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All India Agri Startup Convention 2018

Session: Technology to Startups: Role of Universities and R & D Institutions

Agri-Innovation to Agribusiness :

Connecting the Dots

Dr. Neeru Bhooshan Principal Scientist & In-charge, ZTM & BPD Unit ,New Delhi





Presentation Overview

- 1 Objectives
- 2 Technology Commercialization
- 3 Incubation
- 4 Success Stories
 - Challenges

5





ICAR's 3-tier IPR Management System

Facilitation for Business Planning and Development

ATMC

ZTM&BPD Units(5+5+12)

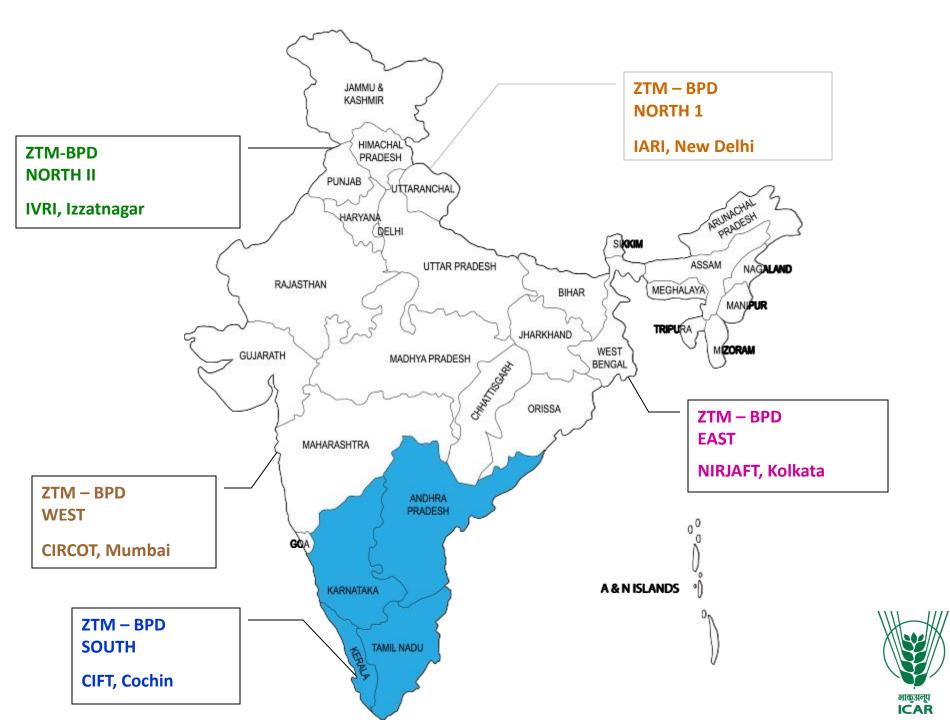
ITMU (100+61)

Top-to-Bottom

- Decision
- Direction
- Execution
- Guidance

Bottom-UP Approach

- Collective Decision Making
- Consultative Decision Making
- Outsourcing



"Translating Research into Prosperity"

