



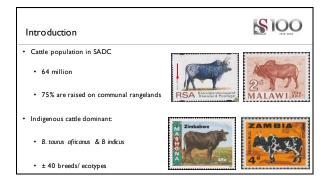
Introduction

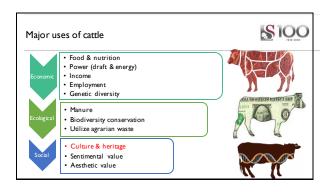
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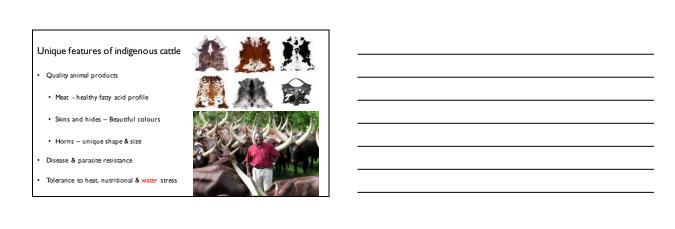
- + 70% of the region's population depends on agriculture for food, income & employment
 - · Livestock plays an important role in the livelihoods of the farmers of the region

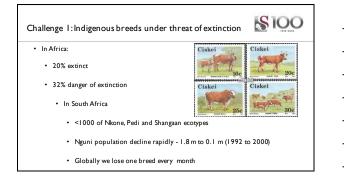
as it contributes to more than 30% of the agricultural GDP

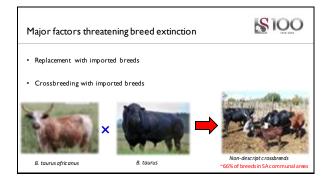
- Of all the livestock species, beef contributes the largest $\ensuremath{\mathsf{GDP}}$
- Smallholder farmers obtain more income from cattle than other species
- Has unique uses than other species













Challenge 2: Indigenous breed underutilization & neglected

- Underutilised -
- Strong focus on:
 - High-yielding breeds
 - · Breeds that mainly offer provisioning ecosystem services
- Neglected -
 - · Cultural benefits and genetic diversity

Way forward

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- Owners have not been deriving optimum benefits & livelihoods from the

indigenous cattle genetic resources

- Genetic erosion and underutilization can be minimised :
- Through their sustainable use
 - Allows the genetic resources to continuously evolve & produce while
 - adapting to the changing environments

 Strategies for sustainable use of cattle genetic resources
 Strategies for sustainable use of cattle genetic resources

 • The unique features of indigenous cattle should be considered to:

 • Ensure equitable & sustainable sharing of benefits deriving from them

 • Develop climate change response strategies

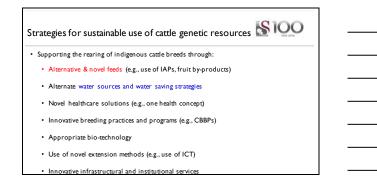
 • Formulate future policy and regulatory measures

Strategies for sustainable use of cattle genetic resources 📓 1000

- · Commercialization of indigenous breeds
- Promoting novel uses of indigenous cattle
 - e.g, Eco-tourism
- · Production of high quality products (meat & hides)
- · Improving product valuation systems
 - · e.g., carcass classification system

Strategies for sustainable use of cattle genetic resources 🔊 1000

- Product processing
 - e.g biltong, sausage, burger
- Developing markets and improving access (eg. Nguni & NAMC custom feeding projects)
- · Establishment of niche markets (skins & hides upholstery)
- Increasing the profitability by enhancing market & nonmarket values



Strategies for sustainable use of cattle genetic resources 🔊 1000

• Women face cultural & institutional barriers to control AnGR & access benefits from them

• They are, however, likely spend their income to improve family welfare than men

Youths generally lack interest in cattle farming

Indicates absence of dedicated & motivated heirs to advance sustainable use of AnGR in

the future

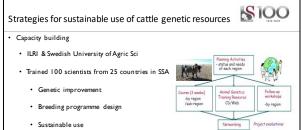
• NB: engage & empower women & youth on the sustainable use of AnGR

Strategies for sustainable use of cattle genetic resources 📓 1000

- Raising awareness among farmers & policymakers about:
 - The uniqueness of the breeds
 - · Importance of maintaining purity of the breeds
 - · Potential roles of the breeds in climate change adaptation
 - Tap farmers ITK using appropriate methods

Strategies for sustainable use of cattle genetic resources Policy and legislation to address complex issues: Meat quality and safety standards Response to diseases Animal welfare

- Biotechnology
- Exchange of animal genetic resources



• Research & science communication

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Course (3 weeks) -by region /sub-region	Animal Genetics Training Resource CD/Web	Fallow-up workshaps -by region
	Networking /	Project evaluations
	to catalyse implementation	1

