



# **Development of the Composites Markets in Europe and in the DACH region**

**- Dr. Elmar Witten -**

29. November 2022 – JEC Forum DACH – Augsburg

# AVK – The Network

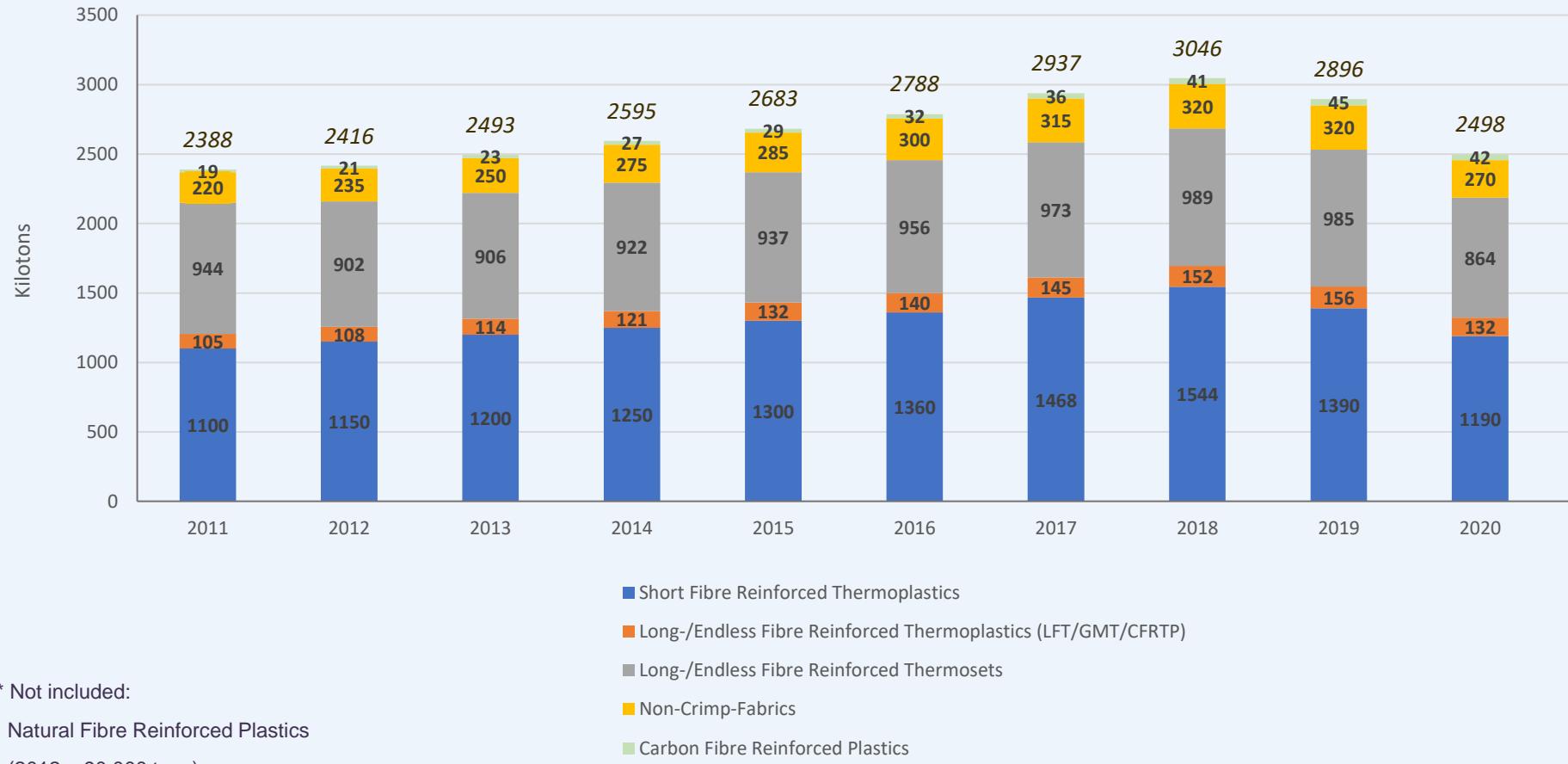


# The Worldwide Composites Market - Facts

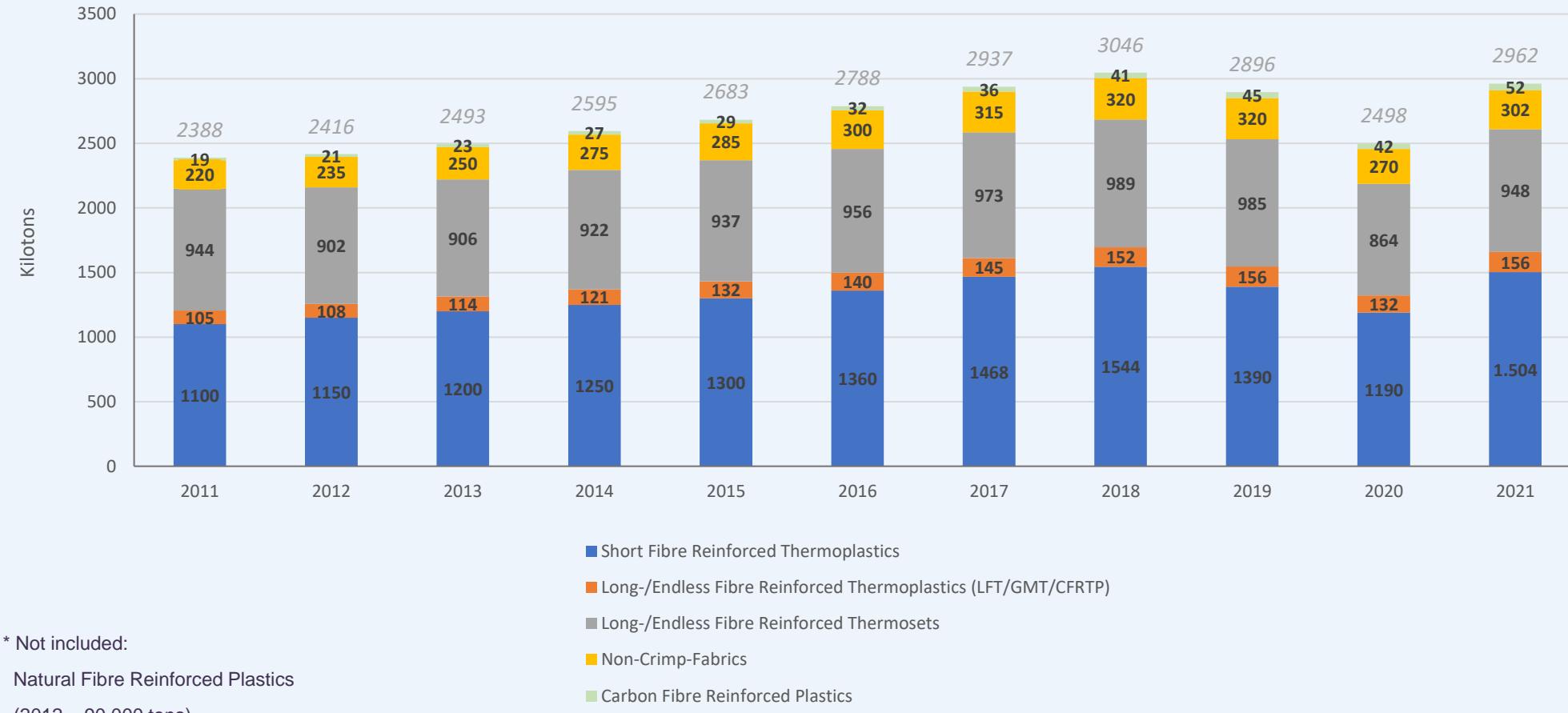
- Worldwide Composites Market 2021: 12,1 million tons
  - Increase compared to 2020 (11,2 million tons): 8%
  - Increase Europe compared to 2020: 18,3 %
