













iHAT Municipal Solution

Quelimane 33MW Solar Minigrid Poultry Project



Current Scenario

➤ Domestic supply continues to lag behind imports in spite of the growing demand ◀

Year	Poultry Imports									
2000				13,000 metric tons						
2017										158,000 metric tons

LOCAL DEMAND

200,000 metric tons

Mozambique's chicken consumption was 6kgs per capita in 2015. The potential poultry output was estimated at 4.4 million birds although the country's farms produced only 2.1million birds.

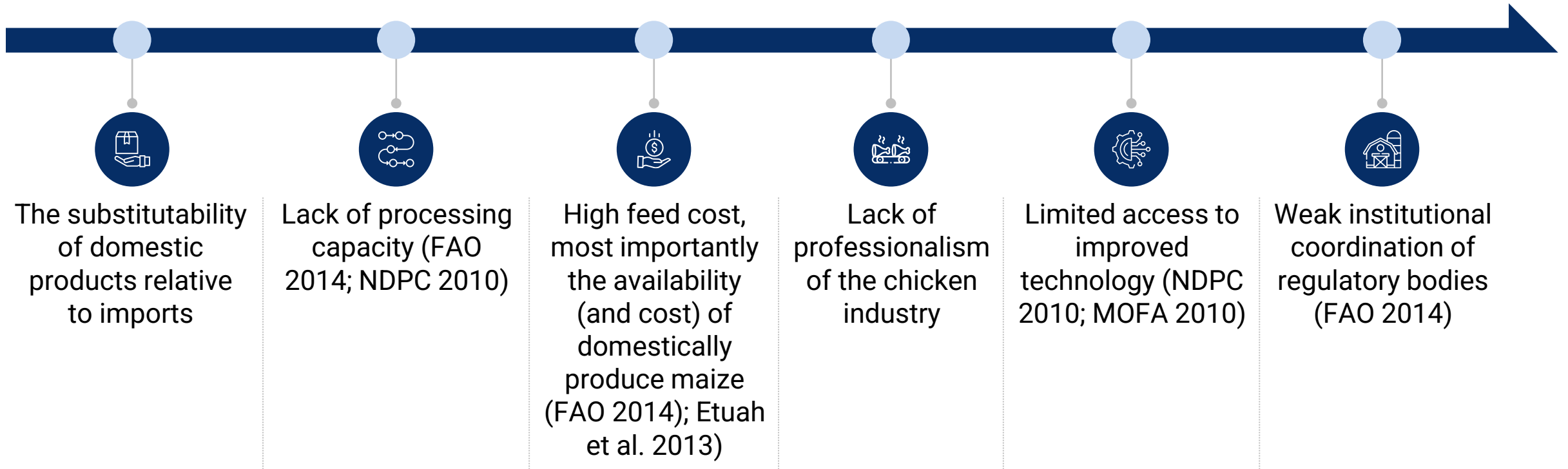
Imported chicken meat accounted for more than 67.48% of Mozambique's total chicken consumption in 2014

LOCAL SUPPLY

66,000 metric tons

Gaps in Current Poultry Industry

Following are the challenges facing the industry that have long been highlighted in government policy documents but have received limited empirical attention



Addressing these constraints is critically important to the growth of Mozambique's chicken industry and certainly deserve research attention.

Project Aim

To set-up a scalable and self-sustaining poultry industry, such that it becomes self reliant in food supply and boosts economic growth

Globally, the poultry industry contributes to the world economy in various ways, mainly:



Enhances GDP profiles and provides high revenue from exports

Provides a sustainable source of livelihood and protein for food



To develop the sector throughout the value chain

Project Deliverables

- Feed mills
- Hatcheries
- Slaughtering facilities
- Processing facilities
- Cold stores
- Consumer

