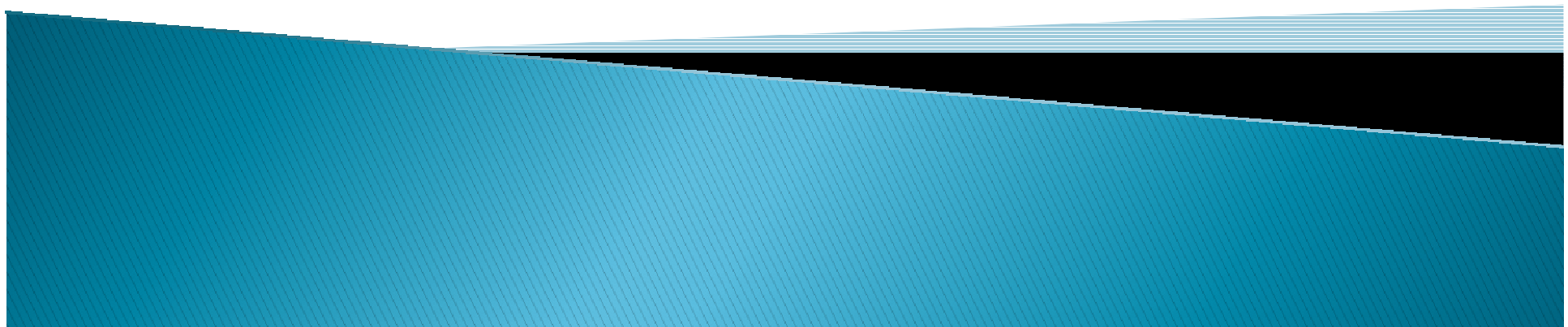


Framework for and status of AnGR *ex situ* conservation in Germany

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National Action Plan for conservation and sustainable use of AnGR in Germany



History:

Rio Convention / Agenda 21 (1992)

⇒ Biodiversity Act Germany

⇒ National Report to FAO for „State of the World Report“

⇒ DGfZ project group „Conservation of biodiversity in Farm Animals“ (Speaker: E. Groeneveld)

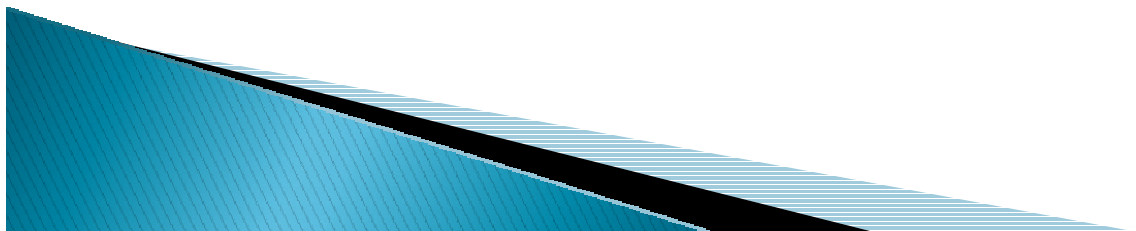
⇒ representatives from federal and state institutions, breeding associations, science, NGOs (Speaker: P. Glodek)

⇒ approval by the conference of state Ministers of Agriculture (March 2003)

Summary of the of endangered breeds

(3 categories: $Ne \leq 50$, $Ne \leq 200$, $200 < Ne < 1000$)

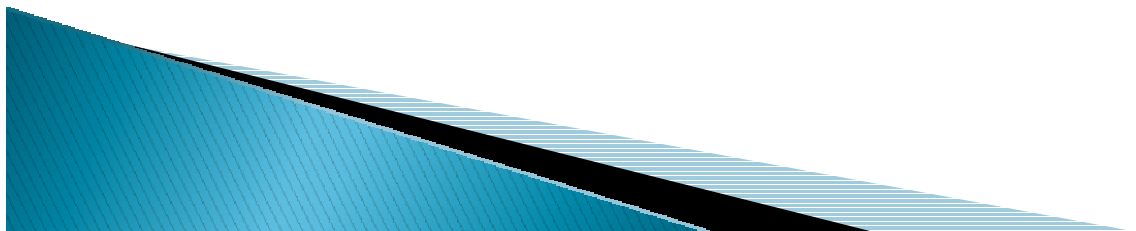
- ▶ Horses 12 (6 – 3 – 3)
- ▶ Cattle 14 (3 – 11)
- ▶ Sheep 21 (2 – 7 – 13)
- ▶ Pigs 3 (1 – 2)

