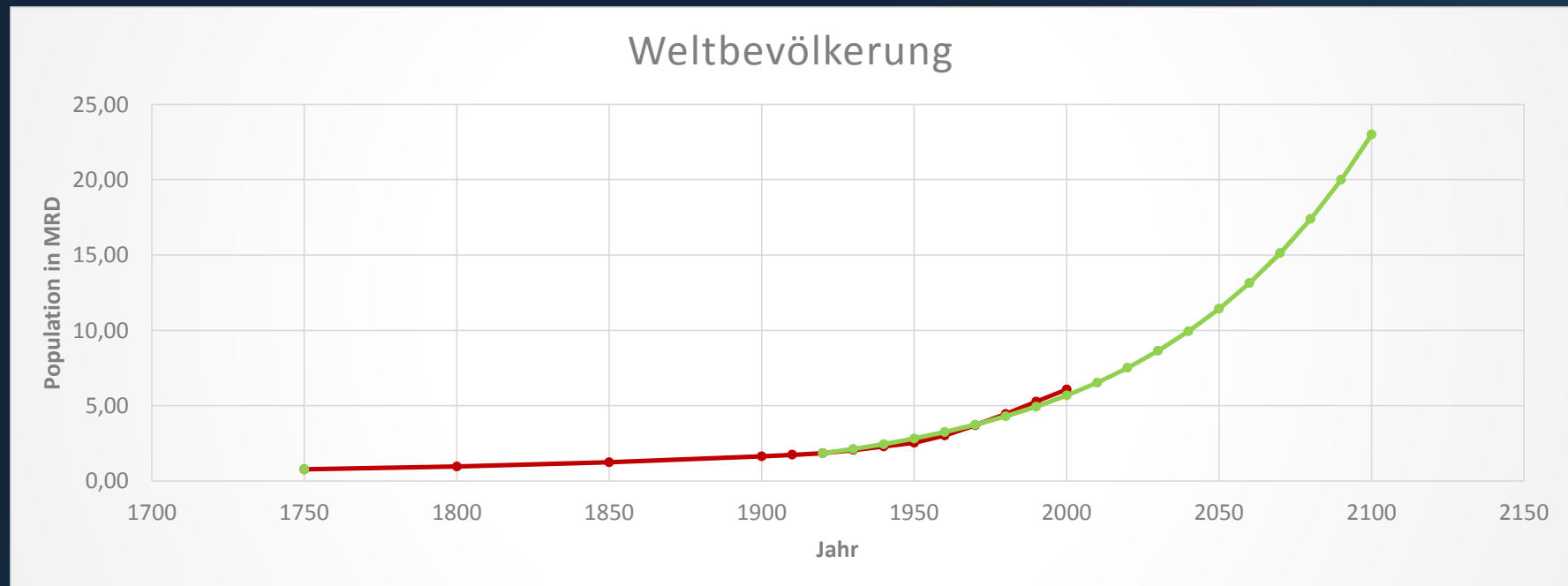


Populationsdynamik

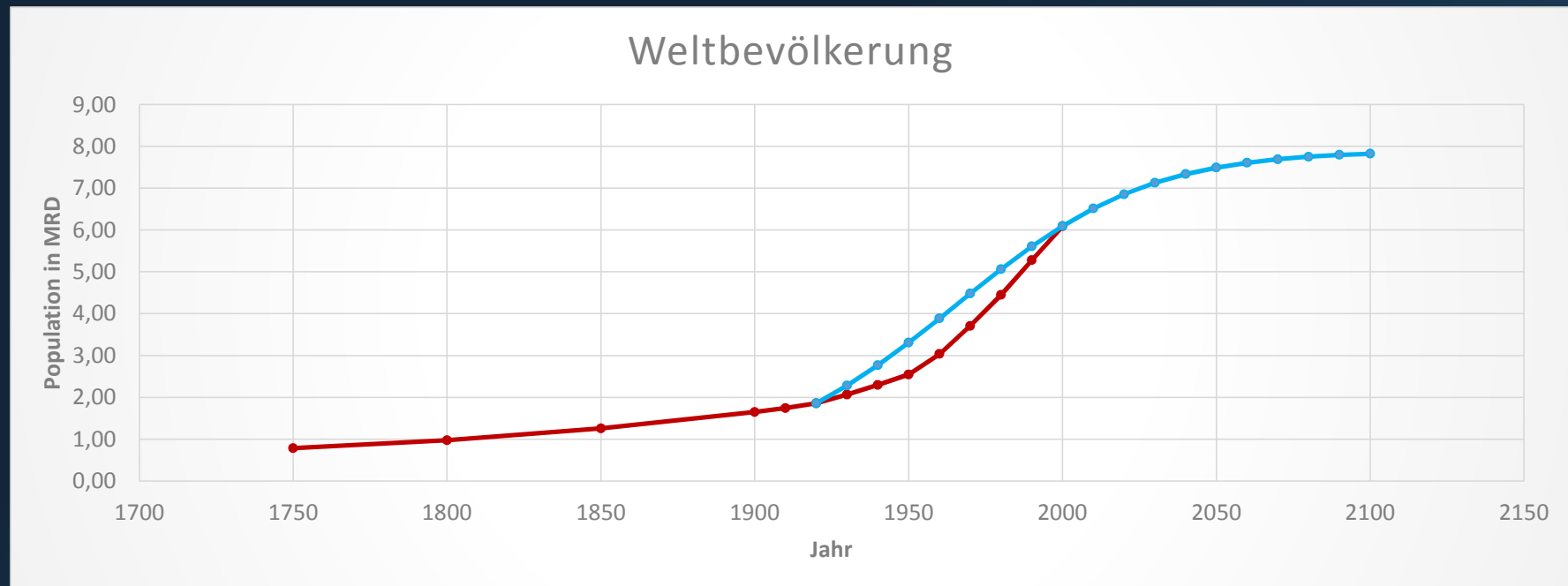
Exponentielles Modell