- Different regional development: Americas, Asia & Europe
  - Market share Asia ≈ 50%; Americas & Europe ≈ each ¼ of world market
- 95% of the Reinforcements are Glass Fibres
- Carbon Fibre Reinforced Plastics: Market share of 1-2%
- Shortfibre Reinforced Thermoplastics are the biggest market segment
- Thermosets are still the biggest group in the field of Long- and Endlessfibre systems

# The European Composites Markets

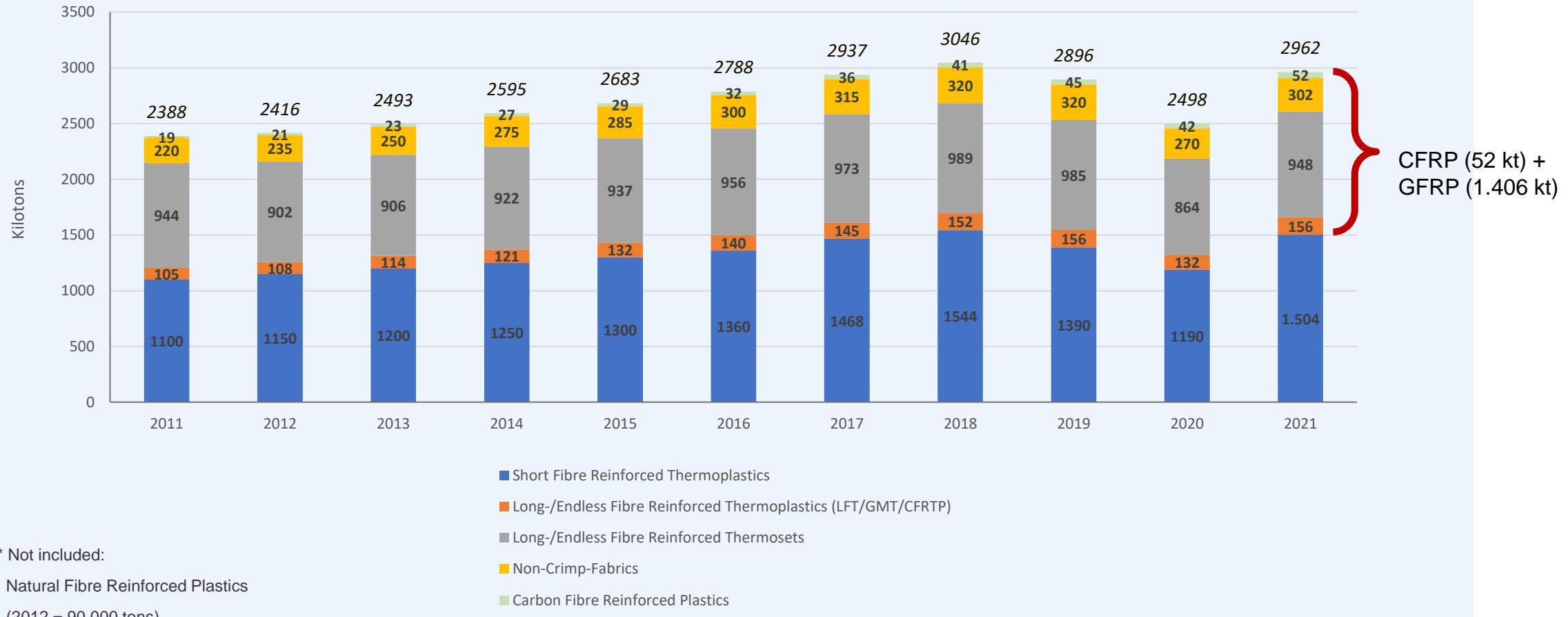
# The European Composites\* Market (2020)



