



# HELPING BUILD A SECURE NATION

**adani**  
Defence and  
Aerospace



# Vision

To be a world-class leader in businesses that enrich lives and contribute to nations in building infrastructure through sustainable value creation.

# Mission

To be a **global leader in defence and aerospace**, helping India transform into a destination for world-class and hi-tech defence manufacturing aligned to the **'Make in India'** initiative.

## A quick glance

Adani Group's performance for the financial year 19-20. Our diversified businesses have been working round the clock to meet our core objective, that is of Nation Building.

Workforce 16,000+	Renewable Power 2.95 <sup>GW*</sup>	Solar Manufacturing 1.5 <sup>GW</sup>	Cargo Handled 223 <sup>MMT</sup>
City Gas Distribution 582 <sup>MMSCM</sup>	Transmission 12200 <sup>CKM*</sup>	Agri Fresh 20,000 <sup>MT</sup>	Edible Oil 18.5% <sup>Market Share</sup>
Thermal Power Generation 12.41	Realty 13.7 <sup>MN SQ FT</sup>	NBFC 21,500 <sup>Customers</sup>	Natural Resources 78.7 <sup>MMT</sup>
Integrated Resource Management 15.5 <sup>MMT</sup>			

Ports and Logistics | Power | Transmission | Renewables | Natural Resources | Gas Distribution  
Integrated Resource Management | Real Estate | NBFC | Defence and Aerospace







## Strategic imperatives to help India achieve self-reliance in defence & security

Focus on **platforms and technologies** of critical importance to meet emerging security & defence needs of India, and further leverage capabilities for the civil domain.

Set up an **ecosystem of capabilities** through investment in MSMEs, Start-up incubators in India, with unique products and technologies which will help absorb and build technologies.

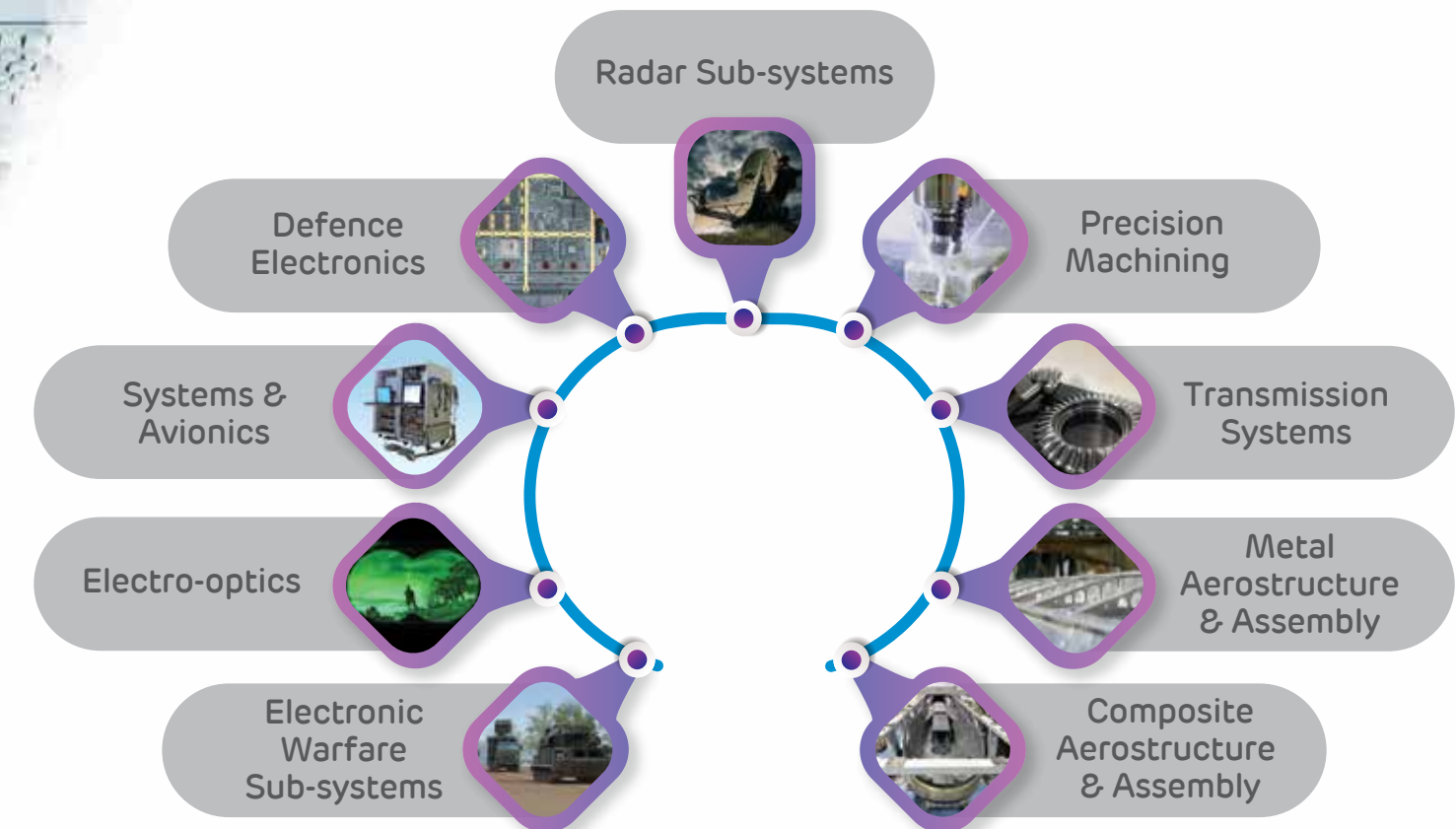
Collaborate with **credible and committed global partners** for India and international markets, willing to transfer true technology to India.