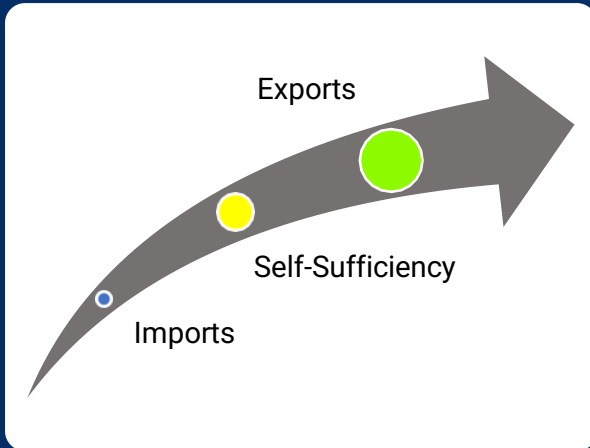
Economic Deliverables

- Housing
- Sanitation
- Schools and Education
- Hospitals and Health
- Renewable power supply
- Research and Development

Project Objectives

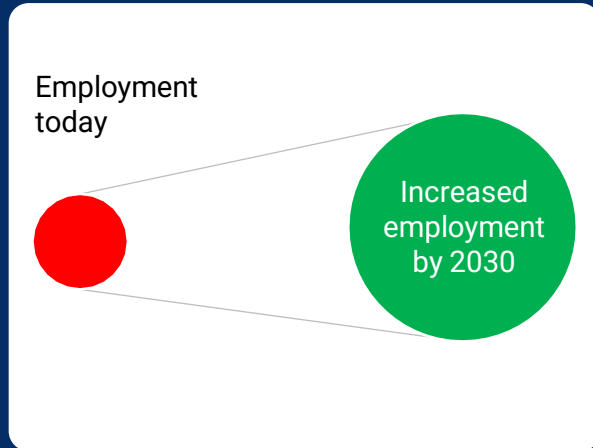
To see the poultry industry make a significant impact on GDP of the country by 2030

Increasing market



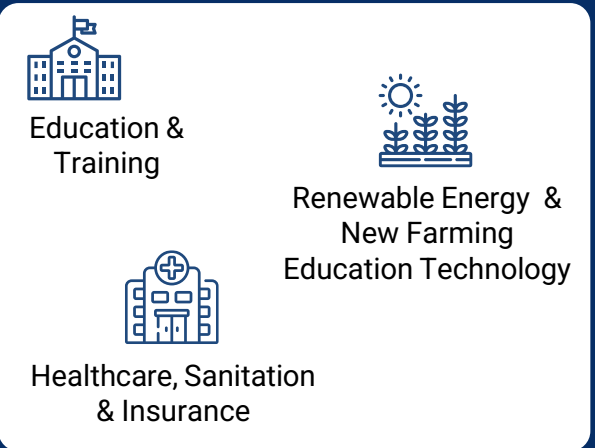
Fulfil the national poultry demand with 100% local produce and export surplus