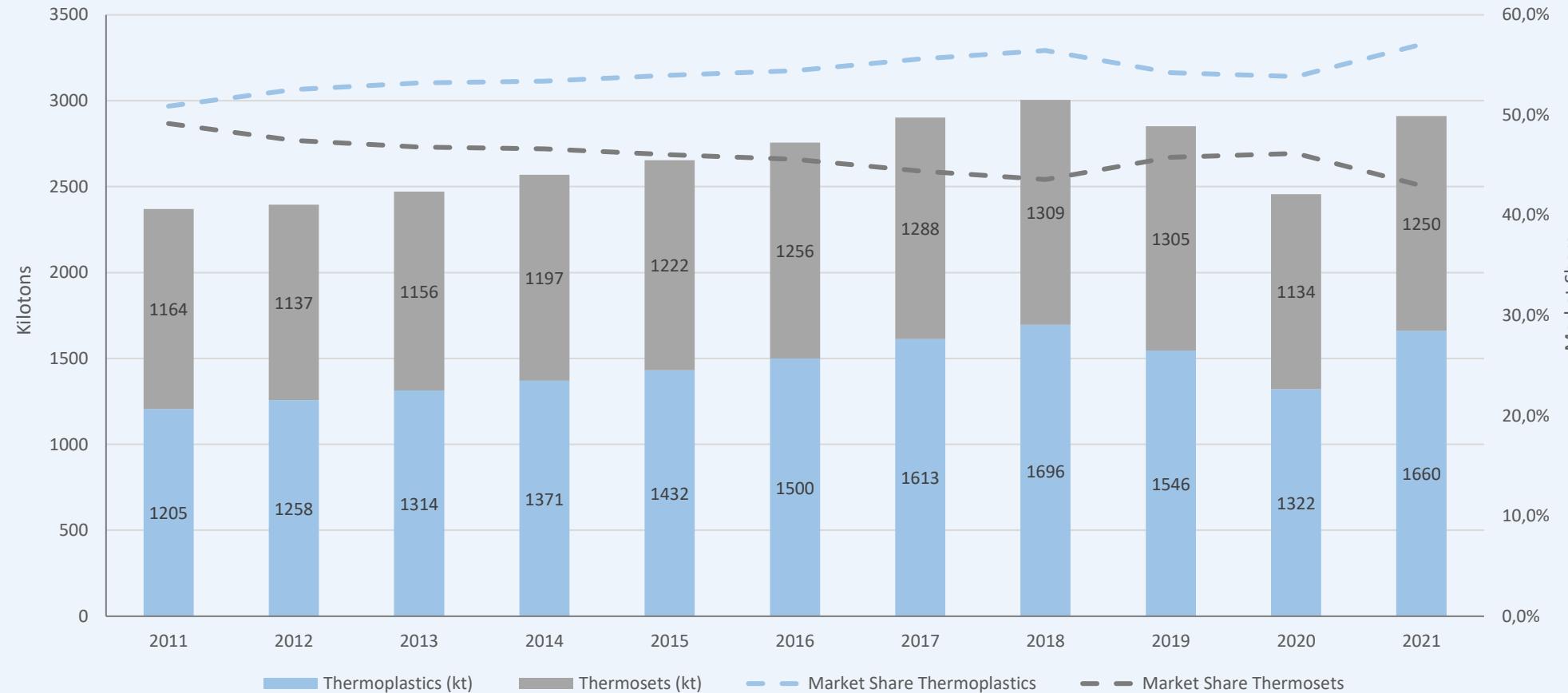
# The European Composites\* Market (2021)



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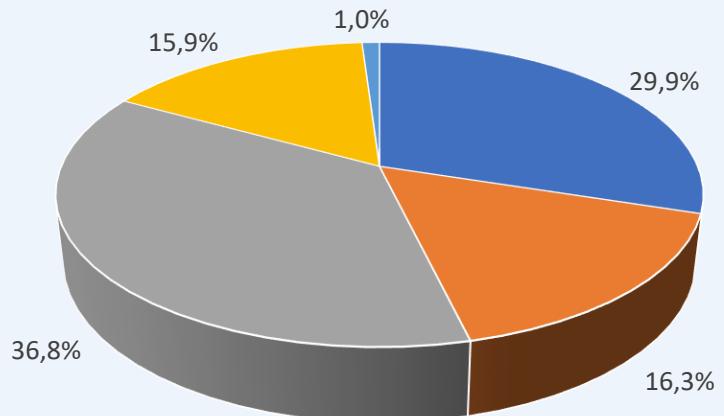


