Indian Goat Sector in 'Amrit Kaal'

'Passport to Well-Being' ATM- Milk, Meat, Wool, Money Moving Refrigerator



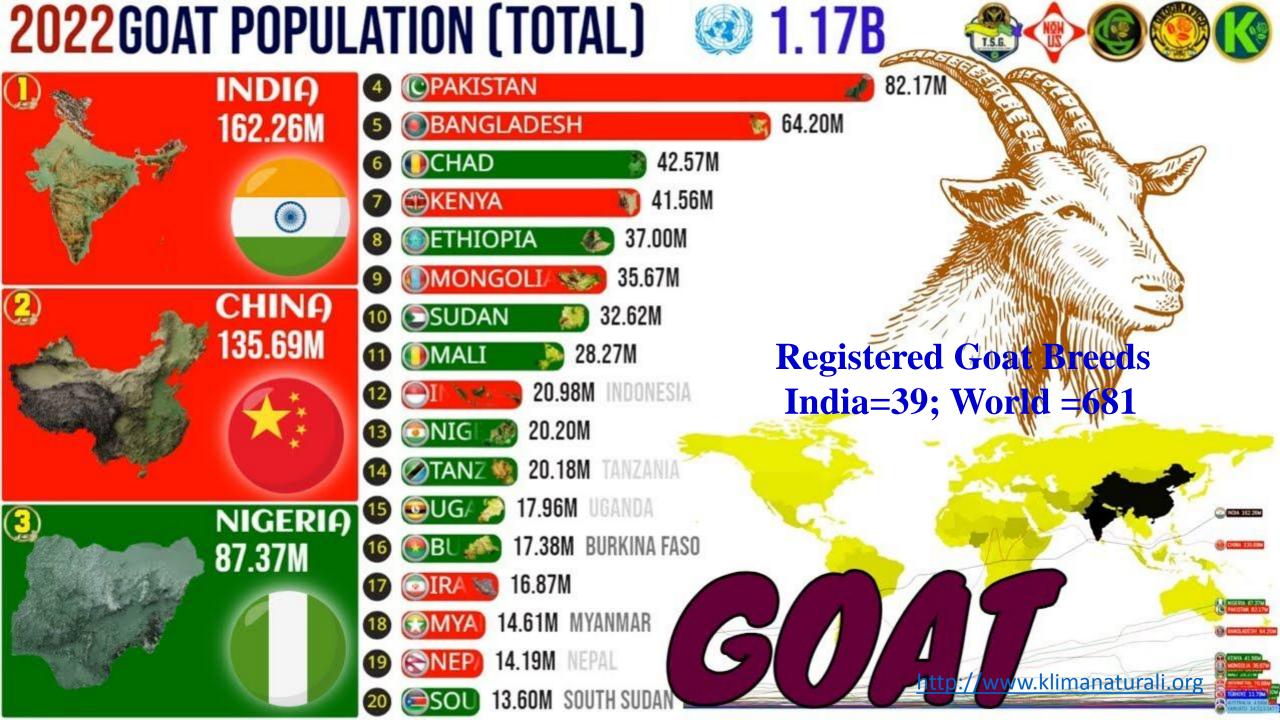




भाकृअप - केंद्रीय बकरी अनुसंधान संस्थान ICAR - Central Institute for Research on Goats

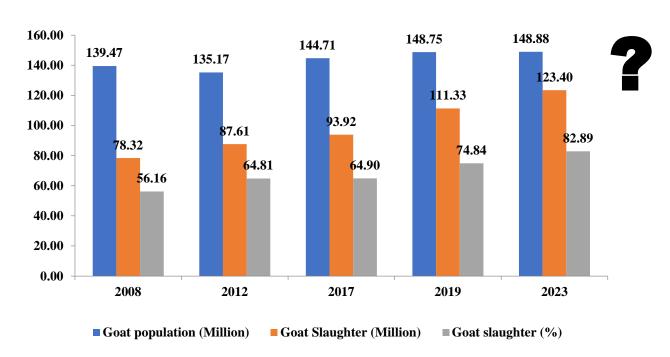






Production Dynamics of Goat meat in India

Goat population since 1951- 215.4%

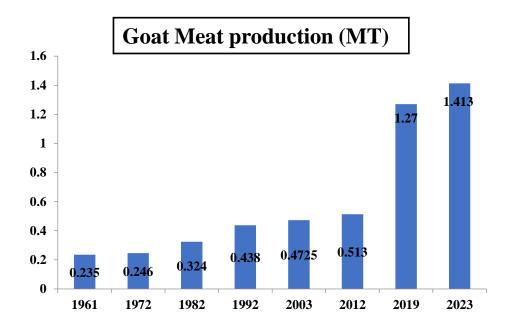


NUMBER DRIVEN????

