



TRADE MEDIA BRIEFING 21

Strategy and future of military helicopters

AIRBUS HELICOPTERS

Matthieu Louvot – Executive Vice President of Airbus Helicopters Programmes

30th of November 2021

AIRBUS

Airbus Helicopters at a glance A unique global presence

6,251 B€
Revenues in 2020

3,084
Operators



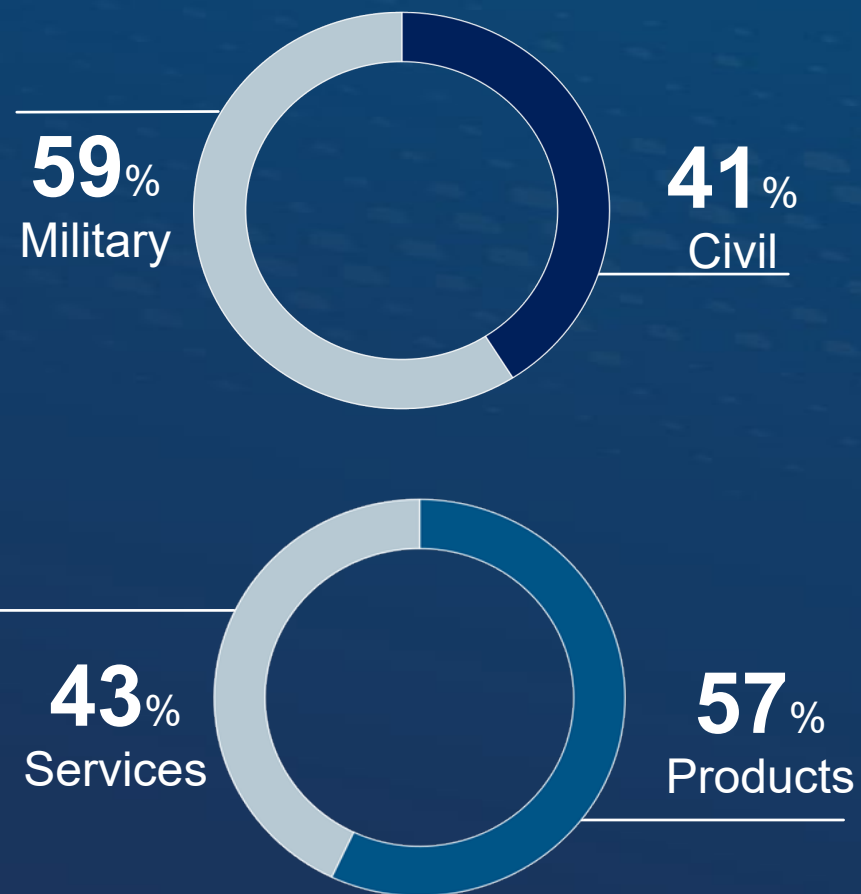
30
Customer
Centres and
affiliated sites

20,026
Employees

AIRBUS



Revenue split in 2020



Military Range



The widest military range

More than 2 500 military helicopters in-service and 30,000,000 cumulated FH.

165 military customers worldwide trust Airbus helicopters to get the job done.

Military market accounts for ~50% of Airbus Helicopters revenues





Our vision for the future

- Short, mid and, long-term perspectives
- Prepare new generation of helicopters
- Support the Forces and anticipate their needs



Short term: H225M

Market reference for CSAR and special operations: More than 125 units in service.

Kuwait, Singapore, Hungary, and France are among recent customers.

New avionics and sensors available.

Airbus will keep investing in H225M improvements.

Mid term: H160M

Successful H160 sand trials in Morocco. IBF proved to be very efficient.

Sling, hoist and blade folding trials conducted in 2021 on H160.

Contract with French Ministry of Armed Forces to be signed by the end of 2021.

Major systems considered within Tiger MkIII

Sight Chain

EOS
Helmet
Enhanced vision system

Communication Systems

Radios
Link with drones

Weapons

Air to Ground missiles
Air to air missiles
Gun
Rockets
Countermeasure

Navigation

System synchronized with Galileo

Avionics

Avionics suite
Tactical Data Management System
Battlefield management system

Mid term:
Tiger MkIII

The Best attack
helicopter in the world

Agility

Survivability

Precision

Fire power

Mid term: Expand our military offer - H175M

The world's most capable
Super Medium helicopter.

7-8t maximum weight.

Limited footprint for
operations in confined
areas.

Transportable in the A400M.

Spacious cabin

Large doors to facilitate
ingress and egress.



Mid term: NH90 new Standard

Special Forces version for France.

New-generation EOS
EuroFLIR™.

New generation digital 3D
map.

Folding boarding steps.

Additional ceiling-mounted
rope anchor points.

NHI Transformation Plan to
improve availability.





Mid term: VSR700

2021: Flight envelope expanded to 80 kts with a complete operative mission system.

2022: Sea demonstrations.

Long term: Building the Future

Prepare next generation of Tactical Transport/Naval helicopter.

Industrial challenges :
More than 900 helicopters to be replaced by 2040.



Nov. 2020

NGRC project was launched by 5 Allies through the signature of a Letter of Intent in November 2020.

2022+

Envisioned target for Memorandum of Understanding signature by Defence Ministers for initiating concept phase.

2035-40+

Potential end state of planned initial delivery for the first NGRC aircraft.