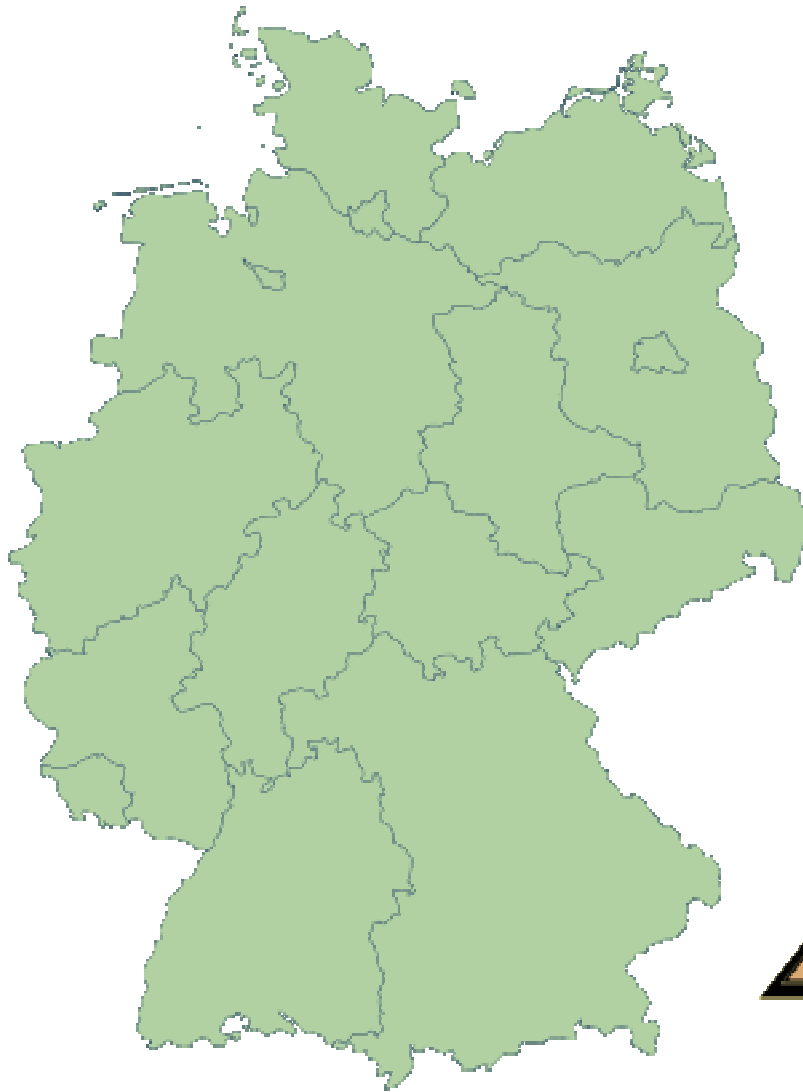


Estimated costs for semen collection (no or little infrastructure

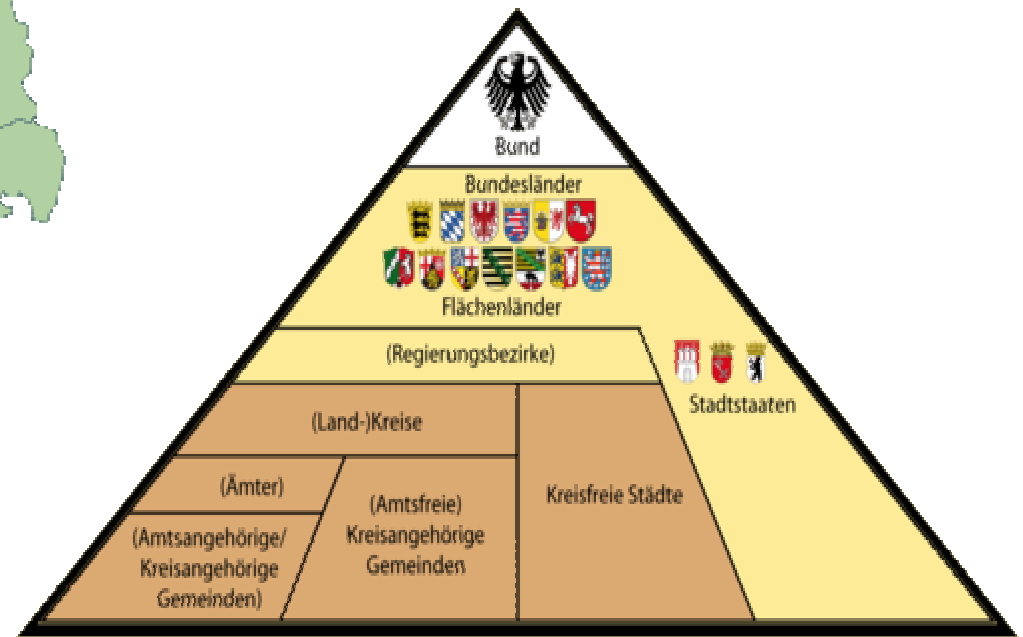
- ▶ 1000.- € per stallion 25000.- x 12 = 300000.-
- ▶ 1000.- € per bull 25000.- x 14 = 350000.-
