



Africa Animal Welfare Conference 2019

Terence Chambati

**CEO & CO-FOUNDER** 

Harnessing & conserving the sweet returns of the Honeybee





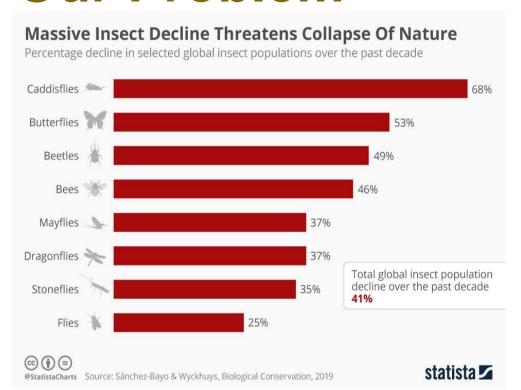
### **Our Problem**

Insects are a very important connection to the world ecosystem and biodiversity. Most serve as pollinators for a huge variety of plants and vegetables as well as food for reptiles, birds, fish, mammals and even humans.



Insect declines (Insect Apocalypse) > Birds & Plants = Disrupted World's Ecosystems

### **Our Problem**





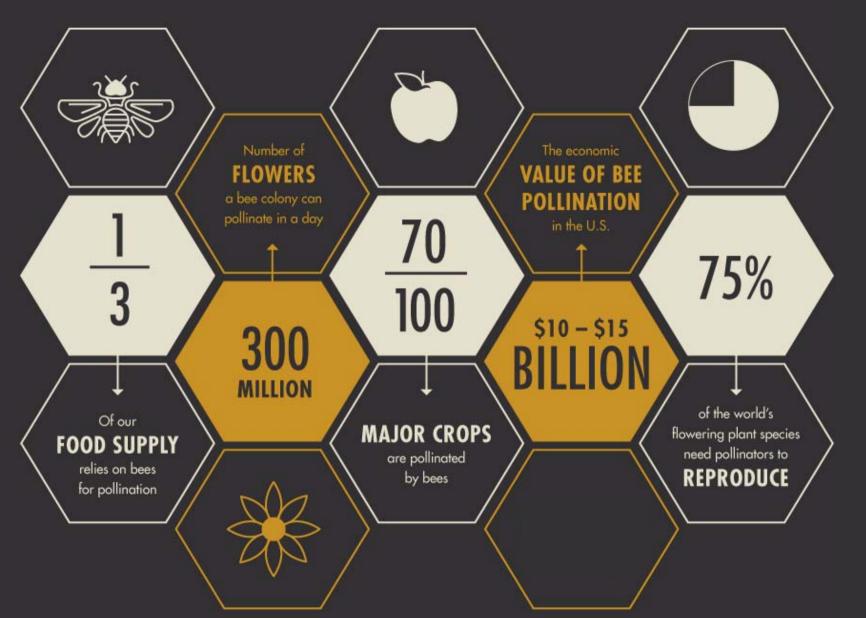
#### **HIGH URGENCY:** NO BEES = No

Pollination, No Plants, Fruits or Vegetables; No Animals Economic Hardships and rising food costs.

#### **HIGH IMPORTANCE**: The

disappearance of the honey bees, better know as **Colony Collapse Disorder** 

HIGH POTENTIAL: Greatest concern for Africa is that the statistics on the sector are not reliable nor readily available.





# The Market Landscape



87% Global Flowering

Pollination results into 87% of world's flowerings



77% Food Supplies

Pollination results into 77% of world's food supplies



\$235bn - \$577bn

Three quarters of the world's crops, worth \$235 - \$577 billion annually rely on pollinators.



1.4 Billion Jobs

1.4 billion jobs worldwide rely on pollinators

# The Market (Uganda)

**Tradable** Honey 12,000 MT

**Bees Wax** USD \$5.2m

**Tradable Honey USD** \$38.4m

Country's **Potential** 500,000 MT **Propolis: USD** \$320,000

> Ree Venom

**Colonies** (???)

Royal jelly

No. of Bee

**Top World Exporters** 

China (\$271m) | New Zealand (\$270m) | Argentina

**World Production** 

Africa (\$600m) est\* | Ethiopia (45,000t) | Kenya (12,000t) Egypt (12,000t) | Tanzania | Nigeria | Uganda | RSA

**Top World Importers** 

USA (\$542m) | Japan (\$143m) | Germany (\$136m

### Our Problem







#### Lack of reliable statistics hurting beekeeping sector experts y f G→ in ⊕ ⊠



# **Our Solution**



Leveraging the "Internet of Bees (IoB)", Bee Tracking and Huchi Smart Hives we deliver apiary management systems and data insights for an optimized apiculture value chain. These insights will be our gateway to improving conservation awareness and introduction. ... ImpactKeeping.



