

EkStep

OpenAgriNet

OpenAgriNet -

# AI Powered Agriculture Information System



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JAGADISH BABU  
COO, EkStep Foundation

# Agri Data On Rails

Agri and  
livestock data on  
Rails



Mandi Prices



Weather



Crop Advisory



Scheme Info



Soil Health



Registries

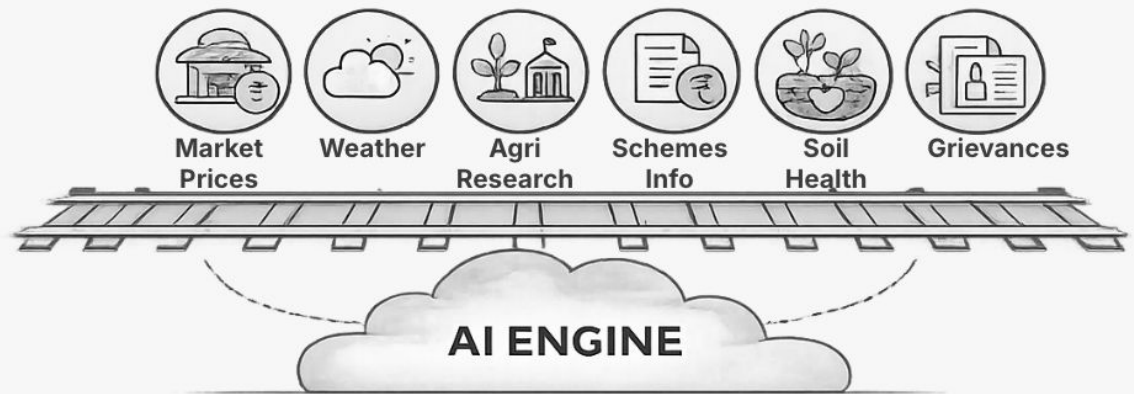
Institution's  
latest data and  
services on Rails



Agriculture DPI

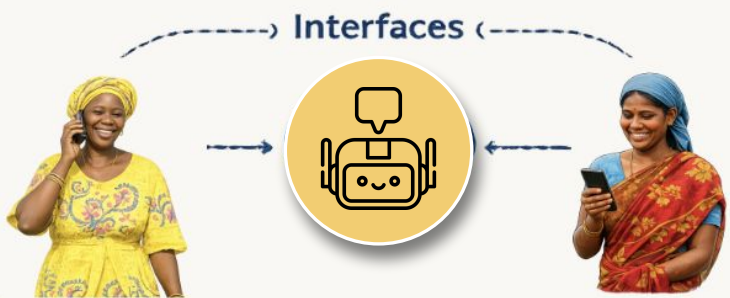
# Agri Data On Rails

Agri data on rails  
powered by AI



AI synthesizes data → Provides trusted advisory


Agriculture  
DPI + AI




**Authoritative, Contextual, Personalized Advice**


**OAN-OpenAgriNet**  
DPI powered by AI for  
Agriculture and Livelihood.  
Bringing Institutions together.  
Unlocking power of data.