# Glass Fibre Reinforcements – Main Material Systems



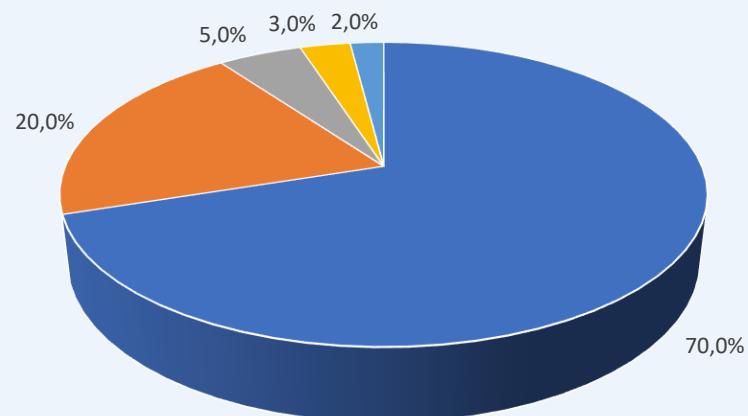
# European Composites\* Market - Applications

Applications Thermoset



■ Transport ■ Electro / Electronic ■ Construction ■ Sports & Leisure ■ Others

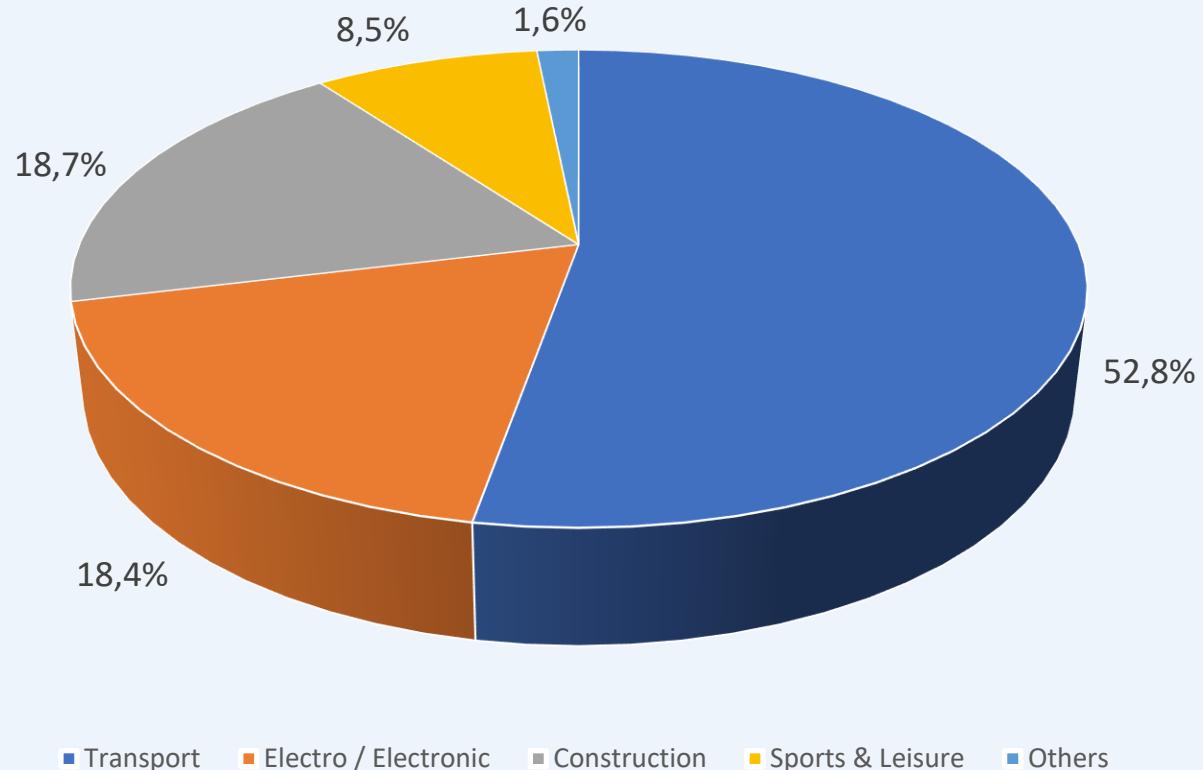
Applications Thermoplastics



