# Data and Advanced Technology for Effective CRI Product Design and Delivery

By Fida Haq Co-founder & CEO

### adorsho praniSheba Limited

প্রাণিজেব

প্লিপ্রাণিরেবা ভেট

praniSheba

भ्राणिस्तित् याय

praniSheba Prohori

### Contents

I. Prospects for Data-Driven Approaches in CRI

II. The essential role of data in identifying climate risks and setting premiums for climate risk insurance products.

III. Exploring types of data; include historical and real-time climate and weather data, socioeconomic data based on demographic, income, and geographic factors, and risk modeling data for hazard, exposure, and vulnerability assessments.

IV. Integrating the advanced technologies in CRI design and delivery; remote sensing and satellite technology; big data analytics; artificial intelligence and machine learning; blockchain technology.

### **CRI : Definition & Purpose**

CRI stands for Climate Risk Insurance. It refers to insurance products and mechanisms designed to provide financial protection against losses caused by climate-related risks such as:

- Extreme weather events (example: hurricanes, floods, storms)
- Slow-onset climate impacts (example: droughts, sea-level rise)

Its purpose is:

- To help individuals, businesses, governments, and communities manage
  financial losses from climate impacts.
  - To support **climate resilience** by providing timely payouts that enable quick recovery and rebuilding after climate disasters.

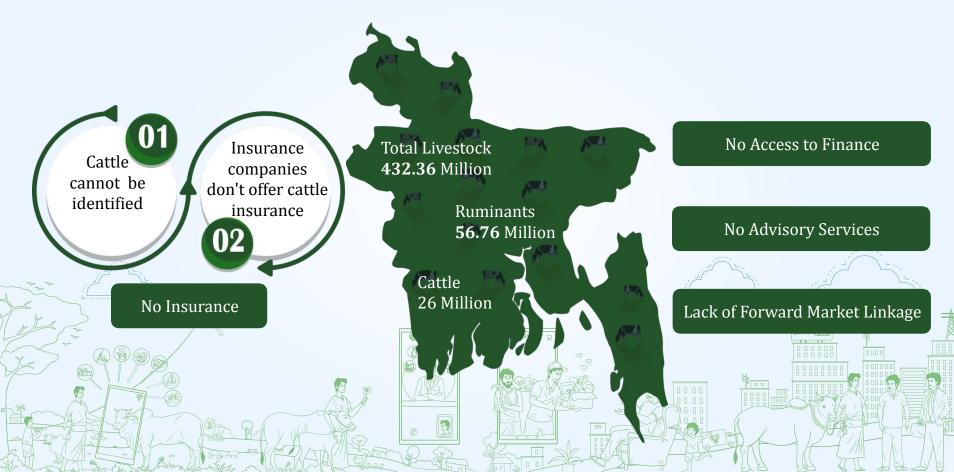
### Role of CRI in Mitigating Financial Risks from Climate Events

- 1. **Transferring Risk**: Shifts financial burden from individuals, businesses, and governments to insurers through premiums
- 2. **Ensuring Quick Recovery**: Payouts for rebuilding infrastructure, homes, regaining assets like livestock or fisheries post-disaster
- 3. **Promoting Resilience**: Encourages risk reduction measures, such as remote services, flood defenses or drought-resistant crops
- 4. Protecting Vulnerable Communities: Supports climate-vulnerable groups with affordable insurance solutions, like cattle insurance, microinsurance, etc
  5. Stabilizing Economies: Prevents financial collapse and aids economic recovery by ensuring funds are available when disasters strike.

