

Dvara E-Dairy Solutions (Dvara ED)

Dairy Tech for Small & Medium
Dairy farmers

www.dvaraedairy.com



9 December 2022

Dvara E-Dairy Vision

“ To facilitate profitable growth for small and marginal dairy farmers and becoming the leading trusted platform in the USD 140 Bn Indian dairy economy by providing suitable new age digital solutions and access to financial and value chain markets

Dairy Sector- An Overview



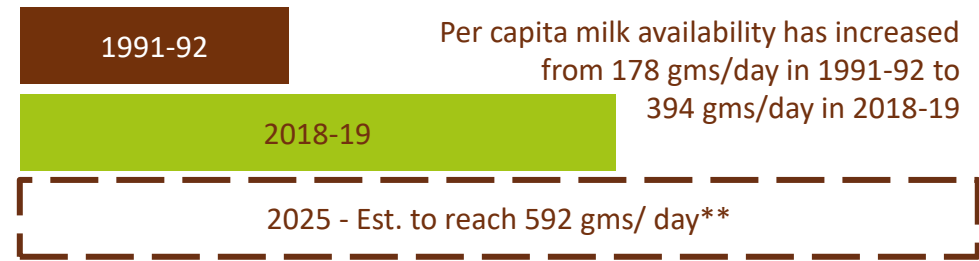
Dairy Industry adds 4% to the total GDP of India

The industry is growing at a CAGR of 8-10%

Dairy contributes 26% to total Agriculture GDP

Dairy Farming contributes a third to the total household income of farmers

90% of all cattle (cows + buffaloes) are with small dairy farmers.



A financially resilient industry during the pandemic

No major impact in portfolio quality, steady repayment

75 million rural Dairy farmers



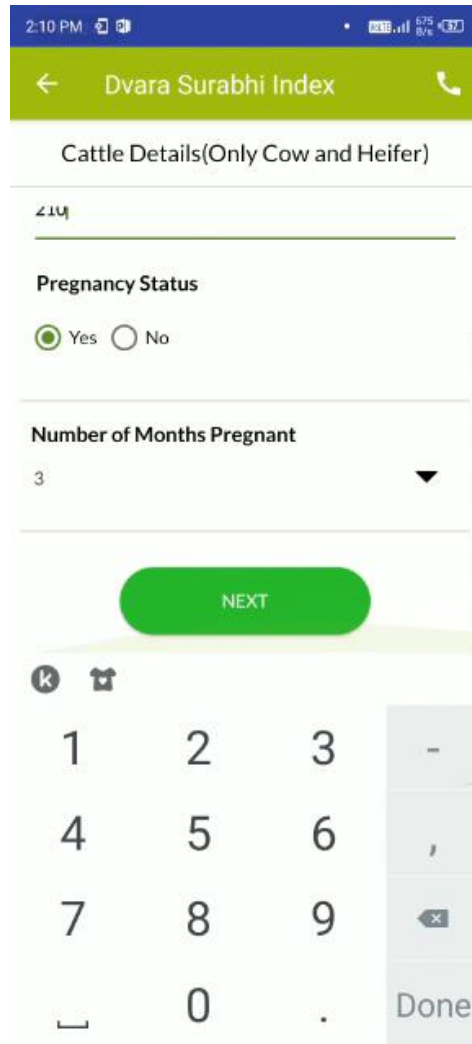
Ministry of Agriculture and Farmers Welfare, Imarc Group: Dairy industry in India 2020

*Dairy industry covers all segments related to Milk, Curd, Probiotic Products, Yoghurts, Buttermilk, Lassi, Ghee, Butter, Cheese, Paneer, Cream, Khoya, Dairy Whiteners, Milk Powder, Ice Cream, Dairy Sweets and Whey.