■ Transport ■ Electro / Electronic ■ Construction ■ Sports & Leisure ■ Others

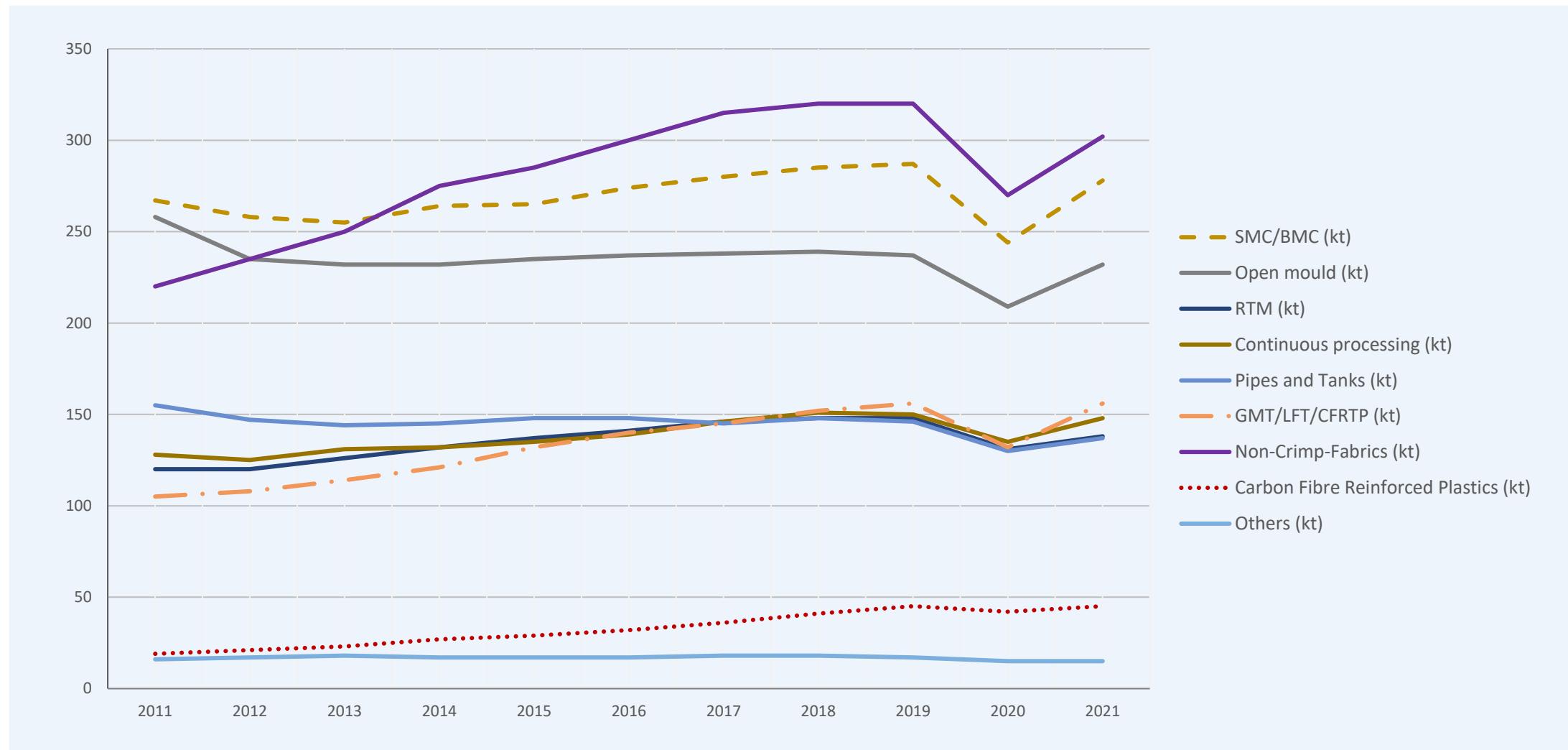
\*without CFRP

# European Composites\* Market - Applications

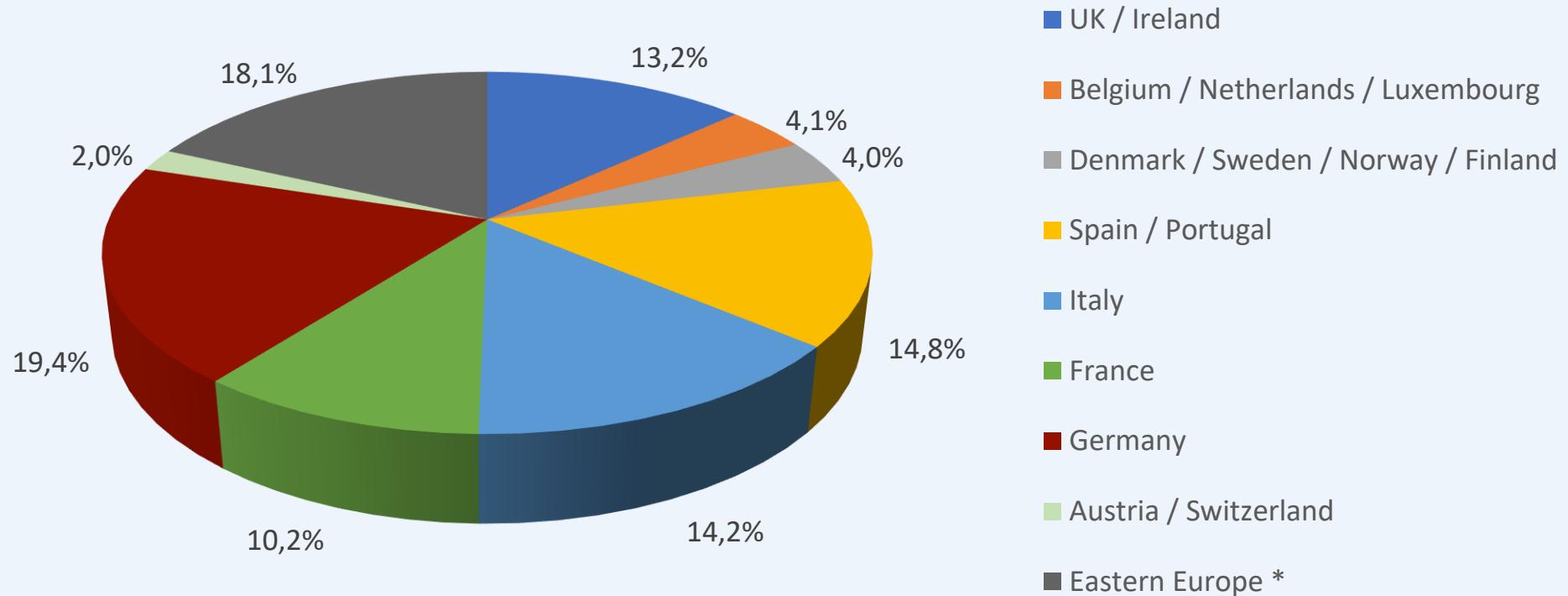


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# European GFRP & CFRP Market Development (kt)