Increasing employment



Generate employment by giving rise to jobs directly because of this project

Community development

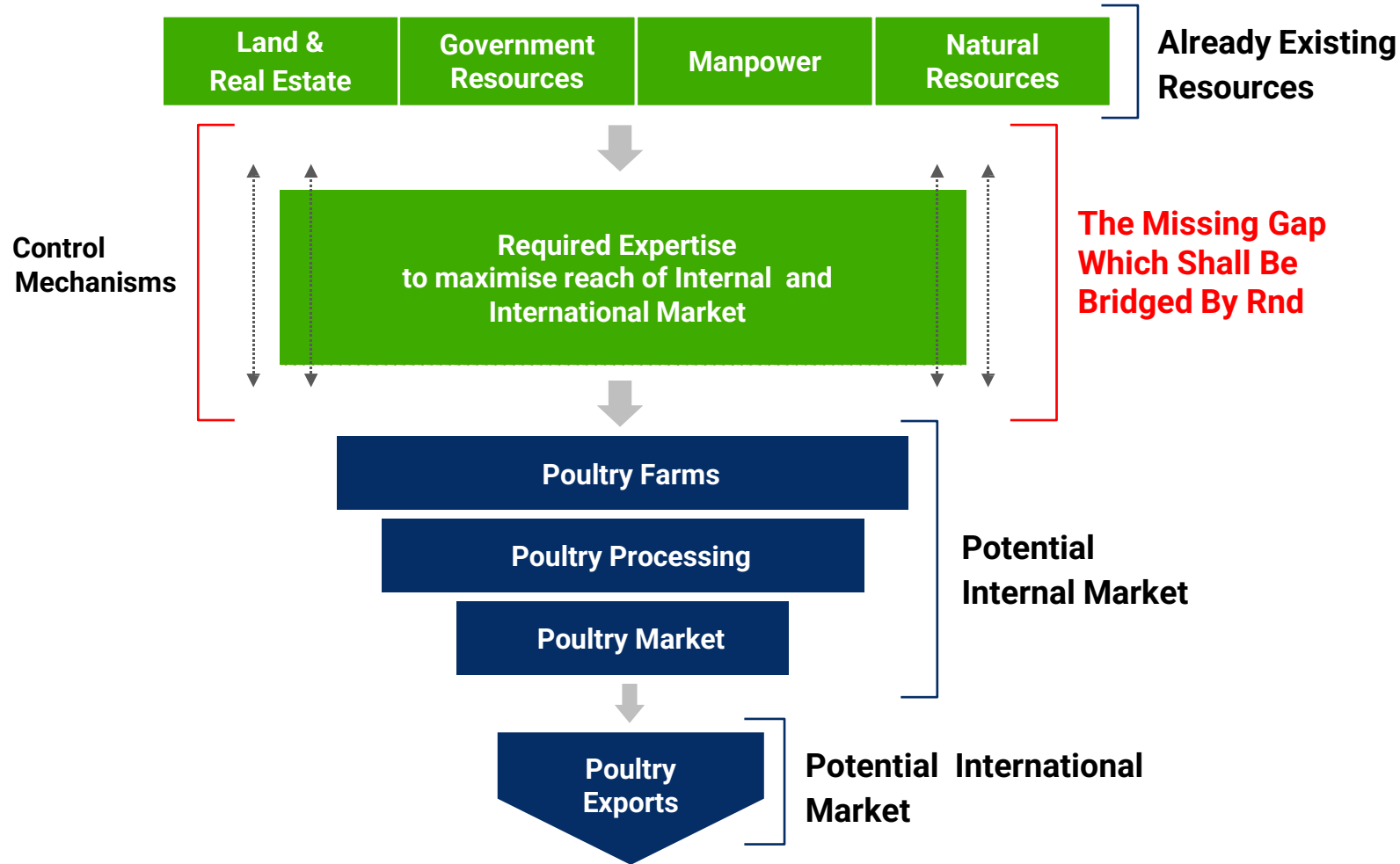


Increase skilled manpower and quality of life

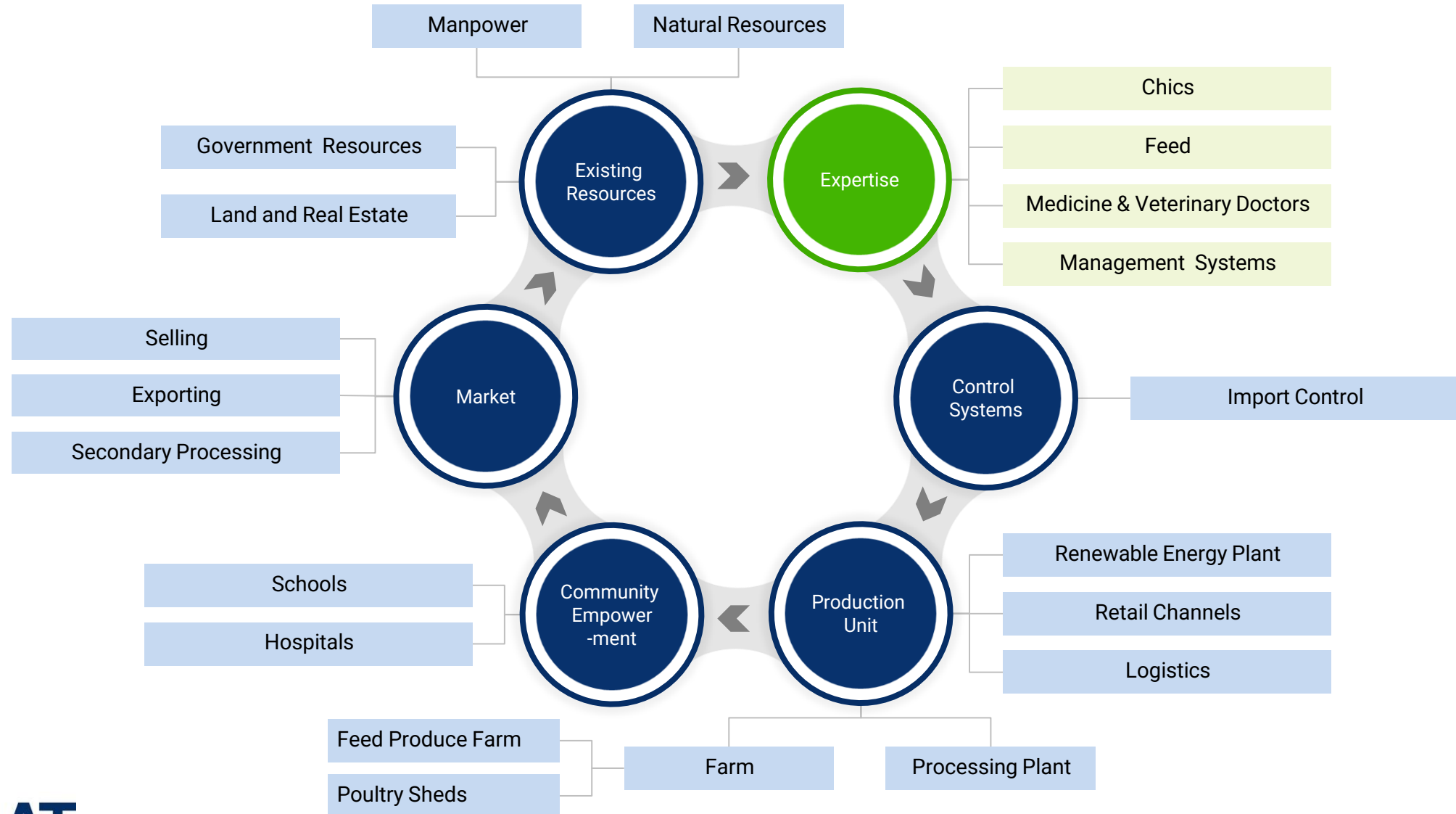
Advantage ➤ This project is able to leverage technology to maximize the available resources within Mozambique to operate at the highest efficiency and lowest costs.

Project Overview

Expertise brought by iHAT and RND will help Mozambique maximise its potential with existing resources.



Execution Plan



Project Implementation

Phase 1

INFRASTRUCTURE



- Broiler house
- Feed plant
- Processing facility
- Training facility
- Setting up renewable energy hubs to run these facilities
- Institutional and Retail outlets

Phase 2

FARMS & TECHNOLOGY



- Growing 60-70% of farming for soya and maize domestically
- Setting up of Pharma Companies for vaccines and medicines for birds
- Setting up of Hatcheries and Parent farms
- New farming technology implementation

Phase 3

COMMUNITY DEVELOPMENT



- Hospital
- School
- Housing for project workers
- Sanitation
- Drinking water
- Family Insurance
- Training institute

Unit Layout



Broiler Houses



Broiler Houses



Broiler Houses



Garden / Farm



Hospital, School, Housing, Playground



Poultry Processing Plant



Poultry Feed Plant

Why is poultry a better solution?

Less investment*

Optimum utilization of the bird

Minimal wastage

Highest Protein production per square foot*

Lowest carbon footprint in the meat

Processing industry*

Food security for the country

More scalable*

*in comparison with other meat processing industries



Outcomes

Self Sustaining Poultry Project

Food Security for Mozambique

Safe Hygiene poultry meat for end users

Ancillary jobs & business opportunities for locals in terms of setting up of poultry farms and retail outlets

Education for children for neighboring villages

Better sanitation & housing for people

Hospitals & medical treatments for people

Trained and skilled manpower



Project Requirement



Direct Requirements

Every project would require

- Land: 75 acres
- Human Resource: 1000 people
- Capital: USD 95 million

Indirect Requirements

- Government Subsidies
- Land
- Partial Funding
- Licensing
- Policy creation in favour of
- domestic meat production
- Reduction of import duties on
- raw materials
- Ban on imports of chicken in phases

