantering av viltolyckor ska ske så att sek indara djurpåkörningar orsakade av kvarliggande kadaver undviks.

# For each indicator (group of species) the following should be available:

- Definition
- Recommended methods for identification of serious conflicts with roads and/or railways (including traffic if relevant).

#### And furthermore

In "Technical standards for Design of Roads" where ecological "how" standards are included

- Recommended actions/mitigation measures (or set of)
- Recommended design of mitigation measures (if relevant)
- Recommended actions for mainentance



#### Ecological Standards, in summary

#### **BATS**

