MWC 2025
BARCELONA
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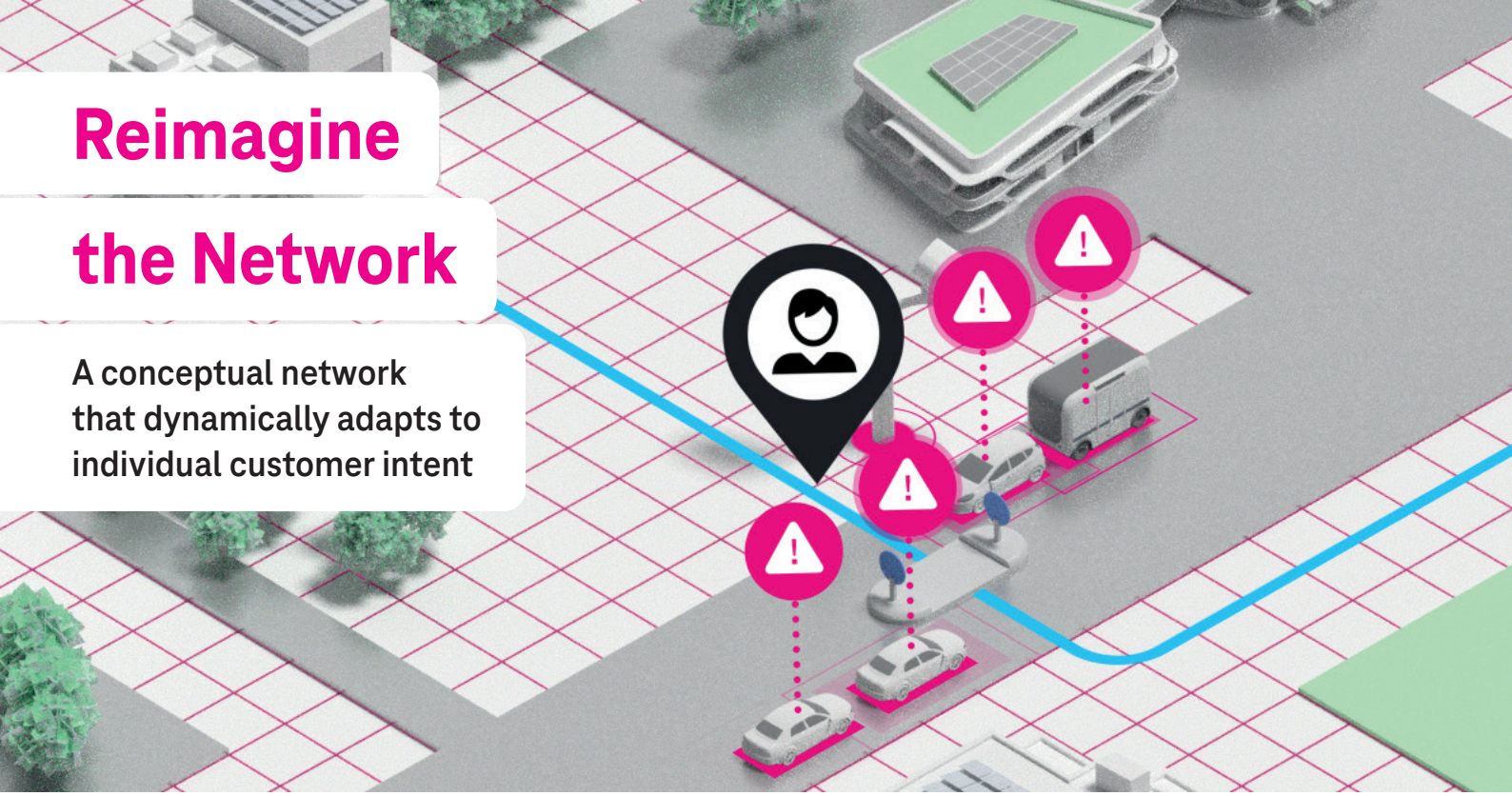
SHAPING TECHNOLOGY FOR ALL

Reimagine the Network

A conceptual network that dynamically adapts to individual customer intent



Deutsche Telekom has developed a human-centric approach to future networking that optimizes resource utilization by dynamically activating and/or deactivating resources services according to customer needs. It leverages the capabilities of intelligent UEs and integrates these into a programmable network capable of interconnecting access technologies via IP. An AI-driven common control plane continuously derives the required configuration of the network and manages the life cycle state of its components via closed-loop automation. The approach allows for a simplified federation of communication services, e.g., to extend coverage or embed value-added services.

