

# Mission IEl CoCE

A Comprehensive,  
Innovative , Result Oriented  
&  
Sustainable Development Programme  
for  
Smart Agriculture & Smart Villages



# Mission Overview

- ***Demand Driven Approach - Distinct from prevailing,***
- ***Practical end objective***
- ***Collective & Collaborative,***
- ***Evolved out of Learning from experiences,***
- ***Developing “Solutions” not design,***
- ***Addressing actual Needs & Requirements,***
- ***360° Involvement - All stakeholders,***
- ***Results Focused – Short, Medium & Long Terms***
- ***Vision***





रानी लक्ष्मी बाई  
केन्द्रीय कृषि विश्वविद्यालय

Rani Lakshmi Bai  
Central Agricultural University



Central  
Agricultural  
University, Imphal



पूर्वोत्तर पर्वतीय विश्वविद्यालय  
NORTH-EASTERN HILL UNIVERSITY  
A Central University Established under the Act of Parliament



Prof Jayashankar  
Telangana Agricultural  
University

## Mission Partners



IIT Delhi



IISc Bangalore



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్  
भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
Indian Institute of Technology Hyderabad

IIT Hyderabad



IIT Guwahati



ABV IIT&M Gwalior



BITS Pilani



DA ICT Gandhinagar



## EU partners



9/30/2022

# Scenario

- *Total Villages in India: 664,369*
- *Area under cultivation – 154 million hectares*
  - *Over 60% rain fed*
  - *Majority small and marginal holdings*
- *Employment – 42% workforce*
- *Contribution to GDP – 18.3%*
- *Wheat, Barley, Gram- India's yield per ha is much lower than the most .*
- *Wheat production (2020) –*
  - *Germany 7,819.5 kg/ha*
  - ***China 5,734 Kg/ha.***
  - ***Punjab 4,868 Kg/ha***
  - *India 3,431 kg/ha*





## Weaknesses - Prevailing System

- ***Silos Syndrome,***
- ***Lack of Need Analysis,***
- ***Lack of cross domain expertise,***
- ***Duplicacy of Efforts,***
- ***Limited Viability Analysis,***
- ***Blurred Sustainability Vision & Plans:***
  - ***Inadequate Plans for Long Term,***
  - ***Post implementation Support,***
  - ***Market spread,***
- ***Inadequate Stakeholders' Involvement.***



