



Turning point for military aviation – status, challenges and outlook

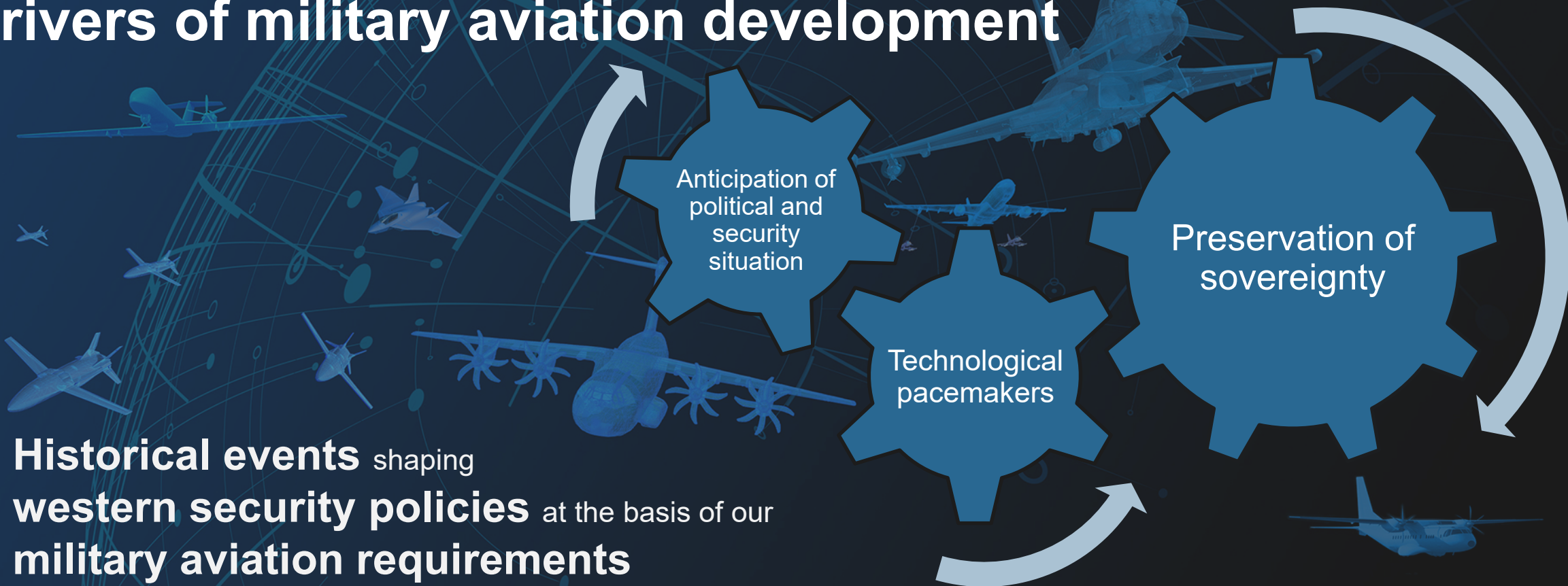
Zeitenwende in der militärischen Luftfahrt –
Status, Herausforderungen und Ausblick

DEFENCE AND SPACE

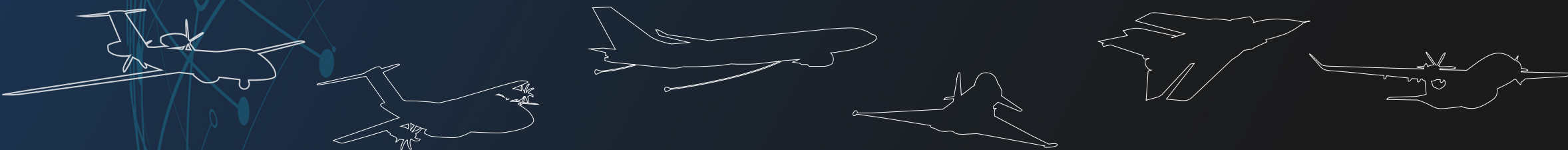
Stefan Römelt
Head of Aircraft & Systems
Airbus Defence and Space

AIRBUS

Drivers of military aviation development



Historical events shaping
western security policies at the basis of our
military aviation requirements