Set up facilities and capabilities which are global, **facilitate exports** furthering the objective of reducing the net current account deficit for India and bringing India on the global export map.





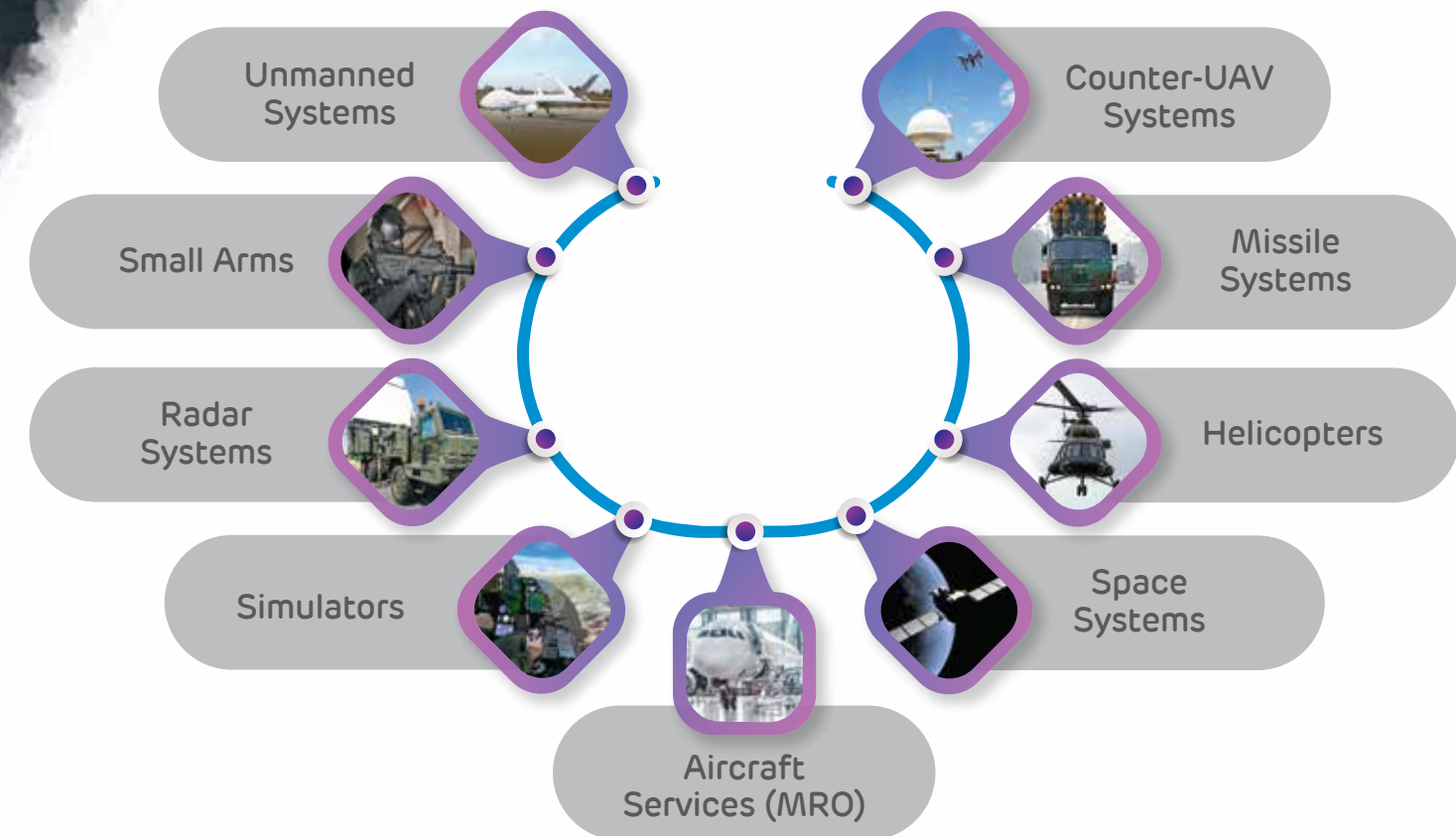
Adani has set up a robust ecosystem of capabilities