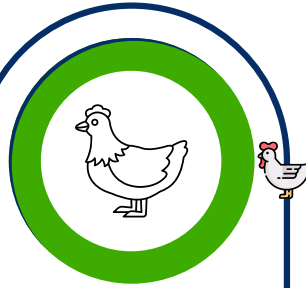
Expertise in Poultry

The expertise that RND brings to this project comes from over 30 years of experience

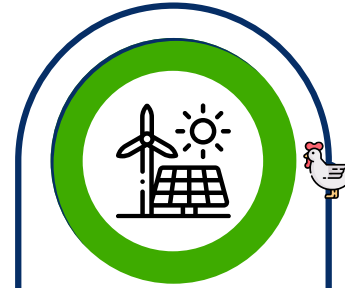
More than 30 years of experience and knowledge of the industry globally



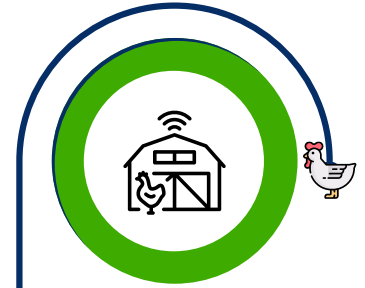
Expertise in setting up poultry projects in India and Africa with more than 4 projects already implemented in Nigeria



Expert partners in renewable energy solutions.



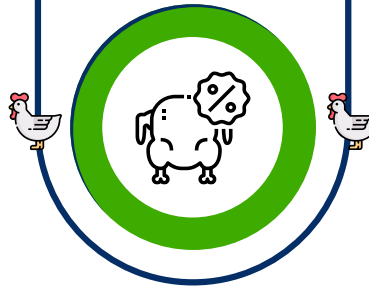
End-to-end solutions for the poultry industry - from broiler farms to retail outlets



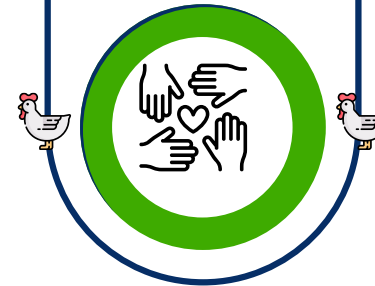
Qualified partners with technical know-how as well as funding for this project



Able to set up distribution channels in Mozambique and other countries of Africa for the sale of chicken



Backed by credible NGO's for setting up of schools / hospitals & sanitation projects