*Journey towards Personalised advisory*

 **Farmer's interact in Voice**

*End to end open source AI  
Based voice telephony in  
Indian languages*


 Warehouse  
Information


 Agricultural  
Machinery

 Schemes



Market Information 

Research Advisory 


Bank 

Insurance Provider 

**AgriStack DPI**

 **Farmer ID**

 **Farm ID**

 **Crops sown**



VISTAAR

## Digital Public Infrastructure built as open network and powered by AI

To create inclusive and innovative climate resilient agriculture

# Amul AI. For Dairy farmers

Amul

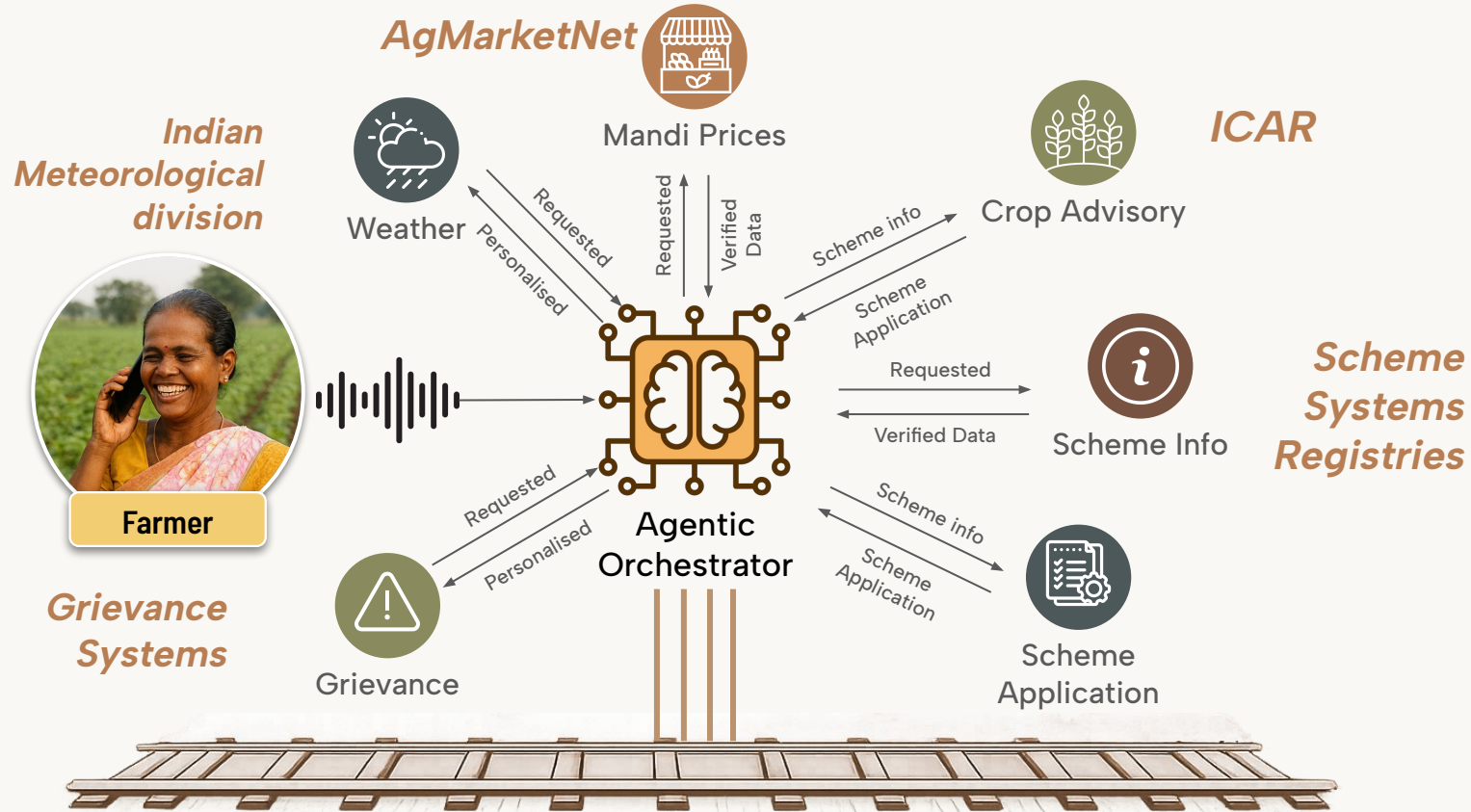


## Amul AI



## Digital Assistant for Dairy Farmers

# OAN design principle - AI infers contextually with minimal reasoning preserving institutional Authority



Data in LLM = Data from Past



# Technology Diffusion Pathway towards Impact at population scale

CONSISTS OF

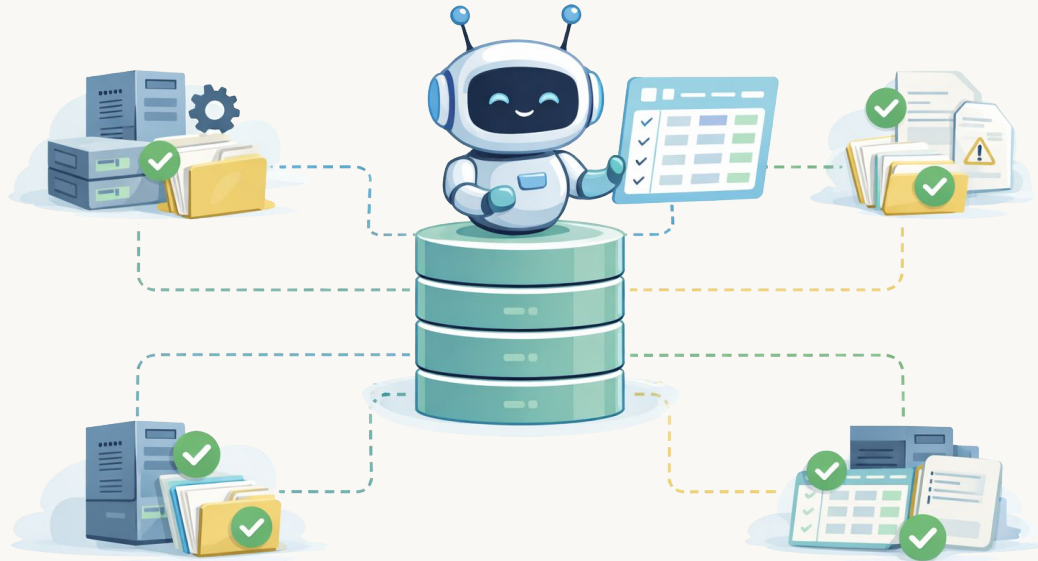


Open Source  
Building Blocks



Collaboration  
Blueprint

# Achieving Standardization with Minimal Effort



Available agentic tech automates schematization and standardization, minimizing manual effort and eliminating the need to redesign legacy data systems

# Early Pest & Disease Warning for Farmers



Farmer's Question: "Is my standing wheat crop at risk of disease this week?"



