

## \*\*When one individual steals food from another individual, which already located and caught the food" (Hopkins & Wiley, 1972) \*\*Can effect predators' social system (Cooper 1991, Vucetich et al., 2004), evolution (Krofel et al. 2013), prey selection (Jedrzejewski et al., 1993; Hayward et al., 2006) and in combination with human influence -> potential threat (e.g. Carbone et al., 1997)

### EFFECTS OF KLEPTOPARASITISM BY BEARS ON GREY WOLF



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- ➤ bears present at 20 % of wolf kills (n=41)
- ➤ January-March: 20 % (n=24)
- April-August: 29 % (n=5)
- September-December: 0 % (n=4)





### EFFECTS OF KLEPTOPARASITISM BY BEARS ON EURASIAN LYNX



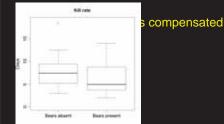
# KLEPTOPARASISITM IN LC COMMUNITY 2 % 1 % 2 % 32 %

### EFFECTS OF KLEPTOPARASITISM BY BEARS ON EURASIAN LYNX



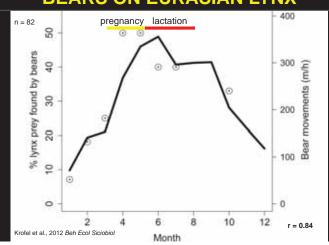
### EFFECTS OF KLEPTOPARASITISM BY BEARS ON EURASIAN LYNX

- ➤ bears usurped 32 % of lynx kills (n=83)
- ➤ 15 % losses of all prey biomass killed by lynx
- lynx increased their kill rate by 23 %,



Krofel et al. 2012 Beh Ecol Socio

## EFFECTS OF KLEPTOPARASITISM BY BEARS ON EURASIAN LYNX

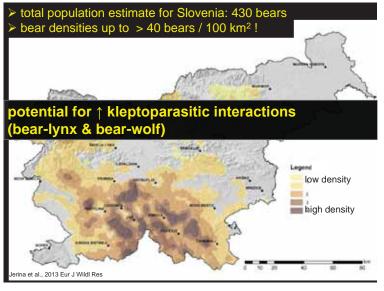


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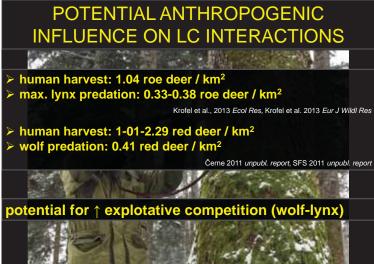


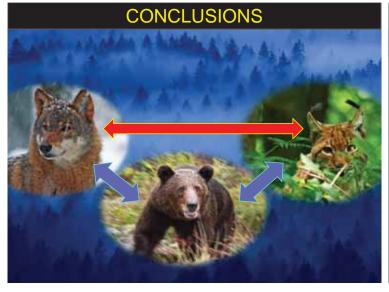




### EFFECTS OF SUPPLEMENAL FEEDING ON **BEAR DENNING BEHAVIOUR ITALY SLOVENIA** Δ Р no feeding suppl. feeding Total days 94 days 75 days 20 % 0.06 denning potential for ↑ kleptoparasitic interactions (bear-lynx & bear-wolf)







## moderate wolf-lynx food niche overlap, low with bears no evidence of spatial or temporal wolf-lynx avoidance no evidence of interspecific interference interactions high kleptoparasitism rate (especially bear-lynx) potentially important influence of human activities (intensifying or mitigating effects)

**CONCLUSIONS** 