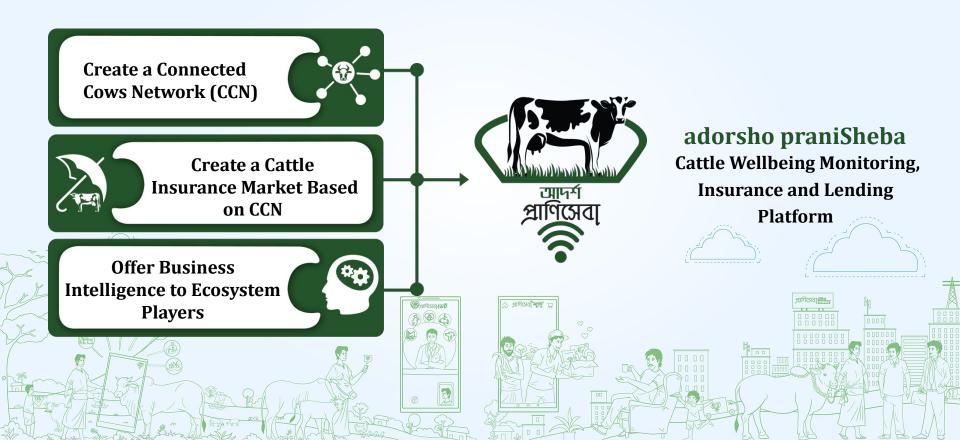
## Importance of Effective Product Design and Delivery

- 1. **Meeting Diverse Needs**: Tailored products address the specific risks of floods, droughts, or hurricanes for individuals, farmers, and businesses
- 2. Affordability: Simplified and cost-effective insurance products make CRI accessible, especially for climate-vulnerable communities
- 3. **Quick Payouts**: Efficient delivery mechanisms, like parametric insurance, ensure timely financial support post-disaster
- 4. **Building Trust**: Transparent processes and clear terms enhance user confidence and adoption
  - . **Scalability**: Well-designed products can be scaled across regions to protect more marginal people against climate risks

#### Case Study: praniSheba



### **The Solution**



### adorsho praniSheba's Platforms and Products



**praniSheba finAccess** provides 4IR based access to insurance, low-cost lending and wellbeing monitoring services through a product named **Easy Pack**.



**praniSheba Joutho Khamar (Shared Farming)** is a crowdfunding platform that matches up urban investors with marginal farmers for shared farming ventures



**praniSheba Vet** is an online telemedicine platform that provides 24/7 veterinary and pet services

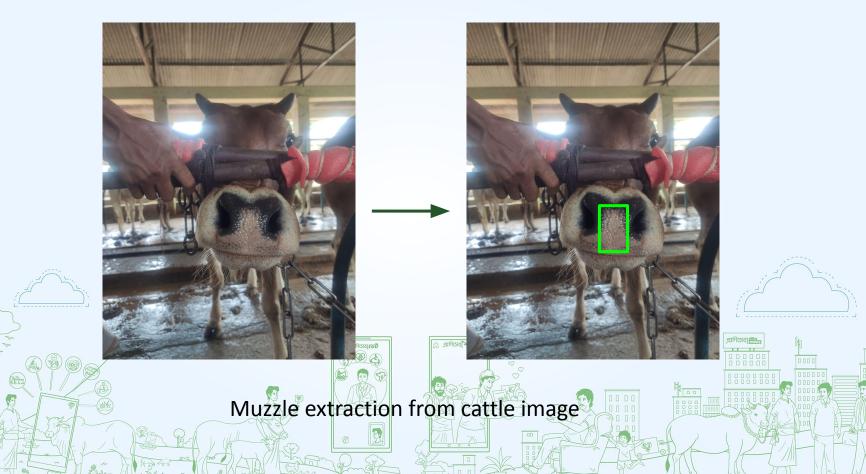


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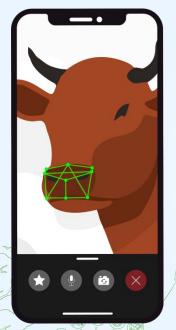
**praniSheba Shop is an** eCommerce platform that assists rural cattle farmers with forward market linkage

praniSheba Prohori is an IoT-based 24/7 remote cowshed monitoring

#### **Innovation: Cattle Muzzle Image**



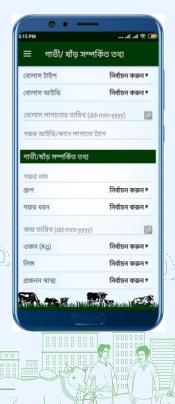
### praniSheba finAccess through Easy Package



