







North Africa: probably extinct

West Africa: one tiny population

Central Africa: status uncertain

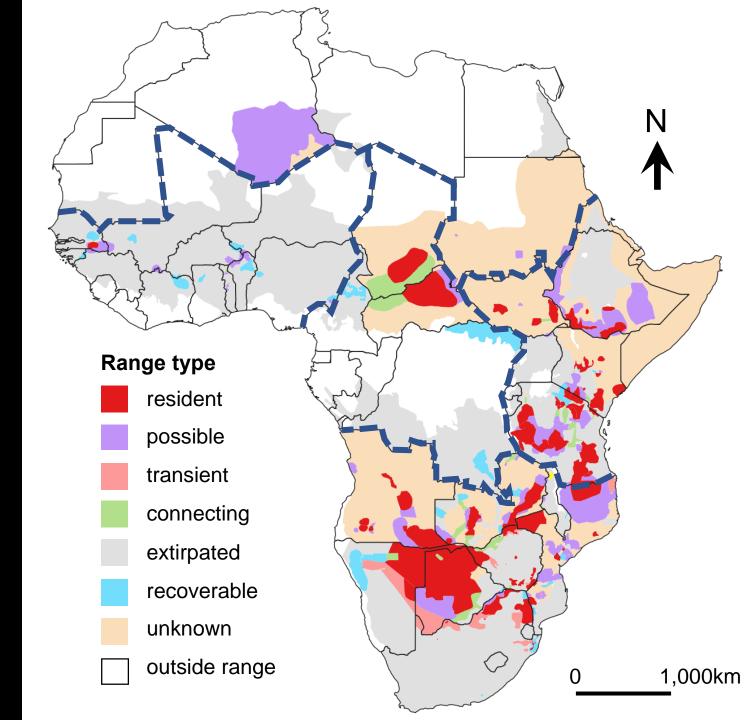
Eastern Africa: declining Southern Africa: declining

Global population 708 packs N<sub>e</sub>=1,646

Of 32 populations 20 are ≤10 packs

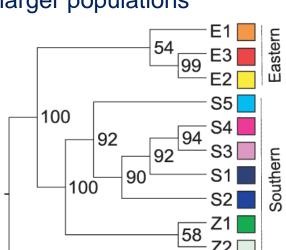
No populations with N<sub>e</sub>=500

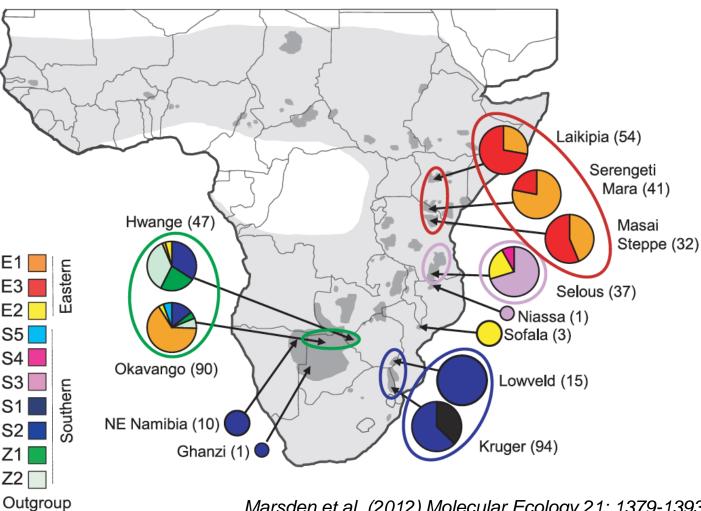
i.e. no population maintains evolutionary potential



## Genetic studies show

- differences between regions
- declining genetic variability even in larger populations