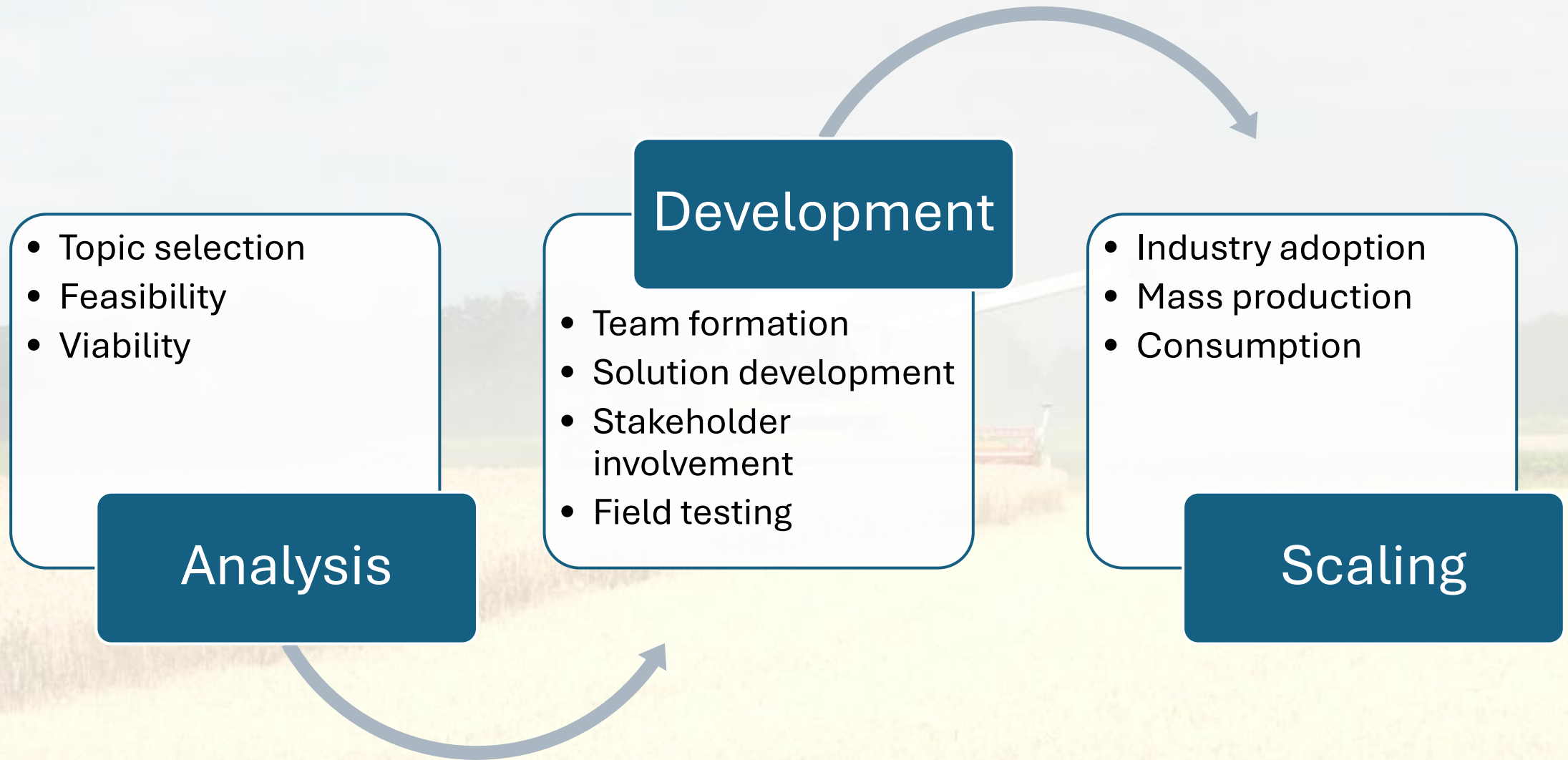
***All focused... in Silos...!!***

# IEI CoCE Key Features – An Improvement over the Prevailing...

- *Demand Driven,*
- *Collaborative & Innovative*
  - *Need & Requirement Analysis,*
  - *Technical Feasibility,*
  - *Hybrid Project Teams - Agriculture & Technology*
  - *Industry – Early Involvement*
- *Special Focus*
  - *Viability - Technical, Operational, Commercial,*
  - *Reusability,*
  - *Sustainability,*
  - *Post Implementation support:*
    - *capture feedback &*
    - *prompt resolution of issue,*
- *KPI:*
  - *Successful Field Implementation,*
  - *Adoption by farmers*
  - *Adoption by Industry.*



# *Process Chain*





# Status

## ***Round 1 Solution Development***

- *22 Topics have been identified in the NR\*\* List,*
- *10 proposals have been submitted to the Ministry of Agriculture & Farmers' Welfare,. Govt of India*
  - *Nine Proposals - Out of the NR Topic List,*
  - *One proposal is - Coordination & Support Actions,*
- *IEI CoCE Member institutes / Universities have developed these proposals, either As Pls or Co-Pls*

***\*\* NR: Needs & Requirements***





# *A journey with a Difference*

- *Unwavering commitment,*
- *Collaborative Efforts,*
- *Teamwork,*
- *Innovative solutions,*
- *Assured Viability,*
- *Long-Term sustainability*



# **Nation Building Thro' Innovation**

**Determined to Succeed**







# Contact

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