



E-BOOK FROM DANIEL KOBELT



BUSINESS INTELLIGENCE

Artificial intelligence & automation:
opportunities for managing directors in the digital age

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Importance of artificial intelligence in business life



*Business Intelligence
Process automation
Predictive analytics
Data analysis
Competitive advantages*

Business intelligence (BI) is the process of collecting, analyzing and presenting data to enable informed business decisions.

In contrast to traditional IT, which is primarily concerned with the management and provision of technologies and infrastructures, BI focuses on gaining valuable insights from data that strategically advance the company.

In combination with artificial intelligence (AI), BI becomes a particularly powerful tool. AI can automatically recognize patterns and correlations in large amounts of data and thus provide even more precise predictions and recommendations for action. In the rest of this e-book, I will discuss how SMEs can use BI and AI together to increase their efficiency and secure competitive advantages.

Artificial intelligence (AI) has become a decisive factor in modern business life. For entrepreneurs and managing directors, it offers a wide range of opportunities to optimize processes and increase efficiency.

The potential of AI is particularly evident in the automation of business processes, where it takes over repetitive tasks and frees up human resources for strategic decisions.

This not only leads to cost reductions, but also to an improvement in the quality and speed of services.



The use of predictive analytics allows companies to simulate complex scenarios and make informed decisions by combining historical data with advanced factors such as geopolitical developments, market trends or even seasonal fluctuations.

Through these in-depth analyses, companies can not only predict future sales figures, but also identify potential risks at an early stage and take targeted measures to flexibly adapt their strategies to changing market conditions.

This enables more precise resource planning and optimizes the chances of success in dynamic environments.

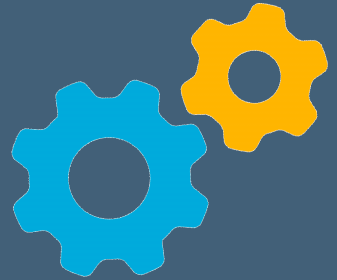


The implementation of business intelligence (BI) solutions in the manufacturing industry is another example of the transformative power of artificial intelligence.

By using AI-driven analysis tools, companies can monitor and evaluate production data in real time.

This leads to better decision-making and makes it possible to identify and eliminate bottlenecks at an early stage. The integration of AI into production not only increases efficiency, but also promotes innovation, as companies can develop new business models and products.

The fear of introducing new technologies is often an obstacle for many managing directors. However, it is important to recognize that artificial intelligence should not be seen as a threat, but as a valuable tool.



Companies that successfully implement AI can secure decisive competitive advantages.

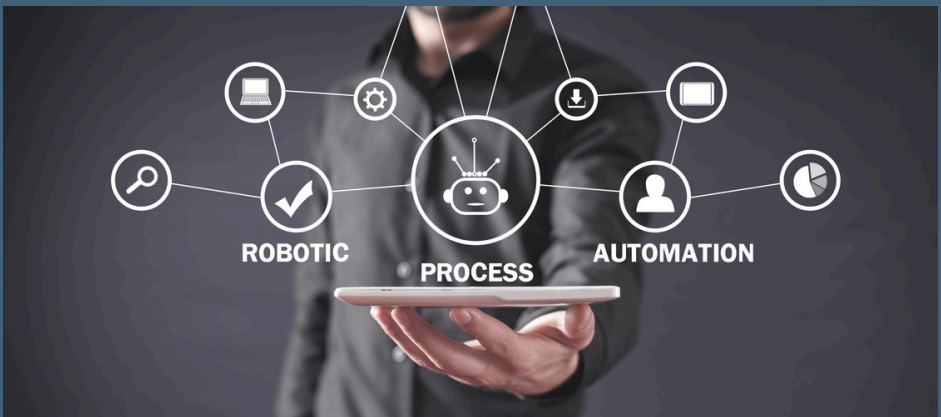
The ability to make data-based decisions and automate processes enables business leaders to be more agile and responsive to market changes.



In conclusion, the importance of artificial intelligence in business life should not be underestimated.

It opens up a wide range of opportunities for entrepreneurs and managing directors who are prepared to embrace the digital age.

The automation of business processes, the use of predictive analytics in customer management and the implementation of BI solutions in the manufacturing industry are just a few examples of how AI can help companies achieve their goals more efficiently and successfully.



