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# Airbus Defence and Space

## Combat Aircraft Systems

DEFENCE AND SPACE

Kurt Rossner, Head of Combat Aircraft Systems  
05<sup>th</sup> November 2019

**AIRBUS**

# Combat Aircraft Systems

## The future of Air Power



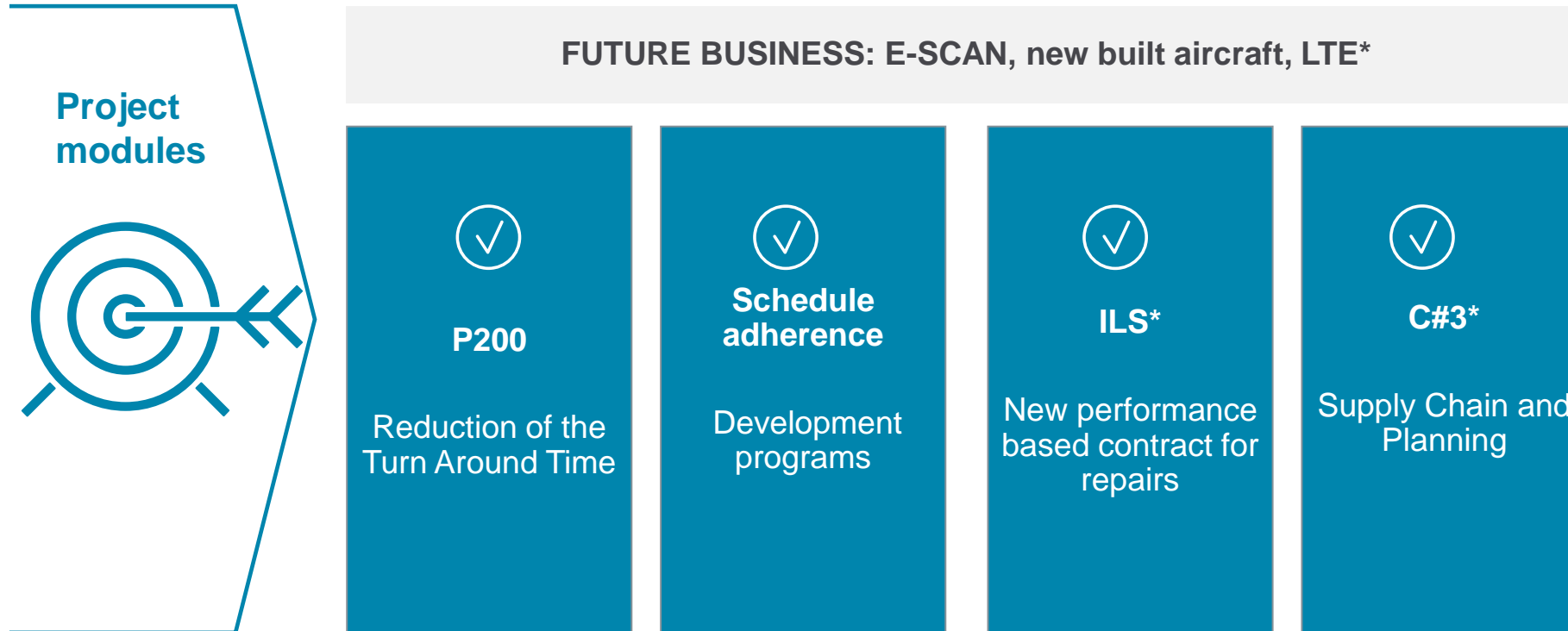
# Combat Aircraft Systems

**The past: Stabilization**

**The present: Capability enhancement**

**The future: New technologies**

# Project "TAKE-OFF" – Project structure



## The past

### Stabilization

The Eurofighter Program set up a **holistic improvement project** called "TAKE OFF".

\* **ILS** – Integrated logistics support  
**C#3** – Eurofighter Contract 3  
**LTE** – Long Term Evolution

# The Eurofighter Capability Roadmap




## The present

### Capability Enhancement

We're focused on delivering our commitments to the **capability evolution** of the Eurofighter.

