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01









The importance of digitalization and AI in the automotive industry today

Digitalization and AI can help established automotive players navigate these turbulent times and emerge stronger









The industry is currently facing several challenges at once:



Tariffs and trade tensions



Competition from new entrants



Stricter environmental regulation



Transition to EVs and SDVs



- Digitalization and AI can help address these challenges and drive transformation by enabling players to become more agile and resilient.
- If done right, Al-based business models can even help reduce costs and complexity.



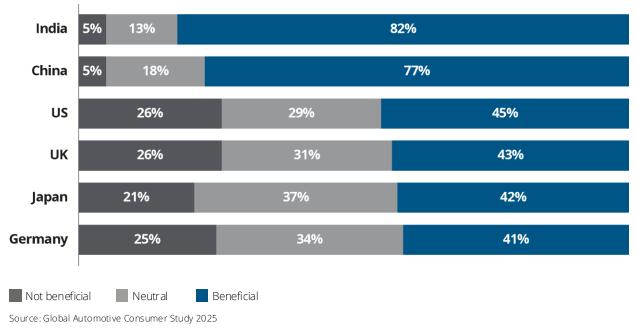


The consumer perspective on AI in vehicles

25% of surveyed consumers in Germany, the United States and the United Kingdom remain skeptical about the addition of artificial intelligence in vehicle systems

- Consumers in western markets still see Al as a double-edged sword
- Understanding their perspective is crucial for developing Al-based solutions that resonate with a broader audience
- A more holistic approach instead of isolated use cases can help deliver more value to consumers

Addition of artificial intelligence in vehicle systems



Note: Percentages may not add up to 100 due to rounding.

Q62: To what extent do you think the addition of artificial intelligence in vehicle systems (e.g., voice activated features, autonomous driving) will be beneficial? Sample size: n=939 [China]; 1,306 [Germany]; 882 [India]; 637 [Japan]; 906 [Republic of Korea]; 5,028 [Southeast Asia]; 1,314 [UK]; 937 [US]











The consumer perspective on trust in data management

A majority of consumers surveyed in Germany do not trust any of the listed entities, which could represent a challenge for companies looking to monetize connected services.

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Trust in AI is mixed; privacy and data security are major concerns

- In many markets, car manufacturers are seen by a large number of consumers as the entity to be trusted with vehicle-related data
- In order to further reduce skepticism and build trust, automotive players need to increase transparency in their handling of consumer data
- Companies need to focus on improving consumer acceptance on data-related issues

Most trusted entity for managing vehicle data

Most trusted entity	China	Germany	India	Japan	UK	US
Car manufacturer	25%	22%	28%	30%	23%	19%
Vehicle dealer	17%	17%	16%	30%	13%	16%
Financial service provider	7%	4%	11%	1%	4%	3%
Insurance company	7%	7%	10%	12%	10%	9%
Automobile club or association	6%	7%	5%	1%	4%	4%
Cellular service provider	6%	4%	7%	3%	4%	8%
Cloud service provider	8%	3%	8%	3%	6%	6%
Government agency	20%	10%	12%	3%	7%	4%
None of the above	4%	26%	3%	17%	30%	31%

Most commonly cited

Source: Global Automotive Consumer Study 2025

Note: Percentages may not add up to 100 due to rounding.
Q59. Who do you trust most to access and manage the data your vehicle generates?
Sample size: n=939 [China]; 1,306 [Germany]; 882 [India]; 637 [Japan]; 906 [Republic of Korea]; 5,028 [Southeast Asia]; 1,314 [UK]; 937 [US]