ICAR-LARI, ZTTA & BPD

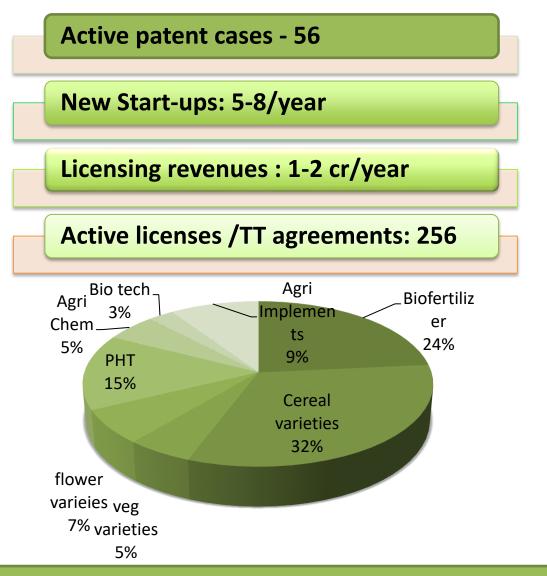


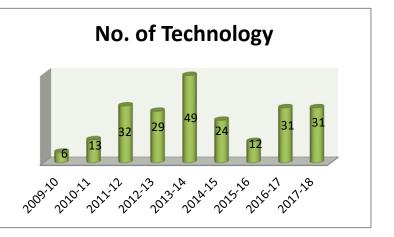
• EDP/ADP

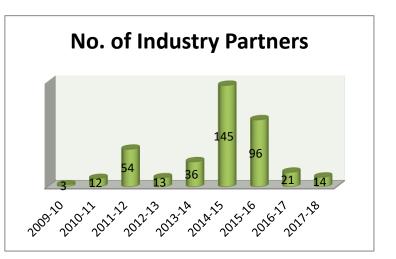
Objectives

- Commercialization of technologies from IARI/ zonal institutes to public /private sector using R&D backup of the institute
- To promote and incubate Innovative technology/ knowledge based startups
- To provide cost effective , value added services to startups like mentoring, legal, technical, IP related, marketing platform Financial linkages etc.
- Capacity Building of prospective entrepreneurs
- To build a vibrant ecosystem by developing network among academia, industry, other institutions , financial institutions etc.