$$P(t+1) = \lambda * P_t$$



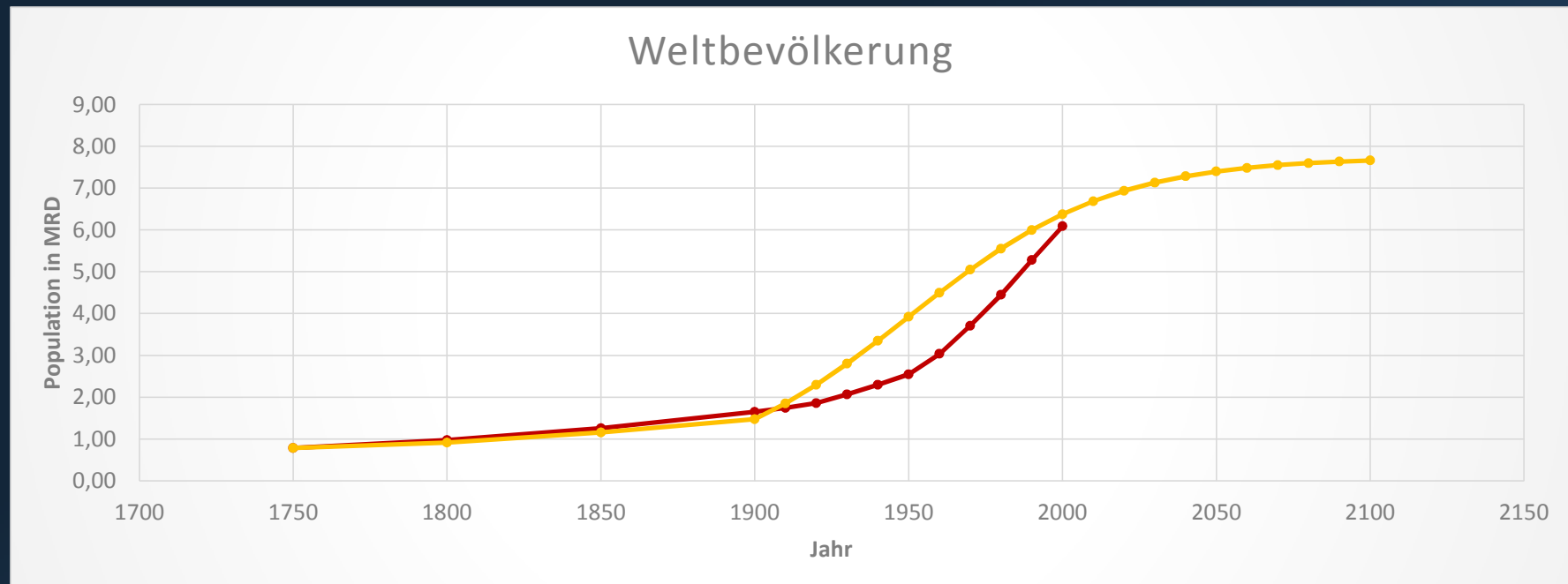
Logistisches Modell