**Easy Pack Features** 

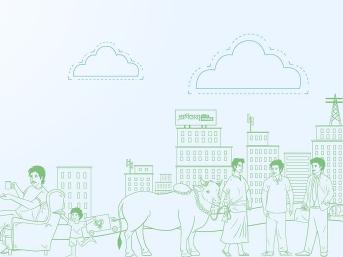
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AI based cattle identification (applied for patent) Access to insurance, low-cost lending User friendly mobile app APIs for third party usage

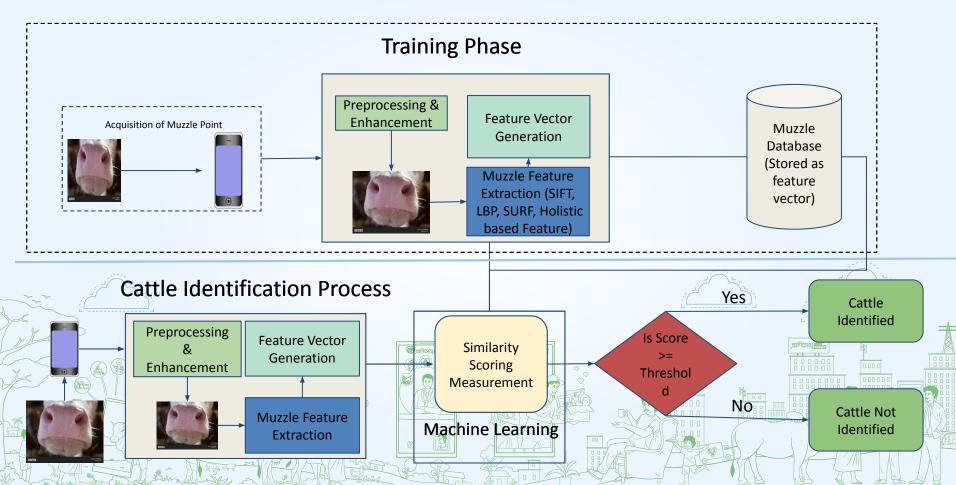


### **Muzzle Based Cattle Identification Demonstration**





#### **Diagram of the Cattle Identification System**







**praniSheba Joutho Khamar (Shared Farming)** is a crowdfunding platform that matches up urban investors with marginal farmers for shared farming ventures

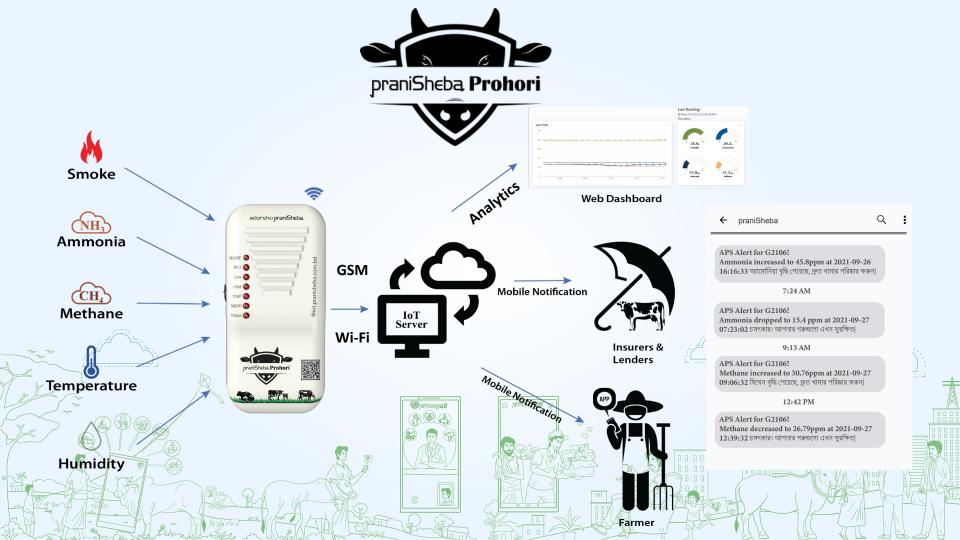




praniSheba Vet is an online telemedicine platform that provides 24/7 veterinary and pet services