Technology Commercialization /Licensing @ZTM& BPD Unit IARI: A few key numbers

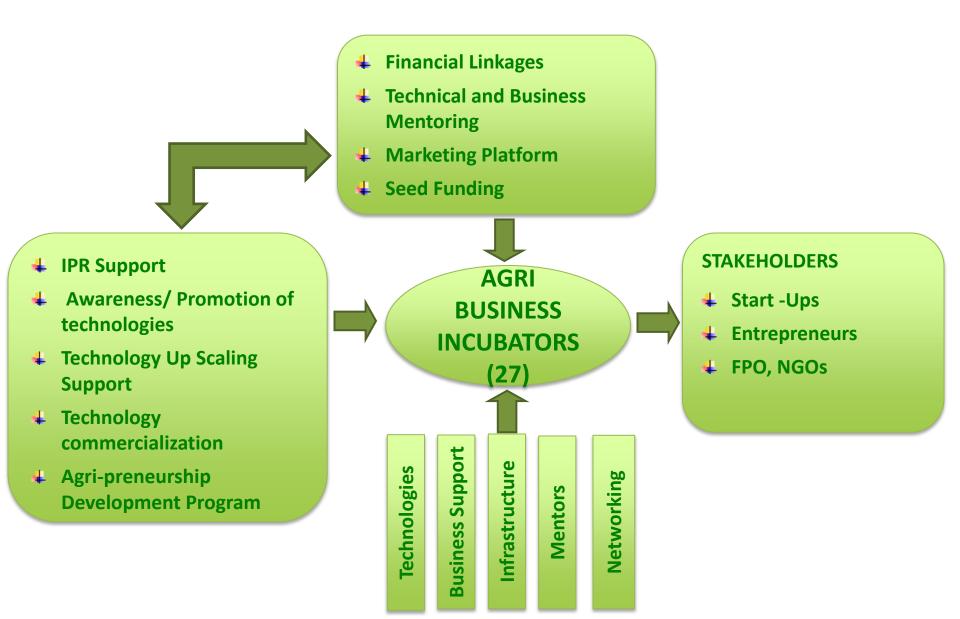






Sector wise: Technologies Commercialized

ABIC: Science to Start ups

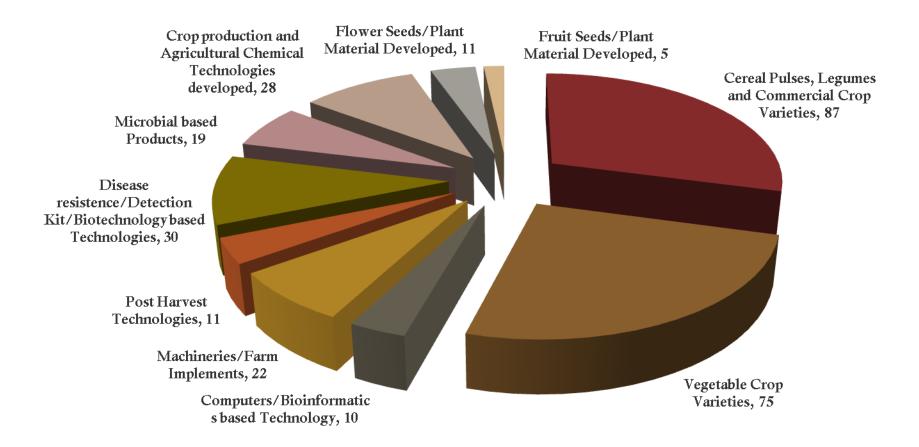


A. TECHNICAL SUPPORT

Technology Commercialization Technology Development (Collaboration Technology Validation and Field Trials Technology Up scaling **Technical Mentoring and Backstopping Agripreneurship Development Programs** (ADPs)



Technology Portfolio



















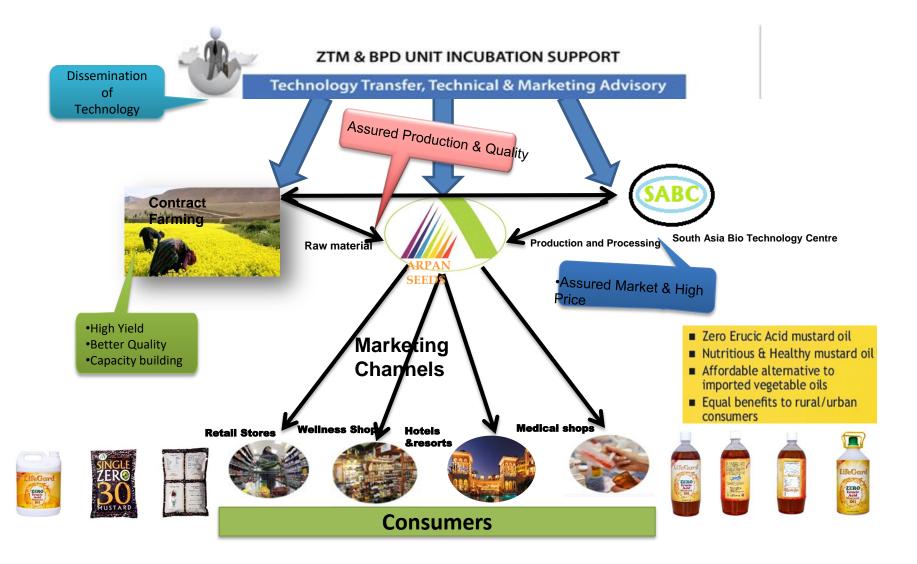








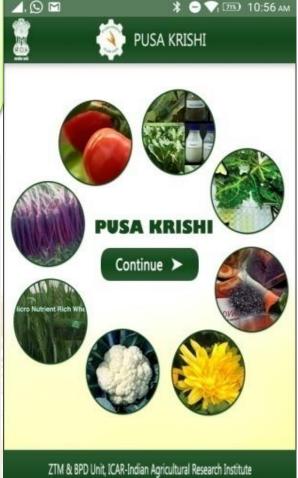
Integrated Seed to Oil Approach



Access to Knowledge and Information PUSA KRISHI : Technology Mobile App

To disseminate information under "Lab to Land" in a big way to all stakeholders on **Technologies Ready for Commercialization**

State Wise Total App Download 7,000 5,600 No of Downloads 4,200 2,800 1,400 RAJASTHAN, 4,313 Raud PUNDAB Dalong AND Magge Haver annuan kashing PUDUCHERRY 4 AVD NISCARDS Actuadday Pages Uld Olle Verley Hind Crat PedoEst Lat Stradures UTAR RAND ANDHER REGEST JHugh Criedalo Machina Peoplesin Maring Contraction of Contraction the providence Tant NaDU TELANCAR UTTAR PEROESH WEST BENGAL DELHI GUARAT Sitching ASSAM GOA Manufactor Control of Control of



