

# Welcome to CTC.

an **AIRBUS** company

**CTC**

we are  
composites



# CTC Introduction & General Overview.

Georg Lonsdorfer  
*Senior Technology Manager*  
*In function Business Development*

an **AIRBUS** company

**CTC** we are  
composites



**CTC – Vision & Mission & Values**

**CTC – History & Milestones**

**CTC – Networks**

**CTC – Facts & Figures**

**CTC is based in Stade,  
Lower Saxony next to  
the Airbus site**

**CTC** we are  
composites

# Our Vision & Mission.

## Vision

CTC is the leading innovation and technology center for lightweight design with composites in Europe with international recognition.

## Mission

CTC is a partner for the holistic realization of smart, efficient and sustainable lightweight solutions for our customers.

## Slogan

We are Composites - Pioneer and trailblazer for lightweight design with composites.



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# Our Values.

The six core values that guide the behaviors of our CTC team.

At CTC, how we work is just as important as what we develop and produce.

We are guided by a set of six values, each chosen by the very people who embody them.

- **Customer Focus.**
- **Integrity.**
- **Respect.**
- **Creativity.**
- **Reliability.**
- **We are One - Teamwork.**

These values shape the DNA of our business, reflecting the unique blend of qualities found in every member of our CTC.



# Milestones.



Founding of CTC  
At the Airbus production  
plant near Hamburg,  
Germany

**2001**

CTC significantly  
supports the A350  
development.

**2008**

CTC expands  
business to Airbus  
suppliers.

**2012**

# Where do we come from?



# Where are we today?

## 2001

- CTC GmbH founding
- 100% Airbus subsidiary
- Intension R&D projects also outside AIRBUS

## 2004

- Technology Center building
- 2500 m<sup>2</sup> shop floor for carbon activities
- Industrial composite processing for future Airbus aircraft

## 2006

- A350 development period
- Valuation composite maturity status
- Decision phase for the key technologies composites A350
- Industrial composite production

## 2012

- Expansion of the fields of activity
- Assembly; cabin processes, ... composite recycling
- CTC develop to a service- supplier for carbon production; internal AIRBUS and external

## 2022

- International business not only aircraft
- New to the list education & training in the composite environments
- Absolute priority: industrial processes