## E-SCAN Radar Mk1 Early Embodiment

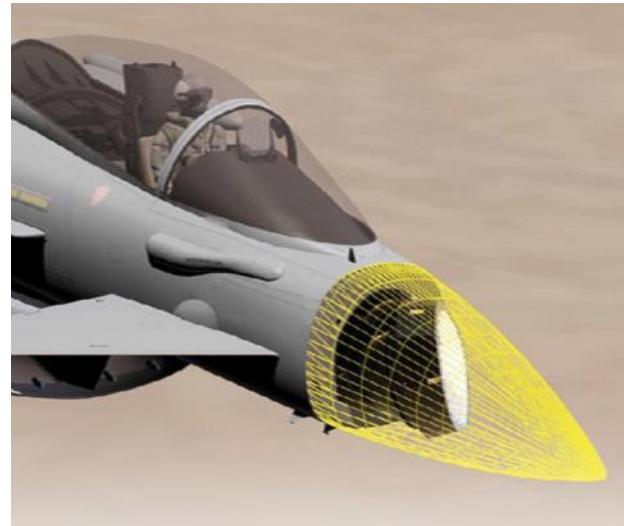
Our mission is to enable the retro-embodiment and upgrade of up to:

 **110** German aircraft sets  
Tranche 2 / 3 - Start in Q2 2022

 **19** Spanish aircraft sets  
Tranche 3 - Start in Q3 2022

- The Retrofit programme paves the way for LTE\* / Export / FCAS\* and EW\* capabilities.
- The E-SCAN Mk1 programme provides Germany & Spain full **national radar sovereignty** in system & equipment.
- The goal is a **contract award by end of 2019 / early 2020**.

\* **LTE** – Long Term Evolution  
**FCAS** – Future Combat Air System  
**Mk1** – Mark 1  
**EW** – Electronic Warfare




# The present

## Capability Enhancement

The **E-SCAN Mk1 Early Embodiment** forms one of the key elements of the Eurofighter's evolution.

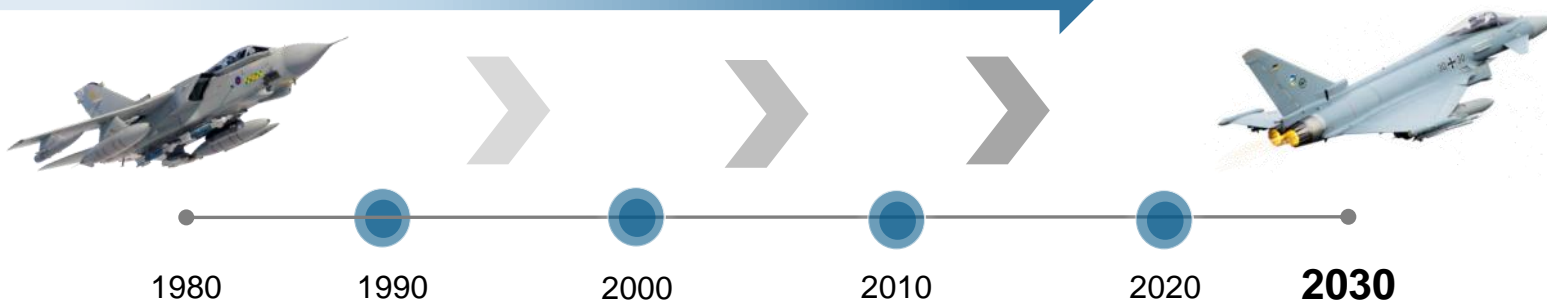
## Project Quadriga



 **38 German** new production aircraft  
 (7 Twin Seater / 26 Single Seater + 5 Single Seater optional)

- Quadriga will replace the German Tranche 1 Fleet.
- The aircraft standard shall include the E-SCAN Radar including a new Multichannel Receiver.
- Quadriga delivers the necessary capacity for the German Air Force.
- The goal is a **contract award early 2020**.

## Opportunity: TORNADO replacement



- Requirement for a **total of 85 aircraft** split in 2 batches:
  - 45 with strategic capabilities.
  - 40 with an Escort Jammer capability included.
- The Eurofighter is capable to replace the TORNADO in **all missions**.

# The present

## Quadriga

The German Ministry of Defence (MoD) has decided to replace the existing Tranche 1 fleet with new built Eurofighter.

## TORNADO replacement

The German MoD seeks to replace its ageing TORNADO fleet by 2030.



# Eurofighter Export Campaign Switzerland

Ideal platform for air policing requirements in challenging Swiss topography and airspace.