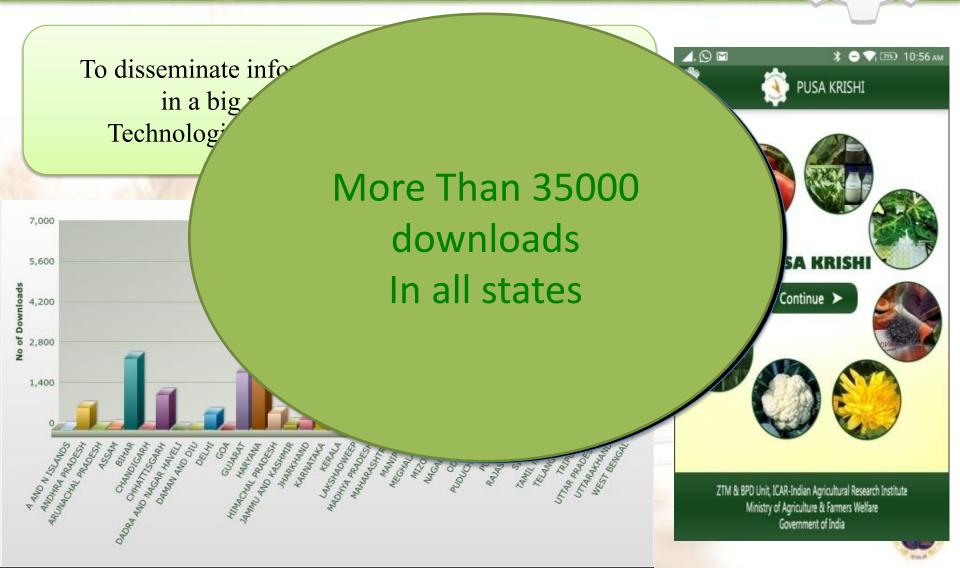
Ministry of Agriculture & Farmers Welfare Government of India

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USA KRISA

CAR-IAR

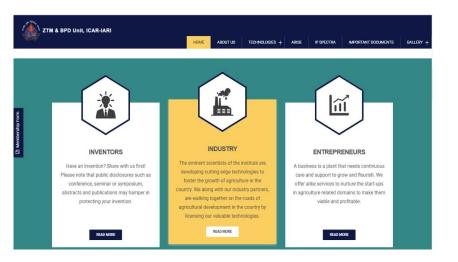
Access to Knowledge and Information PUSA KRISHI : Technology Mobile App



USA KRISK

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Access to Knowledge and Information





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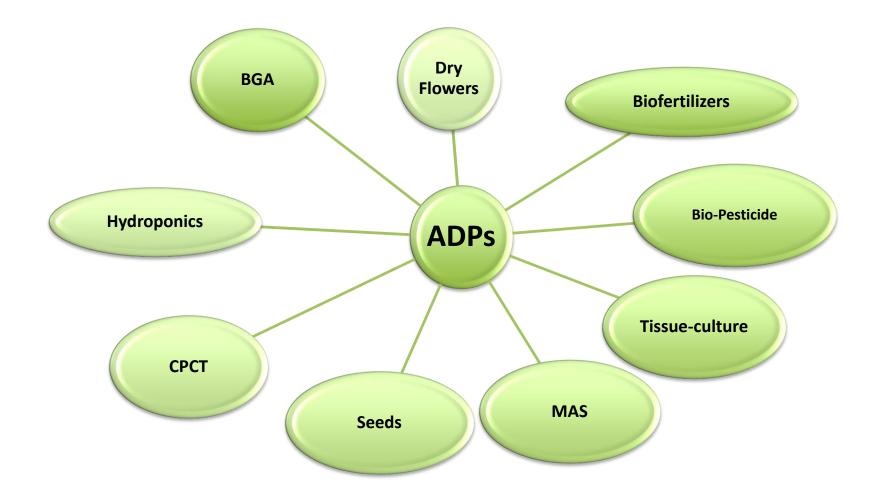
<u>Technology Manual</u> Innovative Technologies for Agribusiness