We are Airbus - A Force For Good

We pioneer sustainable aerospace for a safe and united world

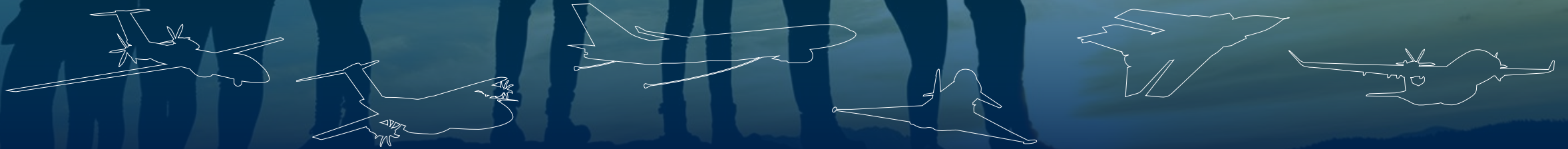
pioneer
cutting-edge
technologies and
solutions

foster
Europe's strategic
autonomy

are
always on duty
for our customers

drive holistic
sustainability
and strengthen resilience

With our military air
systems portfolio, we...



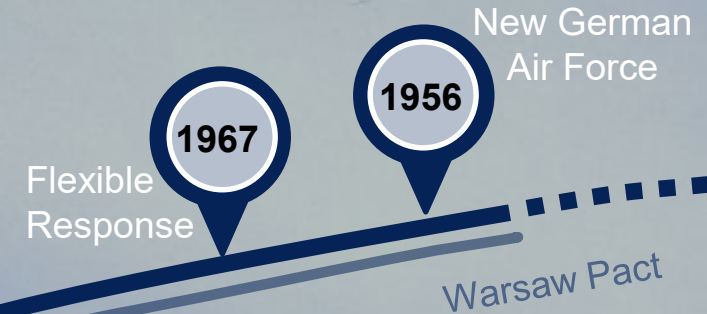
Europe after WW2

Military aviation needs in the light of the threat of the
Warsaw Pact

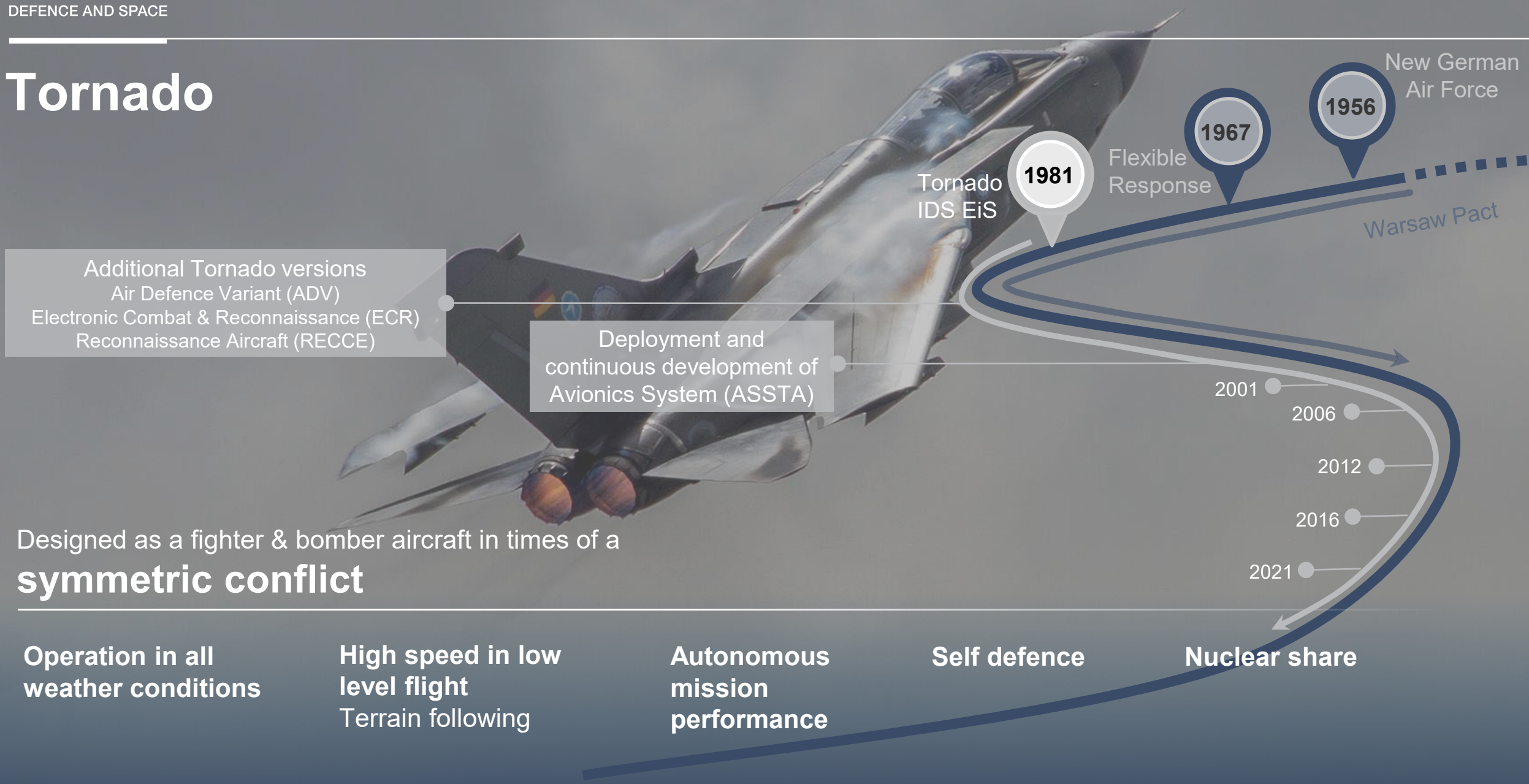
Requirements towards capabilities of German Airforce dominated by **cold war scenario.**