Automation as the key to efficiency



Technology acceptance
Artificial intelligence
Process optimization
Data-driven Decisions
Corporate culture

Automation has established itself as one of the decisive factors for increasing efficiency in companies. Especially in today's digital world, where speed and adaptability are crucial, entrepreneurs and managers can benefit from the opportunities offered by modern technologies.

Artificial intelligence (AI) plays a central role here by automating processes that previously required manual intervention. This not only enables the reduction of error sources, but also significant time and cost savings.

One of the most notable applications of AI in automation is the optimization of business processes. By using AI-powered tools, companies can automate repetitive tasks, giving employees more time for strategic and creative activities.

But AI goes far beyond mere automation. It enables in-depth analysis of company data and can provide specific instructions and recommendations on this basis. AI systems continuously learn by processing and analyzing information and improving the accuracy and efficiency of analyses through feedback loops.

This means that companies not only receive past-related insights, but also future-oriented predictions and recommendations for strategic decisions. This makes it possible to make well-founded and precise decisions that sustainably increase the company's growth and competitiveness.

AI becomes a learning partner that adapts to the individual needs of the company and supports its strategic direction.

This redistribution of resources leads to higher productivity and employee #motivation, as the workforce can concentrate on value-adding activities.

Managing directors should therefore consider integrating AI solutions into their operational processes in order to sustainably increase efficiency.



The implementation of Business Intelligence (BI) solutions in the manufacturing industry is another key to efficiency. BI systems enable companies to monitor key performance indicators in real time and make informed decisions.

By automating data collection and analysis processes, productivity, profitability and profitability can be measured at the touch of a button. All relevant business indicators can be visualized and simulated.

The opportunities offered by automation are diverse and promising. Managers should proactively take advantage of AI and automation to transform their business processes. By investing in modern technologies and training their employees accordingly, they can not only increase efficiency, but also secure the long-term competitiveness of their company.



Challenges in the digital age

One of the biggest challenges that managing directors have to overcome in this context is the acceptance of technology within their organization. Many employees are skeptical about new technologies, which can lead to resistance.

It is crucial to create a corporate culture that encourages innovation and change. Training and transparent communication are essential to allay fears and increase understanding of the benefits of AI and automation.



By actively involving the workforce in the transformation process, managers can not only expand their skills but also increase confidence in the new systems.

When implementing business intelligence (BI) solutions in the manufacturing industry, managers face the challenge of identifying the right data sources and using them effectively.

Creating data-driven decision-making is essential for optimizing production processes. This requires not only technical know-how, but also a deep understanding of the specific requirements and challenges of the industry. Managing directors who take a close look at BI solutions can not only make their production processes more efficient, but also increase the quality of their products.

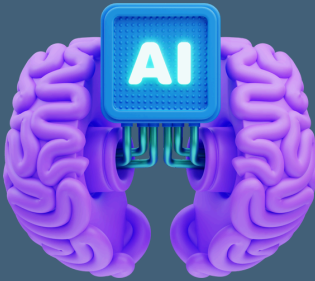


In summary, it can be said that the opportunities in the digital age are enormous for managing directors and entrepreneurs, but they are also associated with challenges. The successful implementation of AI and automation requires a clear strategy that takes both technological and human aspects into account.

By promoting a positive attitude towards new technologies and actively involving employees in the transformation process, managing directors can set the course for a successful digital future. The commitment to proactively tackle these changes will make the difference between a stagnant and a dynamic, future-oriented company.



Basics of artificial intelligence



*Machine learning
Data integration
Data strategy
Customer satisfaction
Competitive advantages*

A key element of AI is machine learning, which enables systems to learn from data and improve their performance over time. In practice, this means that entrepreneurs and managers must use predictive analytics to derive the right conclusions for action instructions and feed the results back into the respective system so that the AI is continuously improved.

Another important aspect is data integration. The ability to combine different data sources is critical to the success of AI applications.

Business leaders should recognize the importance of a solid data strategy that enables them to use relevant information effectively.

A well-designed data infrastructure is key to successfully implementing AI-powered solutions and achieving sustainable competitive advantage. A well thought-out data strategy is the foundation of any successful AI implementation. It defines how data is collected, stored, managed and analyzed in order to gain valuable insights.

