Climate adaptation & sustainability

We integrate environmental sustainability principles into DNA's design; leveraging the **Dairy Sustainability Framework (DSF),** we work to reduce emissions towards the global dairy industry's goal of **Net Zero emissions** linked to **country mitigation plans**

DNA **integrates with the DSF** with a focus on 5 out of 11 key areas of measurement and impact

dsf Dairy Sustainability Framework

Building a vibrant global dairy sector providing safe and nutritious products from healthy cattle while preserving natural resources & protecting livelihoods

Development of Markets that are transparent and fair and support economically viable businesses

Rural Economies and farming communities become more economically viable and resilient

Soil Nutrients application is managed to minimize impact and maintain soil quality

Soil Quality and Retention is managed to ensure optimum productivity

Greenhouse Gas Emissions across the dairy value chain are quantified and reduced

* Longer-term activities incorporated as DNA scales

DNA works on- and off-farm to **reduce emissions**, aligning efforts with **country mitigation plans**

Farmers

- **Improve productivity** through optimized feed and improved animal welfare
- **Link SHFs to market** by aggregating output and maximizing consumption of supply
- Implement **climate-smart ag practices** through training
- **Soil nutrient plans** ensure efficient use of manure*

Processors

- **Optimize operations** for efficient use of energy and inputs for sustained reductions per liter
- Introduce more **efficient cold-chain** infrastructure
- Transition **away from carbon-based energy** sources*

Consumers

- **Reduce freight** through increased national food self-sufficiency
- Reduce **single-use plastics**
- Embed **circular economy activities** as processors scale*

DNA links efforts with processors and farmers with country mitigation plans from the Paris Agreement

Pathway to Low Carbon Dairy

DNA is party to the industry's global Net Zero commitment and will specifically look to craft a pathway to **de-carbonization in Africa** through our work directly with processors and smallholder farmers; our initial focus is on reducing emissions

Strengthen operating environment

Net-zero is achieved when emissions created are displaced by removing the same amount of emissions from the atmosphere

→ **Reducing** emissions through climate smart agricultural practices is the first and most economical step toward net zero

→ **Offsetting** emissions can be costly and is appropriate to larger more established players – a future DNA focus

Farmers

- **Soil nutrient plan** ensures efficient use of manure ensuring GHGs are not vented to the atmosphere
- **Improved productivity,** particularly through optimizing feed and improved animal welfare for reduced GHGs/L
- **Linking SHFs to markets** by aggregating output reducing incremental carbon costs and reducing waste by ensuring what is produced is consumed
- **Instilling climate smart ag** practices through training including discouraging burning of crop residues, and the benefits of biodiversity and circular systems

Processors

- **Optimizing operations** for efficient use of energy and inputs for sustained reductions per liter
- **Introducing more efficient cold-chain** infrastructure or reducing the need by focusing on reduced bacterial count
- *[FUTURE]* **Transitioning away from carbon-based energy sources** to renewable sources and distributed grids (applicable to farmer-level as well)

Consumers

- **Reduced freight** due to increasing national food self-sufficiency by linking local producers with consumers
- **Reduced single-use plastics** by doubling down on bring-your-own-container distribution approaches
- *[FUTURE]* **Embedding circular economy activities** as processors scale and logistics infrastructure matures

Mix of interventions in consultation with governments and aligned with national sustainability agendas