**NDDB/ GOI

DIGITIZED CATTLE FOR DIGITAL INDIA

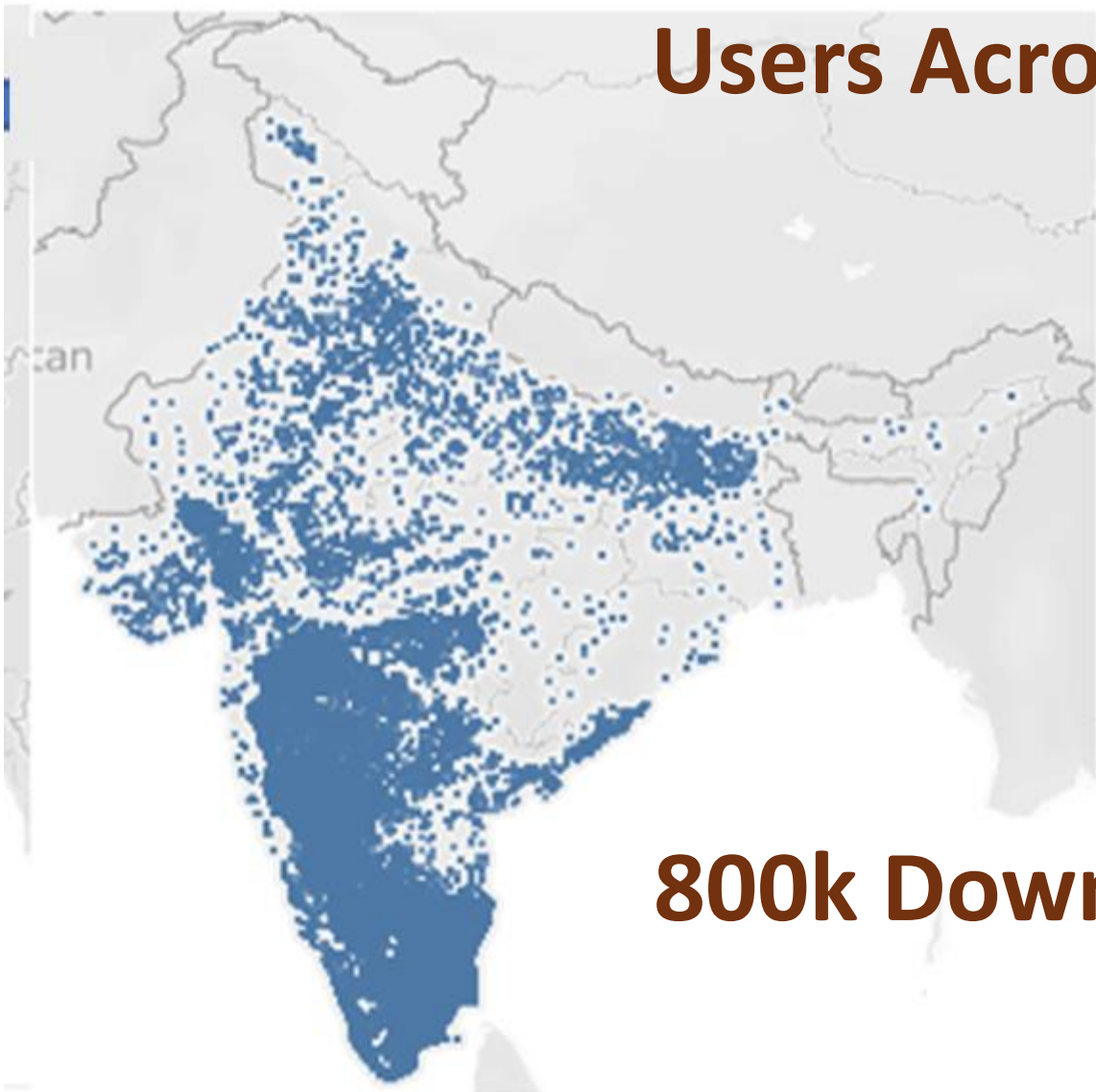
Dvara Surabhi - DIY Android mobile App for Dairy farmers



The screenshot shows the 'Dvara Surabhi Index' app interface. At the top, there is a green header with a back arrow, the title 'Dvara Surabhi Index', and a call icon. Below the header, the text 'Cattle Details(Only Cow and Heifer)' is displayed. The form includes a text input field for 'Cattle ID', a 'Pregnancy Status' section with radio buttons for 'Yes' (selected) and 'No', and a 'Number of Months Pregnant' section with a dropdown menu showing '3'. A green 'NEXT' button is positioned below the form. At the bottom, there is a numeric keypad with digits 1-9, 0, and a 'Done' button.