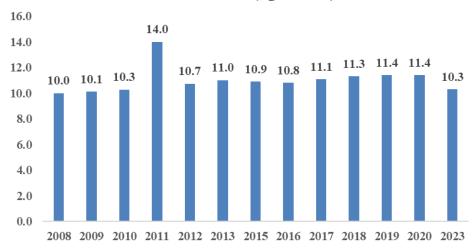
World Av Carcass weight: 15.4 kg/animal Oceania -16.5kg/animal

Rising demand for Goat Meat

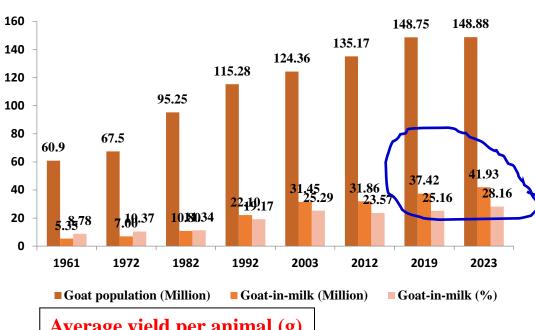
Domestic Price in Metro Cities= Rs 1000/Export of Goat Meat= 583.9 cr in 2023

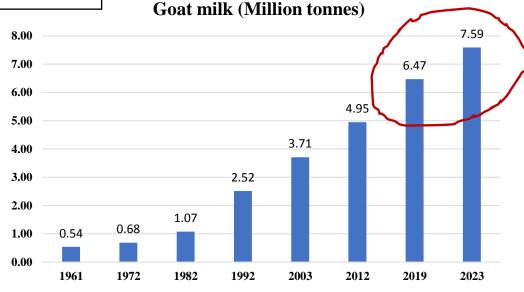


Carcass Yield (kg/animal)

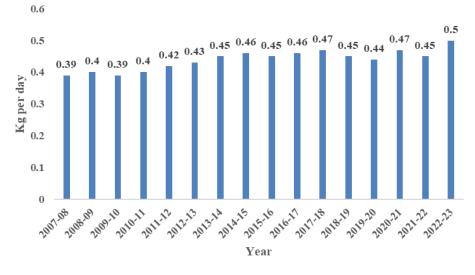


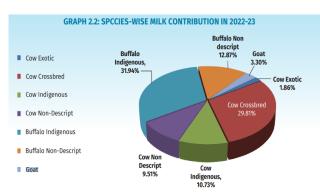
Production Dynamics of Goat milk in India

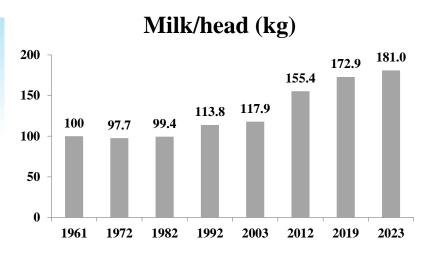




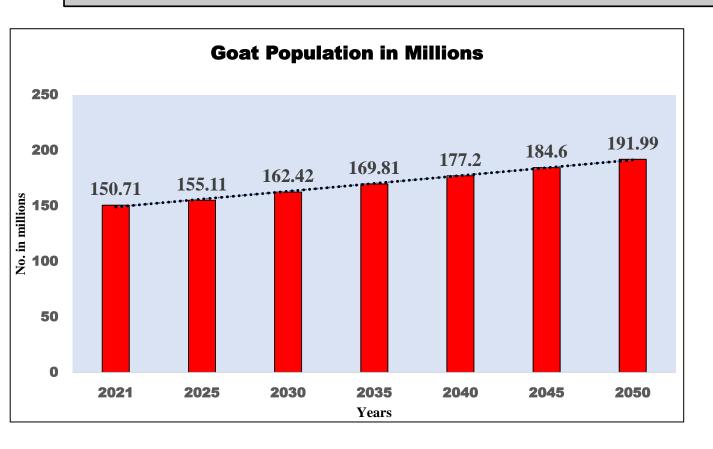
Average yield per animal (g)







