



FUTURE TRENDS IN NAVAL MULTIROLE HELICOPTERS

AIRBUS HELICOPTERS IN INDIA

April 2016

Commercial In Confidence



IT IS IMPORTANT TO IDENTIFY RIGHT TECHNOLOGIES AND COLLABORATION WITH THE RIGHT GLOBAL PARTNER



- Unparalleled experience in proven battle tested helicopter technology leveraging brand image of a global aerospace & Defence leader
- Constant development and innovation on airborne platforms to deliver most performing, efficient and safe civil and military helicopter solutions to customers
- Wide range of helicopters to address all market requirements
- Past record of the global partner to collaborate with local industry and operators
- Worldwide presence to sustain the industrial eco-system with global supply chain
- Willingness to transfer technology for local production

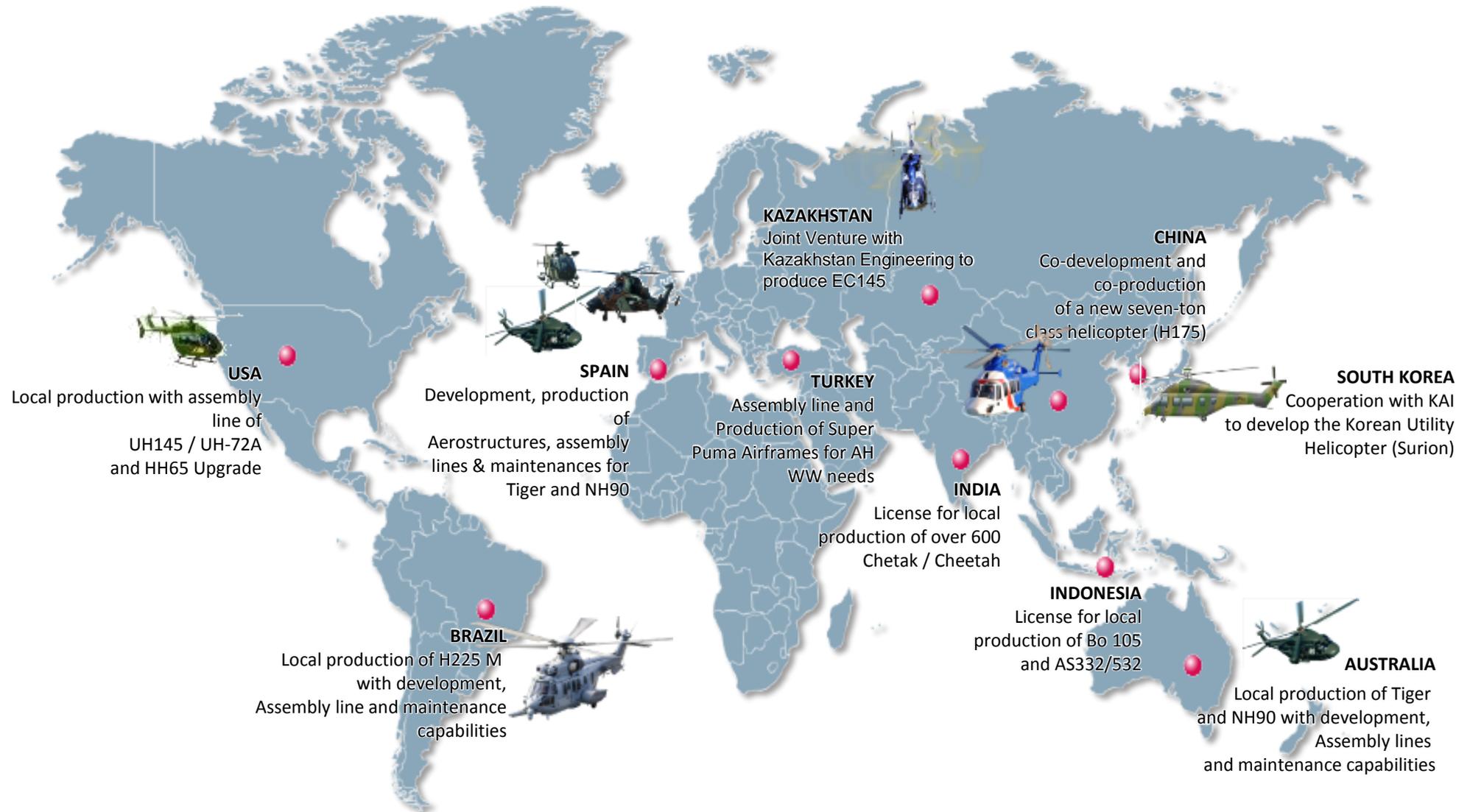


COMPREHENSIVE RANGE OF NAVAL HELICOPTERS - 60 YEARS OF EXPERIENCE





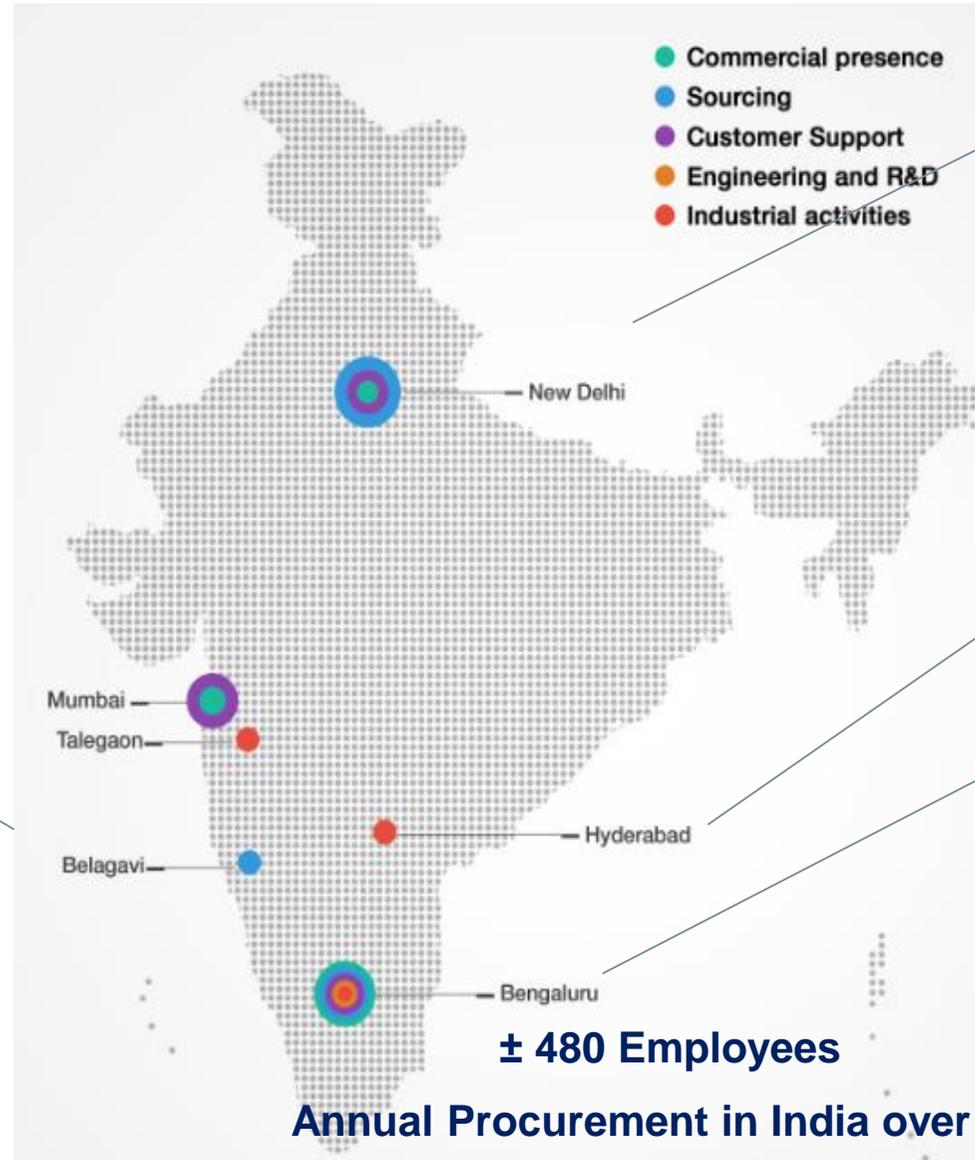
IMPORTANCE OF PROVEN TRACK RECORD IN GLOBAL INDUSTRIAL COOPERATION FOR PLATFORM AND SYSTEMS



