



Oral Rabies Vaccination of Wildlife - Concept and Basic Principles





Thomas Müller Conrad Freuling

Terrestrial Rabies

Large Variety of Reservoir Species





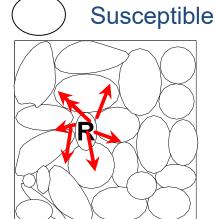


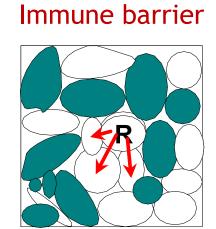
Oral Rabies Vaccination of Wildlife Only Solution

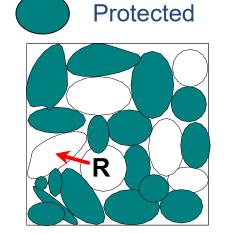






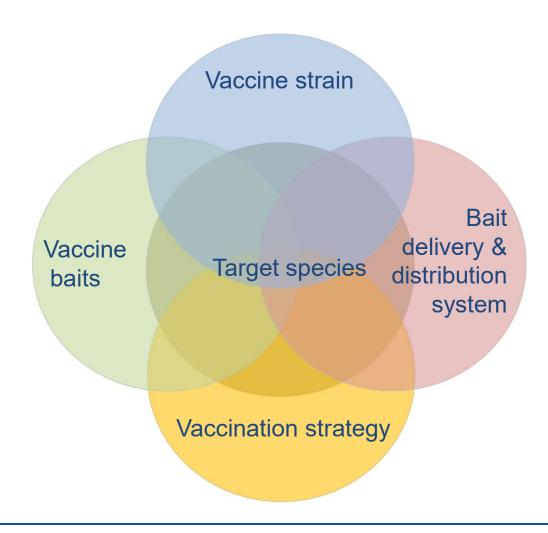








Pillars & Challenges





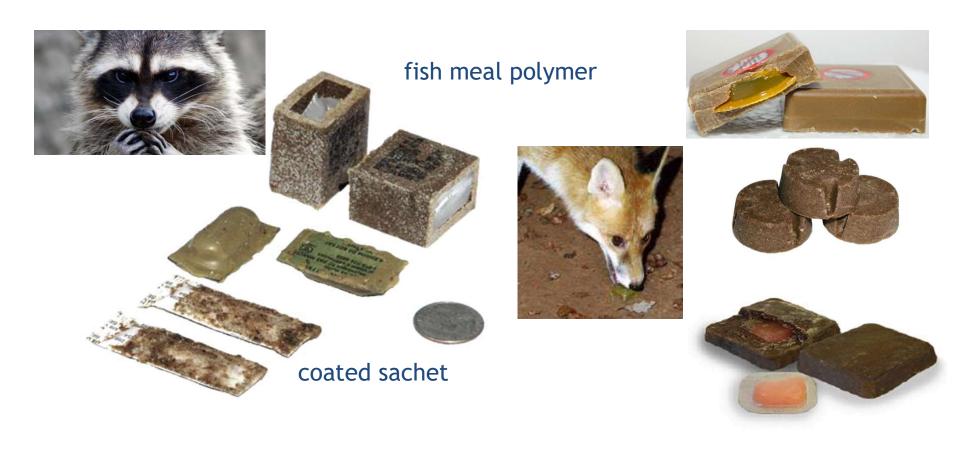
Basic principles

- Biology of target species
 - Distribution, density, home range,
 Mating season, interaction with other reservoir species
- Suitable bait attractant
- Bait density to be applied
- Mode of bait distribution
- Timing of vaccination campaigns
- Bait competitors
- Size of vaccinated area





No Bait fits all Species

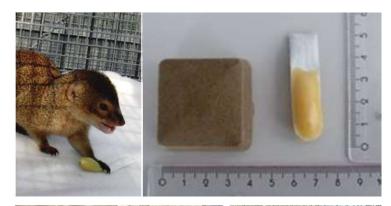






Bait Development - Requirements

- attractive to target species
- adapted to mode of distribution
- be safe for target & non-target species
- no interference with vaccine activity
- easy ingestion by target species
- optimise release of vaccine into oral cavity & to target tissues
- allow incorporation of a biomarker
- be economic to produce in standard form