$$P(t+1) = P_t * (1 + r * (1 - \frac{P_t}{k}))$$

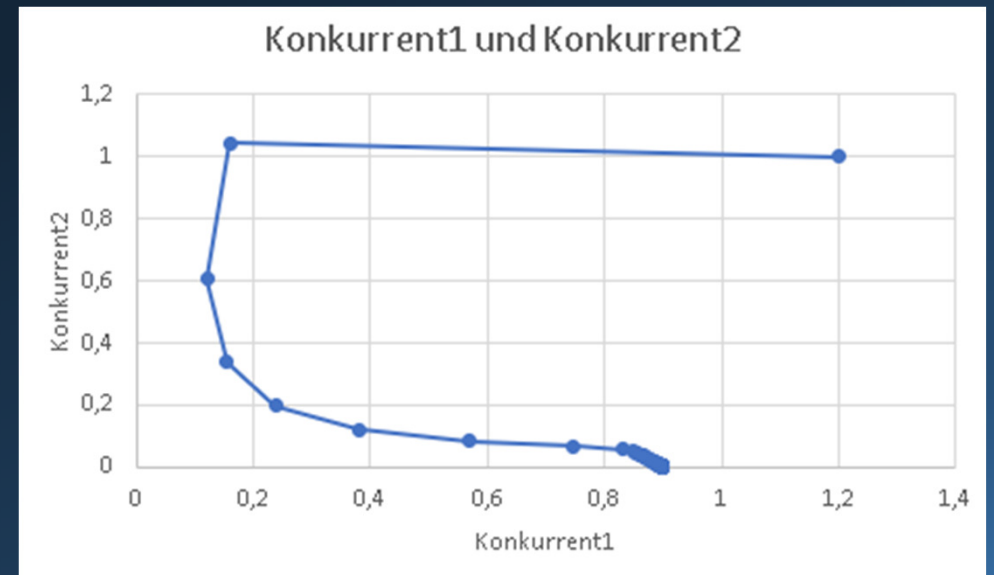
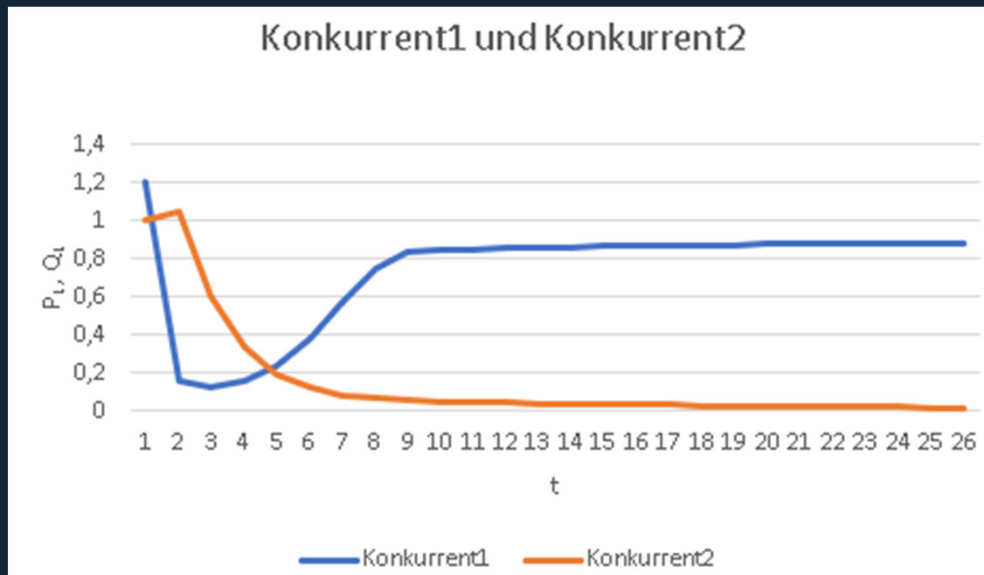