Source: Composites World



Source: Airbus





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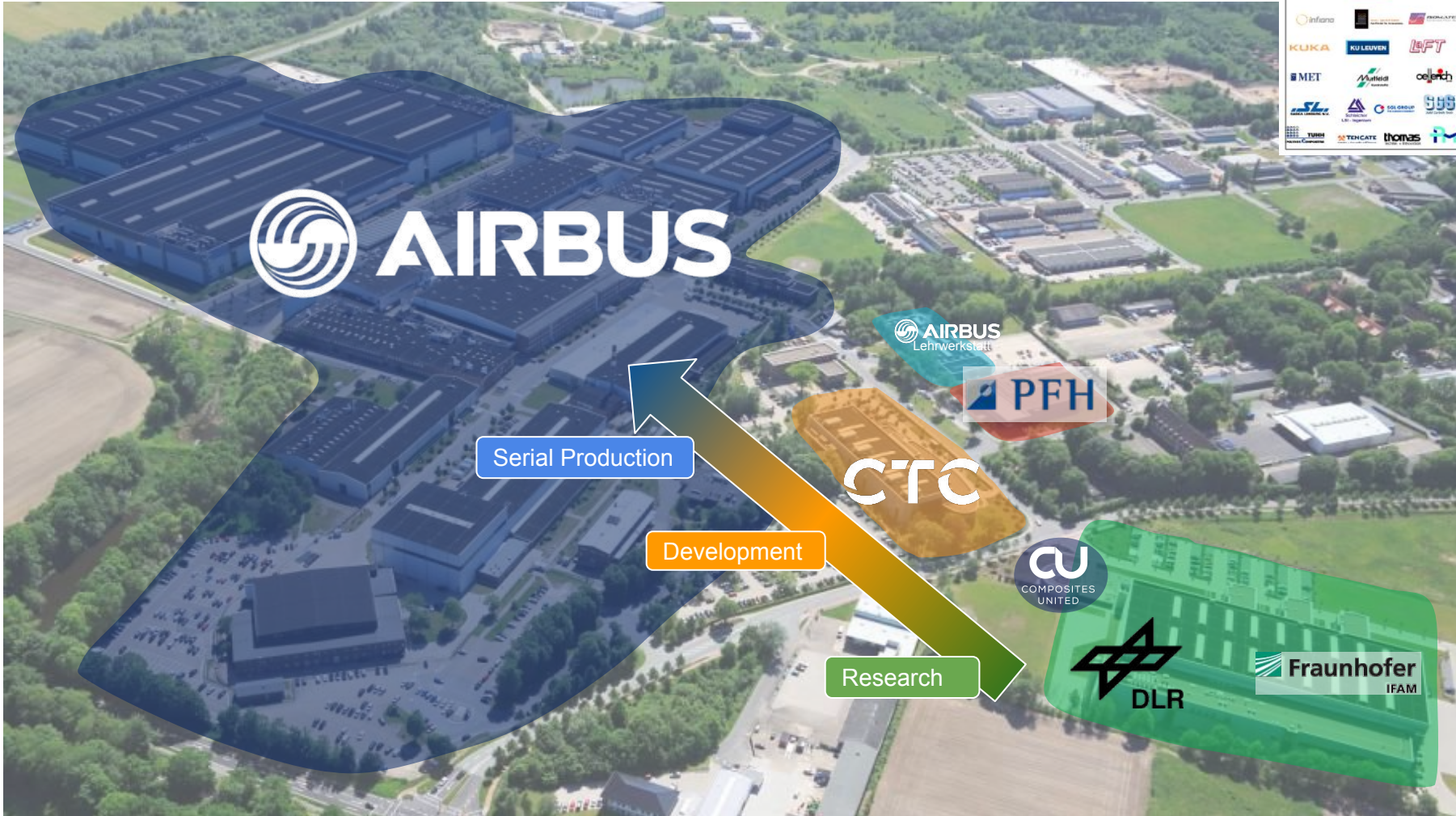
CTC is worldwide  
recognized service  
supplier for industrial  
composite manufacturing

2018

**CTC**

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# Airbus Stade & Composites United networks.



COMPOSITES  
UNITED

Composites United (former CFK-Valley and CCEV) has a worldwide recognition as composites network with over 400 members worldwide

# Facts & figures.

CTC is a 100%  
subsidiary of  
Airbus Operations  
GmbH

**> 50**  
employees

Blue & white collars

**> 40**

composites &  
lightweight  
experts

**2500 m<sup>2</sup>**  
shopfloor

Air-conditioned

**> 25**

international  
PhD students  
and students

EN 9100  
and ISO 14001  
certified

Cooperation with  
suppliers and  
development  
partners in the  
Composites United  
network

Integrated in the  
Airbus  
Technology  
Programs

**CTC**

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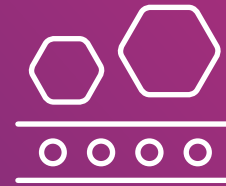
**100% aerospace quality for your project and four business fields.**



INNOVATION



SOLUTION



PRODUCTION



EDUCATION

# Our partners and customers.

## Collaboration partners



## Networks



## University collaborations



# Thank you.



Appendix: Relation to AIRBUS Germany and AIRBUS Stade

[www.ctc-composites.com](http://www.ctc-composites.com)

**CTC** we are  
composites



**Airbus – German site overview**

**Airbus Plant Stade – History**

**Airbus – Evolution in aircraft programs**

**Airbus Plant Stade - Work share**

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# Airbus – German site overview (including PAG)



**AIRBUS**

Airbus site in **Stade & CTC**

Airbus site in **Hamburg**

Airbus site in **Bremen**

**PREMIUM AEROTECH**

Varel  
Nordenham  
Bremen  
Augsburg

> 40.000 special forces and skills  
> 300 suppliers

**CTC** we are composites



# Airbus Plant Stade – History

**Today AIRBUS Aircrafts** serial production for more than 600 Aircrafts / a

2010 **A350 XWB** Start of production  
(~ 53 % Composite material in primary structure)

2009 **A400M** Wing cover made of composite

2006 **A380** VTP and Pressure Bulkhead made of composite

2002 **A340** Pressure Bulkhead and floor beams made of composite

1988 **A320** Wing flaps and VTP made of comp.