- MTOW significantly increased at iso-cabin & payload (min +30% weight penalty, 11t to 15t)
- Increased Complexity : adding wings, mechanisms, actuators, high power
- Increased Costs (operational costs likely higher by 25%)

Rotorcraft cruise speed capability thresholds:

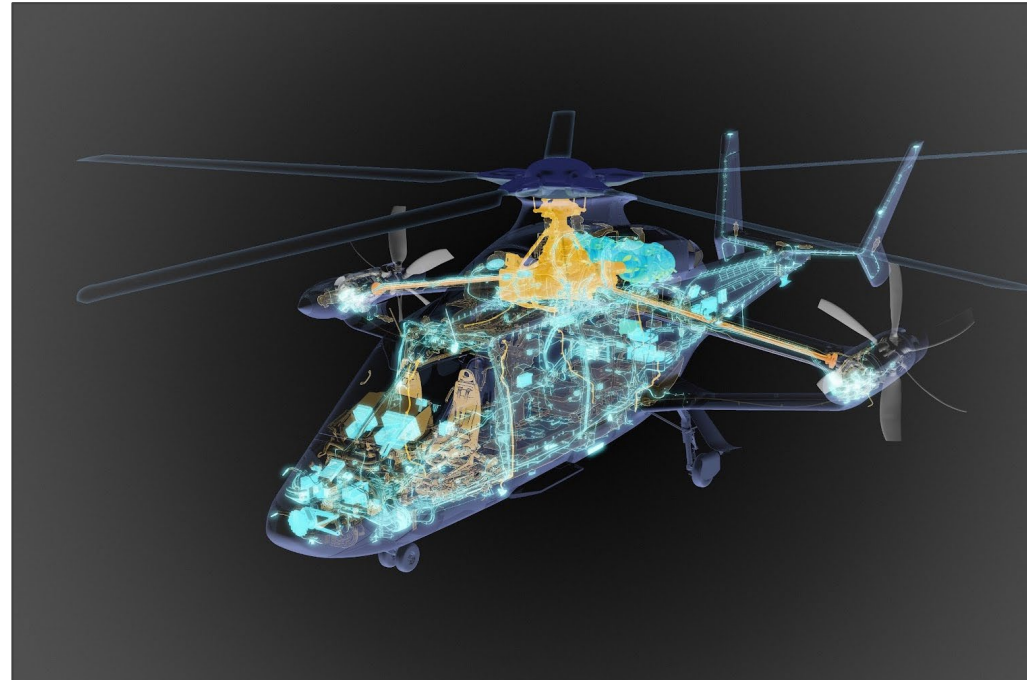
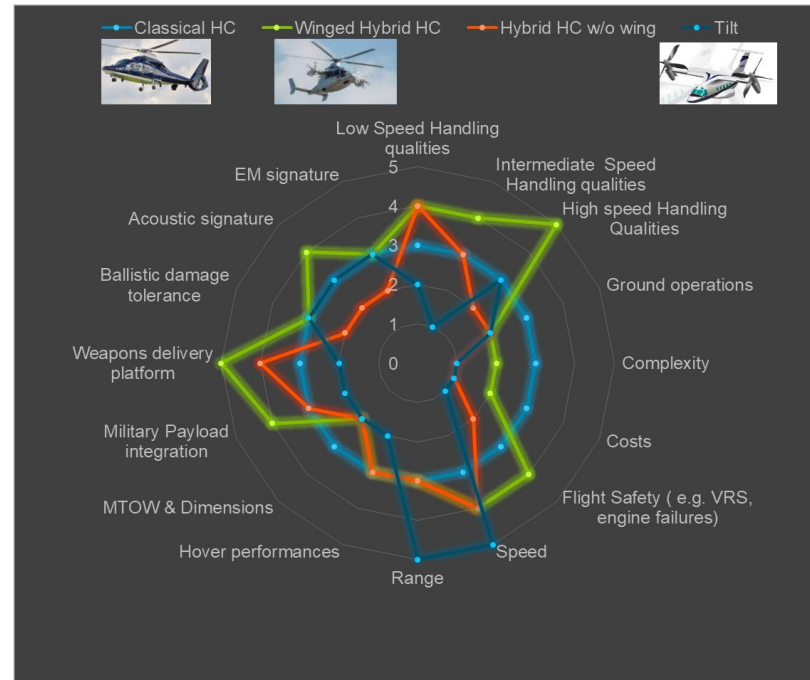
- **Airbus is ready to meet military customers speed requirements if confirmed**
- NATO members have to converge on the operational needs and associate trade offs before finalizing NGRC specification..
- Concept phase in 2022 should clarify the true sizing criteria for the fields of operation.

Airbus Helicopters already has the technologies and expertise to fulfil NATO requirements with the Racer concept or an upgrade of existing military helicopters with specific mission configurations.

Long term: Address the expected concepts of operations

Concept of Operations is KEY to defining Next Generation 2040+ rotorcraft:

- Mission performance
- Survivability
- Affordability
- Availability
- Compatibility with overall 2040+ defense system.



SMARTFORCE CONNECTED SERVICES HELICOPTERS – PORTFOLIO

DIAGNOSE



Smart
Diagnosis
&
Troubleshoot

RELY



Smart
Availability
Monitoring
&
Reliability
analytics

PREDICT



Smart
Predictive
Maintenance

PLAN



Smart
Fleet
Optimization,
Maintenance
management
&
Technical
logbook

SUPPLY



Smart
Material
Management
(Digital Work
card)

FLY



Smart Flight
Analyser

Smart Force

- An Airbus group global approach.
- Airbus Helicopters and Airbus DS / Military Services interoperability.
- OEM expertise to optimize availability, maintenance and operating costs.

Military Global support Contracts

More **than half of all Airbus helicopters** enrolled with global support contracts come from military fleets.

Main objectives of this contract aim to :

- secure spare parts availability on stock,
- reduce maintenance turn times,
- secure fleet availability.

Accepts specific performance objectives and obligations leveraging on AH's technical, logistic and data analytics expertise.