Ricka Modell

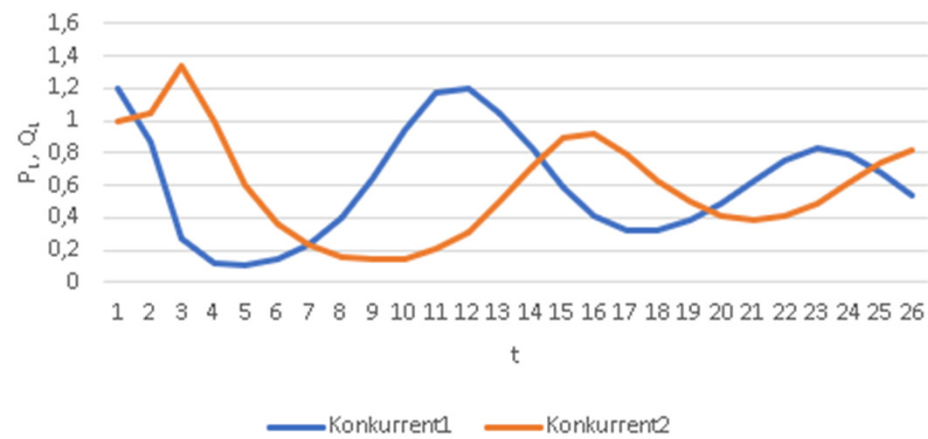
$$P(t+1) = P_t * \Lambda / (1 + a * P_t)^\beta$$