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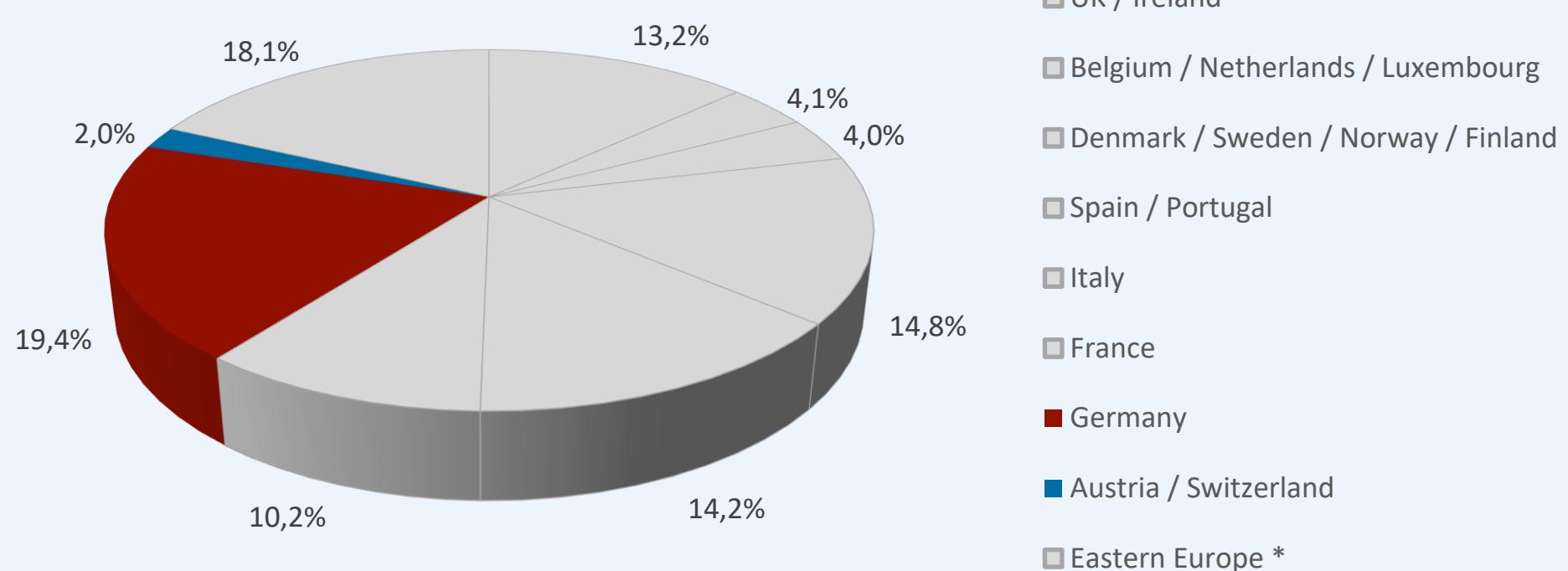


\*Poland, Czechia, Hungary, Romania, Serbia, Croatia, Macedonia, Latvia, Lithuania, Slovakia and Slovenia

# **The Composites Markets in the DACH region**

# European GFRP & CFRP Market Development (kt)

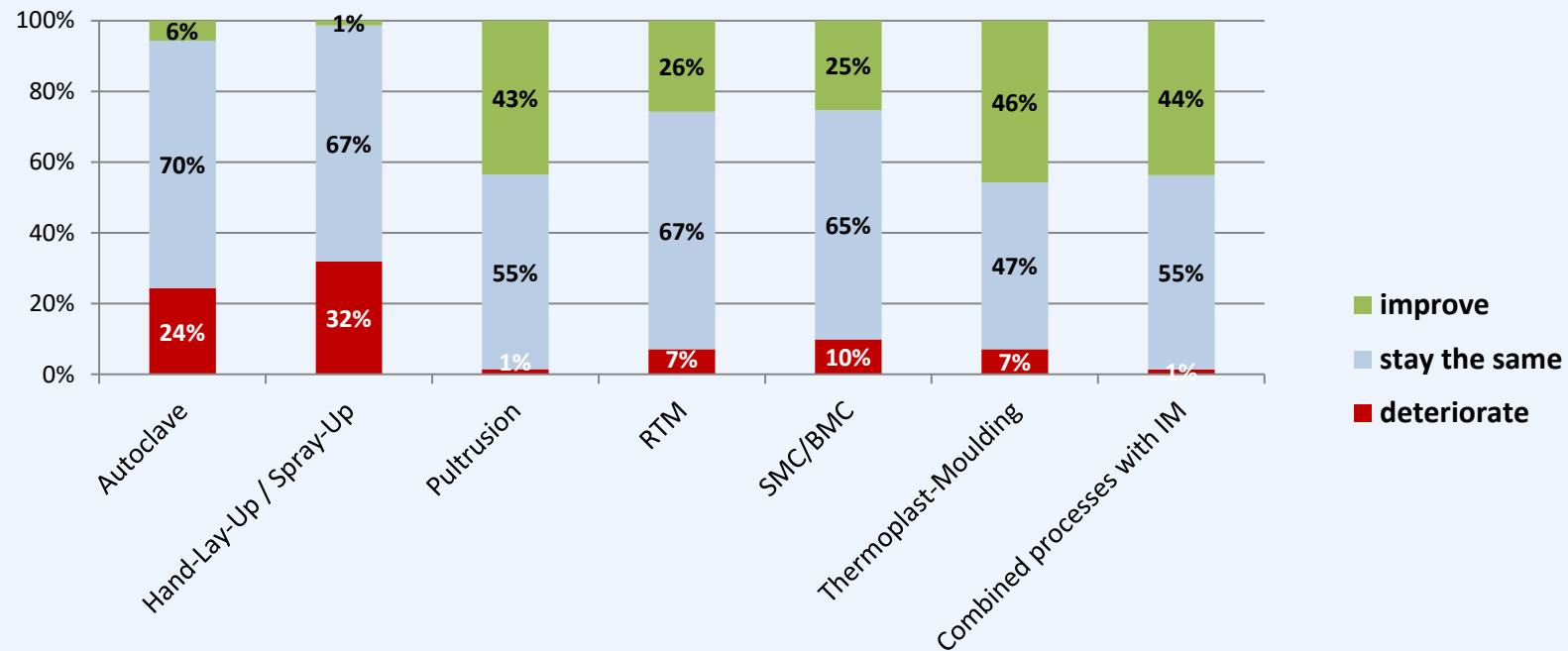
- Market Share 21,4 %
- Volume 267,5 kt.