1985 **A310** VTP made of composite

1983 **A310** rudder made of composite



## CFRP consumption internal

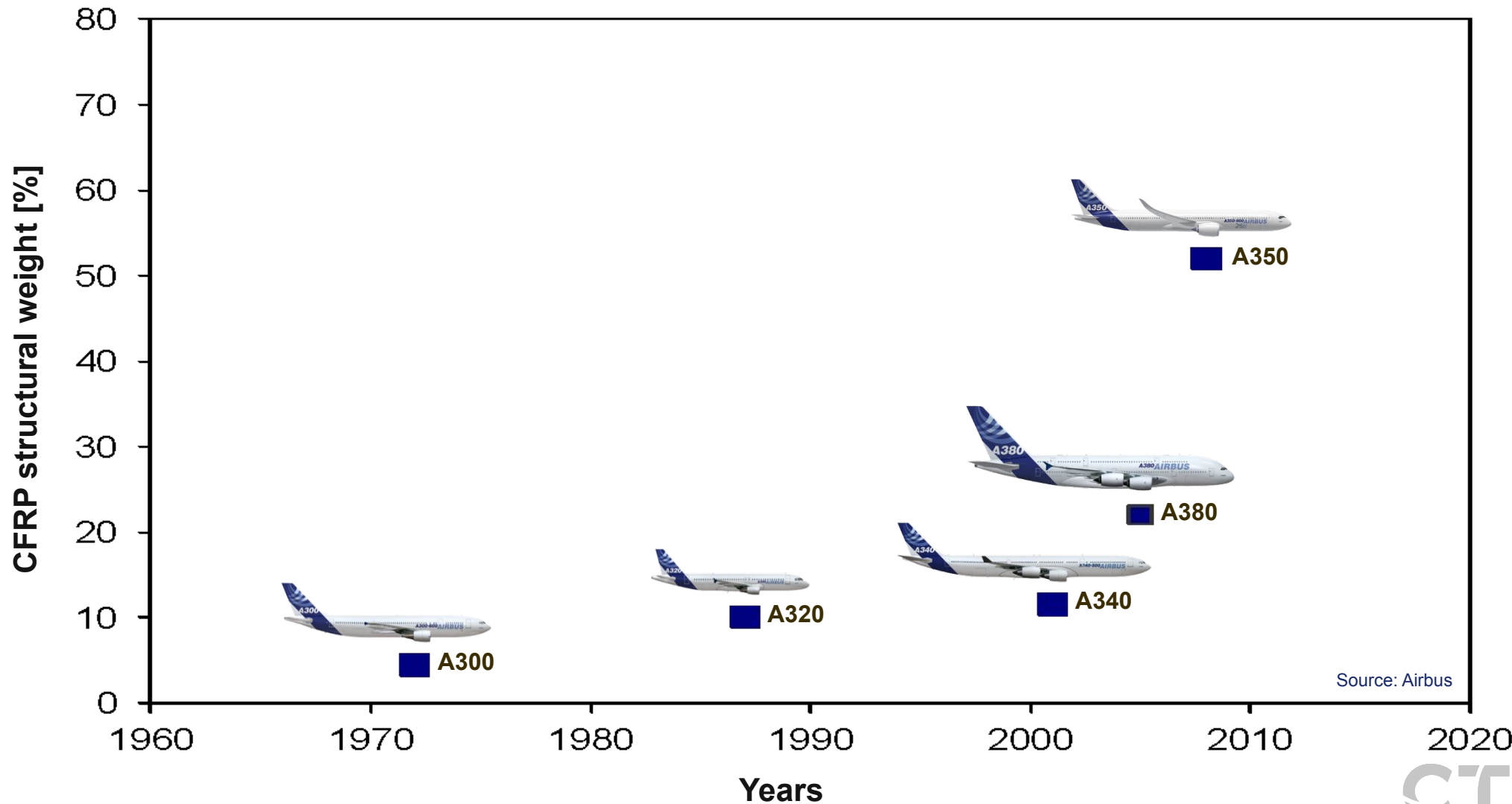
- 151,000 m<sup>2</sup> tape & fabric per month
- 51 t tape & fabric per month
- **Additionally external delivery**