Level of symmetry of the imminent conflict evolved. Changing NATO strategies to face threat through Warsaw Pact - massive vs. flexible response.

Requirements through Flexible Response NATO strategy to be met by future **Multi-Role Fighter Aircraft.**



Tornado



Political change of paradigm

The end of the Cold War

End of the Warsaw Pact marks the start of a **new geopolitical era**.
Threat of imminent symmetric conflict dematerializes.

Expected **mission spectrum changes dramatically**
for European Air Forces.
Focus on missions abroad in asymmetric scenarios.

Evolution of NATO strategy: security through dialogue,
cooperation and defence → security through stability & transformation.



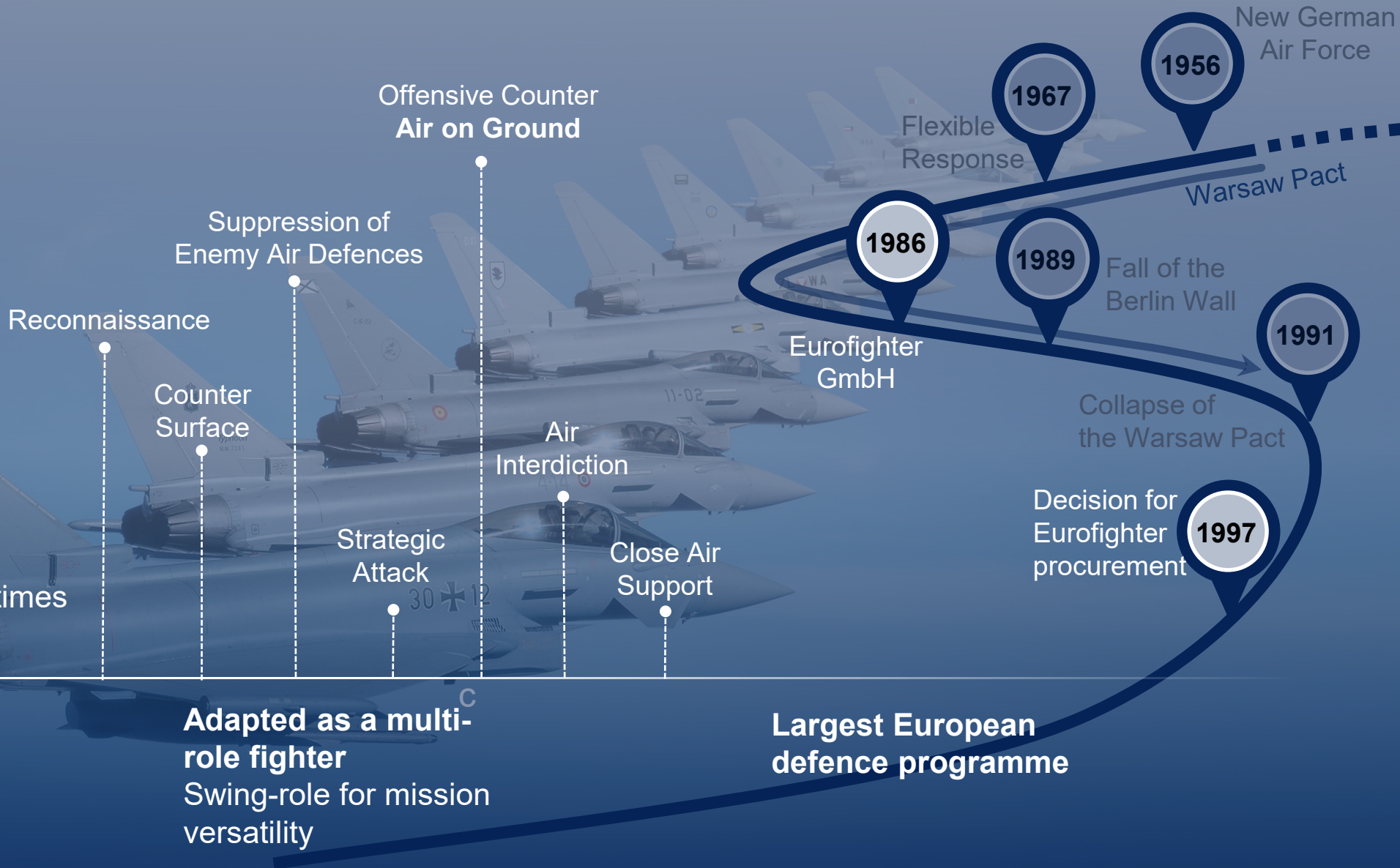
Eurofighter

Evolution of requirements in times
of **radical change**

Originally intended as
dominance fighter

Adapted as a multi-
role fighter
Swing-role for mission
versatility

Largest European
defence programme



Response to terror

forming new foreign-policy interests

NATO mutual defence clause invoked as a reaction to September 11th 2001 - set up of Renegade Concept.

Change in NATO strategy towards active engagement & modern defence. Three pillars of collective defence, crisis response, cooperative security.

German Armed Forces participation in **International Security Assistance Force**. Expansion of ability for strategic deployability gained even further importance.