The Introduction Of A New Breed

Broiler Integration – Since 1997

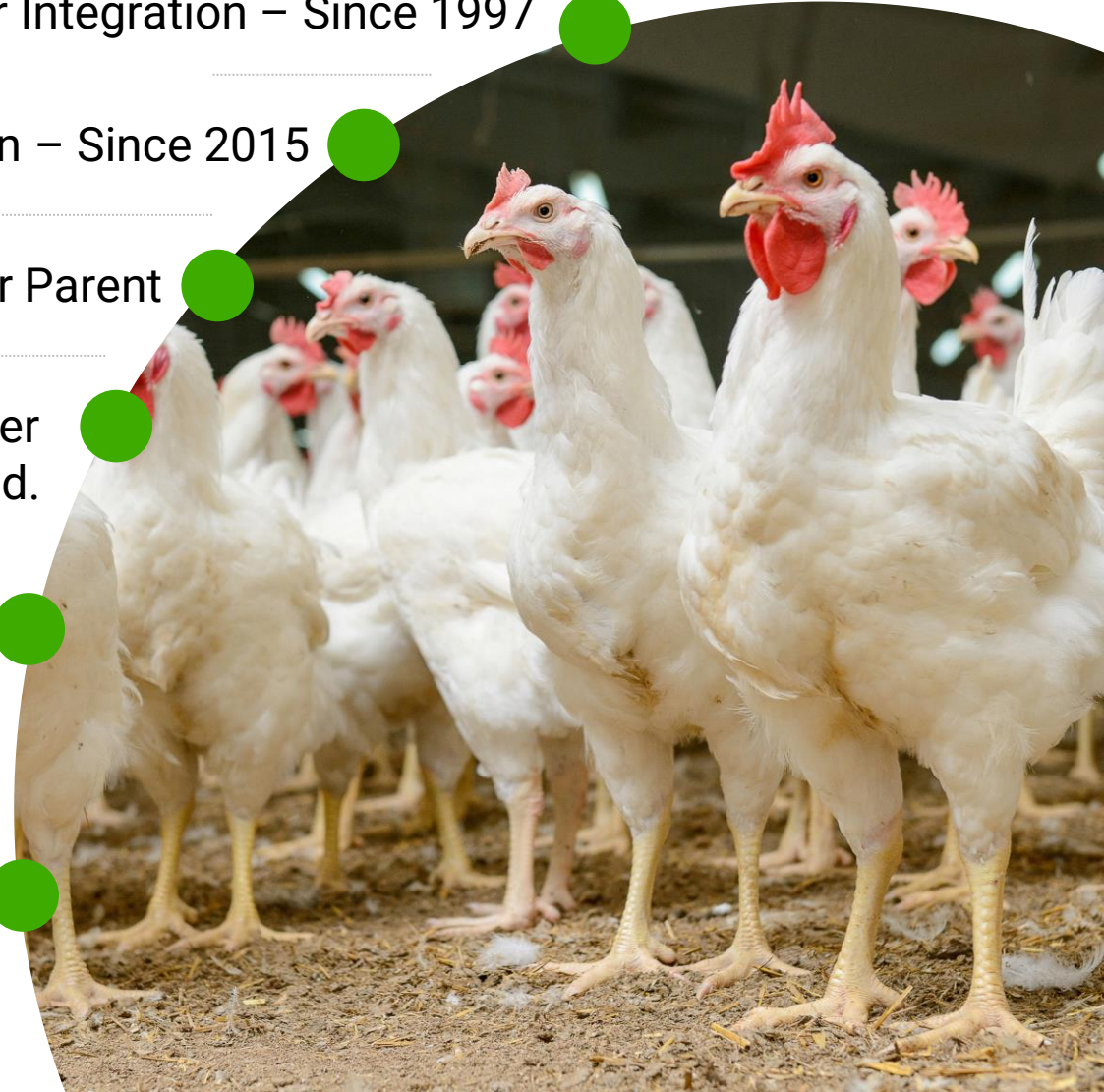
Combine Cross Breed and Pure Line Selection – Since 2015

Salient Features of Breeder Parent

Avee Broilers Pure line Firm has developed most tolerant Broiler Breed.

Breed is most suitable for varied climatic conditions as our Pure lines are exposed and adapted to adverse climatic conditions.

This is Most efficient at breeder and Broiler Production.



The Introduction Of A New Breed



“AVEE 395” has been designed to produce a well balanced package that produces a broiler with outstanding meat yield and breast yield.



At the same time this has the genetic potential to produce a large number of hatching eggs.



This unique and well balanced breeder female is the result of AVEE Broilers Progressive genetic improvement to produce breeders which will perform in extreme climate at breeder level.



And it gives exceptional broiler performance at broilers level with good FCR, livability and processing yield.

Salient Features of Broiler bird



Higher Meat
Yield



Higher Breast
Meat Yield



Better Leg
Strength –
Shank Length &
Girth



Suitable for
Adverse Climatic
Conditions
particularly Hot
& Humid
Conditions



High Livability in
Boilers.



Better FCR

Addition, Clean Water and Sanitation SDG6

Create Economic Growth

Access to safe water at home gives families more time to pursue education and work opportunities, reduces health expenses and helps breaking the cycle of poverty

Saving lives

Almost 3 ½ million people die every year because of water scarcity and hygiene-related causes– Watergen can change it!

Improving health

Watergen prevents diseases related to contamination of water resources or aged and corrupted infrastructure (water pipes)

Improving children's lives and education

Children are often responsible for collecting water for their families. This takes time away from school and play. Access to safe water and sanitation will change this