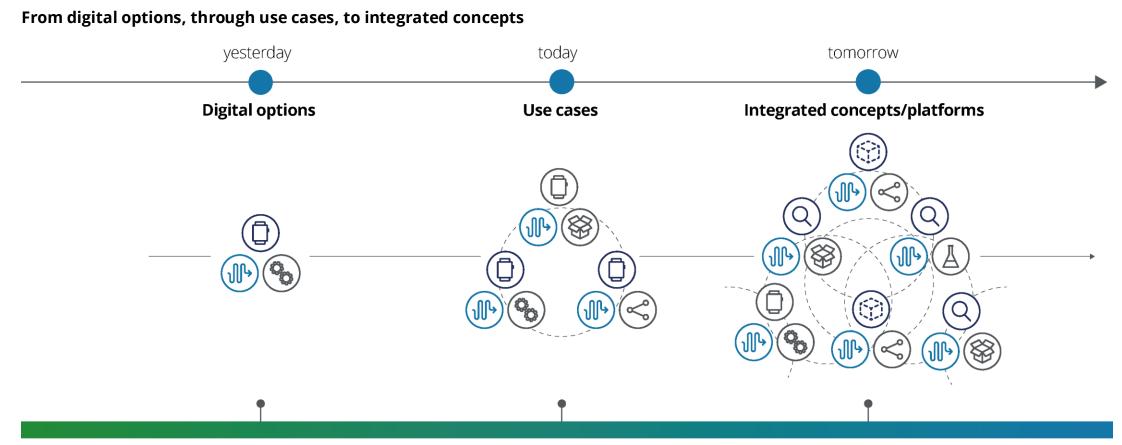




The start of a digital transformation

Combine use cases in integrated concepts to create exponential value at lower risk through your digital transformation





EBIT Impact

The goal is to achieve an integrated concept - or even better - a platform to overcome the silos of the "old world"

02 | Digital Maturity Index: Driving business growth through digitalization



We've come a long way in Germany -

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and there's still so much more to do

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Only 2% of the companies surveyed have not yet started their digital transformation as of 2025.

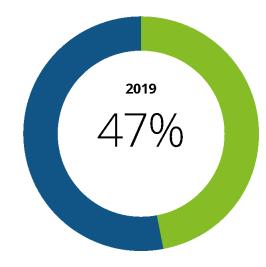
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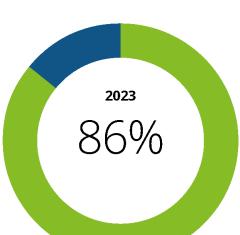
Many companies find themselves in a "dangerous middle ground" between analog and digital operations, which creates complexity without delivering efficiency.

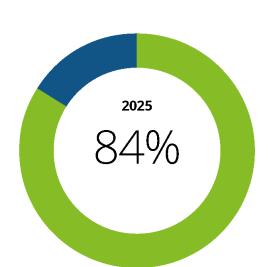


Satisfaction with transformation progress in Germany

Satisfaction rate





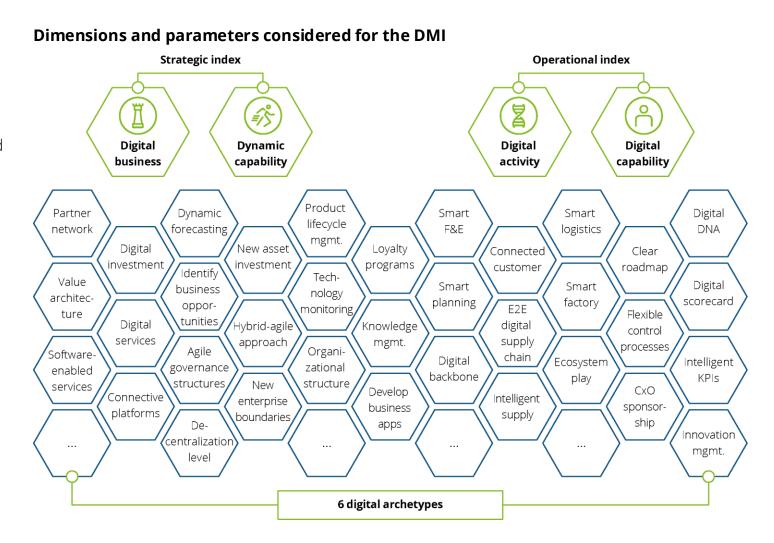


Be specific - what are we talking about?

Our benchmarking database

Our Digital Maturity Index that we developed jointly with the University of Duisburg-Essen quantifies the status quo of a digital journey covering more than 90 different operational and strategic parameters.

Based on theses parameters we have identified six different digital archetypes and allocated companies to them based on their overall digital journey and performance.









Six evolving digital archetypes





Champions combine consistent digital strategy with operational excellence to achieve a flexibility advantage





Potentials focus on developing their digital strategy hand in hand with operational excellence to achieve cost advantages





Innovators show distinct advances in digital business through an innovative portfolio but have average operational success



Operators focus on digitalizing their core value chain, founding their success on flexibility through innovative solutions



Followers seek to consistently advance digital skills in both index dimensions. Connecting initiatives is essential to improve



Laggards lack digital skills in both index dimensions using digitalization to improve overall efficiency

Strategic and operational maturity



Operational index



Be candid – where is company A in comparison to the benchmark?