## Employees (03/2021)

- **Total** **1.666**
- Permanent 1.532
- Temp 0
- Apprentices 134

Source: Airbus

# Airbus – Evolution in aircraft programs



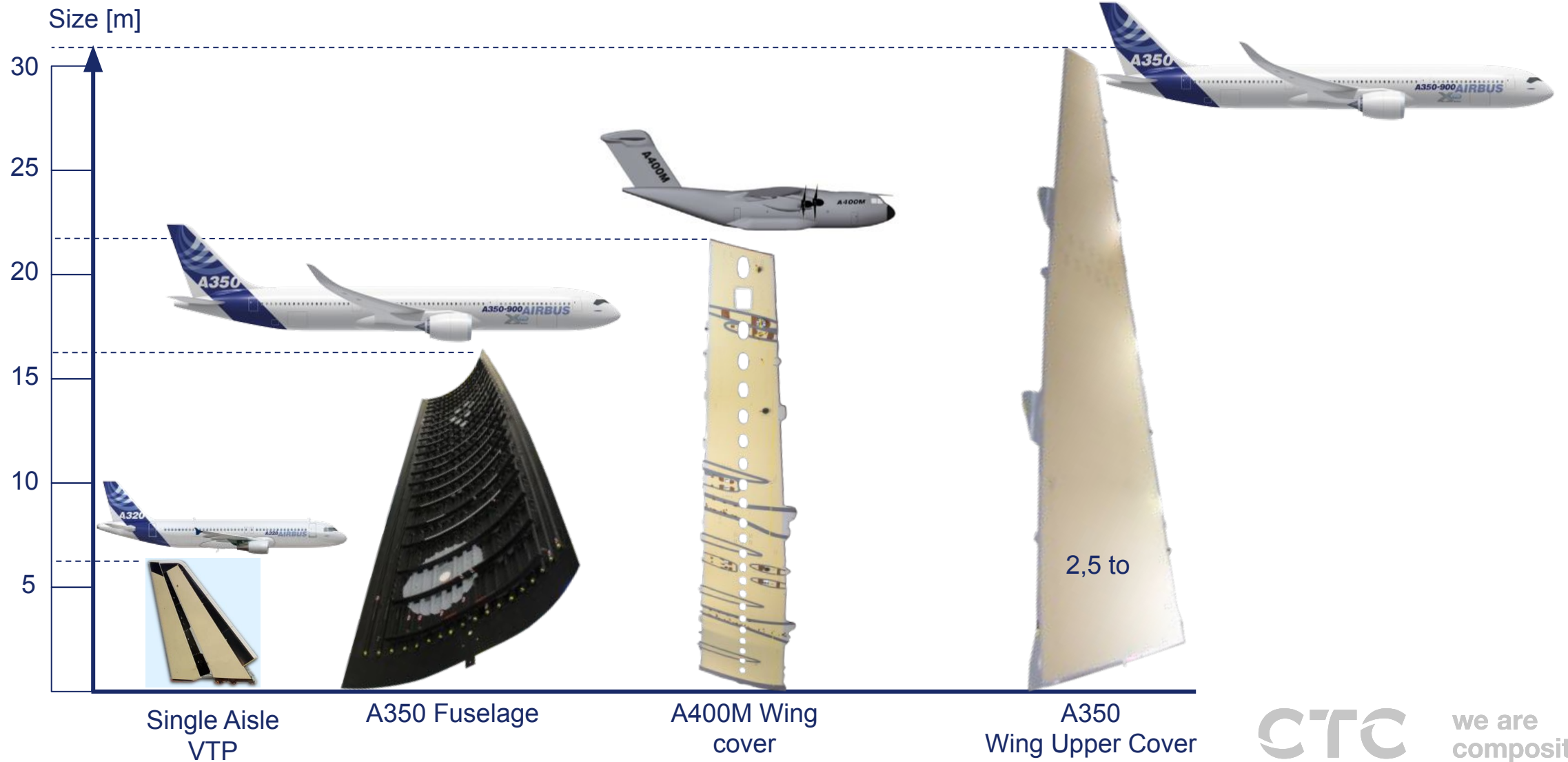
# Airbus Plant Stade - Work share



Achievements after 40 years of fibre composite development almost each vertical tail comes out of the AIRBUS plant in Stade



# Airbus Plant Stade – Increasing dimensions of components



# Contact.

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