Eurofighter offers full autonomy in mission data and technology access for Switzerland.

Identical configuration as German Quadriga and joint Procurement ensures economic benefits for Switzerland.

Airbus and Eurofighter offer reliable projects to satisfy Swiss industrial participation requirements.



## The Present

### Eurofighter as the New Swiss Fighter

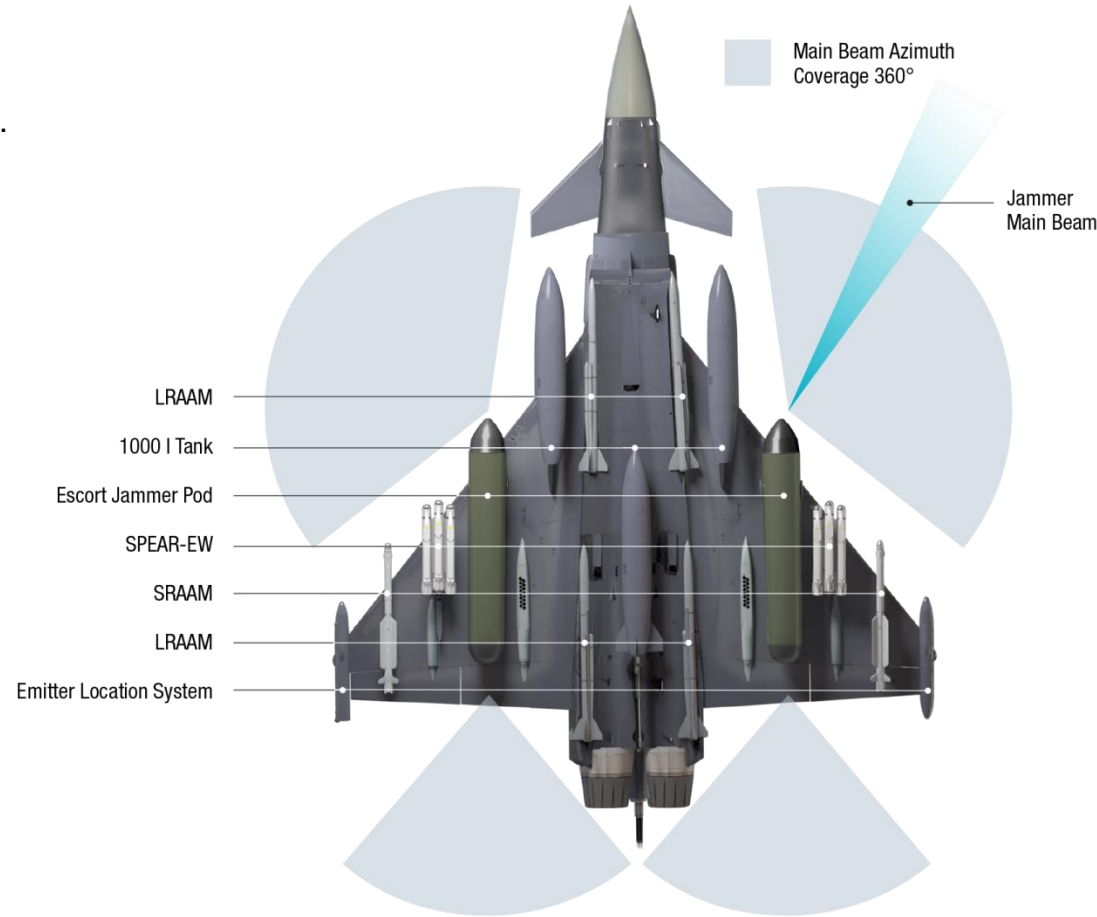
Airbus proposed up to 40 Eurofighter as replacement for the F/A-18 Hornet and F-5 Tiger. Type selection by the Federal Council is awaited end of 2020 / early 2021.



# Eurofighter ECR SEAD\* capability

Electronic Attack (EA) mit Stand-in-Jammer

- Collaborative German industry approach.
- Part of the key technology roadmap.
- Possibility to combine Escort and Stand-in Jammer.
- Initial capability through a podded solution and full capability with LTE.\*



## The future

### ECR concept based on Eurofighter

With the electromagnetic spectrum gaining further relevance, the ECR is an essential contribution to the future battlefield.

