

# **DIGITIZATION OF SUGAR SECTOR**

Exploring convergence opportunities with Digital Initiatives of Ministry of Agriculture & Farmers Welfare

**RUCHIKA GUPTA** 

**ADVISOR (AGRICULTURAL STATISTICS)** 

### Power of convergent ecosystems





#### Are they part of an FPO?

SFAC, FPO Registry



Integrated view of schemes availed across various schemes...

Insurance, Income Support, Procurement, Subsidies, DBT, and many more...



### How can we help the sugar sector?

## **Better Estimation**



with a once-a-year special survey during June/July for Sugarcane to capture all crop grown uniquely



Crop Surveyor captures:

- Fresh/Ratoon Crop
- Sowing date
- Season
- Crop Area
- Variety Type



w/h linkage to land parcel





w/h area-wise yield for the crop from GCES

# How can Sugar Department use this data?

- Production estimates well in advance
- Better & more accurate & localized planning for Sugar Mills
- Identify trends at village, district and state-level for better intervention planning
- Visibility on area-wise practices
- Centrally ability to monitor activity using data aggregated at village-level

Most of the top sugarcane producing states are already participating in Digital Crop Survey and Digital General Crop Estimation Survey

#### **Convergence opportunity - Agri Stack & DGCES**

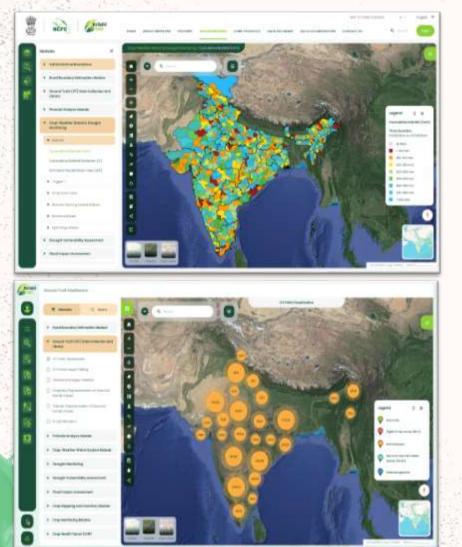


and photograph as proof

## **Better Monitoring**



Using Remote Sensing, Ground Truthing, Weather conditions, and Pest Surveillance



**Crop Weather watch & Drought Monitoring** Integration of weather and drought related information from various sources and creating multiple GIS layers enabling co-relation, analytics, weather related advisory etc.

### Ground Truth Collection Library

Ground truth data from multiple sources such as DCS, GCES, Krishi MApper, SHC, NPSS enabling visualization of farm level information from various systems at one place.



#### Real-time monitoring of trends using ICCC

Monitor trends in Sugarcane for timely interventions and infrastructure planning

Convergence opportunity – ICCC, Krishi DSS, WINDS, NPSS, SHC

## **Better Procurement**



Transparent procurements with ability to monitor diversions

#### **Farmer Registry**

Farmer personal and Demographic details							Land Percets sewand			
Parmer 14	Assilvant	Fature Rome	Failer Rame	Farmer Type	Busidential address	Farmer Photo	District/ Tehall/ Village	Survey Ho.	Faces Id	(In Hactaria)
1756453457	30100303331040	Renault	Ritationalado	Smit	D. Rolaw T. KOP V. Athan		Enlas / RGP / Amu	37	KADAUSIZVANS	8.38
							Enter 7 KOF 7 Arrie	34	EALISTIN/644	0.65
							Kolar / KGP / Childrawibath	#1	KA343558803	6.58
1756433487	200000300000000000000000000000000000000	llarish	Barbakrister a	R4	D Colley Tr KEP V Aller	-	Enter/XOF/Attail	0	KALADOTAD	1.80
							Kolai / KüF / Anar	10	KAMUNTHO I	1.14

#### Estimates based on field data



Verified by remote sensing technologies



Sugarcane procurement from Farmer as per what they have grown

Efficient procurement directly from the farmers and payments directly to their Aadhaar-linked bank accounts

Faster and more transparent procurement from the actual farmer

Convergence opportunity – Agri Stack (Farmer Registry, Digital Crop Survey)



#### And many more possibilities...

### **THANK YOU**