More than 60% of companies are in the target area – but only 2% are champions

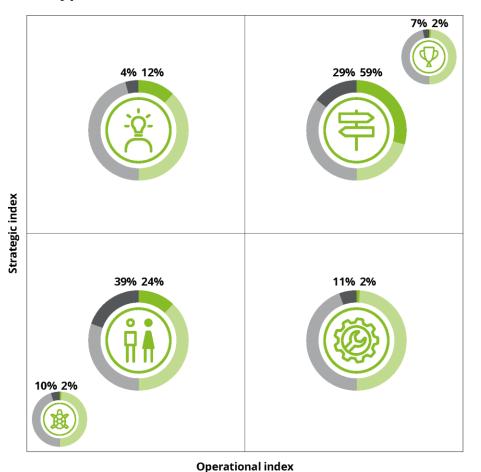


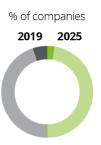






Archetypes distribution



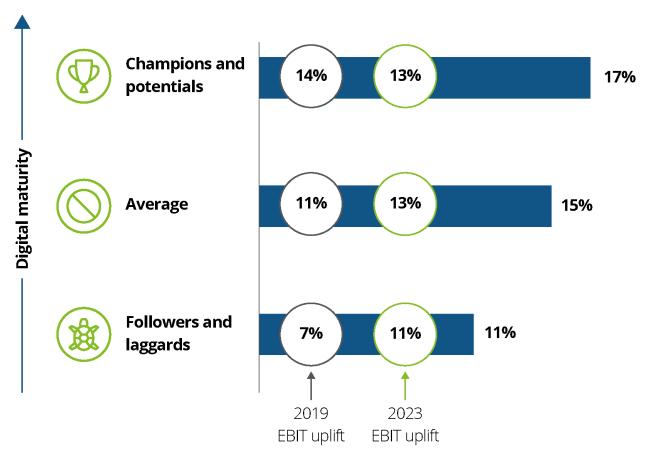


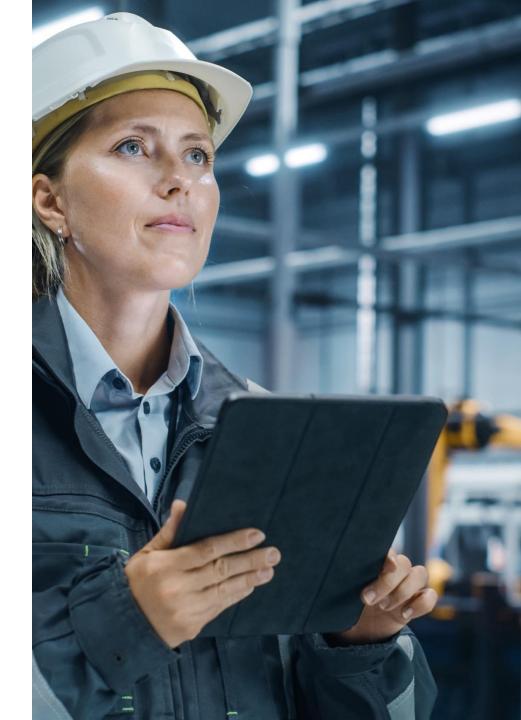


Looking ahead -

the gap between the top and bottom archetypes will widen...

EBIT uplift 2025 Germany



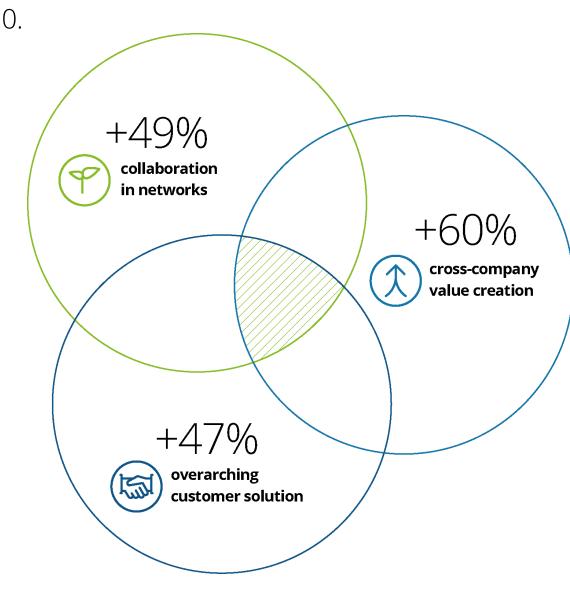


02 | Digital Maturity Index: Driving business growth through digitalization

.... and circularity and ecosystems will be the mega-topics in smart manufacturing until 2030.