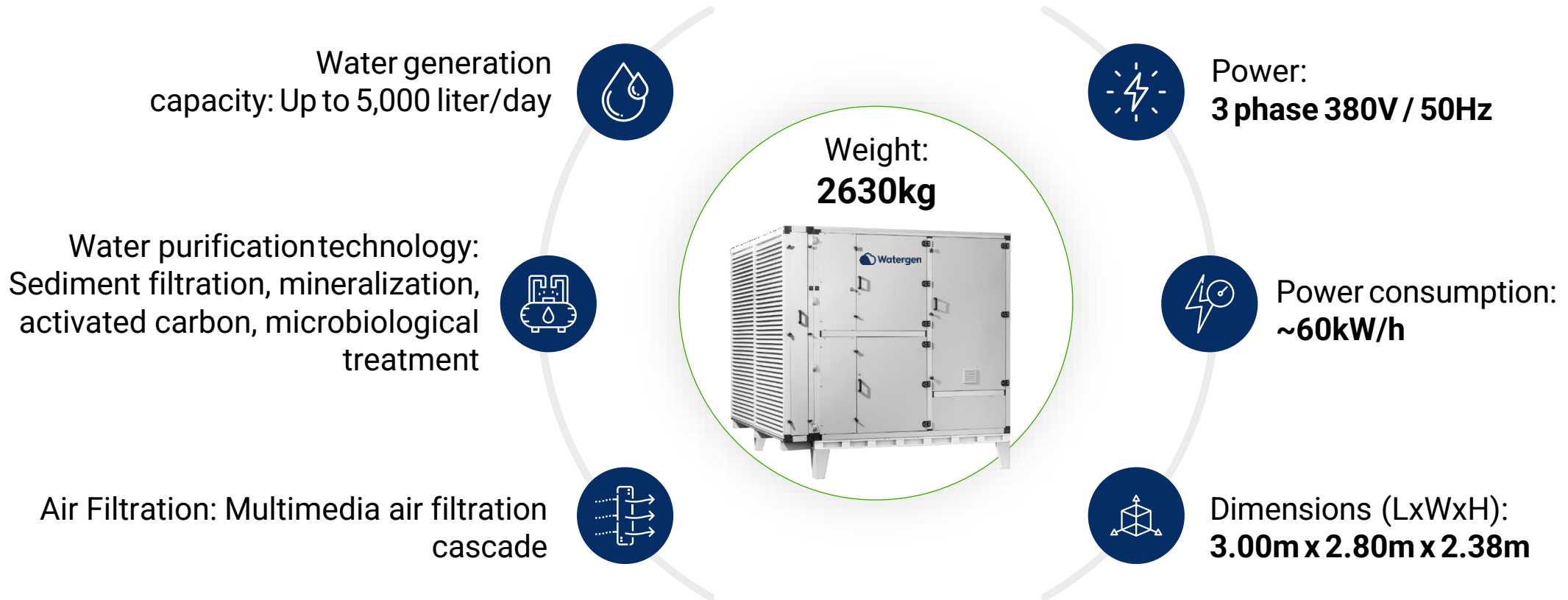
Helping the environment

Using Watergen's technology reduce plastic and save water transport






Watergen Large Scale (LS)

Industrial renewable source of drinking water for cities, villages, factories, and areas where clean water is not available or inaccessible



iHAT's Nature-based Solutions

-  iHATs commitment to the environment tailors Nature-Based solutions for the community.
-  As you might imagine the construction of such proposed power generation sites will take a toll on the environment itself.
-  IHAT will ensure the construction will be left as clean as possible and offset by introducing Nature-Based Solutions in surrounding nearby areas

Tree planting

Housing Eco-Systems

These programs contribute to a healthy environment while generating income for the local communities through the sale of carbon credits.



*A Cleaner Tomorrow
Starts Today*

iHAT Expertise in Renewable energy solutions



iHAT Technologies Inc. (IHAT) is a renewable energy solutions, Green hydrogen and E-Fuels hubs



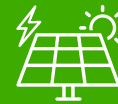
Hydropower
Technology



Geothermal
Technology



Wind
Technology



Solar Technology



Power Generators

iHAT Technologies Inc. is creating a 33MW solar power plant minigrid solution that shall enable the project to not only be self sufficient, but also provide excess electricity for local community consumers.

GOALS & OBJECTIVES



To pave the way for a cleaner, brighter future for generations to come.



To Pioneer in a new sustainable Green Energy economy.



To prove a zero emissions municipality and country ARE possible so that neighboring cities, provinces, countries and the world will be encouraged to follow in the footsteps.



Specifically, through well planned infrastructure, tackling sector by sector with opening concentration on Power Systems, Transport and fuel cell generators to be completely Green by 2030.



To build up a new economy developing Local citizens, training them to become leaders and experts in this emerging market.

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