Economic importance

Economic Impact of Lightweighting

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Thursday June 8







Economic Impact of Lightweight Technology

A Lightweight Satellite Account for Austria

Stand: 24.7.2022



innovation is our business.





The overall economic importance of lightweight construction is persistently understimated



What contribution to gross value added, employment and fiscal revenues does lightweight construction trigger in Europe?

- → You will not find anything on the economic significance of the whole value added chain "lightweight construction" in Europe.
- \rightarrow Question cannot be answered directly with data from official statistics

Reasons:

- Cross-sectoral issue
- Lack of definition

- Definition of Lightweight construction
- Only direct effects, no indirect and induced effects
- Lack of data
- Lack of methods





Lightweight Satellite Accounts should not be adressed only on national but also on European level! (Harmonization)

- Definition: we need a common and harmonized definition
- Satellite account: we need lightweight satellite accounts on the national and best – at European level (use scale effects)
- Data collection: primary data collection, extensive secondary data research, improve data availability and quality
- Impact Analysis
- → to address this at the European level it needs the support of (some/most important) Member states





Different dimensions have to be taken into account within the framework of a definition for lightweight construction:

Product-based differentiation: according to goods (CPA)

Activity-based differentiation: according to economic activities (NACE)

Process-oriented differentiation: Change in production processes (cost structure or use of raw materials) through the use of lightweight materials. (not in the 1st step)

Based on technologies: Enabling technologies, applications

Definition

Enabling technologies, LW inS, LW ibS, including Services



Enabling Technologies			
B08	Other mining and quarrying		
C13	Manufacture of textiles		
C16	Manufacture of wood and products of wood		
C17	Manufacture of paper and paper products		
C20	Manufacture of chemicals and chemical products		
C22	Manufacture of rubber and plastic products		
C23	Manufacture of other non-metallic mineral products		
C24	Manufacture of basic metals		
C25	Manufacture of fabricated metal products		
C28	Manufacture of machinery and equipment n.e.c.		
	Lightweight in a narrow Sense: ET +		
C16	Manufacture of wood and products of wood		
C23	Manufacture of other non-metallic mineral products		
C25	Manufacture of fabricated metal products		
C27	Manufacture of electrical equipment		
C28	Manufacture of machinery and equipment n.e.c.		
C29	Manufacture of motor vehicles, trailers and semi-trailers		
C30	Manufacture of other transport equipment		
C32	Other manufacturing		
C33	Repair and installation of machinery and equipment		
D35	Electricity, gas, steam and air conditioning supply		
F41	Construction of buildings		
F42	Civil engineering		
F43	Specialised construction activities		

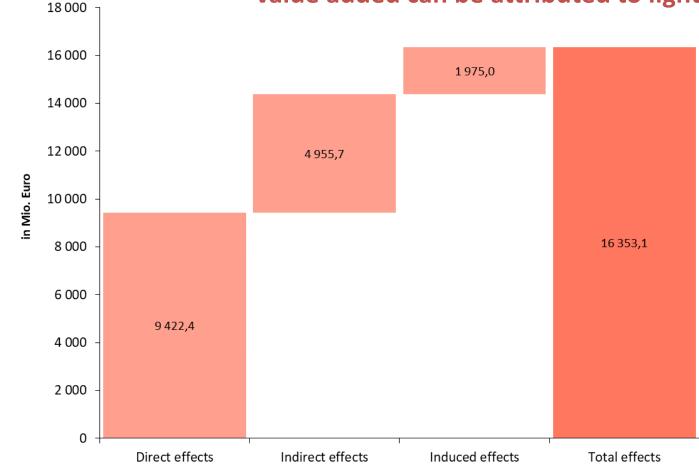
	Lightweight in a broader Sense: inS +	
C15	Manufacture of leather and related products	
C23	Manufacture of other non-metallic mineral products	
C25	Manufacture of fabricated metal products	
C26	Manufacture of computer, electronic and optical products	
C27	Manufacture of electrical equipment	
C32	Other manufacturing	
E36	Water collection, treatment and supply	
F43	Specialised construction activities	

Lightweight including services: ibS +		
G46	Wholesale	
G47	Retail trade	
J62	Computer programming, consultancy and related activities	
M71	Architectural and engineering activities; technical testing and analysis	
M72	Scientific research and development	
M74	Other professional, scientific and technical activities	
N82	Office administrative, office support and other business support activities	
N84	Public administration and defence; compulsory social security	
P 85	Education	
S 94	Activities of membership organisations	

Gross Value Added (Austria)

Total Effects, Likely Scenario





In a likely scenario, more than every 22nd euro generated in value added can be attributed to lightweight construction.

Share of gross value added:

- direct: 2.65%
- total: 4.60%

Value Added Multiplier: 1.74

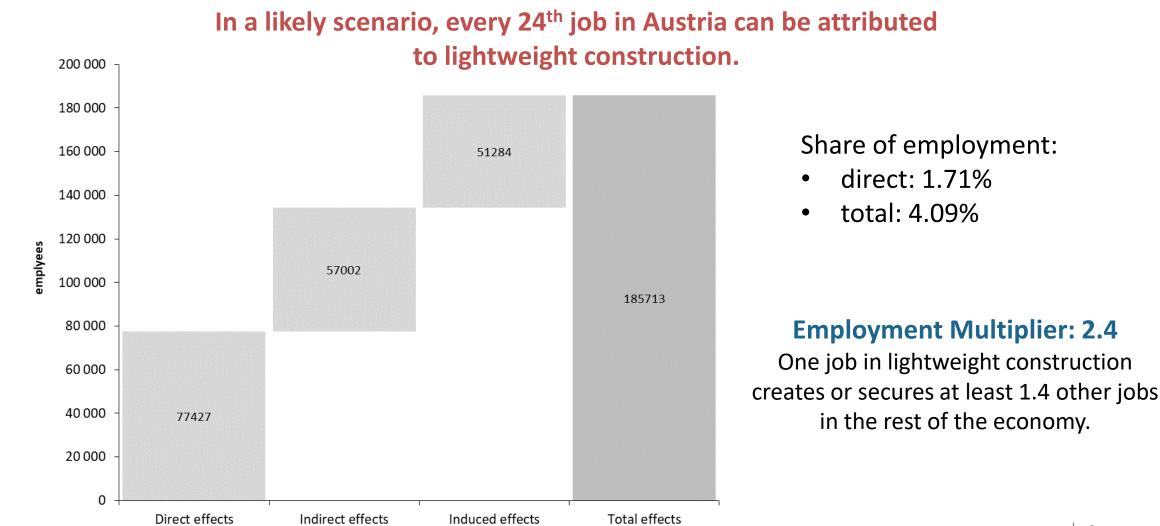
One € generated in lightweight construction triggers 0.74 € of GVA in the rest of the economy.

Lightweight construction in Austria is

- Twice as bis as construction of buildings
- almost as bis as "Accomodation + food services"

Employment Total Effects, Likely Scenario





THANK YOU

Anna Kleissner

CEO, Econmove GmbH Austria Thursday June 8