Asymmetric conflicts

shaping decades of military aviation development



Benchmark technology

supporting military aviation needs of the western hemisphere



Turning point in Europe

Military conflict in Europe becomes a reality

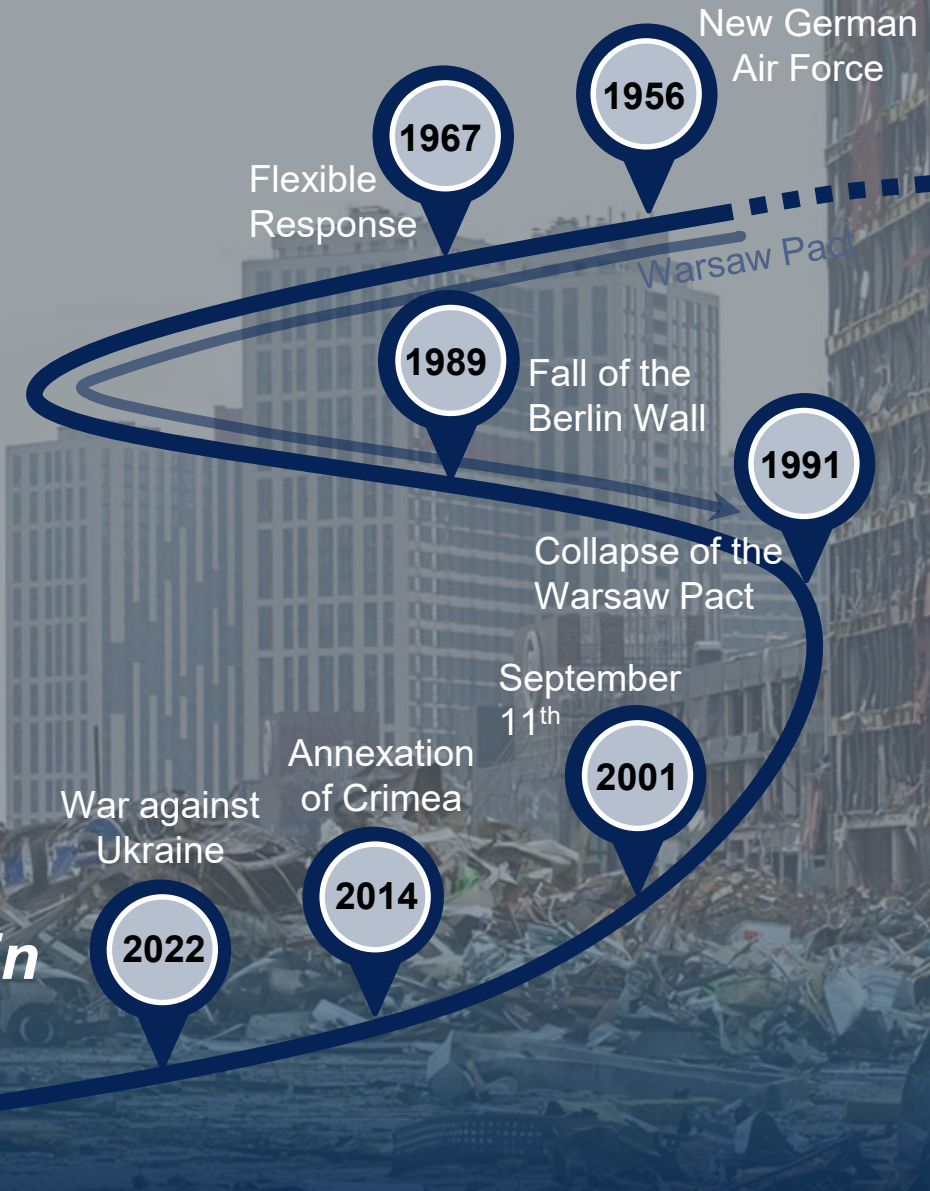
The **paradigm of asymmetric conflicts** dominating western military operations **is shifted.**

New **commitment to national and European defence** due to changed European security order.

Military aviation as one of the pillars to **strengthen European defence and military sovereignty.**

„Der 24. Februar 2022 markiert eine Zeitenwende in der Geschichte unseres Kontinents.“

Olaf Scholz, German Chancellor



European sovereignty is more important than ever

Core philosophy enabled by technological step ups

Tornado & Eurofighter
technological
evolution

A400M: Most advanced
airlifter

FCAS:
European 6th
generation
fighter

**European
MALE
RPAS:** first
European
design for
MALE drone

A330 MRTT: 4 pillars
refuelling, transport,
deployment, medevac
contributing to European
sovereignty