Adani is well-positioned for integration of larger platforms



# UNMANNED AERIAL SYSTEMS



India's only private sector  
military UAV manufacturer  
exporting to global markets



Hermes 900  
MALE UAV



Hermes 450  
Tactical UAV



Sky Striker  
Tactical Loitering Munition



Skylark  
Tactical Mini UAV



Thor  
VTOL Low Altitude UAV



Long Endurance Quadcopter  
AI Based Swarm Technology

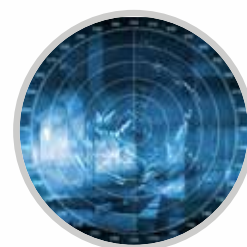


# COUNTER DRONES

Versatile & proven solutions  
for rogue drone intrusions



EO / IR



Radar



SIGINT



Jammer

- Detects and classifies all commercial drones
- 360° coverage - locates drone and operator
- Defeats drone communications and GNSS
- Handles multiple drones simultaneously
- 24/7 operation with or without operators
- Automatic or manual jamming
- Smart jammer with waveform control
- Drone take-over and safe landing
- Advanced C2 fully controlling all connected sensors



Soft Kill



Hard Kill



# SMALL ARMS & AMMUNITION

Innovative small arms and  
ammunition for modern  
battlefield



MASADA (Striker Fired Pistol)  
9x19mm



UZI PRO (Sub-machine Gun)  
9x19mm



ACE (Assault Rifle)  
9x19mm | 5.45x39mm  
| 5.56x45mm



TAVOR (Assualt Rifle)  
5.56x45mm | 7.6x51mm



NEGEV (Light Machine Gun)  
5.56x45mm | 7.62x51mm



GALIL (Sniper Rifle)  
7.62x51mm



# AIRCRAFT SERVICES

Image courtesy: HAL

Adani is building a comprehensive ecosystem of Aircraft Services including Maintenance, Repair & Overhaul (MRO)

- Structure Maintenance
- Component Maintenance
- Engine maintenance
- Professional training including simulators
- Supply Chain Management
- Digital Solutions & Analytics
- Airport services



# MISSILE SYSTEMS



## Development & production of critical missile platforms

- RF Seeker Assembly
- On Board Computer
- Missile Launch Processor
- Integration Rig
- Target and Missile Tracking and Coordinate System
- Automated Launch Computing System
- Thrust Vector Control Assemblies
- Missile Command Generating System
- Launcher Positioning and Control System
- System Design, Analysis, Prototyping, Ruggedization and Re-engineering
- Mechanical Enclosure Design, Thermal & Structural Analysis
- System Integration

Image courtesy: DRDO



# RADAR SYSTEMS

A large military radar truck is shown from a low angle, parked on a gravel surface. The truck is olive green and has a large white radar antenna mounted on its back. The sky is clear blue, and there is a white cloud-like graphic element on the right side of the image.

