## Wildlife detection dog and hamster protection - first results from the field -



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DEUTSCHE WILDTIER STIFTUNG

## **Previous Study**

Main Findings:

Wildlife Detection Dog Team (WDDT)

- 95 % reliable detection of burrow
- Time-saving method



Preliminary tests on new methods to monitor Hamster populations: strength, weakness and perspectives



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## Question

How reliable are the results of WDDT under certain conditions compare to Human chains?

- A) Vegetation Height
- B) Burrow Density





## **Study design & Time**

Mapping in 4 X 10 ha plots

A) Vegetation

low (Stubble field)

high (full grown sugger beet, maize)

B) borrow density

low <1B/ha

high >1B/ha

Timeframe : August 2020 / after grain harvest

First WDDT then human chain

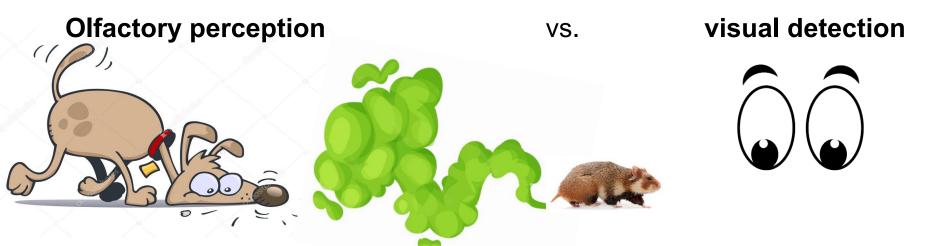


## **Key-Results**

- Human chain detected more bourrows in all sample sizes than WDDT also in not well visable terrain.
- High Borrow Densities (> 1 Bau/ha) were to exhausting for WDDT

#### But are the numbers actually comparable?

They are **different searching approaches**!



## Conclusions

• WDDT is a not adequate method for detail mapping

**Possible Applications:** 

- Find active burrows for trapping
- Find active burrows to place measures in the same year
- Find active burrows to prove the presence

But

should WDDT be employed for example before application of Rodenticides?



# Findings

**Crucial Conditions for WDDT:** 

Local weather conditions



Hamster activity



Required a high level of experience of the dog handler



find the right timing for investigation



### **Research Items**

- Quantitative evaluation of active burrows
- Evaluate the bias in a large study areas with low burrow densities
- Sharp the conditions for fieldwork
  - Evaluate the factors that influence odour detection
  - How long does hamster odour adherent to vegetation / burrows
- Guideline for detecting hamster burrows with WDDT



# Thank you for your attention!