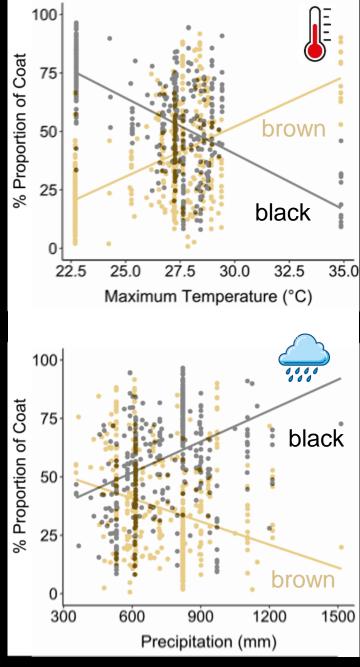




Genetic differences between regions may indicate local adaptation

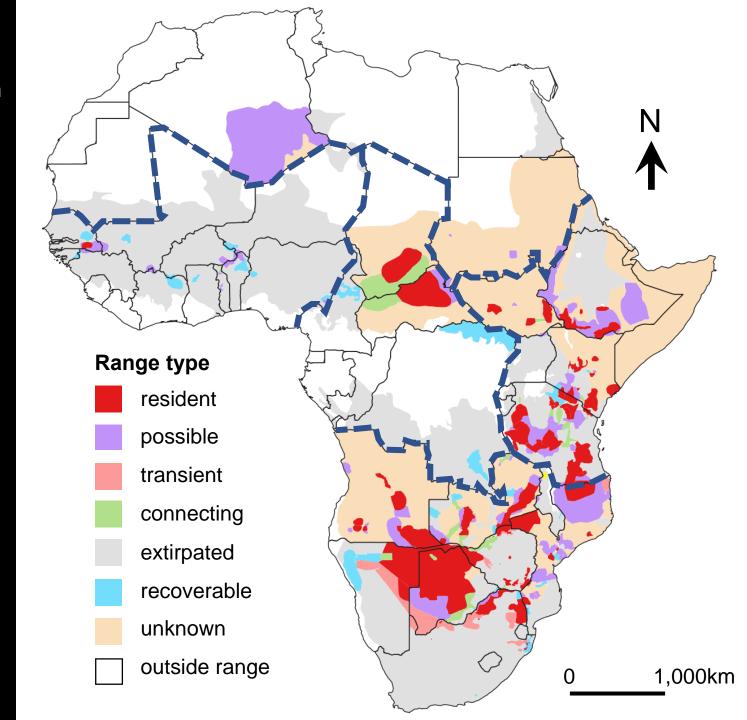
For example, the amount of black, brown, and white fur varies...

... wild dogs are less black, and more brown & white, in climates which are hotter and drier



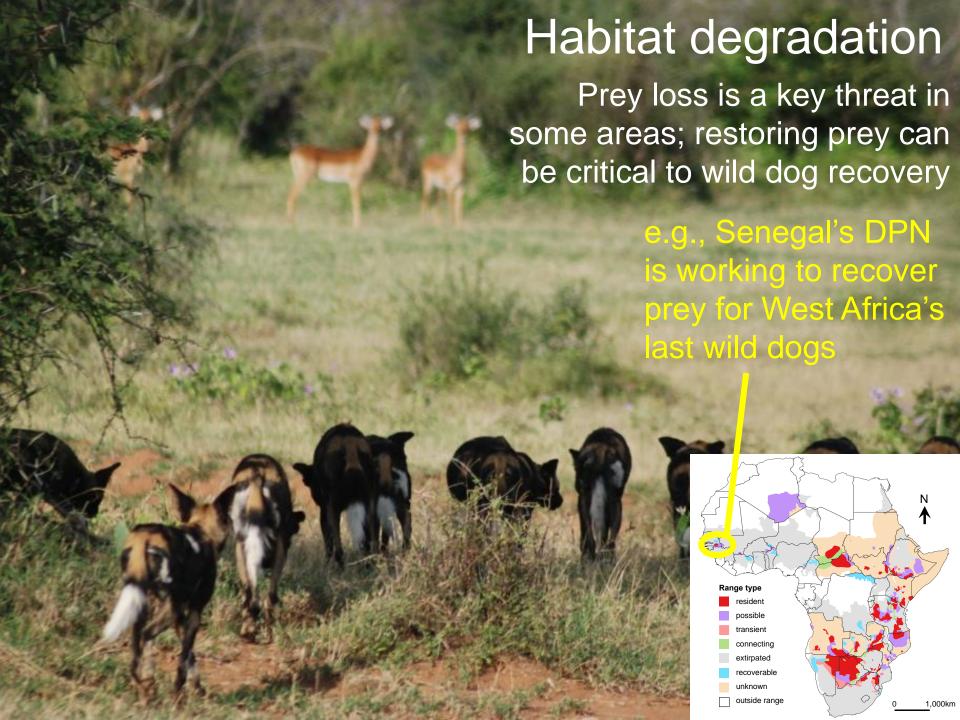
If there is local adaptation, wild dogs remaining in regions with few remaining populations (e.g. West & Central Africa) may be irreplaceable