A key aspect of this is the quality of the data: Only through clean, well-structured and relevant information can AI systems deliver precise results. It is equally important to ensure that data sources are linked and accessible in order to provide a holistic view of the company. This often raises the question of the cost of a solid data strategy. Many companies fear that building a powerful data infrastructure will involve significant investment in new technologies and systems.



However, this does not have to be the case. With the right approach, existing infrastructures can be used and optimized without expensive investments in new systems.

In conclusion, CEOs who want to actively shape the future of their companies should familiarize themselves with the possibilities and application areas of AI in order to develop more innovative and efficient business models.

Application examples of AI in business processes:

The application of artificial intelligence (AI) in business processes offers companies a wide range of opportunities to increase their efficiency and secure competitive advantages.

One outstanding example is the automation of routine tasks, which can be realized by AI systems such as robotic process automation (RPA).

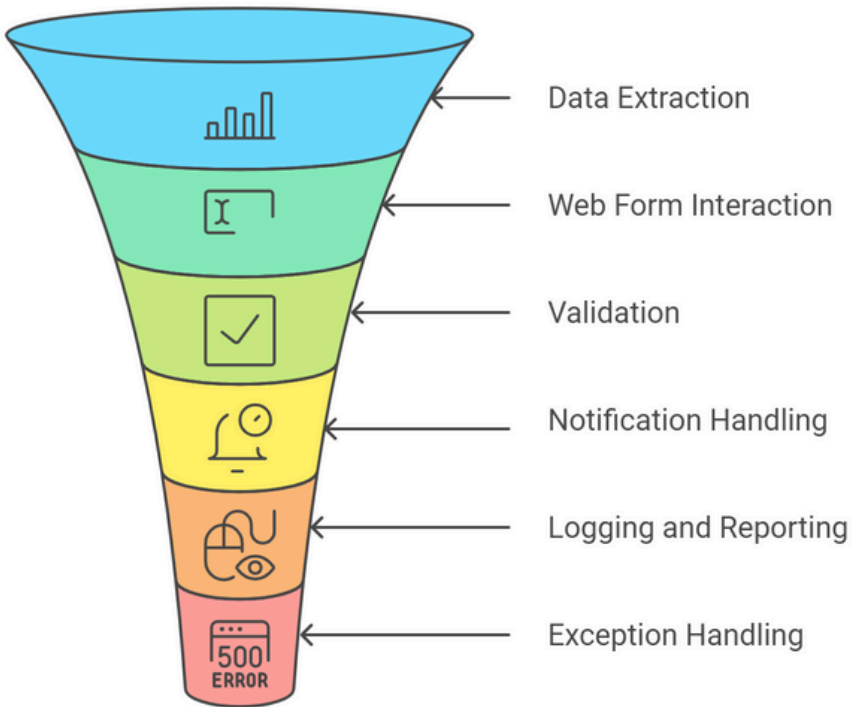


RPA is a technology that enables companies to automate repetitive and rule-based tasks using software robots. These bots interact with existing IT systems and applications to carry out manual processes such as data entry, invoice processing or customer communication efficiently and error-free.

By using RPA, companies can increase their productivity, reduce costs and relieve their employees of routine tasks so that they can focus on value-adding activities.

RPA Web Form Submission Process

Web Form Data



Completed Submission



EXAMPLE:

A company in the HVAC-R industry used Robotic Process Automation (RPA) to automate warranty requests from its customers. The bot checked each form completed by the customer against specific criteria.

If all the necessary conditions for a positive warranty processing were met, the relevant cases were automatically forwarded to the responsible processing office. Cases that did not meet the criteria were automatically forwarded by email to the relevant departments.

This process automation saved the company over 2000 hours of manual work each year. The resources freed up as a result were equivalent to an average additional profit of €160,000 per year. This shows how repetitive tasks that were previously carried out manually can lead to considerable savings potential.

One consequence of this innovation project was that the management recognized the added value of automation projects and created a separate department for digitization projects. This department has the task of uncovering as much optimization potential as possible in order to enable further increases in efficiency through process automation.

Application examples of AI in business processes:

Another promising area of application for AI is predictive analytics in customer management. By analyzing large amounts of data, companies can gain valuable insights into the behaviour and preferences of their customers.