- Know the health status of the cattle (as an indicator) in less than a minute
- Based on established Vet Science concept
- 97% plus accuracy
- Preventive care
- Seek support of Vet based on indications

Dvara Surabhi - DIY Android mobile App for Dairy farmers

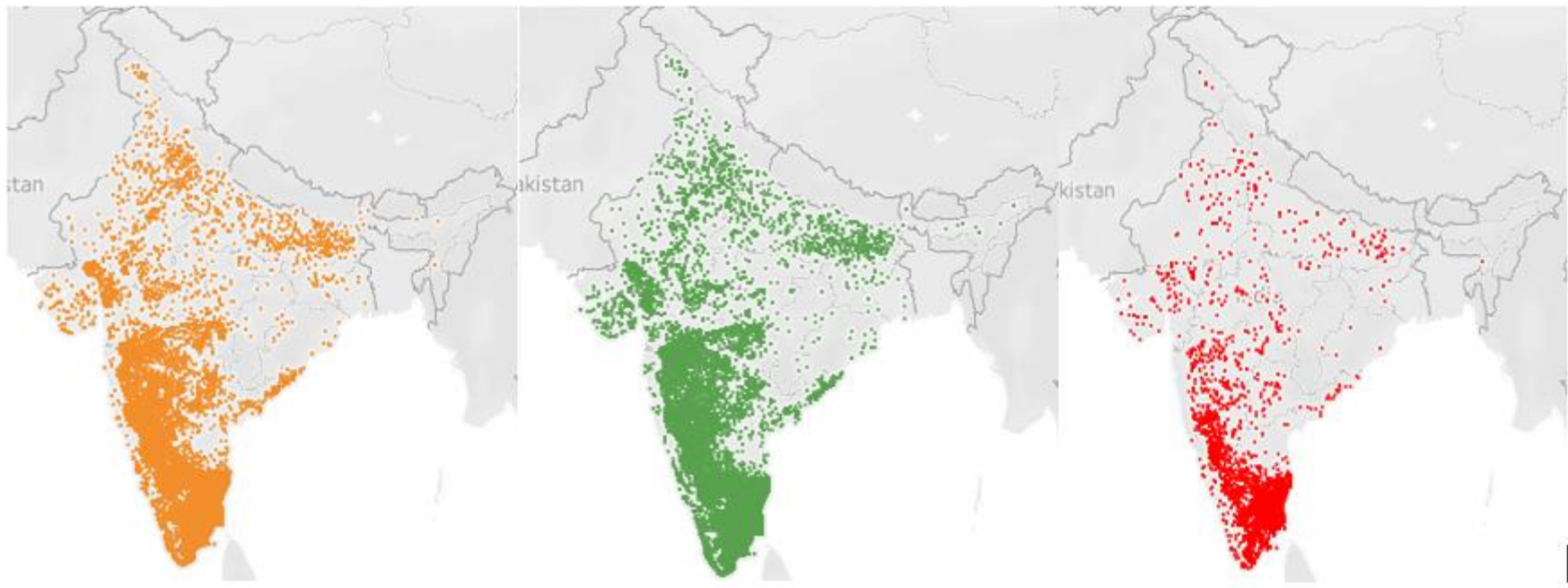


Users Across India

800k Downloads



Cattle and Health distribution



SURABHI ID

BIOMETRIC MUZZLE IDENTITY FOR BOVINES

Surabhi ID – Digital Biometric Bovine Identity



Can be tampered



Injectable RFID Tags and reader.