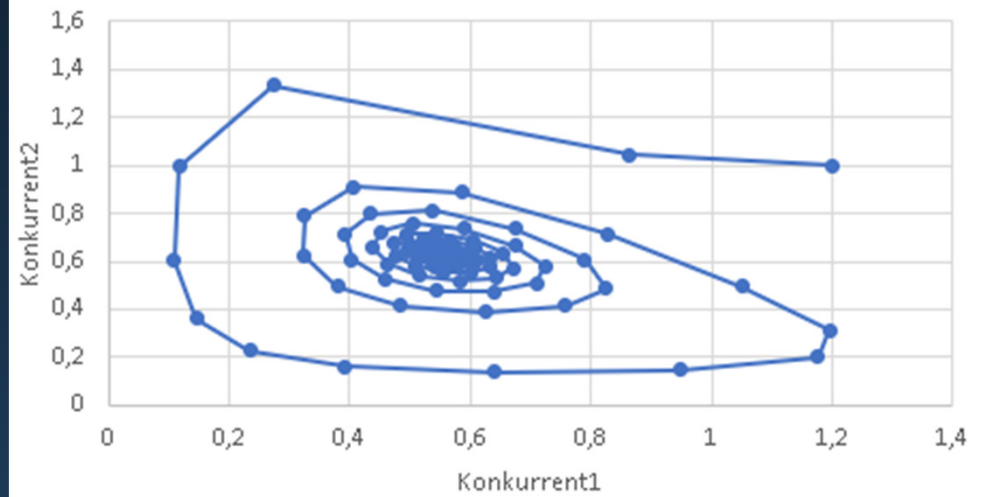
Konkurrenz zwischen 2 Tierarten

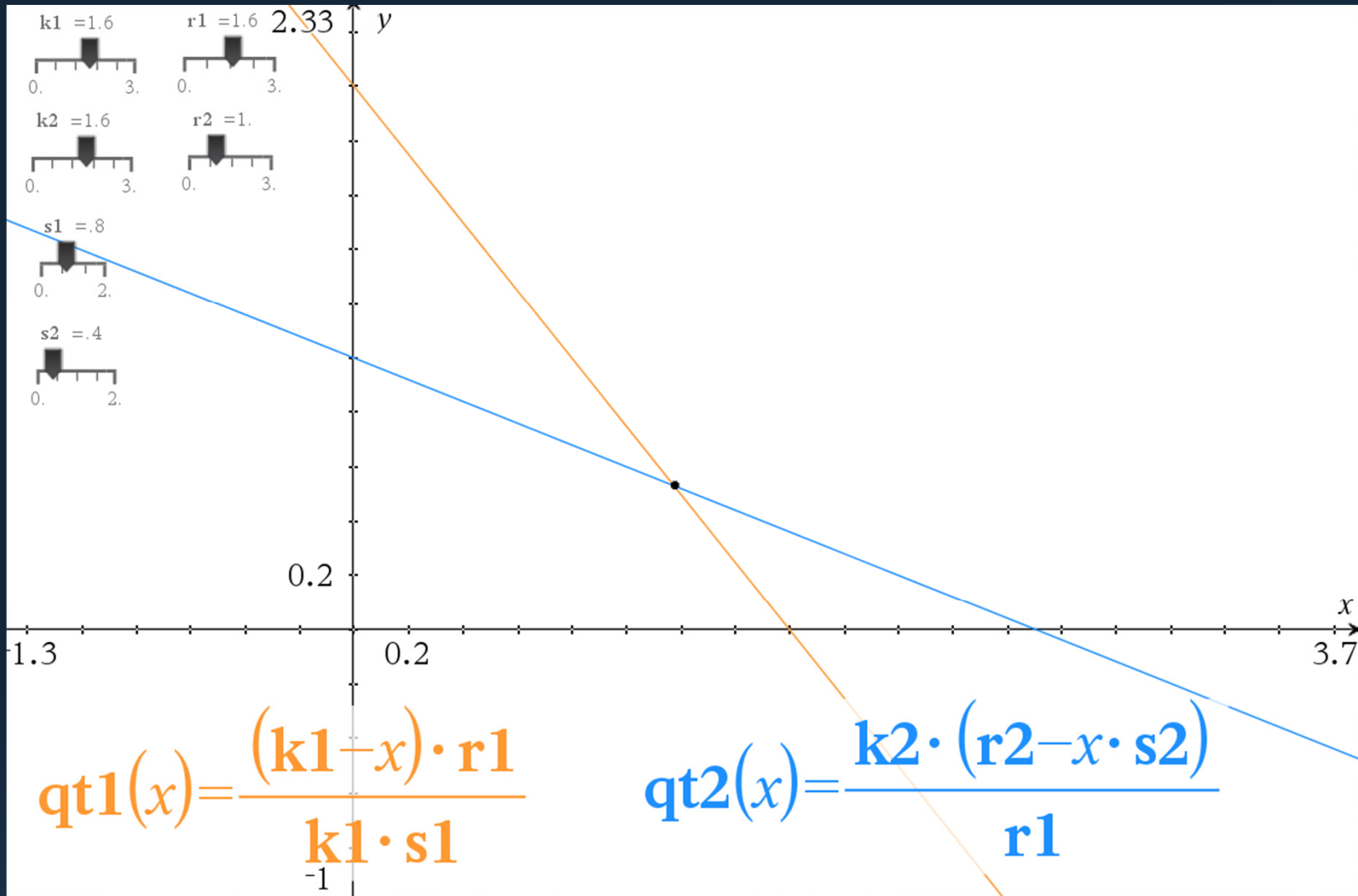


Konkurrent1 und Konkurrent2



Konkurrent1 und Konkurrent2





Symbiose

$$P(t + 1) = P(t) \left(1 + r \left(1 - \frac{P(t)}{K} \right) \right) + \left(\frac{Q(t) * P(t)}{\alpha} \right)$$

$$Q(t + 1) = Q(t) \left(1 + u \left(1 - \frac{Q(t)}{S} \right) \right) + \left(\frac{Q(t) * P(t)}{\beta} \right)$$



Symbiose