AI algorithms identify patterns and trends that make it possible to develop personalized marketing and sales strategies and respond to customer needs in good time.



Managing directors who use predictive analytics can not only increase customer satisfaction, but also boost customer loyalty and ultimately increase their company's turnover.

RFM analysis is a method for evaluating and segmenting customers based on their purchasing behavior. It takes into account three key factors: Recency (How recently has the customer made a purchase?), Frequency (How often has the customer made a purchase?) and Monetary (How much money has the customer spent?).

By analyzing these factors, companies can divide their customers into different groups, for example to distinguish loyal customers from less active customers. This information helps to develop targeted marketing and sales measures to increase customer satisfaction and promote long-term business relationships.



EXAMPLE:

Based on the RFM, the sales department can identify which customer has not purchased for a while and instruct the sales representative to visit the customer personally to find out what obstacles the customer has to ordering more.



Example of an RFM analysis to identify customer potential.

Implementation of predictive analytics in the company



*Risk management
Technologies
Strategy
Key production figures*

The implementation of predictive analytics in companies represents a significant advance in the field of artificial intelligence and offers managing directors and entrepreneurs the opportunity to optimize their business processes in a targeted manner.

By analyzing historical data and identifying patterns, companies can make predictions about future trends and customer behavior.

These valuable insights enable executives to make informed decisions and proactively adapt their strategies to meet the needs of their customers.

An important step towards the successful implementation of predictive analytics is the selection of suitable technologies and tools. Managing directors should ensure that the selected solutions can be seamlessly integrated into existing systems.

Modern business intelligence (BI) solutions often already offer integrated functions for predictive analytics, which make it easy to handle and analyze large volumes of data. By combining BI and predictive analytics, companies can not only increase the efficiency of their processes, but also gain valuable insights into their target groups.

Employee training and development is another critical factor in the successful adoption of predictive analytics. Managers should consider developing specific training programs that enable employees to use the new technologies effectively.

A well-trained team will be able to interpret the data obtained and derive appropriate measures to strengthen customer loyalty and increase customer satisfaction. A positive corporate culture that promotes innovation and learning will significantly support the implementation process.

TEAM

In summary, it can be said that implementing predictive analytics in a company is a valuable investment. Managers and entrepreneurs should see this technology as the key to transforming their business processes and improving customer management.

With the right strategy, the right tools and a dedicated team, nothing stands in the way of successfully implementing predictive analytics in your own company.



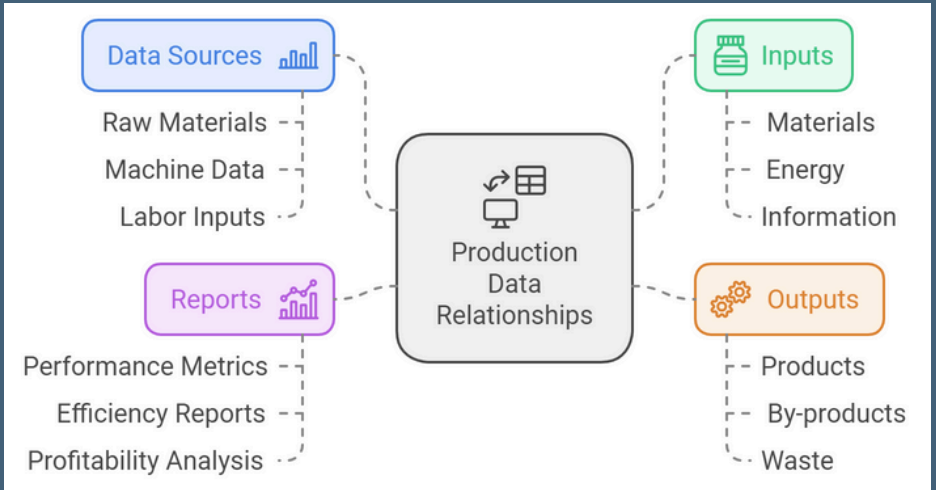
Use this opportunity to future-proof your company and gain a decisive advantage in the digital age.

Implementation of BI in the manufacturing industry

The implementation of business intelligence (BI) solutions in the manufacturing industry is another example of the positive impact of AI on business processes.

By using AI-powered BI tools, companies can analyze their production data in real time and make informed decisions.