Comparison between 2019 and 2025 of the share of companies involved in ecosystem-related activities

















Current state of digitalization and AI in automotive

Automotive companies are still lagging behind the industry average in terms of digitalization and AI usage, but have now started to close the gap.

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Average values for German companies across all sectors and for the automotive industry

7-point Likert scale (1 very low–7 very high)

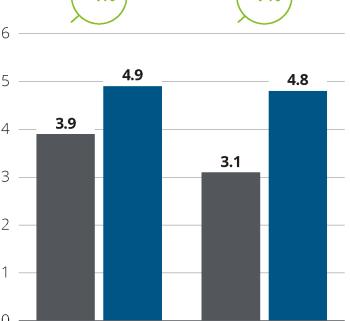
Maturity of AI usage





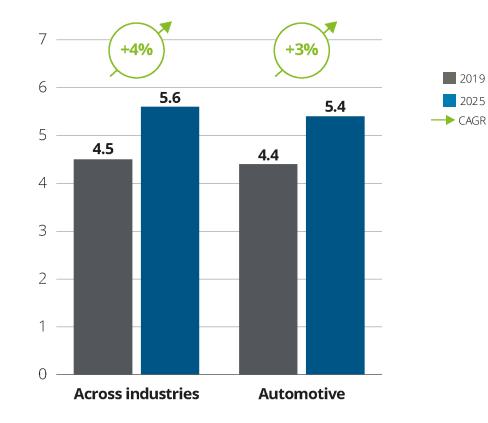


Digital maturity (DMI value)



Automotive

Across industries







Al is key to remaining competitive in the future

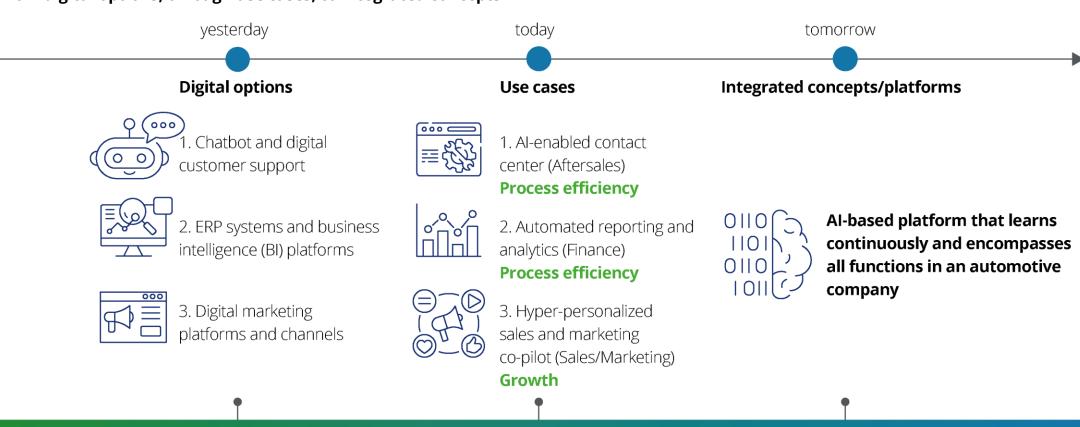
Isolated use cases need to be integrated into a holistic Al-powered platform to stimulate growth





