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IMAGE SOURCE: AREALCONTROL

The Future of Telematics

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Anyone involved in the construction industry hears the word “telematics” over and over. LECTURA Press has taken up the subject and found an expert for this topic. Ulric Rechtsteiner, Managing Director of AREALCONTROL GmbH, has taken the effort to provide us and our readers with everything worth knowing about “telematics” in the construction industry. The result is an interesting series of 5 articles that we present to you one by one.

The Future of Telematics

The construction industry is one of the most important industries worldwide and the introduction of telematics has contributed to a significant improvement in work processes and efficiency in recent years. Telematics makes it possible to network machines and equipment, as well as workflows and processes, to ensure better control and monitoring.

In the future, telematics will play an even greater role in the construction industry. One development is the integration of autonomous vehicles and robots in construction projects, called "CoBots" in the industry, i.e. "collaborative robots". These can be used both in material logistics and in carrying out construction work. By networking these autonomous systems, the construction industry can also be made more efficient and safer.

Another important aspect is the introduction of augmented reality (AR) and virtual reality (VR) in the construction industry. By using AR and VR technologies, construction workers can, for example, view virtual plans or receive instructions in real time. This can lead to faster and more precise execution of construction work.

Telematics can also help improve sustainability in the construction industry. By networking machines and equipment, energy consumption and emissions can be reduced. Telematics can also help to ensure that materials and resources are used more efficiently, which in turn helps to protect the environment.

In summary, telematics has a great future in the construction industry. The integration of autonomous systems, AR and VR technologies as well as the increase of sustainability will play an important role. Telematics will make the construction industry more efficient, safer and more environmentally friendly.



AREALCONTROL: Digital Construction Site

IMAGE SOURCE: AREALCONTROL

Telematics is not only used in the construction industry to monitor construction sites and machines, but also to automate accounting processes. With the help of telematics systems, for example, working and driving times can be recorded and automatically transferred to billing. This saves time and reduces errors in manual recording.

Dispatching and route planning can also be simplified by telematics. With the help of GPS tracking systems, the locations of vehicles can be recorded in real time, which enables optimal control of logistics processes. Tour planning can thus be made more efficient and cost-effective.

Artificial intelligence such as machine learning can also be used in the construction industry for predictive maintenance. With the help of sensors, machine data can be collected and analysed to predict impending failures and schedule appropriate maintenance work. This can increase the availability of machines and

equipment and avoid expensive repairs.

Another important aspect of telematics in the construction industry is the so-called workshop 4.0. By networking machines and equipment, maintenance and repair work can be planned and carried out automatically. Machine learning is also used here, for example to predict the wear and tear of components and to order the necessary spare parts in good time.

Overall, telematics in the construction industry offers great potential for more efficient and precise control of work processes. The automation of billing processes, simplified scheduling and route planning, as well as the use of artificial intelligence for predictive maintenance and workshop 4.0 will permanently change the construction industry in the future and provide new challenges and opportunities.

Curious now?

Read the sequel "[OEM versus retrofit telematics](#)". Coming soon!

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