\* ECR – Electronic Combat Role  
SEAD – Suppression of Enemy Air Defences  
LTE – Long Term Evolution

# Eurofighter LTE will enable FCAS



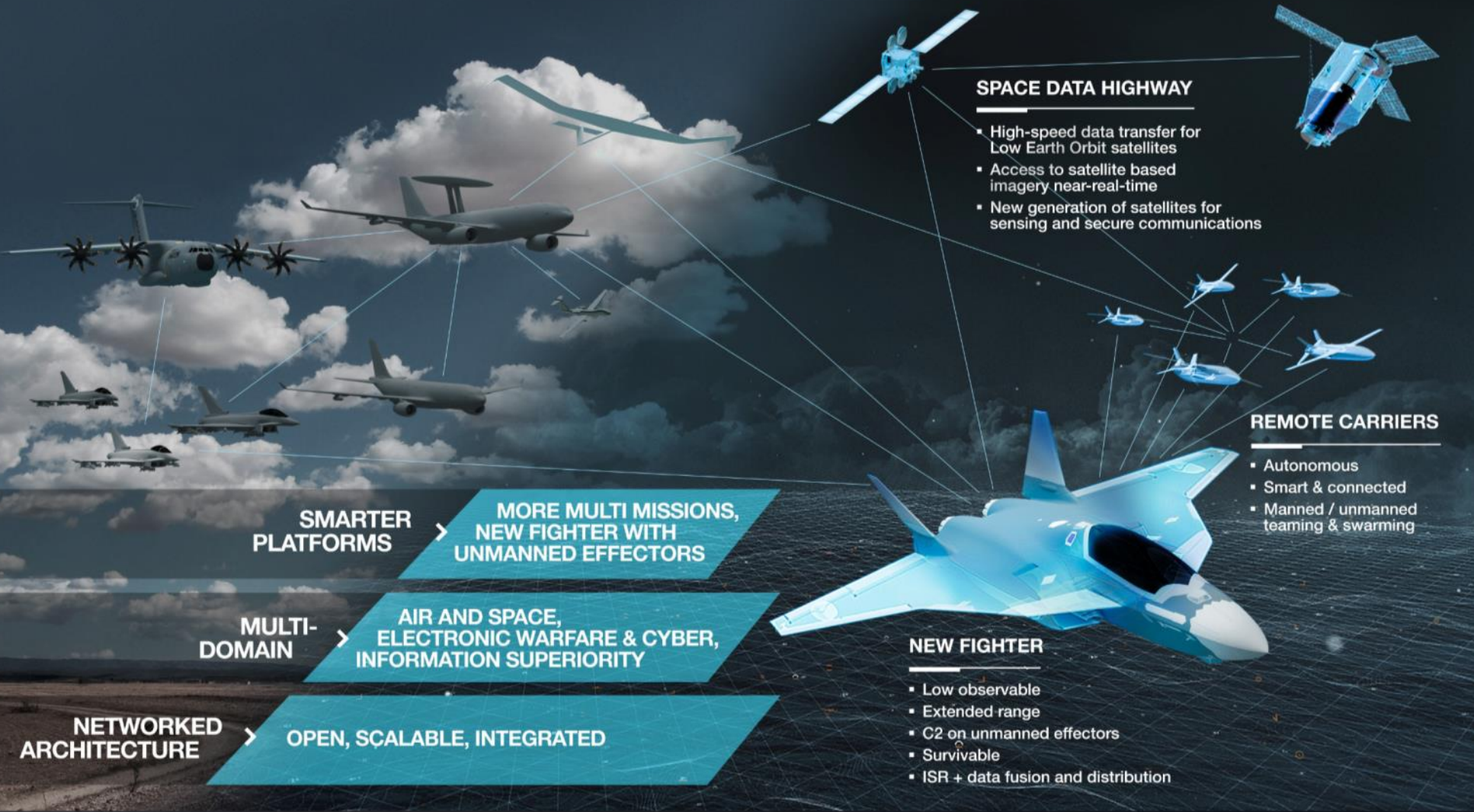
## The Future

### Future Combat Air System (FCAS)

through

### Eurofighter Long Term Evolution (LTE)

Eurofighter LTE will be the main catalyst to enable FCAS before the arrival of the New Generation Fighter (NGF).





Thank you!