Estimated Goat Dynamics



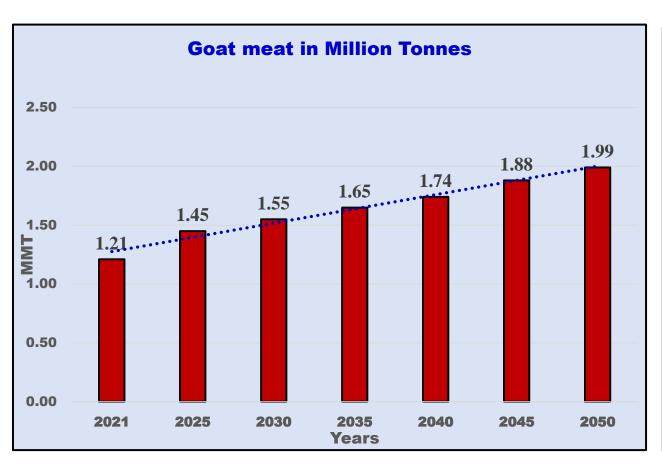
Autoregressive Integrated Moving Average Models (ARIMA)- forecasting based on a historical time data (FAOSTAT& BAHS).

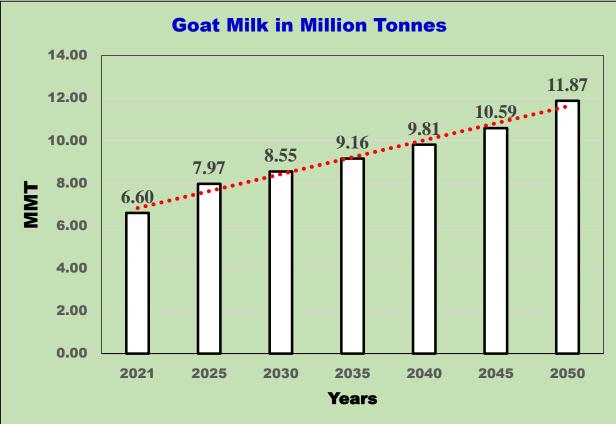
Statistical concept of serial correlation, where past data points influence future data points.

Goat population increased from 61 million to 149 million between 1961 and 2019.

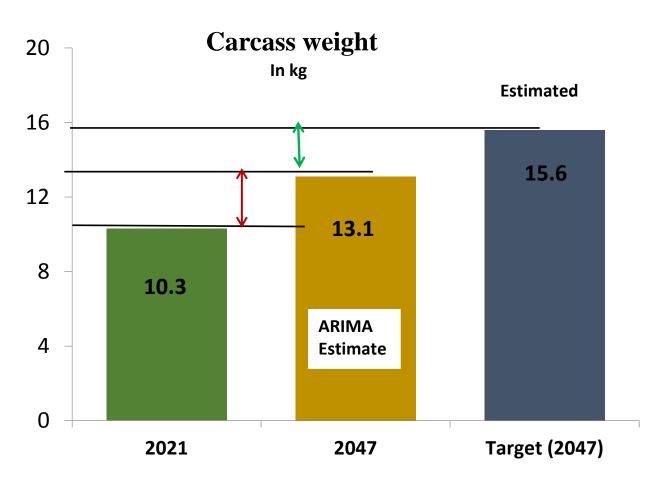
Goat sector will be more organized and shift to semi-intensive or intensive rearing systems

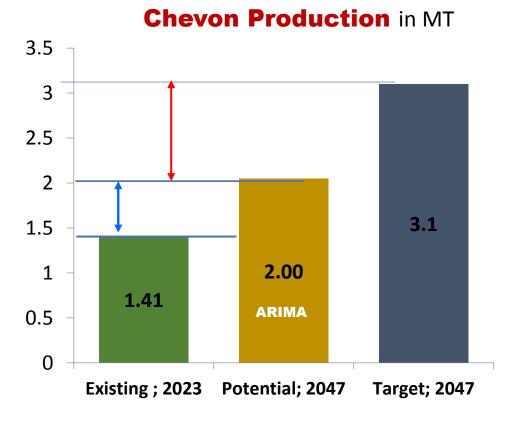
Estimated Goat Meat Dynamics





Goals, Targets and Approaches





GOAT MISSION

GOAT MISSION: Goals, Targets and Approaches

Research Priorities

- Focus on the higher meat yielding breeds; Beetle, Sojat, Sirohi, Osmanabadi etc. & Upgradation of germ plasm;
- Development of Broiler Goat Breed/climate resilient meat breeds
- Genomic tools for early selection
- Nutrigenomics: Low-cost complete feed: Improve FCR, Beta agonists, synbiotics, age/breed/area specific feed
- Precision Goat Farming
- Gene Edited Goats; Knocking out of myostatin gene to improve carcass Yield
- Field diagnostics/Vaccines/Therapeutics
- Reproductive Efficiency/AI/IVF technologies