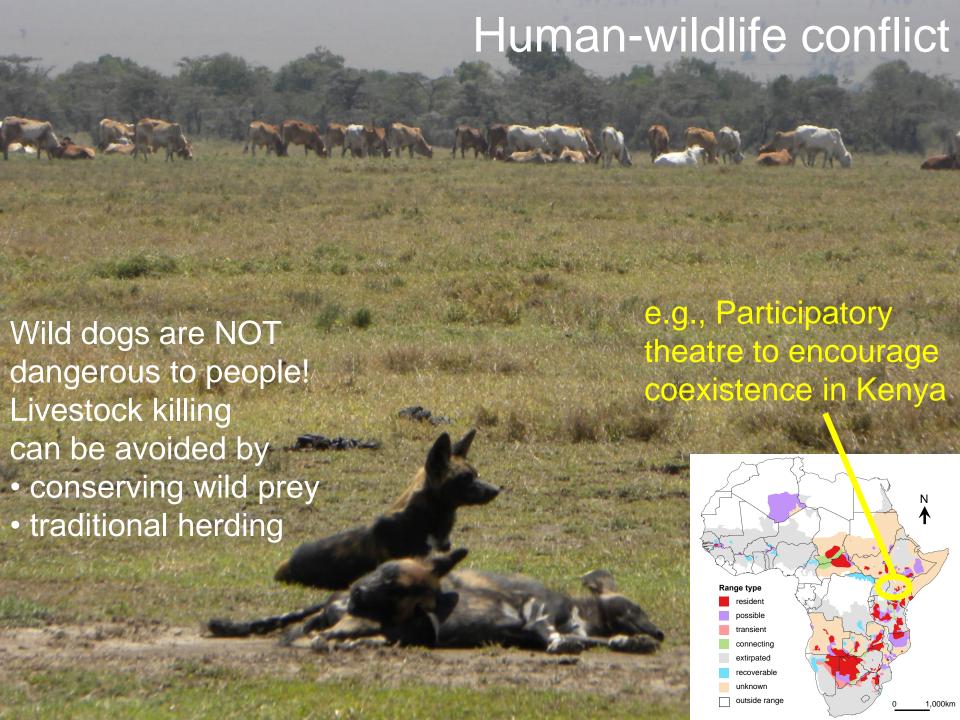
Where reintroductions are planned, these should ideally use animals with local genotypes