\*Poland, Czechia, Hungary, Romania, Serbia, Croatia, Macedonia, Latvia, Lithuania, Slovakia and Slovenia

# Developments in the DACH region

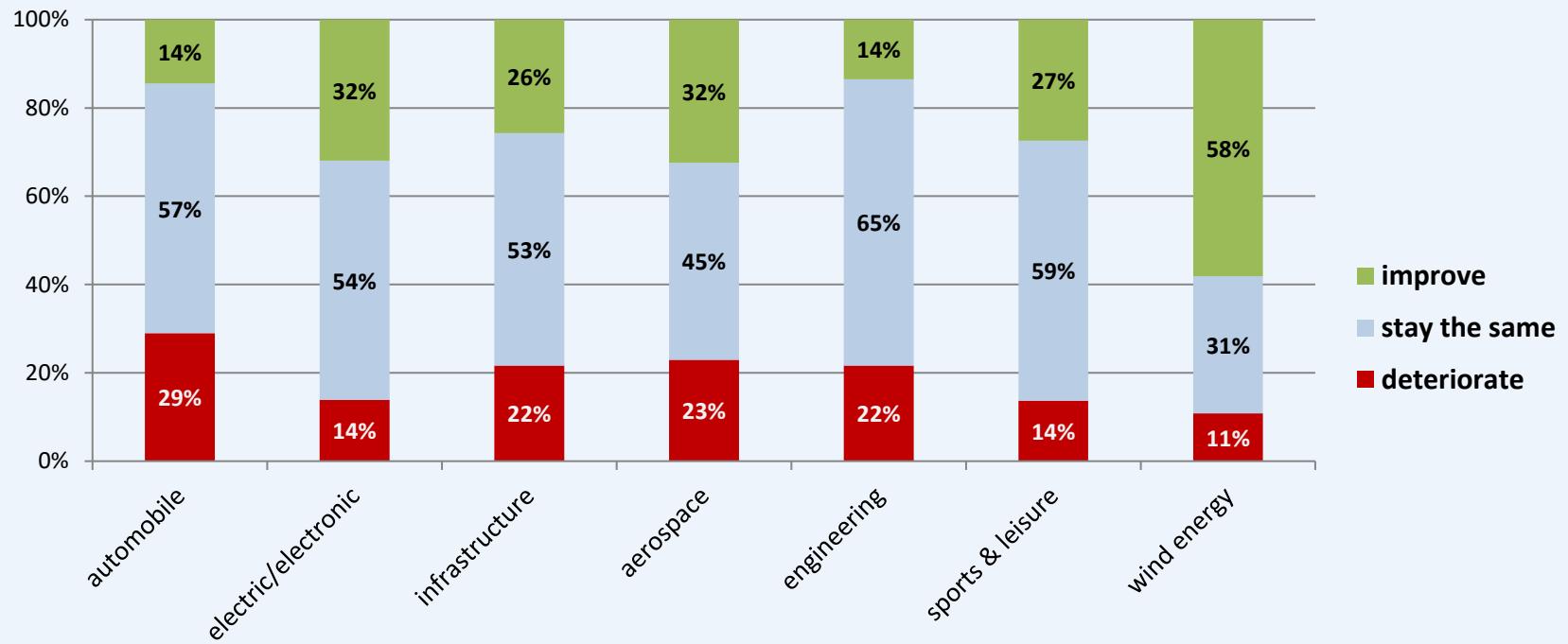
- In July 2022 the respondents of the Composites Germany Market Survey believed that that the specified application processes will develop as follows over the next six months:



Source: Composites Germany - Composites Market Survey 1/2022 - 100% missing data resulting from rounding inaccuracies

# Developments in the DACH region

- In July 2022 the respondents of the Composites Germany Market Survey believed that the composites application industries will develop very differently over the next six months:

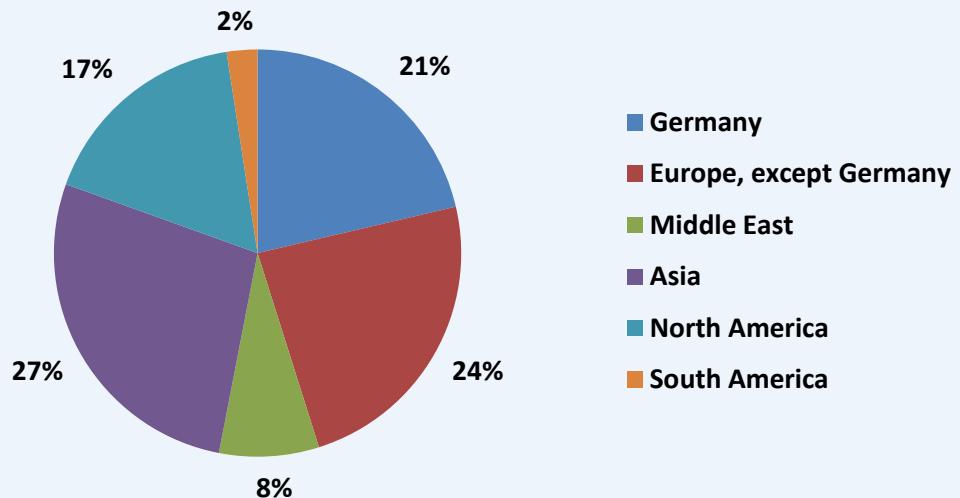


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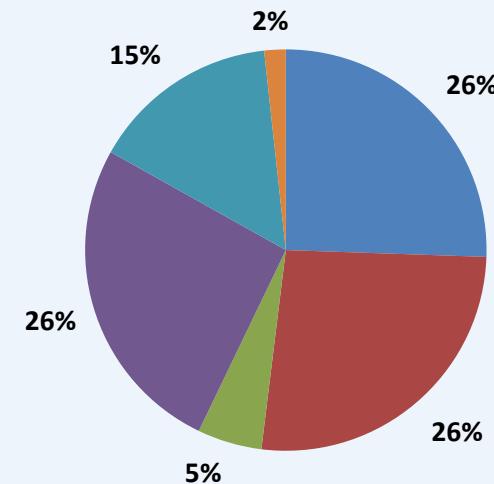
# Growth stimuli – regions

- The most important growth stimuli in the Composites segment are expected to come mostly from Germany, Europe and Asia:

1<sup>st</sup> Half 2022



2<sup>nd</sup> Half 2021

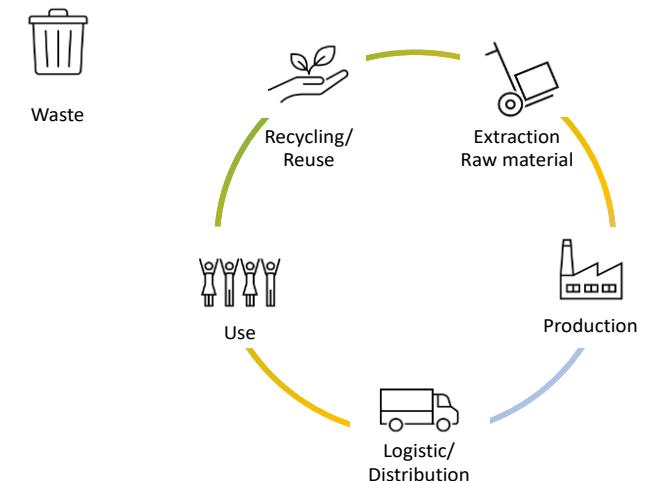


100% missing data resulting from rounding inaccuracies

# Challenges & Opportunities

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- Challenges - for the economy in general and for the composites industry, e. g.:
  - Sustainability / Recycling
    - Sustainability as core topic becoming important growth driver
    - „Overemphasis“ on Recycling vs. LCA
    - Recyclability vs. Recycling
    - Unclear Definition of „Circular Economy“ for Composites
    - Different regulations, laws and possibilities
    - Missing waste codes
    - Ecology and economy only work together
    - ...



# Challenges & Opportunities

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- **Challenges - for the economy in general and for the composites industry, e. g.:**
  - **Raw material supply e. g.:**
    - Rising energy prices
    - Rise in raw material prices/lack of availability
    - Disruption of supply chains/logistics costs/additional effects ("ever given")
  - **Market environment e. g.:**
    - Structural change in mobility (chances & challenges)
    - Renewable energies – wind industry
    - Corona pandemic (positive & negative)
    - Increasingly uncertain political international environment
    - Additional effects: e. g. Semiconductor shortage



# Challenges & Opportunities

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- **Composites on a good way to the future**
  - High potential esp. for construction & mobility applications
  - Redesign-Thinking in mobility offers a lot of chances
  - Digitalization (e.g., autonomous driving, smart cities; IoT, ... ) opens numerous possibilities
  - Material advantages (beneath lightweight potential) become better known
  - LCA-Advantages in several Applications
    - R&D on recycling is massively promoted by industry and politics
    - EuCIA LCA-Tool
    - **AVK Recycling Study**
    - Working groups @AVK
  - Several standardization activities (AVK, EPTA/EuCIA, ...)
  - Raw material prices beginning to drop
  - ...



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# Thanks a lot for your attention!

- let's stay in contact -

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