Invasive, OPEX

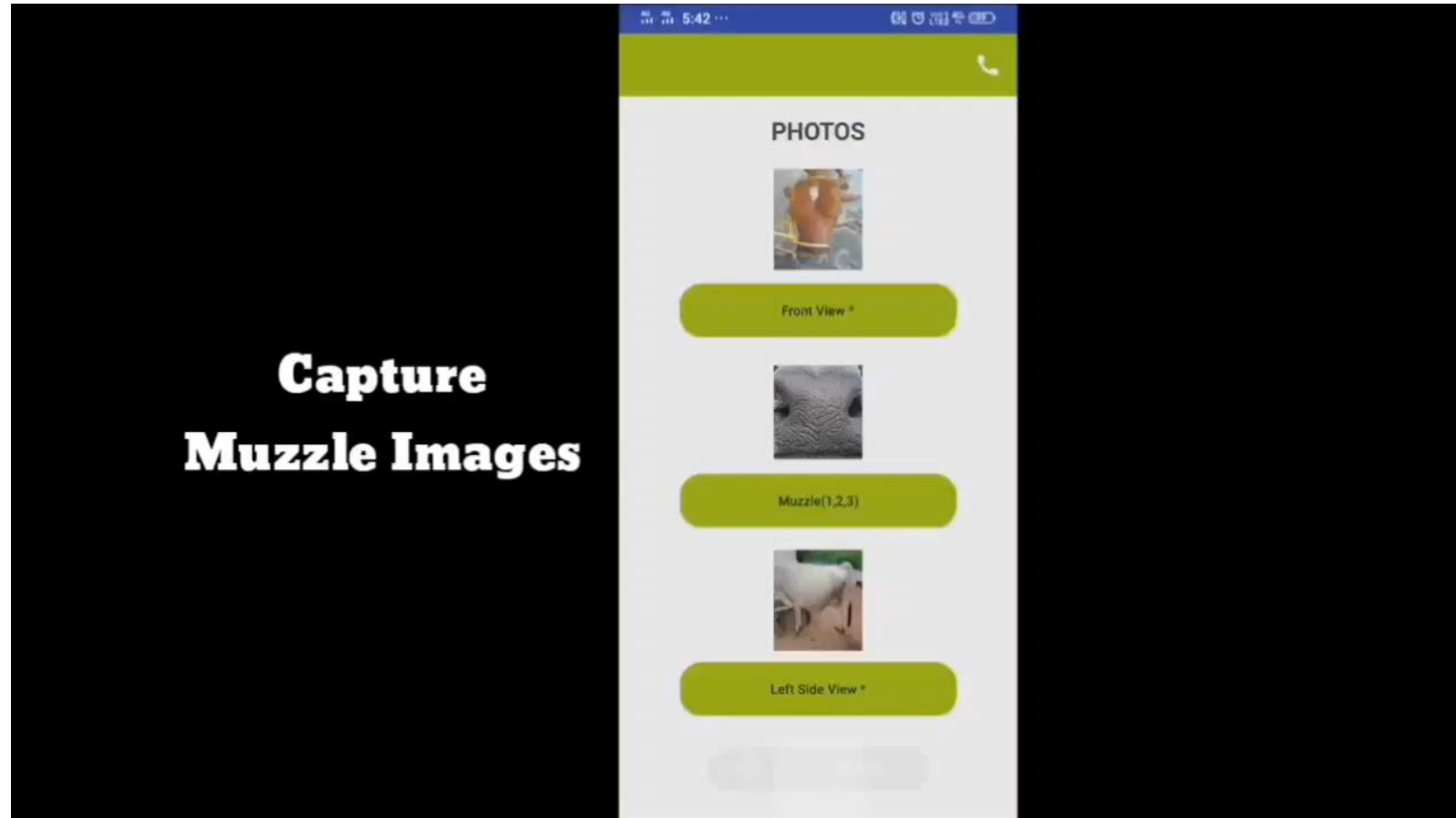
intensive, limited use, software required to record and track animal details



Muzzle identity Solution from Dvara E-Dairy (unique biomarker for each cattle)

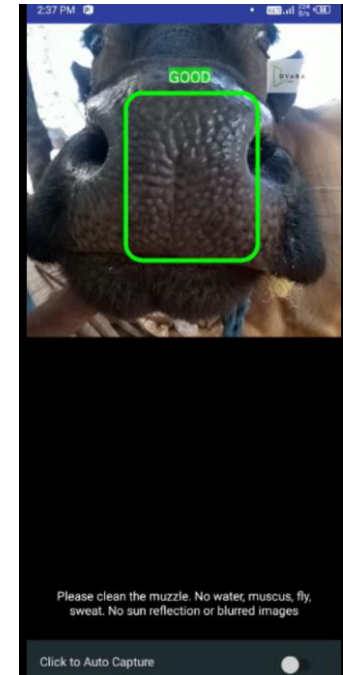
Non-invasive, tamper proof, retrieve cattle information with your mobile phone

Surabhi ID- Biometric for cattle



Product development- Metrics

- 2,500,000+ muzzle images used for training and building model
- 1,25,000+ unique cattle and 4,00,000+ unique original muzzle image
- Multiple rounds of algorithm developments, field testing, feedback, corrections and algorithm upgrade
- Accuracy: 97.6% to 100% (Field testing, good and bad muzzle images)
- TAT to collect three muzzle images: 25 to 40 seconds *
- TAT to validate muzzle identity : 20 seconds at server



Use of Cattle Identity

- Scale cattle Insurance
- “ True cattle Loan”
- Establish Cattle Ownership
- Delivery of Govt schemes
- Cattle traceability

DIGITIZED CATTLE FOR DIGITAL INDIA



Dvara Surabhi

<https://play.google.com/store/apps/details?id=com.sirpi.dvaracattlehealth>



Thank You

Ravi K.A

Chief Executive Officer

 Ravi.KA@Dvara.com

 +91 9677094224

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