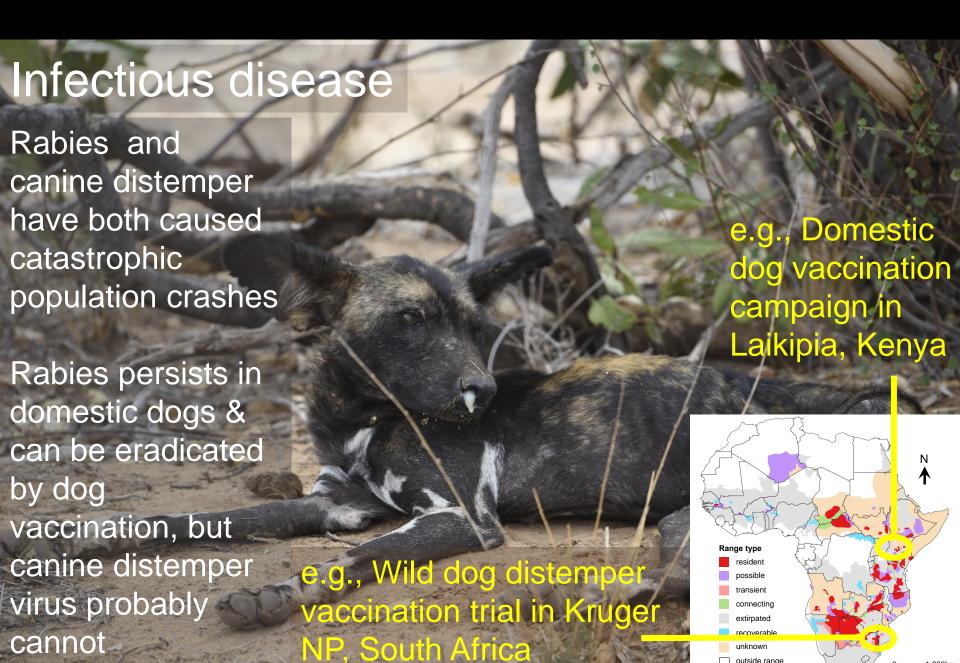




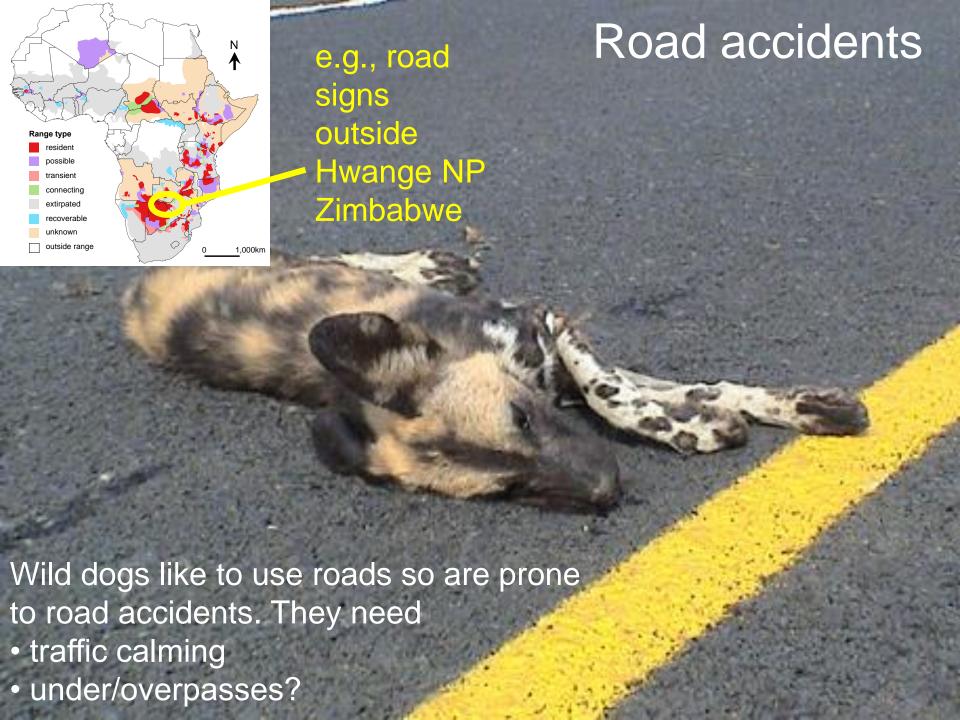
## Habitat loss Wild dogs require very large areas of wildlifefriendly habitat, so they need very large protected areas to be maintained PAs to be connected (eg through TFCAs) wildlife fencing avoided where possible supportive communities & landowners Kavango-Zambezi TFCA