This leads to improved resource utilization, increased production speed and a reduction in downtime. Managers who invest in BI solutions ensure that their company remains agile and can react quickly to market changes.



In addition to increasing efficiency, AI can also play a key role in risk mitigation. In many industries, it is crucial to identify potential risks at an early stage and take appropriate measures. Artificial intelligence can help identify risks by analyzing data from various sources and detecting warning signals. Managers who use AI-powered risk management tools can make proactive decisions that ensure the security and stability of their business.

In summary, the integration of artificial intelligence into business processes is not only a necessity, but a valuable opportunity for business leaders.

Improving automation, applying predictive analytics and implementing BI solutions are just some of the ways AI can transform businesses.

By embracing these technologies, business leaders can not only increase efficiency, but also ensure their competitiveness in the digital age.



Advantages of automation through AI



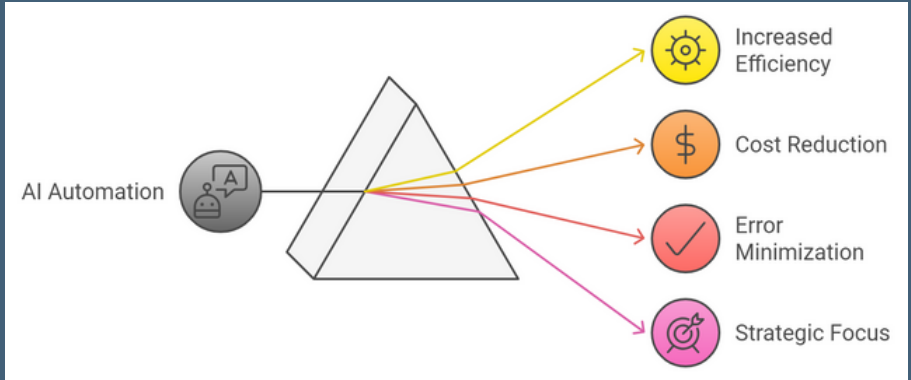
AI automation Success stories Product innovation

Automation through artificial intelligence (AI) offers companies numerous advantages that are particularly important for entrepreneurs and managing directors in today's digital age. By using AI technologies, business processes can be made more efficient, leading to a significant increase in productivity.

These efficiency gains enable companies to deploy resources in a more targeted manner and focus on strategic tasks. This is particularly important in a highly competitive market where speed of action and adaptability are crucial.

In addition, automation through AI promotes a company's innovative strength. By automating repetitive and time-consuming tasks, employees have more time for creative and value-adding activities.

This can lead to new ideas and improvements in product development. Managing directors benefit from a dynamic working environment that encourages innovation and makes the company future-proof.



Advantages of automation through AI:

In today's business world, where data is the new oil, many companies have recognized the opportunities that arise from the implementation of Business Intelligence (BI) solutions. Especially in the manufacturing industry, companies have achieved significant efficiency gains through the targeted use of BI technologies.

One example is a medium-sized company that was able to achieve a 15% reduction in production costs by integrating a BI system to analyze production data. These savings resulted from better identification of bottlenecks and optimization of supply chains, which not only increased profitability but also strengthened competitiveness.



Another inspiring example comes from the field of customer management. A company that used predictive analytics was able to significantly improve its marketing strategies by analyzing customer behavior and preferences. By predicting which products were most in demand among certain customer groups, the company was able to optimize its stock levels and increase sales by 20%.

These data-driven decisions not only led to higher sales, but also to greater customer loyalty, as customers felt that their needs were being recognized and taken into account.

The implementation of BI solutions also offers the opportunity to automate internal processes and thus save valuable time and resources. One example of this is an automotive supplier that was able to drastically reduce the error rate in production by using a BI system to record and analyze quality data.

By identifying quality problems at an early stage, corrective measures could be implemented more quickly, leading to a significant improvement in product quality. This not only strengthened customer confidence, but also significantly reduced the costs of reworking and recalls.





Another notable example is a company in the food production sector that used BI solutions to improve efficiency in the supply chain. By analyzing sales data and market trends, the company was able to optimally adjust its production plans and avoid overproduction. This not only led to cost reductions, but also to more environmentally friendly production, as less waste was produced. The successful implementation of these BI solutions has made the company a pioneer in the industry and shows how technology and sustainability can go hand in hand.