## In-house capabilities on radar technologies

- Transmitter Systems
- Receiver Systems
- Antennae Systems
- Display Systems
- Computing Systems
- Radar Weapon Interface Units
- IFF Systems
- AESA Radar Sub-systems
- Phased Array Sub-systems
- Radar System
  - Assembly, Integration, Testing and Supply of Fire Control Radar
- Engineering Capabilities
  - System Design, Analysis, Prototyping and Re-engineering
  - Mechanical Enclosure Design, Thermal & Structural Analysis
  - System Integration



# SPACE SYSTEMS

A large satellite with two long, rectangular solar panel arrays is shown in orbit above the Earth's horizon. The satellite's central body is complex, with various instruments and antennas visible. The Earth's blue and white atmosphere curves along the horizon, while the background is the black void of space with some distant stars.

## India's first private sector company to integrate satellites

- Trained manpower in Space Electronics
- Independent Satellite Building Capability
- System Engineering of Ground Electronics for Satellite Networks
- Design, development and supply of Satellite Radio Equipment
- Design, development and supply of Transportable Communication Terminals
- Satellite Communication Networks
- Design and development of Antennae Tracking System
- Antennae for C/Ku Bands
- Operation and maintenance of large Infra Networks
- State-wide Disaster Management System
- Design, development and supply of Mobile 4G Network
- Skill-set to design & manufacture NavIC based products for Tacking & Situational Awareness
- Mobile Satellite Systems based products



# SIMULATORS

## Simulators for multi-dimensional warfare



### Aircraft Simulators

- Build, install, operate and maintain full motion simulators (MiG 17 & MiG 29) for the Indian Air Force



### Combat Vehicle Simulators

- Design, develop, deploy and operate simulator for BMP-II Infantry Combat Vehicles



### Naval Simulators

- Design, develop and installation of integrated bridge simulators incorporating 29 types of vessels and 30 harbours



# HELICOPTERS

Image courtesy: HAL

Robust ecosystem  
enabling India's  
indigenisation needs for  
rotary platforms

- **Aerostructures**
- **Avionics**
  - Digital Voice Recorder
  - Transponders
  - Turnkey Avionics upgrade programmes
  - MAWS (Missile Approach Warning Systems)
  - IFF
  - MFDs
  - Integration of Avionics Systems
  - EW Suite
- **Engineering Capabilities**
  - System Design, Analysis, Prototyping, Ruggedization and Re-engineering
  - Mechanical Enclosure Design, Thermal & Structural Analysis
  - System Integration
- **Full Motion Simulators**
- **MRO of Mi-17 variants**
- **Upgrade & Integration**



# INFRASTRUCTURE

Helping India emerge as a world-class destination for defence manufacturing

## Adani Aerospace Park, Hyderabad

Assembly, Integration and Testing of UAVs

- Composite Aerostructure manufacturing
- Electro-mechanical systems integration
- High precision machining
- Composite certification and training centre

## Defence Production and R&D, Bangalore

- Systems, Avionics & Aerostructure production facility
- 1500+ Skilled manpower and 150+ R&D Engineers
- 22 Customer Operation Locations

## Adani Defence Cluster, Mundra

- 2.3 Km Long Operational Airfield
- Special Economic Zone
- Connectivity To Rail, Road & National Highway
- Uninterrupted Access To Power, Water & Other Utilities





# SAFETY AND QUALITY



Adani follows an integrated approach to safety, quality, health & environment management

