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Global IoT Technology

Efficient and sustainable: IoT for autonomous robotics



Deutsche Telekom is empowering autonomous robots via global 5G, satellite connectivity, and precise positioning with an accuracy of up to four centimeters.

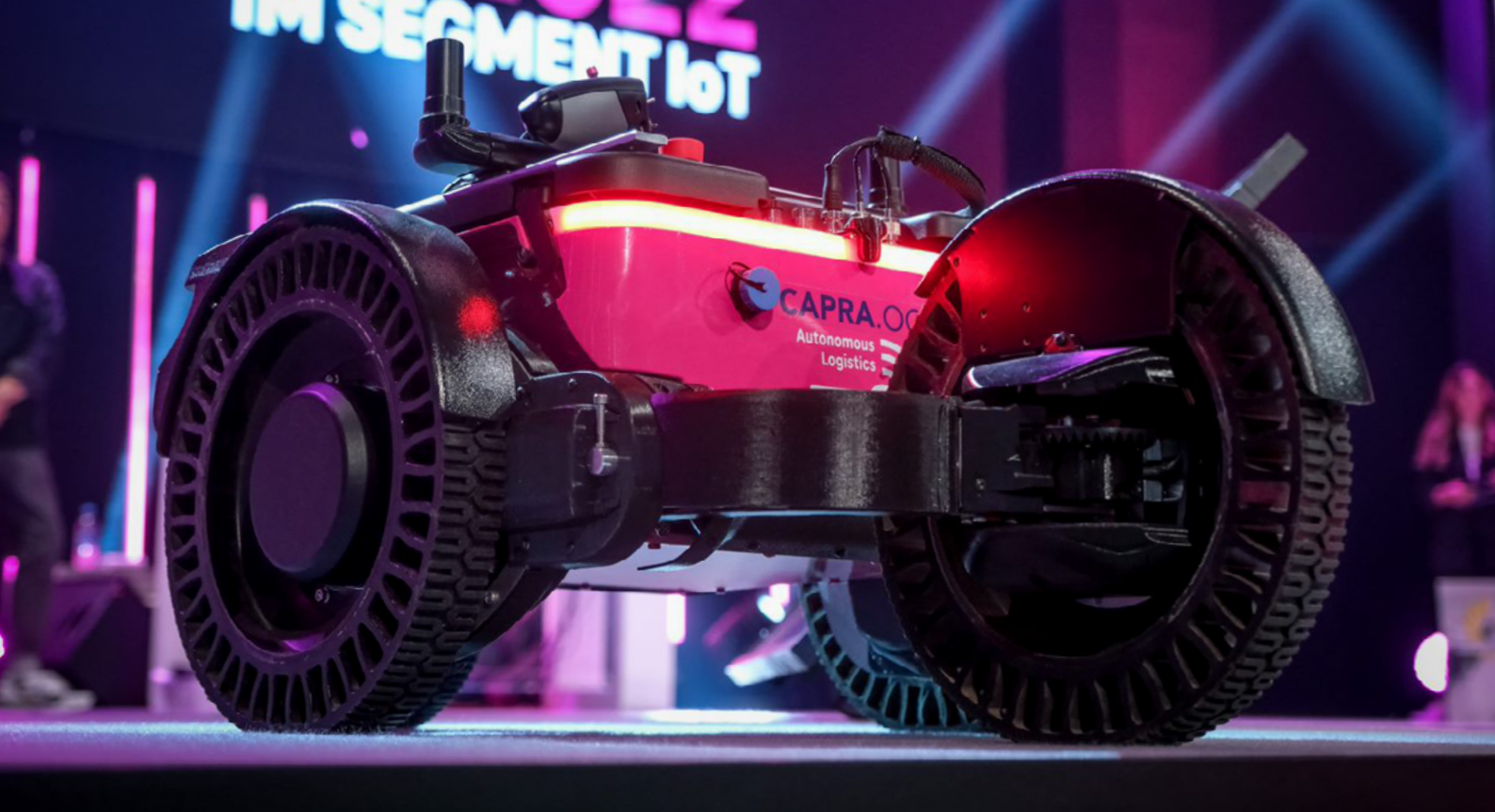
Assisting humans by taking over repetitive and dangerous manual tasks, autonomous robots powered by IoT technology are entering various fields of application. While every task requires specialized tools on the robot itself, the requirements for connectivity and IoT are always present in the form of reliable coverage, smart control, and precise localization.

Key facts

- IoT provides a superior global network of cellular and satellite coverage across all continents
- Autonomous navigation in robotics is enabled with precise positioning
- Capra Robotics uses precise positioning to perform tedious and dangerous tasks autonomously
- The broad range of use cases includes logistics, transport, cleaning, care, and even agriculture
- Enables sustainability



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Autonomous mobile robots have the potential to increase efficiency, safety, and sustainability in many industries. Deutsche Telekom IoT enables autonomous robotics by providing seamless, reliable connectivity all over the world through 5G and satellite IoT with native networks on both sides of the Atlantic and roaming agreements with over 600 selected partners globally. Furthermore, we offer precise positioning technology as the solution for ensuring increased accuracy and safer navigation together with our partner Swift Navigation. The Capra robot shown as an exhibit is a versatile autonomous platform that can carry out tedious and sometimes dangerous tasks otherwise performed by humans. To present the wide range of applications covered by this robot we showcase a host of different use cases, e.g. cleaning and care in a smart city, transportation and logistics for people and goods, autonomous lawn care, and agriculture – in both urban and industrial or rural settings.

These use cases increase sustainability in many different ways – by using smaller electric machines, operating more efficiently, or enabling the highly focused use of chemicals and fertilizers in autonomous agriculture. By deploying resources efficiently based on needs and providing support in our daily activities, autonomous robotics can help us achieve an increasingly sustainable future.

Our customers trust in our connectivity, regardless of company size. Small and highly innovative businesses such as the Danish company Capra Robotics are building on Deutsche Telekom's global footprint, as it enables them to scale their robotic technology across the globe. At the same time, many of the large leading OEMs for autonomous systems rely on Deutsche Telekom IoT for global connectivity and precise positioning. Combining our expertise with your ideas, we partner you in driving your business forward in every aspect of digitalization. Get in touch with our experts to discover the full potential of IoT.



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