In summary, the success stories of BI implementations illustrate not only the versatility of these technologies, but also the immense potential that lies in data-driven decision-making. CEOs and entrepreneurs should use these positive examples as inspiration to dive into the world of artificial intelligence and automation themselves.

The implementation of BI solutions not only offers opportunities to increase efficiency and reduce costs, but also to create a more sustainable and customer-oriented company. The future belongs to companies that are prepared to use data intelligently and pursue innovative approaches.

Development of a digital strategy



Developing a digital strategy is crucial for entrepreneurs and business leaders in today's business world. At a time when artificial intelligence and automation are becoming increasingly important, it is essential to have a clear plan that promotes the integration of these technologies into business processes.

The first step in this process is to identify your company's specific goals and requirements.

Which business processes can be optimized through automation? What data is available that can be used for customer management through predictive analytics?

A comprehensive analysis of these aspects lays the foundation for a successful digital strategy.

A central aspect of the digital strategy is the selection of suitable technologies that meet the specific needs of your company. Artificial intelligence offers numerous opportunities to automate routine tasks and increase efficiency. At the same time, BI solutions provide a deeper insight into manufacturing processes and the company's performance.

The identification of suitable tools and the implementation of these solutions should be closely linked to the defined business objectives.



It is important that employees are integrated into the process in order to create a broad understanding and a high level of acceptance for the new technologies.

Another key to developing an effective digital strategy is the training and development of your employees. The introduction of new technologies often requires an adaptation of existing skills and knowledge.

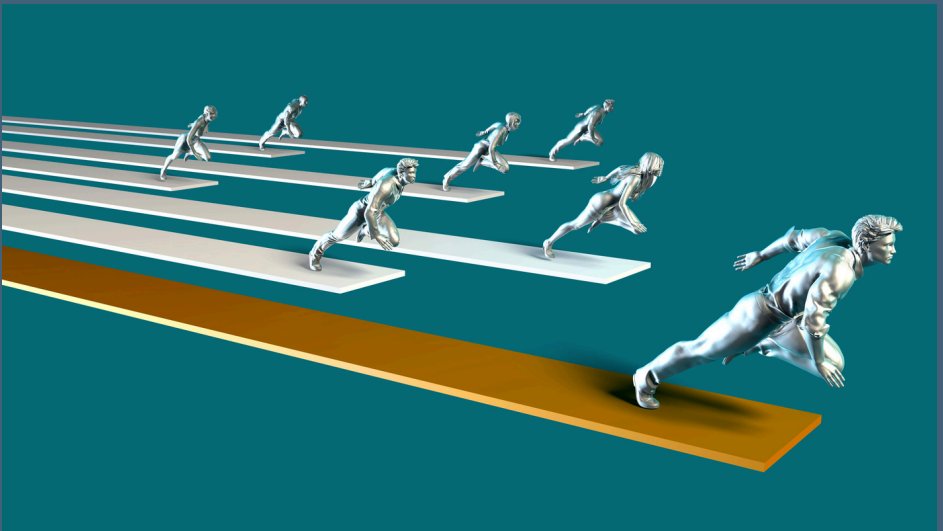
Investing in training programs is therefore essential to ensure that your team is able to make the most of the new tools.



A well-trained workforce will not only facilitate the implementation of artificial intelligence and automation, but will also contribute to a culture of innovation and continuous improvement.

In addition, a digital strategy should also focus on data management. Predictive analytics can only be used effectively if the data collected is of high quality and is processed in a meaningful way.

Developing clear guidelines for data storage and analysis is crucial to gaining valuable insights and making informed decisions. By using BI solutions in the manufacturing industry, you can not only optimize your production processes, but also gain a competitive advantage by reacting faster to market changes.