# **Our Key Stakeholders**

#### **Primary Value Chain**

#### **Data Driven insights**

Remote access to Hive activity, healthy hives & bee behaviour

#### **Positive Impact on Productivity**

Higher yields

#### **Natural Pollination**

33% of all the food we consume is pollinated by



#### **Developmental Partners**

#### Conservation

Conservation Enterprise
Economic + Social
Benefits

Ecosystem Services

#FoodRevolution

#### **Financial Inclusion**

Impact to Farmers



#### **Secondary Value Chain**

**ImpactKeeping** 

Supply chain tracking

**Market Linkages** 



# **Our Impact**

**Food Security** 

Improve Quality of life

Higher Yields

ZERO NO Poverty HUNGER Honey Bee

Conservation

**Natural Pollination** 

**Bio Diversity** 

Pollen Maps

Financial Inclusion

13 CLIMATE ACTION

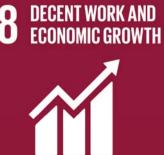


15 LIFE ON LAND



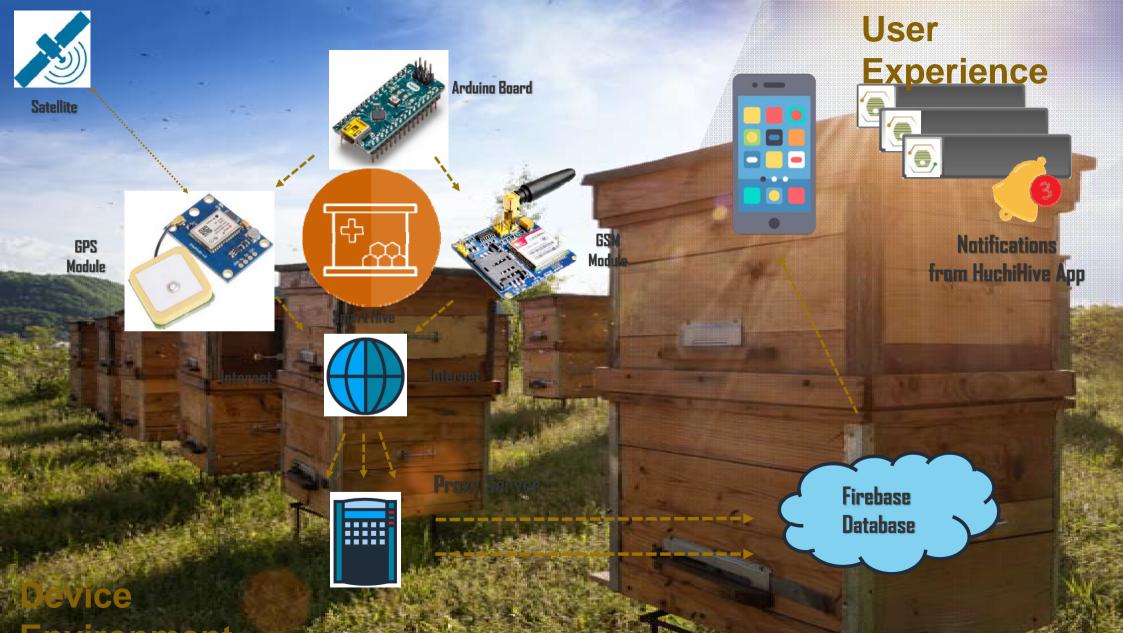
GOOD HEALTH AND WELL-BEING



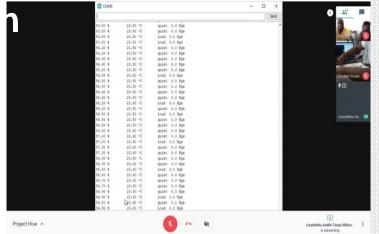


# **Our Solution Overview**













Lizwelethu Andile Tsepo Mhlan . :

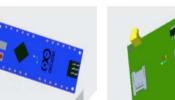
















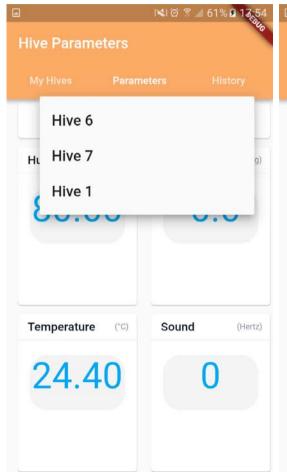


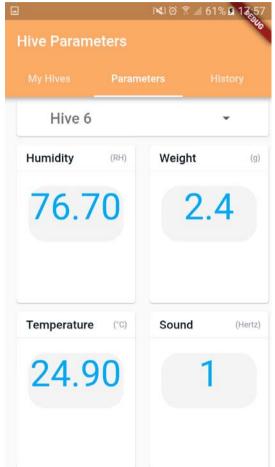




### **Our Solution in**





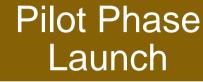




# **Risks & Constraints**

Cost of Solution	Connectivity	Low Adoption
Affordability	Power Source	Traditional Beekeeping Methods
Product Development	Device <> Farmer	Smart Phone Penetration
Development Team Resourcing	Sensors	Technology

# What Tomorrow Holds...





**Partnerships** 

www.bees.africa





Fundraising

Huchi

**ImpactKeeping** 



# Give us a BUZZ on how you can get involved

### Terence Chambati +256 785 131323