A. TECHNICAL SUPPORT

- Technology Commercialization
 Technology Development(Collaboration)
 Technology Validation and Field Trials
 Technology Up scaling
- Technical Mentoring and Backstopping
- Agripreneurship Development Programs (ADPs)



Agripreneurship Development Programs (ADPs)



Women Empowerment through ADPs

ADP

on Dry Flower Making **for Women from J & K**







Glimpses of ADPs



B.INFRASTRUCTURE SUPPORT

- Incubation Office space
- Training Room
- Meeting Room
- Conference Room
- Internet and communication facility
- Video conferencing facility
- Well equipped Laboratories: Biotechnology,
- Tissue Culture and PHT



B.INFRASTRUCTURE SUPPORT

- Leveraging of the Institute Strength
- Access to State of Art Facilities of the Institute
- Training to use them
- Networking with other institute



C. BUSINESS SUPPORT

Pre-incubation consultation
B Plan Development facilitation
Training to develop business skills
Business Mentoring
Secretarial Services
Market Assessment / research
IP Services

Fund Facilitation



D. IP SUPPORT

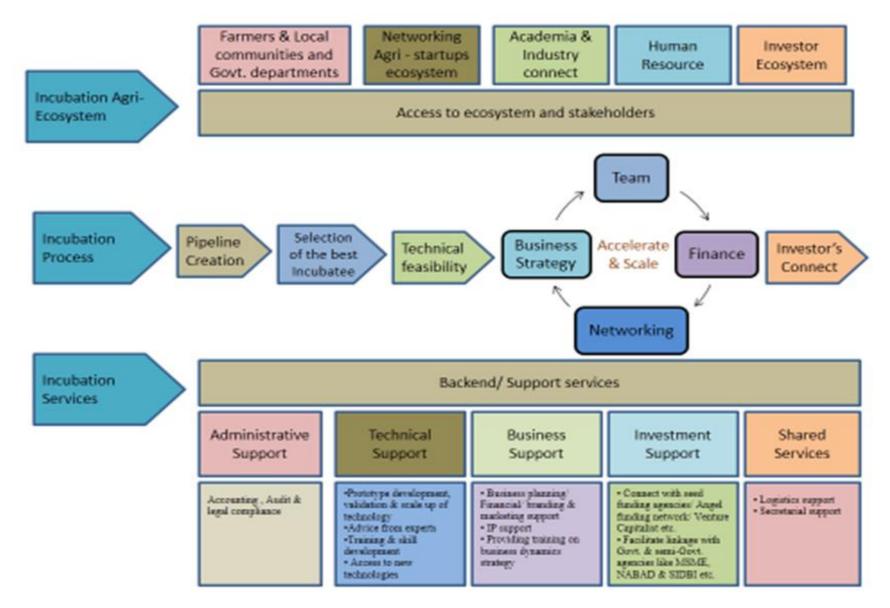


IP Spectra Intellectual Property Facilitation Centre for Agro based MSMEs

Mission

Provide Complete, Cost effective & Quality Intellectual Property services to Agro based MSMEs to safeguard their innovations and business strategies.

Incubation Model



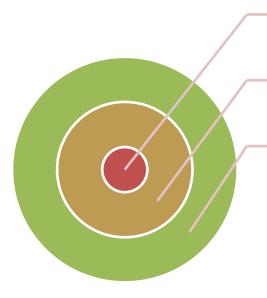
Agriculture Accelerator Programme



Launch Pad for Agri-Startups

Arise: Milestones





22 final proposals 60 Proposals selected after first screening 650 Applications Received