## Safety

In the upliftment of people lies the growth of the country and in their happiness, thrives our impetus to do good. The Adani Group has established an Occupational Health and Safety (OH&S) Policy and a Safety Manual and has also identified the legal requirements in the legal register, as well as in operation and maintenance activities ensuring that concerns of health and safety steer clear of our journey towards realising dreams. There is a Corporate Safety Group under the CEO's guidance, monitoring safety at all sites. In a nutshell, all possible safety precautions are being observed and taken into consideration to meet the global standards in safety management systems. Our sites go beyond statutory requirements to achieve continual improvement year after year. This effort has been recognised in the form of awards and accolades from many organisations and safety forums.

## Quality

Adani Group has been delivering world-class quality across the entire spectrum ranging from Large-Scale Power plants to High Precision Solar module manufacturing. Adani Group ensures highest level of quality through interventions at 3 levels: Compliance, Culture & Focused Improvement. Our commitment is to never compromise on compliance and quality of our products and services. Globally recognised quality certifications from the most stringent agencies is a validation of our continuous drive towards quality excellence:

- AS 9100D
- CEMILAC
- ISO 9001 / 14001
- NABL Accreditation
- EADS / DIEHL / SML-3
- Elbit Systems / IWI
- NADCAP certified for FPI
- Full Product Testing facility for small arms



# COMMUNITY BUILDING



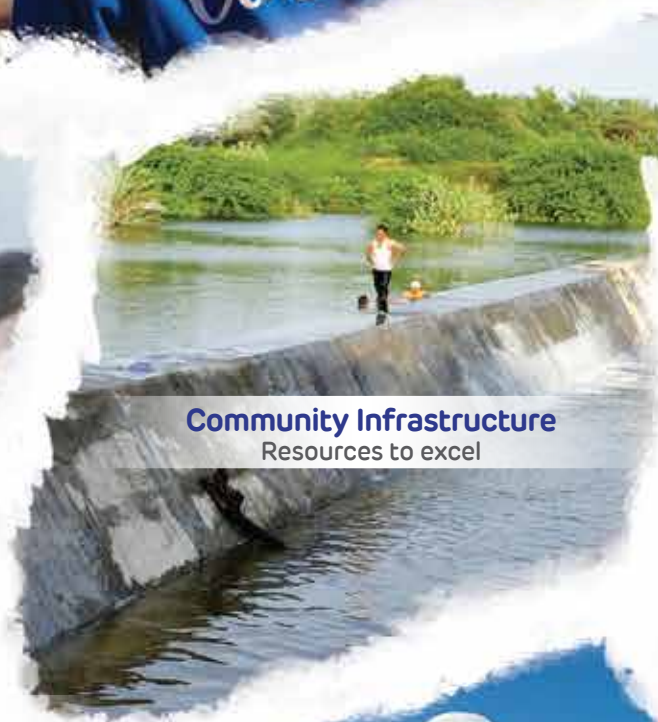
**Udaan**  
The flight of inspiration



**Swachhagraha**  
A culture of cleanliness



**Education**  
The road to sustained growth



**Community Infrastructure**  
Resources to excel



**SuPoshan**  
A quest against malnutrition



**Health**  
A holistic approach



**Saksham**  
An eco-system of skill-based training



**Sustainable Livelihood**  
The spirit of self-reliance

## Sustainable Growth with Goodness

Goodness is not subject to sporadic appearances. It is a practise that ought to be ingrained in those who truly believe in it. We, at Adani, leave no stone unturned to bring happiness and livelihood at every step of our journey of Nation Building. The Adani Group invests about 2% of its total profit in various social initiatives through its CSR arm, Adani Foundation with an aim to lead the

wave of goodness at grassroot levels. It exhibits the humane, compassionate and benevolent side of the company. Adani Foundation is touching more than 3.4 million lives in 2315 villages across 18 states through its work in Education Community Health, Community Infrastructure Development and Sustainable Livelihood Development.



**Adani Corporate House**  
Shantigram, S G Highway  
Ahmedabad - 382 421  
Gujarat, India  
Ph: +91 79 2555 6815