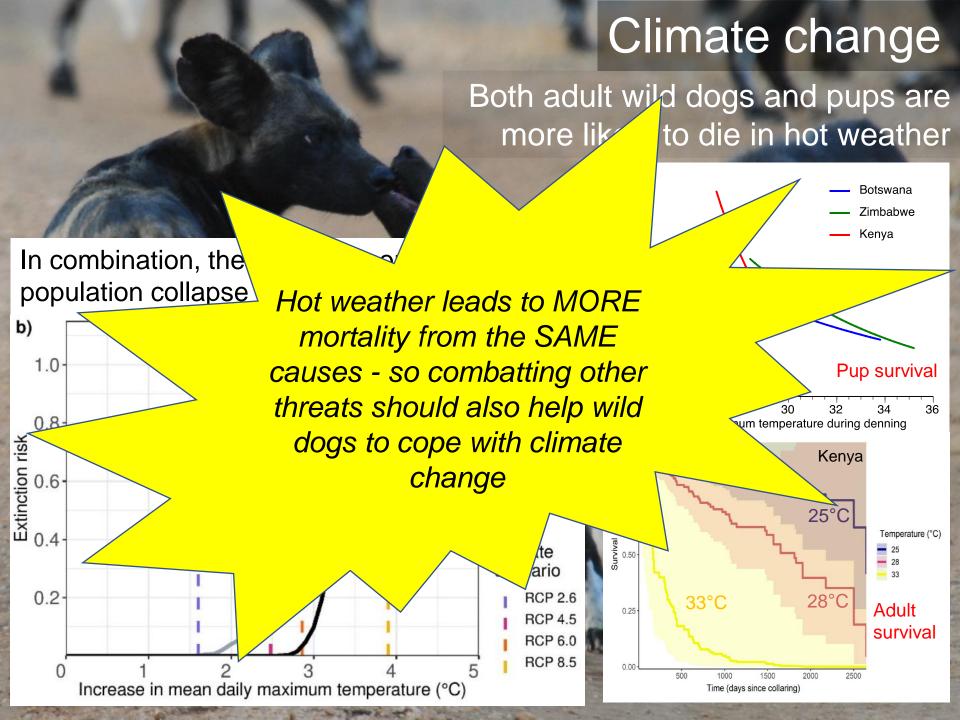














## Reintroductions

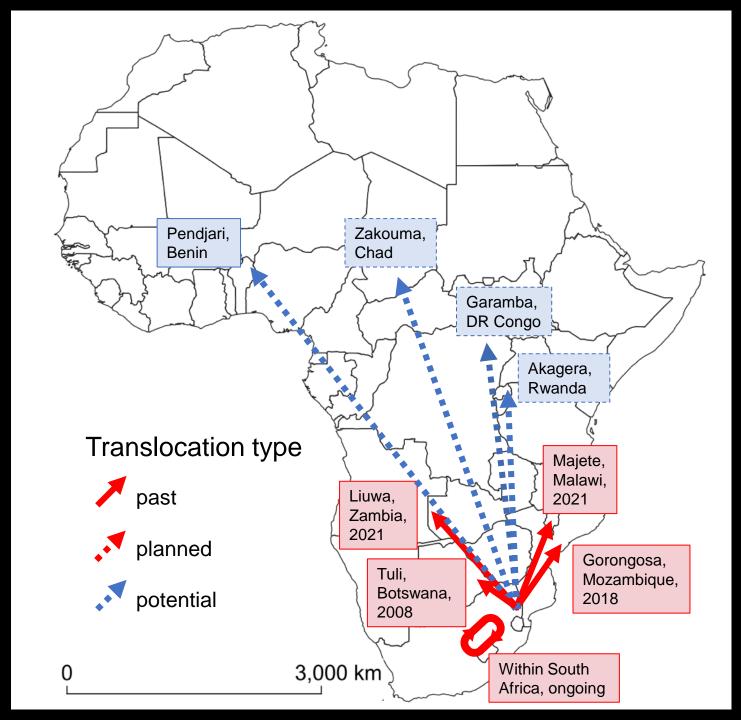
There have been several successful wild dog reintroductions... BUT

Reintroduction to new areas should not eclipse conservation of existing populations

Wild dog reintroductions should use animals with appropriate local genotypes wherever possible



Animals from South Africa have been used in several successful recent reintroductions but it is important to avoid losing regional genotypes which may provide local adaptation e.g. to climate





## Monitoring Wild dog monitoring is essential to detect problems in time to respond identify new threats extirpated e.g., camera recoverable measure success trapping in outside range Chinko, CAR e.g., GPScollaring in Selous GR, **Tanzania** photo: Panthera/DPN

