

# AERO INDIA **STARTUP** MANTHAN 2021

## Event Highlights



5th February, 2021  
0930 Hrs to 1200 Hrs IST



Chandan Singh Aerospace Convention Centre  
(IAF Convention Centre), Bengaluru, Karnataka



# DIGNITARIES



Hon'ble Raksha Mantri  
**Sh. Rajnath Singh**



**General Bipin Rawat**  
Chief of Defence  
Staff,  
Indian Defence



**Dr. Ajay Kumar**  
Secretary,  
Ministry of Defence



**Sh. Raj Kumar**  
Secretary,  
Dept. of Defence  
Production



**Sh. Lt. Gen. Shantanu Dayal**  
Deputy Chief of  
the Army Staff,  
Indian Army



**Sh. Sanjay Jaju**  
Additional Secretary,  
Dept. of Defence Production  
CEO, iDEX - Defence  
Innovation Organisation



**Sh. Anurag Bajpai**  
Joint Secretary,  
Dept. of Defence Production  
Additional CEO, iDEX - Defence  
Innovation Organisation

## Convener

# ORGANISERS

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## **Sh. Vivek Virmani**

Planning Officer, Dept.of Defence Production, Min. of Defence,  
Chief Operating Officer, iDEX - Defence Innovation Organisation (DIO)

## **Sh. Mudit Narain**

CTO, Office of the Principal Scientific Advisor, Govt. of India  
Advisor, iDEX - Defence Innovation Organisation (DIO)

## **[Event Host & Master of Ceremonies]**

## **Sh. Vish Sahasranamam**

Cofounder & CEO, Forge (iDEX Partner Incubator)

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# ORGANISERS

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## DIO

**Col. Arvind Kumar**

Program Director, DIO

**Cdr. Suchin Jain**

Program Director, DIO

**M N Saquib Khan**

Program Executive, DIO

**Abhishek Singh**

Program Executive, DIO

**Vishnoo Prathap Sa.K**

Program Executive, DIO

**Saurabh Boyar**

Program Executive, DIO

**Mallika Bhasin**

Program Executive, DIO

## Forge

**Vignesh Radhakrishnan**

Program Manager, Forge

**Pratheep Chinnasamy**

Program Associate, Forge

**10**

Startup Showcase

**150+**

Live Participants

**20K+**

Virtual Participants

**15**

DISC 4  
Winners

**11**

iDEX4Fauji  
Winners

**9**

Open Challenge  
Winners





# STARTUP WALKTHROUGH

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10 Aerospace and Defence Startups showcased their products to Hon'ble Raksha Mantri

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Sh. Rajnath Singh and other delegates interacted with the Aerospace & Defence Startups and experienced the demo of See-through Armour System on ICV-BMP 2



**Skyroot Aerospace**



**Nyokas Technologies**



**Gurutvaa Systems**



**D-ESPAT**

# STARTUP WALKTHROUGH

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**Chipspirit Technologies**



**Tonbo Imaging**



**Big Bang Boom Solutions**



**Dimension NXG**



**Saif Automation Services**



**Torus Robotics**



# INAUGURAL SESSION



## **Presidential Address**

Hon'ble Raksha Mantri, Sh. Rajnath Singh



## **Keynote Address**

Sh. Raj Kumar, Secretary, DDP



## **Keynote Address**

Dr. Ajay Kumar, Secretary, MoD



iDEX Dashboard (Grant Management Portal) was launched  
by **Hon'ble Raksha Mantri, Sh. Rajnath Singh**



# FELICITATION OF IDEX4FAUJI WINNERS



## IDEX4Fauji

Felicitation of winners by Hon'ble Raksha Mantri

### Army

#### Maj Anoop Mishra

Wall Penetrating Radar

#### Capt Rajprasad RS

Xploder – Unmanned IED Disposal ROV

#### Lt Col Anant Bhatt

Cervical Cancer Detection Using AI

#### Capt Vivek Ram HV

Autonomous Drone Based System

#### Capt Rajprasad RS

Tactical Surveillance & Reconnaissance System

#### Maj Vijendra Singh Yadav

Synthetic Training Environment

### Navy

#### Lt Deepak Suman Kumar

Robotics in Maritime applications

#### Lt Cdr Alok Sahoo

Inspection of pipelines & ventilation trunkings

#### Lt Cdr Mayank Sharma

Design of portable compact system

### Airforce

#### Wing Commander PK Mishra

Remotely Piloted Vehicle Range Extension

#### Group Captain Pushpinder Kashyap

Design of a Mobile Missile Testing Station

# FELICITATION OF OPEN CHALLENGE 1.0 WINNERS

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**Open Challenge 1.0**  
Felicitation of winners by Hon'ble Raksha Mantri