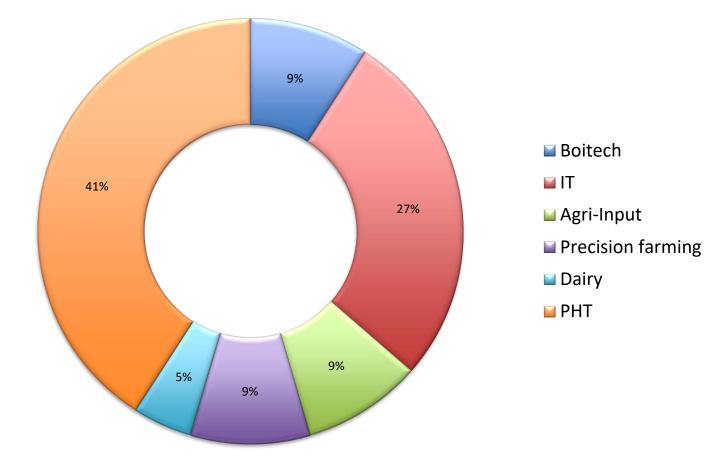
Six days Extensive Business Incubation Workshop

One on One Mentoring Sessions

Fund Facilitation

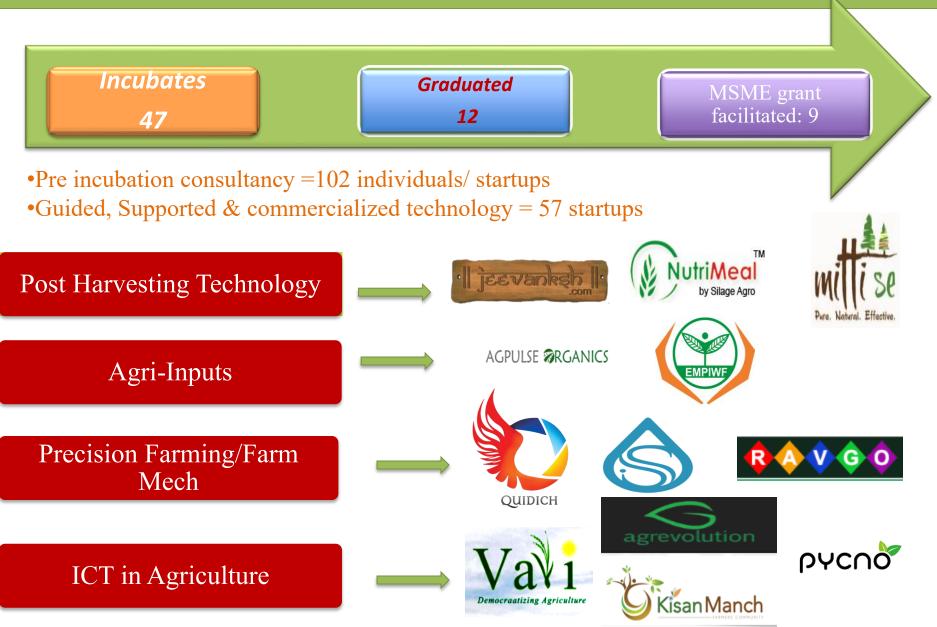
Sector Wise : Incubatees Presence

Launch Pad for Agri-Startups



Agricultural Research Innovations for Sustainable Enterprises

Incubatees' Portfolio



Glimpses of Business Incubation Workshop











Glimpses of Arise Programme



E. Marketing Platform to Incubate Companies





AM visiting INCUBATEES stall



9. Successful Business Ventures: Sickle Innovations

Journey: Rs 5 Lakh (2014)--1.5 Cr. 2017 (Three Quarter)

Developed and tested: Cotton Picking Machine

Launched :4(Cotton picking, Mango picking, apple picking and transplanter)

Established: Manufacturing Unit (Ahmedabad)