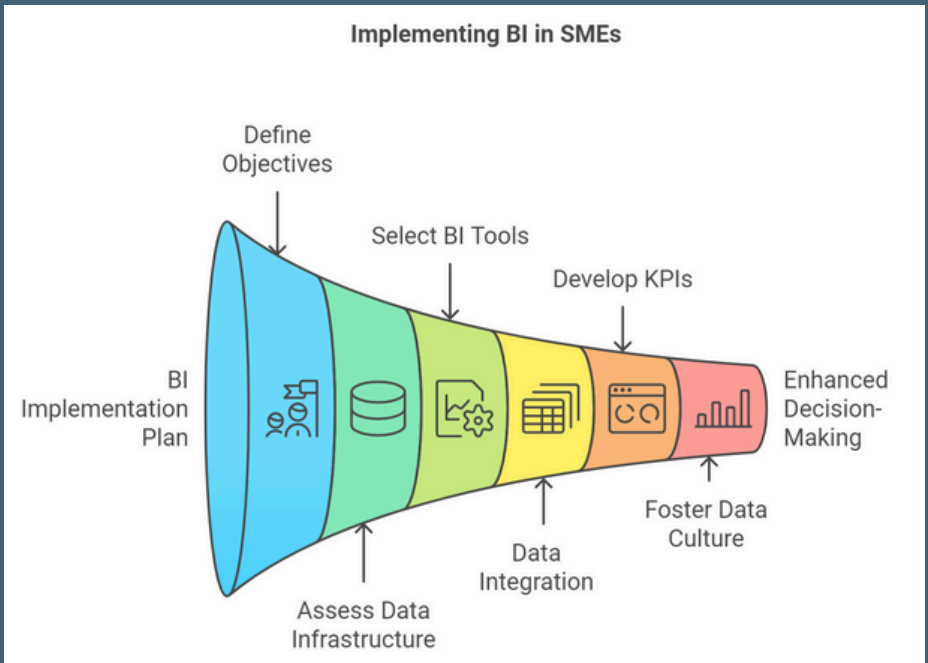


In conclusion, developing a digital strategy is an ongoing process that requires regular reviews and adjustments. Technology is constantly evolving, and so are the opportunities that arise for your company.

Don't see digital transformation as a one-off task, but as an opportunity to future-proof your business.



By proactively responding to change and continually adapting your strategy, you can ensure that you remain successful in the digital era and make the most of the opportunities offered by artificial intelligence and automation.



Dealing with change and resistance:

Change is inevitable in the digital age, especially when it comes to implementing artificial intelligence and automation in business processes. Managing directors and entrepreneurs are faced with the challenge of not only adapting their companies to new technologies, but also taking their employees with them.

A conscious approach to these changes can make the difference between success and failure. Instead of seeing resistance as a threat, you should see it as an opportunity to develop a stronger team and innovative solutions.

A key aspect of dealing with change is communication. Open and transparent conversations about the goals and benefits of the new technologies will build employee trust.



Inform your team about the implementation of predictive analytics in customer management and explain how these technologies can help to increase efficiency and improve customer loyalty.

When employees understand how their work is supported by artificial intelligence, they are more willing to accept and actively shape change. This educational work is known as change management and should never be underestimated.

No matter how good a digital initiative is, it is doomed to failure if the workforce does not recognize the added value.



It is also important to celebrate successes, no matter how small they may seem. Recognizing progress in the use of new technologies creates a positive work environment and motivates your employees to continue to actively participate in change processes. Share successes that have been achieved through the use of artificial intelligence and show how these successes benefit the entire company. This not only promotes acceptance, but also inspires others to proactively embrace change.



Another important factor is training and further education. Employees need the right tools and knowledge to navigate a rapidly changing landscape. Invest in training programs that promote the use of new BI solutions in the manufacturing industry.

Through targeted training and workshops, you can not only expand the skills of your employees, but also strengthen their motivation and commitment. A well-trained team is better able to overcome challenges and view change as part of the continuous growth process.

In conclusion, dealing with change and resistance is a key skill for managing directors in the digital age. Through open communication, targeted training and celebrating successes, you can create an environment that not only accepts change, but actively shapes it. Take advantage of the opportunities presented by the implementation of artificial intelligence and automation to future-proof your company and bring your employees along on this exciting journey.



Digital transformation.

In conclusion, I hope that this e-book has provided you with valuable insights and practical suggestions for the application of artificial intelligence in SMEs. The possibilities offered by BI and AI are limitless and offer SMEs in particular enormous opportunities to optimize processes and increase efficiency.

If you would like to dive deeper into the topic or develop customized solutions for your company, visit my website [MYKORISA](https://www.mykorisa.com), where you will find more resources, workshops and personal consulting offers. Scan the QR code and let's shape the future of your business together!



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