Growth Drivers for **Goat Meat Production**

Policy & Infrastructure Priorities

Establishment of Nuclear breeding farms to Ensures horizontal spread of quality germplasm,

Strengthening of community Breeding Programme

Pragmatic uniform slaughter Policy and its implementation

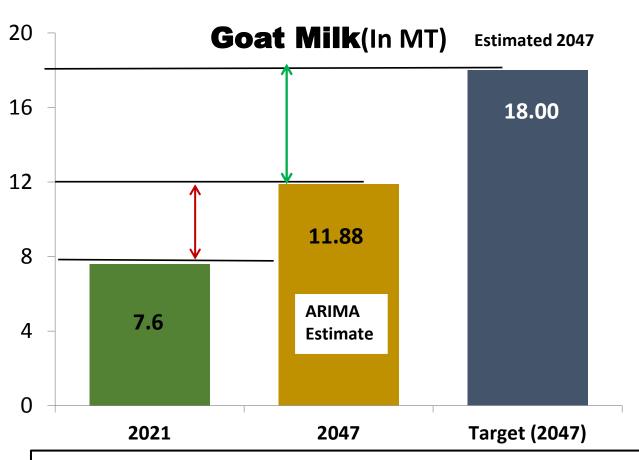
Slaughter Houses with backward linkages to ensure traceability issues; Meat Processing Inedible byproduct processing units

Marketing Infrastructure & System

Strengthening of Veterinary/AI services

Public Research Funding

Goat Mission: Goals, Targets and Approaches



Research Issues

Selection criteria & genetic markers for early selection for the development of Milk Line

Goat Lactation Physiology

Genes related with Milk production (APOB polymorphism, CSN1S2, LPIN1, GH1,CDKN1A, SEC 13 etc.)

Ration formulations & supplementations especially for milk production

Small milk processing units; Validation of therapeutic and nutraceutical potential of goat milk

Policy Issues

- Marketing & Branding
- Awareness programme
- Value addition

- Processing infrastructure
- Entrepreneurship Development
- Promotion of milch breeds (Surti, Jakhrana, Jamunapari, Beetel etc.)

Gross Value Added at Current Basic Prices (Estimates)

	2023		2047 (ARIMA Estimates)		Target 2047* (30%processed GP)	
Products	Production (MT)	Value (crores)	Production (MT)	Value (crores)	Production (MT)	Value (crores)
Milk	7.59	26,410	11.88	85,536	18.0	1,52,400
Meat	1.42	63,900	2.0	1,80,000	3.0	4,50,000
Skin/Hide	1.16 (123 million no.)	14,760	1.51	33,220	1.51	33,220
Byproducts (goat hair+SH offals)	1.22	5,785	1.74	14,616	2.2	18,480
Goat manure	45	4,500	60	12,000	60	29,820
Others	-	3,500	-	7,000	-	7,000
Total		1,18,855		3,32,372		6,90,920

GOAT MISSION

Key Insights

- Establish nucleus herds &multiplier flocks with clear breeding plan.
- Disorganized supply chain, marketing & branding of goat products
- Poor processing & marketing infrastructure
- Neo-natal Mortality, Disease diagnosis, veterinary services
- Initiate mission on Reproductive management & Fodder Management. Depletion of natural feed resources (pasture lands)
- Provide technologies and services at farmer's door especially domestic & small farmers.
- Lack of credit services and infrastructures to scale-up the size of operation & production

Infrastructure

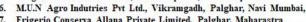
- Presently Govt. Farms =175 GBF +89 SBF=265
- Establishment of Goat semen station=25
- Establishment of Integrated Milk Processing Units











Frigerio Conserva Allana Private Limited, Palghar, Maharastra

Marya Frozen Agro Food Products Pvt Limted, Sahajahanpur, Bareilly

Production >2000

11. Hidh Agro Industries Limited, Aligarh, U.P.

13. Fair Exports India Pvt Ltd, Barabanki, U.P.

14. Fair Exports India Pvt Ltd, Rampur, U.P.

15. Deonar Municipal Abattoir, Mumbai



MRS=4 Telegana & HRY=2





Ahmednagar Dist. Goat Rearing Processing Co-op Fed Ltd, Ralegaon, Al Dua Food Processing Private Limited, Amarpur Kondla, Aligarh

AOV Agro Food Private Limited, Mewat, Nuh, Harvana

Vizg Foods Private Limited, Paradesipalem, Visakhapatnam

Zareen Foods Private Limited, Madhi, Haryana