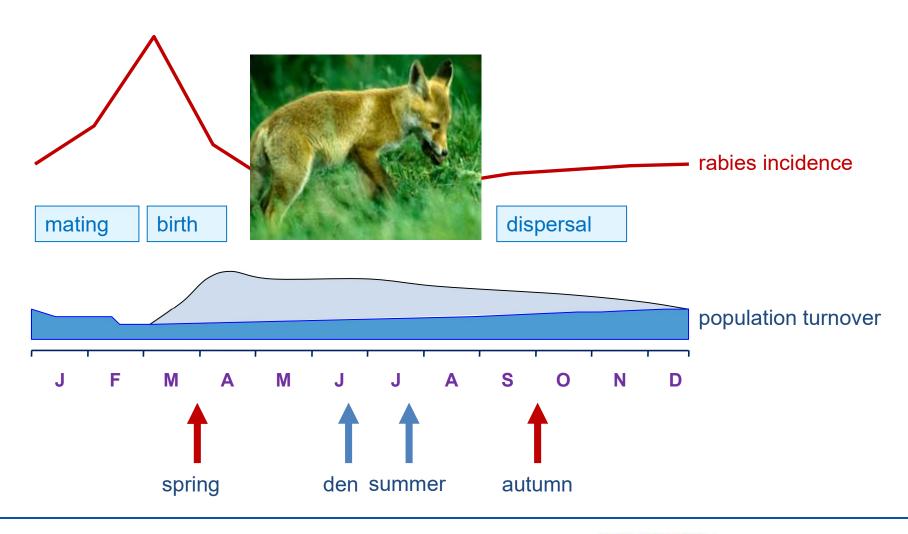




Courtesy Ad Vos

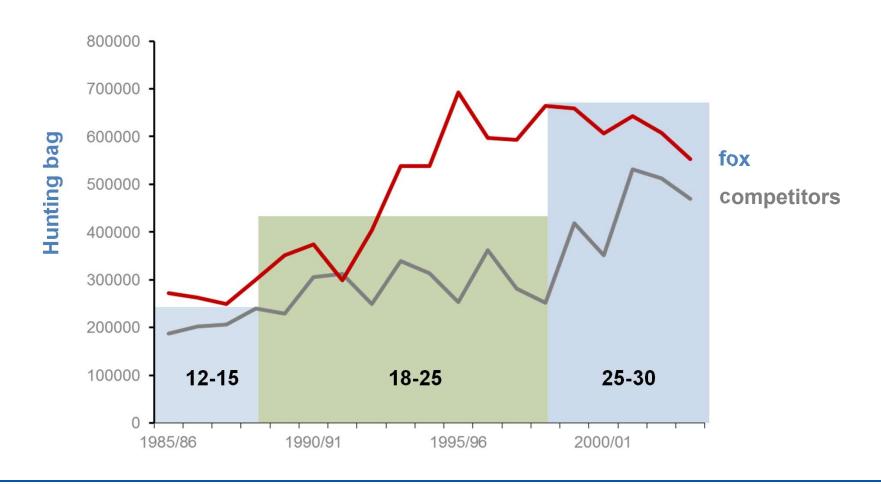


Timing of campaigns





Bait density/sqkm





Mode of bait distribution

	hand	b	aerial	
organizational expense	+	TAN a.b.	-	
man power	+		-	
large-scale vaccination	-		+	Poster.
accessibility to areas	-		+	
cost-effectiveness	-		+	
control	-		+	

hand and aerial distribution complement each other (urban / suburban settings)

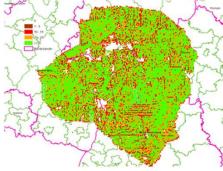


Aerial bait distribution







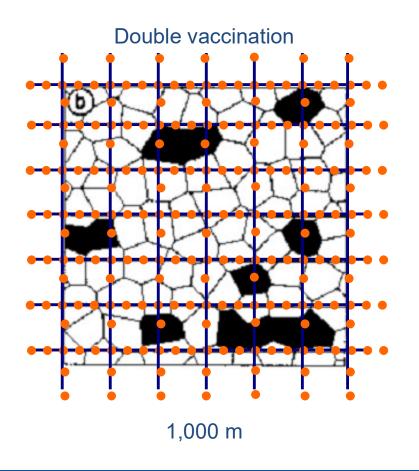




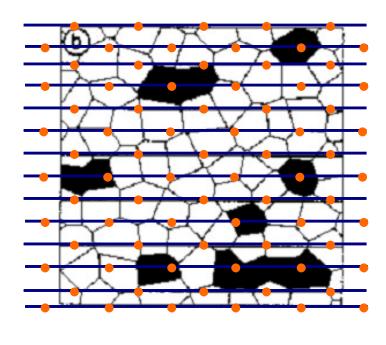




Areal bait distribution - flight line spacing



Reduction of flight lines



500 m



Bait density -effect of