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IN INDIA - DEVELOPING AN ECO-SYSTEM FOR LONG-TERM SELF-RELIANCE



Mumbai

- Commercial presence**
Airbus Helicopters
- Customer support**
Airbus Helicopters
Spares Support
Airbus

Talegaon (Pune)

- Industrial activities**
JV Airbus Defence (Cassidian) - L&T

Belagavi

- Industrial activities**
Manufacturing activity with Aques

New Delhi

- Commercial presence**
Airbus Group
Airbus Helicopters
Airbus Defence & Space
Customer Support
Pilot Training Center
MBDA
- Sourcing**
Sourcing Office

Hyderabad

- Industrial activities**
Mfg. activity with Tata
MBDA with BDL

Bengaluru

- Engineering Activities**
Airbus Engineering Center
- Industrial activities**
Cassidian Engineering
Astrium with ISRO
- Airbus with HAL**
Manufacturing with Dynamics
- Sourcing**
Sourcing Office

EXPERIENCE IN TRANSITIONING LARGE SCALE PROGRAMS TO INDIA



TO ADDRESS THE MAKE IN INDIA VISION – AIRBUS HELICOPTERS & MAHINDRA DEFENCE HAVE TEAMED UP FOR MILITARY PROGRAMS

- Objective to **become the Private National Champion** for helicopter platforms
- Offering to **establish in India a state-of-the-art industrial cluster to locally produce and deliver:**
 - **EC725 (H225M)** for the foreseen Naval Multi Role Helicopters ('NMRH')
 - **Panther (AS565 MBe)** in response to the Naval Utility Helicopters ('NUH')
 - **Fennec (H125M)** for Reconnaissance and Surveillance Helicopters ('RSH')

To achieve this mission, the Joint Venture will:

- Set up a robust & **efficient Indian helicopter industrial base**
- Transfer **State of the Art technologies** from Airbus Helicopters & its suppliers
- **Ensure self reliance & competitiveness of the Indian helicopter manufacturing ecosystem**
- **Enhance competence in life cycle management** of helicopters together with Indian companies including DPSU's & MSME's





OPERATIONAL CHARACTERISTICS - NAVAL MULTI ROLE HELICOPTER



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CAPABILITY OF MULTI-ROLE EMBARKED HELICOPTER – QUICK ROLE CHANGE COVERING ALL MISSIONS IN THE 1 HELO / 1 FRIGATE CONCEPT.

H225 M in naval warfare missions

H225 M covers MARSEC missions spectrum

- **Anti Submarine Warfare (ASW)**
- **Anti Surface unit Warfare (ASuW)**
- **Airborne Early Warning (AEW)**
- **Intelligence (ELINT)**



- **Exclusive Economic Zone (EEZ) surveillance & control.**
- **Delivery / recovery of boarding party (6 TO 10 CDO's).**
- **Maritime Counter- Terrorism & Piracy (MCT – MCP).**
- **Search And Rescue (SAR).**
- **Medical & Casualty Evacuation (MEDEVAC & CASEVAC).**
- **Assistance to disabled ship.**
- **Fight against pollution**
- **Ship Vertical Replenishment (VERTREP).**



KEY TRENDS IN MODERN NMRH WITH ENHANCED FEATURES