Operational Area: North India

Employment: 10, farmers connect 2500, Distributor:3 Dealer: 150

Financial: MSME Grant, CIIE: 10 lakhs





Handheld Cotton Picking Machine

Design Farming Technology





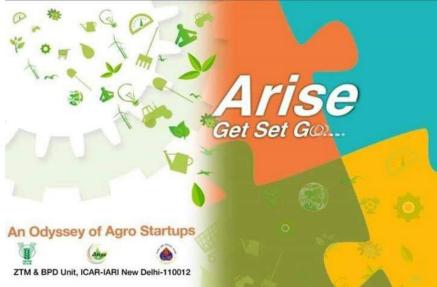
PM Interacting with Our Incubatees



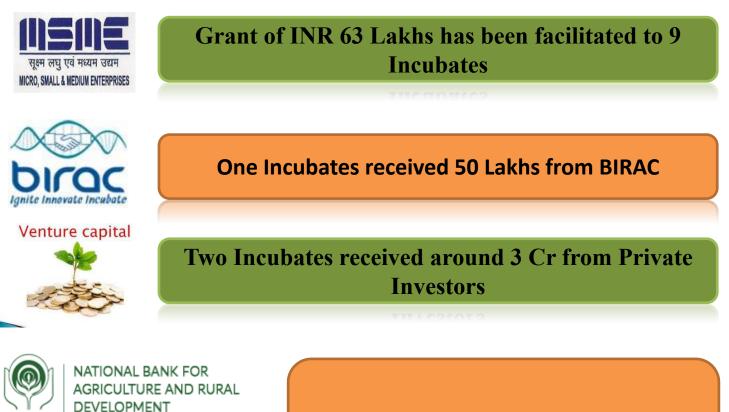
Arise... Get Set Go....!



Launched by Hon'ble President of India during 56th Convocation of ICAR-IARI on 9 Feb, 2018



F. Fund Facilitation to Incubates





NABARD प्रौर्यागिकी विकास बोर्ड

TECHNOLOGY DEVELOPMENT BOARD DEPARTMENT OF SCIENCE & TECHNOLOGY

Connected for funding

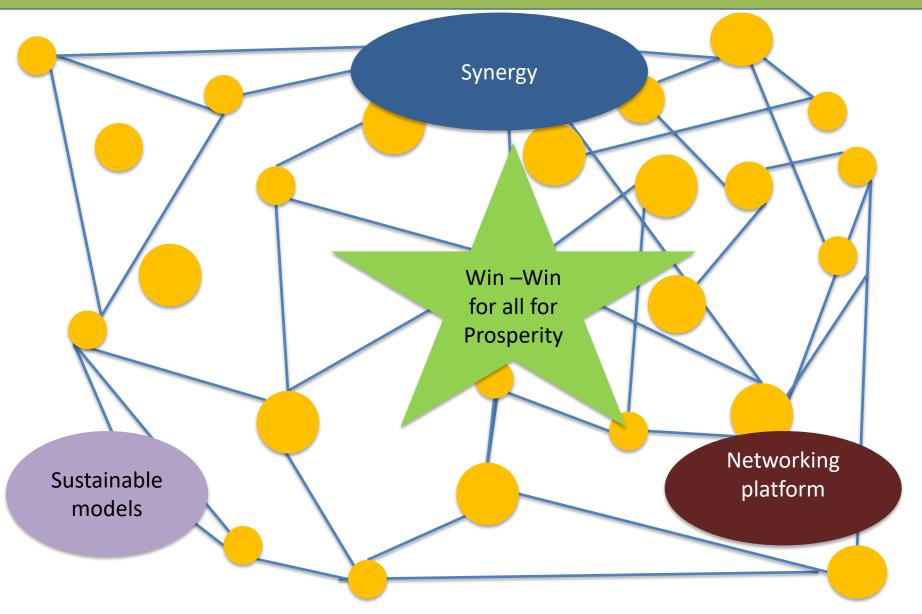
Challenges

- Novelty of the Idea, Nascency of entrepreneurs
- Consistency in products quality
- Startups Focus drift towards on funding
- Lack of appropriate and on time seed funding
- Lack of funding to Business Model related Startups
- Recognition of FPO as startup
- Real Time Industry Connect
- Trained Professionals at incubator level
- Identification of mentors
- Sustainability of Incubator

Way Forward

- Strengthening & Sustainability of Incubator
- Industry Incubator Entrepreneurs Connect
- Testing and Pilot Plant Facilities
- Incubator & funding agency connect
- Capacity building of the incubates at all levels
- Recognition and Reward for Tech Comm & Incubation

Role of ZTM & BPD Unit (Business Incubator & TTO) "Connecting the Dots"



Thank you



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