## IMD Weather

- Humidity: 82% (high)
- Temp: 18-24°C
- Fog days: 4 this week

Granularity: District



## NRSC Crop Monitor

- Crop: Wheat (Rabi)
- Growth stage: Tillering
- NDVI stress signal: Low

Granularity: District



## ICAR Pest Database

- Yellow rust triggers
- Aphid Outbreak conditions
- Stage-wise risk thresholds

Reference: Crop + Conditions



## AI Advisory Engine

Joins on: District · Crop Type · Season  
No PII required



Alert Output: High yellow rust risk this week · Scout crop on Day 2-3 · Apply fungicide if lesions found · Aphid advised



# Diffusion Pathway towards Impact



Open Source  
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Universities

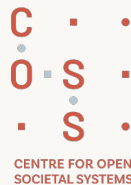


State Mandi  
Systems

Network of states, organization in Public Sector, private sector,  
and Community organizations



Gates  
Foundation



sarvam

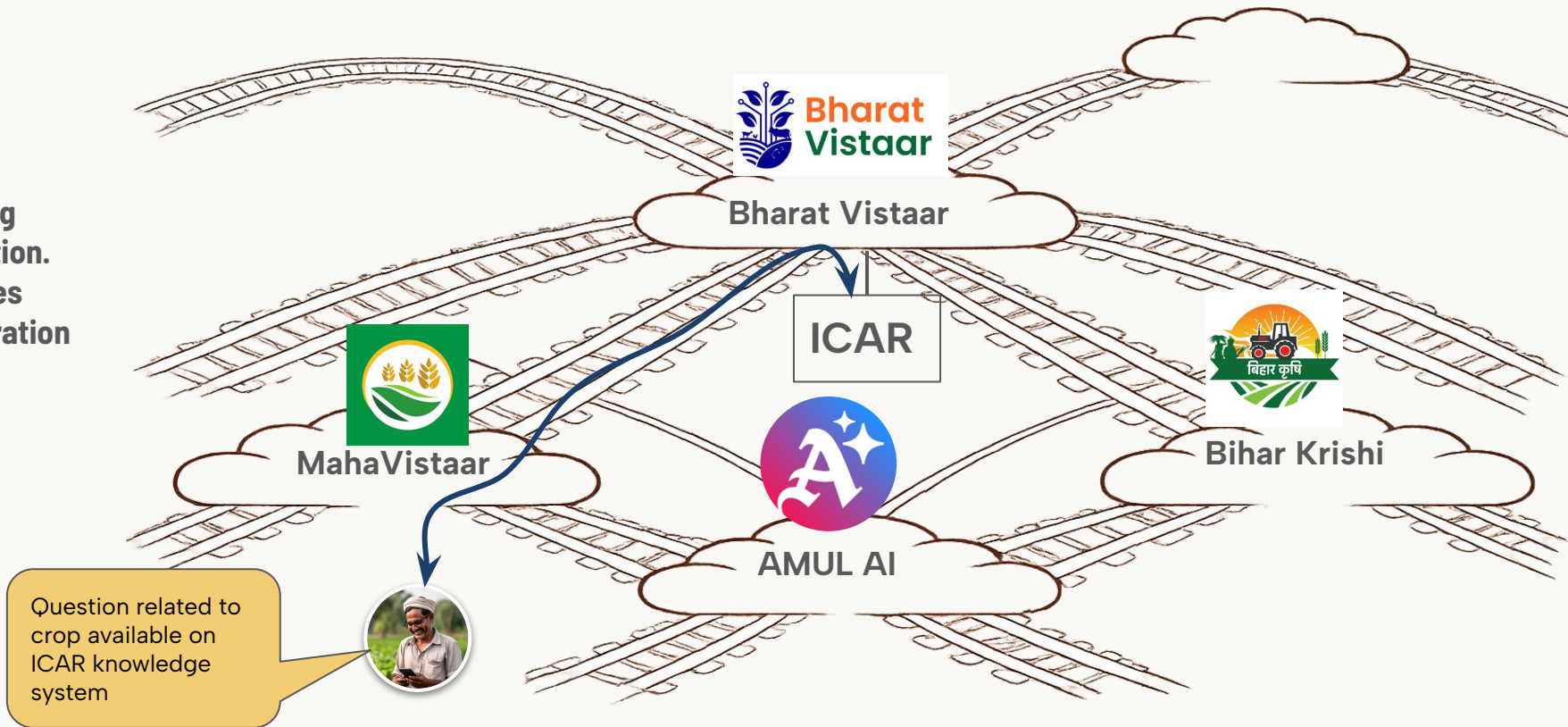


THE WORLD BANK

Network of Organization enabling of coming together

# OAN design principle - Instances leverage institutional data on rails to provide seamless service to farmer

Reducing Duplication.  
Increases Collaboration



# Thank you!

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