- ▶ 500.- € per boar 12500.- x 3 = 37500.-
- ▶ 750.- € per ram 18750.- x 20 = 375000.-

Σ 1.062.500.- €

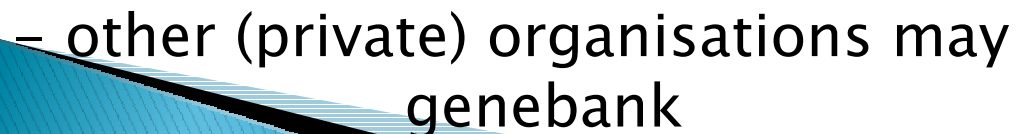




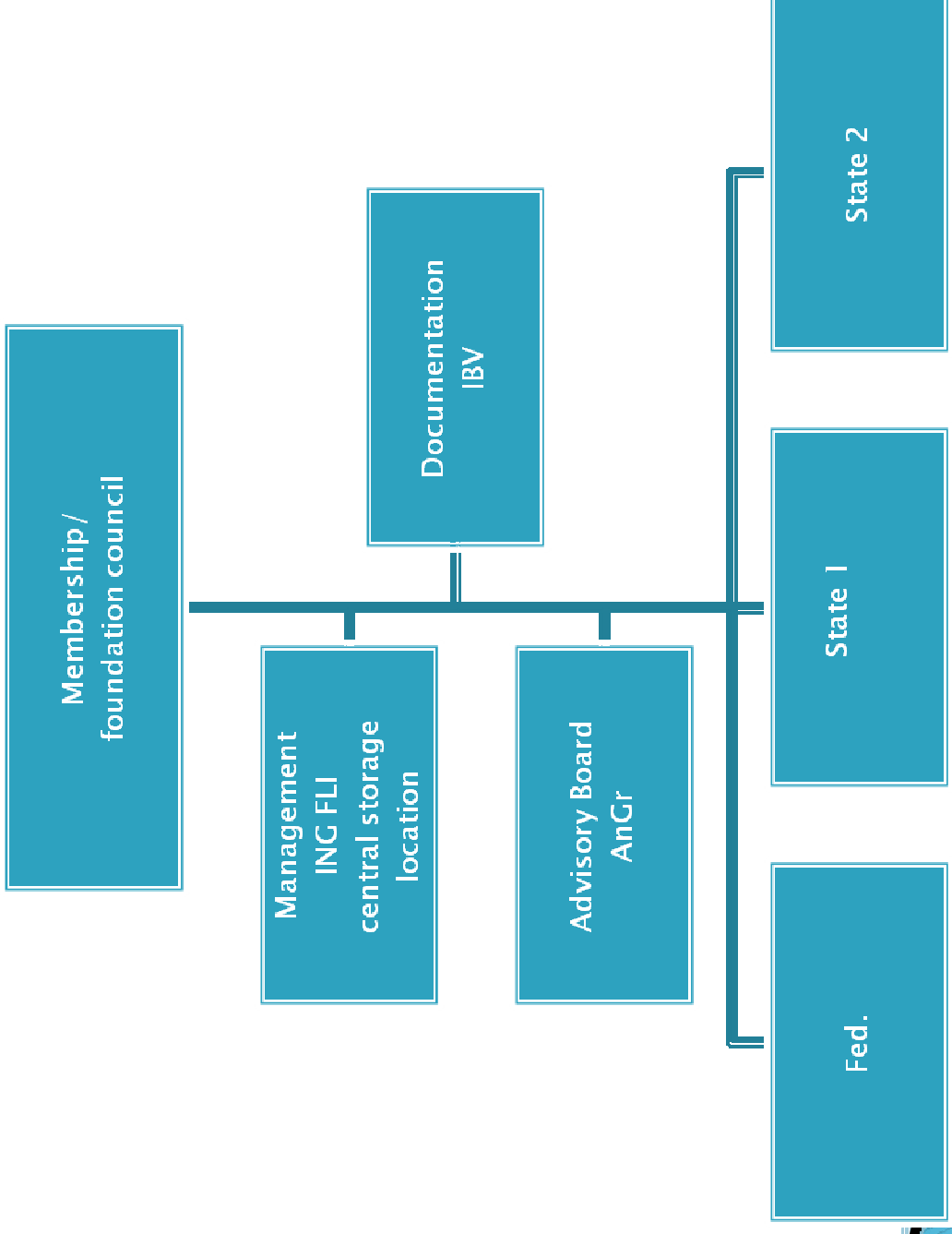
Structure (states) of the Fed. Rep. of Germany