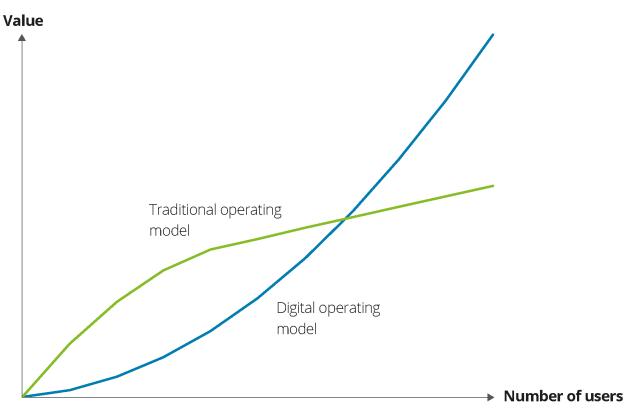


From digital options, through use cases, to integrated concepts



Asset-heavy automotive players need digital operating models to generate growth and value in the same way as technology companies

Al-based companies: leverage data for growth with minimal additional costs, contrasting with traditional capital-intensive growth models



Source: lansiti, M., & Lakhani, K. R. (2020)



Drivers of growth

In order to achieve this growth, automotive players looking for AI-based operating models can base their transformation on three pillars

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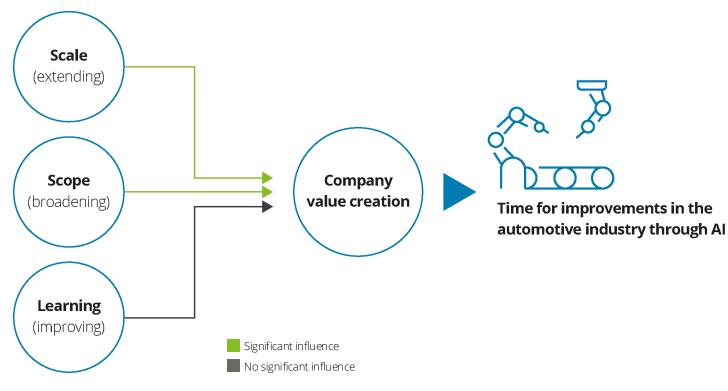
Three essential value drivers:

- Scale (expansion through isolated use cases),
- Scope (business expansion through synergies),
- Learning (continuous improvement through data analysis)

Auomotive survey findings:

 Scale and scope significantly impact value creation, but learning does not play a role – yet.

Current state of the industry regarding Al-based growth drivers



Statistical influence of important Al-based value drivers on value creation in automotive companies

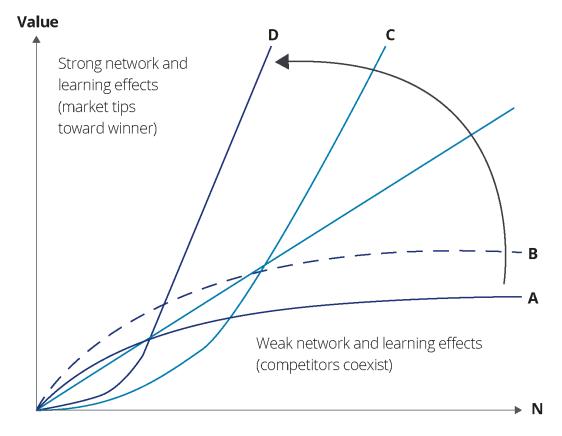
Mastering the transformation

Sustainable growth can only be achieved with a focus on network and learning effects

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- The industry has traditionally focused on continuous improvement processes and the need for interconnected optimization approaches.
- Today, strong network and learning effects are needed to achieve more value
- Ecosystems and the effective management and utilization of data are key to generate a competitive advantage.
- Companies need to leverage Al to process and evaluate the huge amounts of data generated from autonomous driving and connectivity in vehicles.

The value of network and learning effects







Strategic actions for companies



Building a connected data pool:

Outline the necessity of creating a connected data pool and developing algorithms for data-driven services



Cultural and operational shifts:

Emphasize the need for cultural and operational shifts towards digital technologies to remain competitive



Adapting to changing customer needs:

Highlight the importance of understanding and adapting to changing customer needs, particularly regarding connectivity and software preferences













While **embracing digitalization** and **AI** is essential for future growth, the true opportunity for the German automotive industry lies in its **proven ability to captivate customers with superior products**.

The industry has demonstrated over decades that it can **inspire customers with superior products**. Why should it have forgotten how to do that?

Contact and Downloads

Do not hesitate to get in touch!











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Digital Maturity Index 2025



Automotive Industry Briefing on Al



SMART FACTORY by Deloitte

Our new Smart Factory is open in Düsseldorf:

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