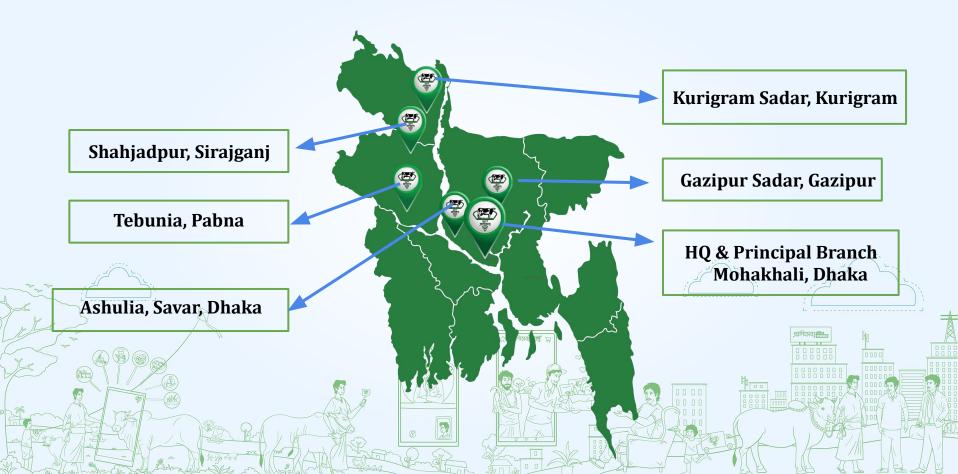




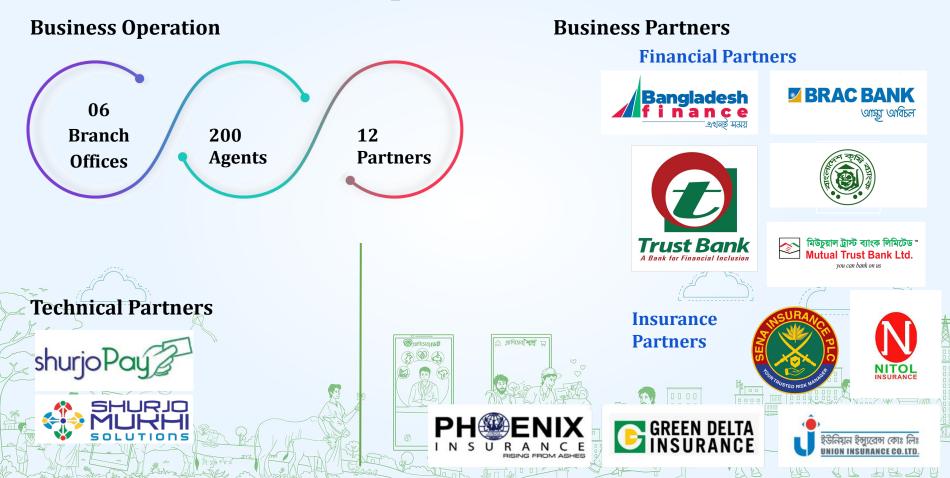
### **Cattle Weight Calculator**



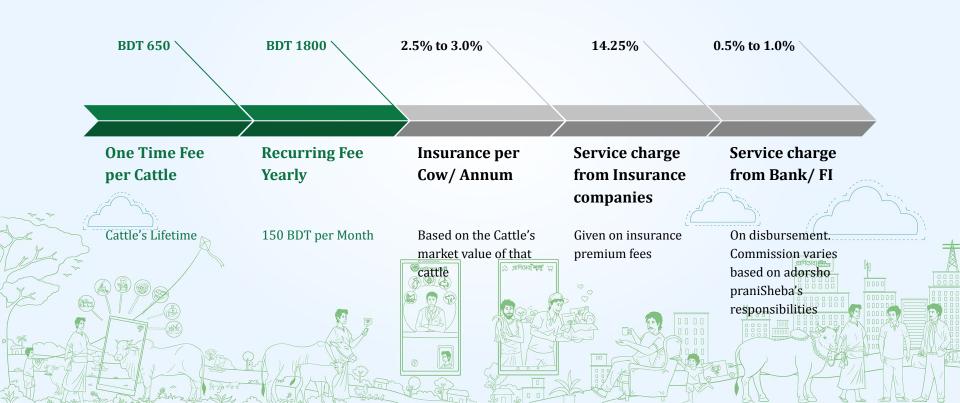
### praniSheba's Footprint



### **Areas of Operation & Partners**



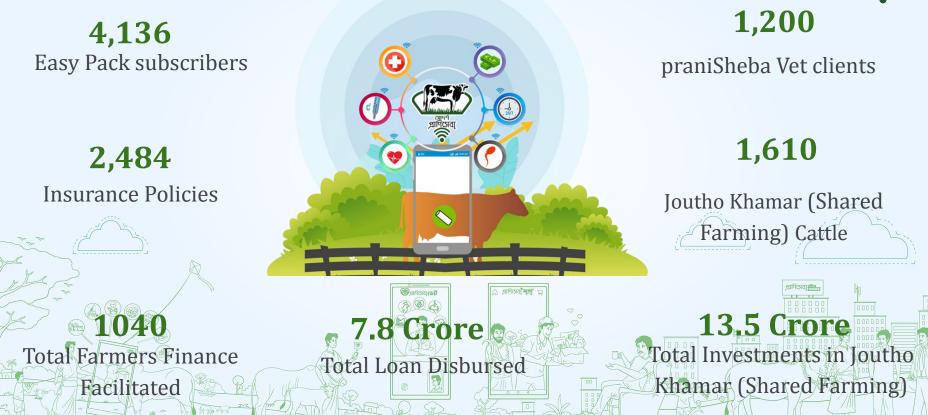
#### **Business Model**



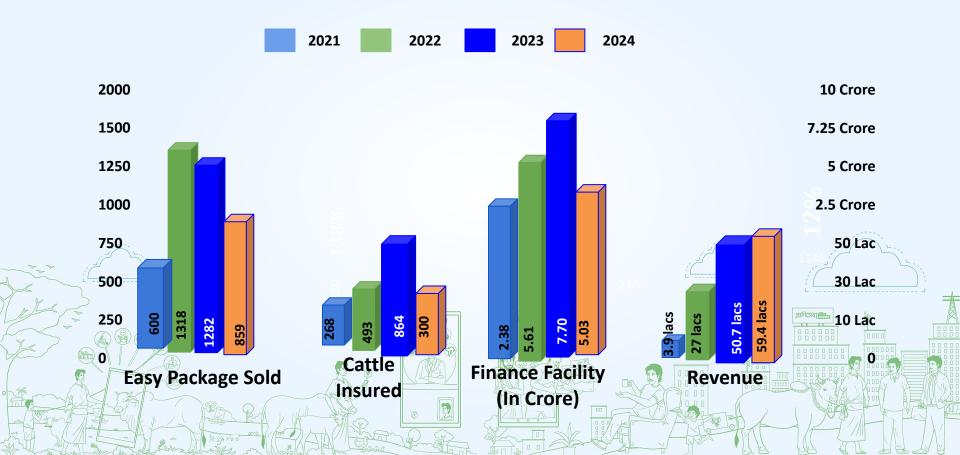
#### adorsho praniSheba's Traction

As of September 2024





### adorsho praniSheba's Growth



### adorsho praniSheba Team

#### **Board of Directors**



**Dr. Ashiquzzaman** Chairman Phd in Economics Harvard University, USA



**Fida Haq** MD and CEO MS in EEE, METU and Bilkent University, Turkey





### Awards and Recognition



**InsurTech License from IDRA, 2024** First time in Bangladesh Winner Industrial -Agriculture Category BASIS National ICT AWARDS 2022



Runners Up Fintech Innovation of the year - Tech Award 2021 Bangladesh Brand Forum





2023

adorsho praniSheba

**Champion** Agriculture category APICTA Award 2019 Ha Long Bay Vietnam Runners UpGrant AwardeeBASIS NationalBusiness FinanceICT Awardfor Poor,Industrial-AgricBangladeshulture Category(BFP-B), 2017

# **Thank You!**