## **Starbru Techsystems**

Next gen communication over existing radio network

## **Hyper Stealth Technologies**

Adaptive Stealth

## **Okulo Aerospace**

Long Endurance Aerial Surveillance Platform

## **Avision Systems**

Smart Loitering Munitions for Airforce and Navy

## **Tunga Services**

AI-Based Compiler for verifying and optimizing mission-critical s/w

## **Newspace Research and Technologies Private Limited**

Air-Launched Flexible Asset -Swarm Drones & High Altitude Pseudo Satellite

## **Fabheads Automation**

High-performance Light-Weight Carbon Composite Helicopter Blades

# FELICITATION OF DISC 4 WINNERS



**Defence India Startup Challenge 4**  
Felicitation of winners by Hon'ble Raksha Mantri

## **CYRAN AI Solutions**

AI based Satellite Image Analysis

## **Collaborative Intelligence**

AI based Satellite Image Analysis

## **Skyroot Aerospace**

Foliage Penetration Radar

## **Optimized Electrotech**

Foliage Penetration Radar

## **Sagar Defence**

Autonomous Underwater Swarm Drones

## **QED**

Predictive, & Preventive Machine Monitoring

## **Flutura + Sunlux**

Predictive, & Preventive Machine Monitoring

## **Exact Space Technology**

Predictive, & Preventive Machine Monitoring

## **Mr Venkatanathan Nataranjan**

Prediction of Atmospheric Visibility

## **Puzzles India Technology**

Prediction of Atmospheric Visibility

## **Oxygen 2 Innovation**

Computerized Targets for Virtual Training

## **AATWRI Group Aerospace and Defence**

Computerized Targets for Virtual Training

## **Mr. Swaroop Sahoo**

Target Detection in Chaff Environment

## **Zeus Numerix**

Reduction of RCS of Naval Warships

## **Av Garde Systems**

Reduction of RCS of Naval Warships

# VOICES AND VIEWS OF GLOBAL STAKEHOLDERS

## Part 1



'Decoding the Key Success Factors of the AFWERX organizational and operating model'

**Col Nathan P. Diller**  
Director, AFWERX, USAF



'Building and scaling a defence tech venture in/from India'

**Ankit Mehta**  
CEO, IdeaForge



'Lessons & Inspirations from the Startup Nation'

**Yoni Ben Zaken,**  
CEO and Founder, Cirrus Clouds Ventures, Israel



'Building Tech Unicorns in the Indian Defence & Aerospace sector'

**Sh. Mohandas Pai**  
Chairman Aarin Capital & Manipal Global Education.



'Featuring 2/3 top case-studies from DIU'

**Dr Matt Goldman**  
Director - Future Capabilities, DIU



'Defence & Aerospace: Final Frontier for Indian DeepTech Startups - Vision & Opportunities'

**Sh. Rajan Anandan**  
Managing Director, Sequoia Capital and Surge



# GOVERNMENT AND STARTUPS SYNERGY

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Session moderated by **Sh. Sanjay Jaju**, Additional Secretary, Dept. of Defence Production



**Sh. V.L Kantha Rao**  
Director General - Acquisition, MoD



**Sh. Jayesh Ranjan**  
Principal Secretary, I&C and IT Dept.,  
Govt of Telangana.

# STARTUP SPOTLIGHT

## Showcase of select 5 iDEX Winners (Innovators)



### Flutura + Sunlux

DISC 4 - Predictive Preventive and Prescriptive Machine Monitoring



### Optimized Electrotech

DISC 4 - Foliage Penetration Radar



### Sagar Defence Engineering

DISC 4 - Autonomous Underwater Swarm Drones



### Starbru Techsystems

Open Challenge 1.0



### AVision

Open Challenge 1.0



# VOICES AND VIEWS OF GLOBAL STAKEHOLDERS

## Part 2



'Role of incubators in nurturing world-class technologies & seeding ventures in defence.'

**Prof. B. Gurumoorthy**  
CEO, SID, IISc



'Looming over the horizon is India's Startup Decade'

**Sh. Ramanathan Ramanan**  
Addl Secy, NITI Aayog, Govt. of India, and MD, AIM



Global Influencers Perspectives

**Steve Blank**

Renowned Global Entrepreneurship Guru & Adjunct Professor, Stanford University



Global Influencers Perspectives

**John T. Chambers**

Founder and Chairman, JC2 Ventures and  
Chairman, USISPF



Global Influencers Perspectives

**Prof. Sunil Gupta**

Edward W. Carter Professor of Business,  
Harvard Business School.

# LEADERSHIP VIEWS FROM TRISERVICES

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**General Bipin Rawat**  
Chief of Defence Staff



**Admiral Karambhir Singh**  
Chief of the Naval Staff



**Air Chief Marshal RKS Bhadauria**  
Chief of the Air Staff



**General MM Naravane**  
Chief of the Army Staff



# VALEDICTION

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Valedictory Note  
**Sh. Vish Sahasranamam**  
CEO & Co-Founder, Forge



Startup Manthan 2021 organising team from **Defence Innovation Organisation** and **Forge**

[ Left to Right : Sh. Vish Sahasranamam, Pratheep C, Vignesh R, M N Saquib Khan,  
Sh. Vivek Virmani, Sh. Anurag Bajpai, Col. Arvind Kumar, Cdr. Suchin Jain, Abhishek Singh ]



2021

# AERO INDIA

The Runway to a Billion Opportunities



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