Key facts

- Customer intent-driven provisioning of communication services
- Extended APIs allow intelligent UEs to make better use of network services
- AI control plane integrates all access technologies and programmable networks via plain IP
- Switch on required network components and layers only – “zero bit – zero watt”
- Optimized utilization of resources via dynamic life cycle state management
- Simplifies the integration of IP-based communication services provided by third parties

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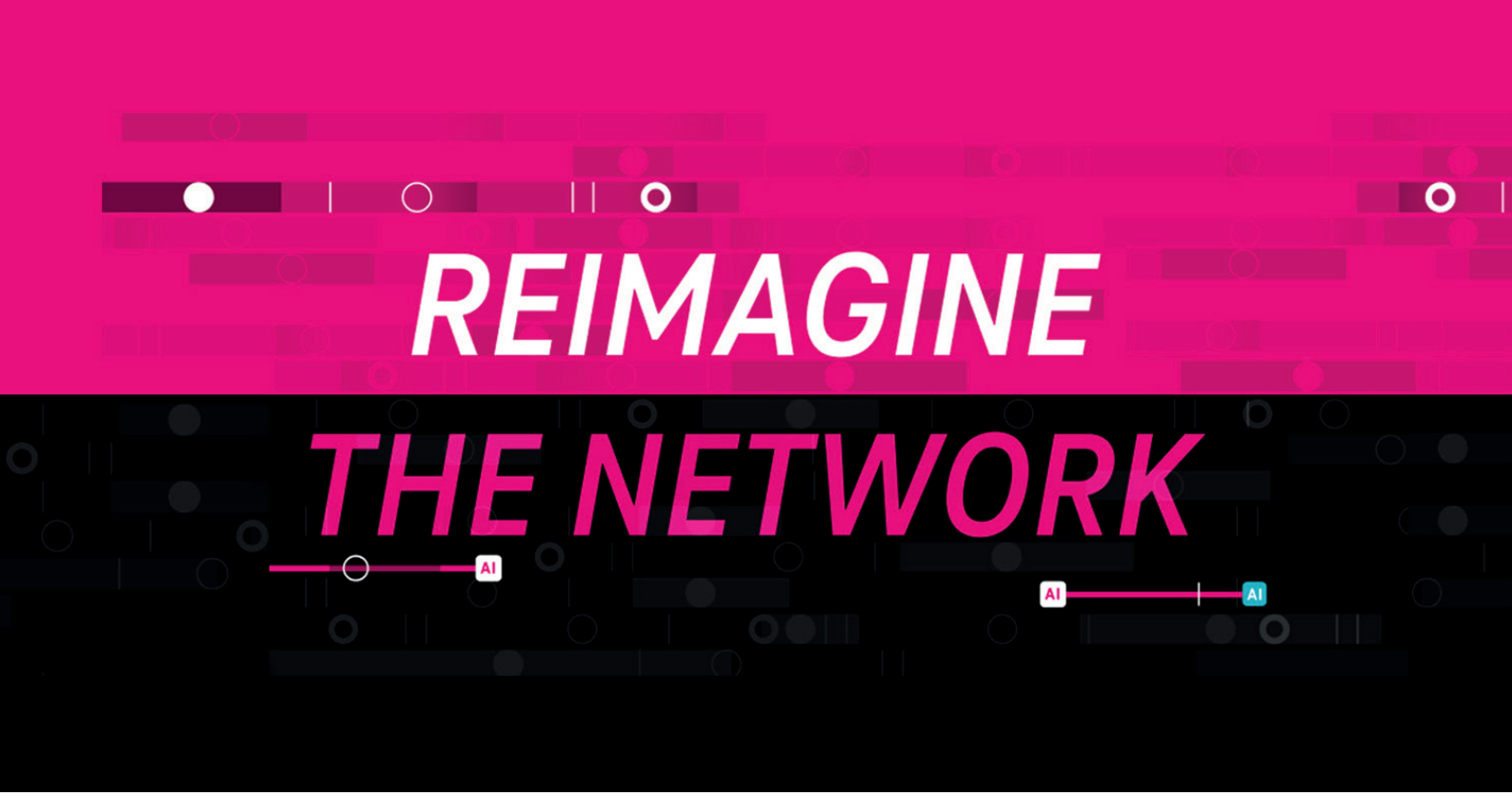

The “Reimagine the Network” concept contributes to the vision of a human-centric technology by focusing on customer intent. The approach intelligently derives the required service configuration and dynamically provisions only the needed resources, thus helping to reduce waste and cut costs. This is only possible by consistently simplifying the network architecture towards plain IP and harmonizing life cycle operations. In addition, the concept of a programmable network enables the simplified integration of third-party IP-based services.

Our MWC showcase explores how the ‘Reimagine the Network’ concept helps a visually impaired person to safely and independently navigate their way through a city by understanding their intent and providing the communication precisely according to their needs. Additionally, it explores a future highly efficient energy management concept based on intent and load adaptiveness.

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