Policies to be considered in the organisation of a German genebank

1. Federal government and states as interested parties
 2. Both parties appoint bodies to take over duties
 3. Management, coordination and scientific assistance of the genebank is adopted by a federal institution (research centre).
 4. Documentation is administered by IBV
 5. Sharing of tasks
 - states are generally responsible for sampling and storage of the core set
 - other (private) organisations may also contribute the genebank
- 

Membership of the German Genebank



Location of a central storage facility



Research institute in Mariensee

Cryotanks in Mariensee



Old breeds with small
populations -
regional AI stations
store semen



Angler

Gew.: 500 kg; Milch/Jahr: 4500 kg



Murnau-Werdenfelser

Gew.: 550 kg; Milch/Jahr: 4000 kg



Hinterwälder

Gew.: 400 kg; Milch/Jahr: 3500 kg



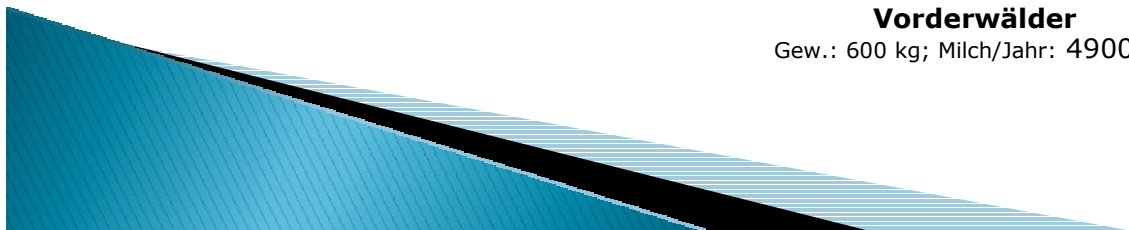
Vorderwälder

Gew.: 600 kg; Milch/Jahr: 4900 kg



Gelbvieh

Gew.: 650 kg; Milch/Jahr: 5000 kg



DSN – Old Black and White



Storage in Mariensee

88 bulls

1126 samples

243994 units



Saddle back pig (Schwäbisch Hällisch)

Actions to be taken: approval of the structure of the German Genebank by the members (esp. State ministeries)

survey of present cryomaterial stored

What is missing acc. to the National Action Plan ?