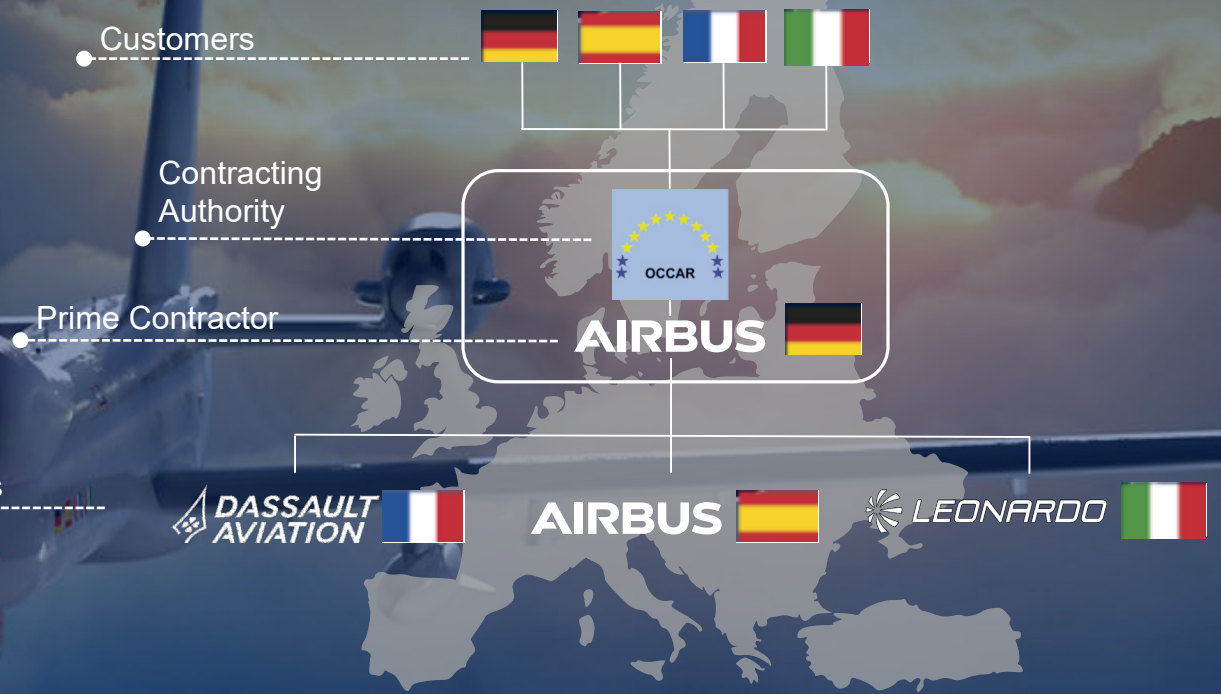
„Die Zeitenwende trifft nicht nur unser Land; sie trifft ganz Europa. [...]

Die Herausforderung besteht darin, die Souveränität der Europäischen Union nachhaltig und dauerhaft zu stärken“

Olaf Scholz, German Chancellor

Eurodrone will feature the next generation MALE RPAS

Providing sovereign capabilities for any European FCAS



Eurodrone flight envelope and configuration will allow
versatile operations



**Longest
Endurance**



**Highest payload
capacity**



**Multi mission
capable**



**Certified for
Civil Air Space**

Future Combat Air System

Future Air Power – the key to European sovereignty

Large scale **integrated contested environments** require
the collaborative capabilities of **many connected platforms**

**Next Generation Weapon
System**

Fighter + Remote Carriers

Multi Domain Combat Cloud

Integrating NGWS with existing
platforms

Platform Interoperability

Combining for greater capabilities

Eurofighter Long Term Evolution enables FCAS

Capability evolution



The Eurofighter provides a **vital pillar within future air defence scenarios** through its future evolution roadmap

Sensors

Weaponisation

Big Data &
Computing

Connectivity

Cockpit / HMI

Chances & Challenges

for European military aviation in the light of the changed political situation

„Was für die Sicherung des Friedens in Europa gebraucht wird, das wird getan.“

Olaf Scholz, German Chancellor

Availability of state of the art Military Air Systems vs.
fostering **European military sovereignty**

F35 agreed for
Tornado replacement
to cover **nuclear
share**

**Electronic
Warefare** role to
be covered by
Eurofighter

EMSO
capabilities of
increasing
importance



Airbus is committed to mastering the challenges

imposed by the turning point for military aviation

In an **increasingly unstable world**,
we follow our ambition to be a **force for good**
and help safeguard **Europe's citizens and strategic autonomy** every day

**Foster collaboration to
provide state of the art
European Military Air
Systems**

**Push operational excellence
to enable FCAS – the most
complex defence project in
European history**

**Observe and anticipate
political developments to
best support with our
products**

We are hiring!

Join us to develop the technologies of tomorrow

Systems

Airworthiness &
Product Integrity

Flight &
Integration Test
Center

Material
Services

System Support
Services

Training & Flight
Operations Services

Aerospace Mechanical
Engineering

Materials &
Processes

Information
Management