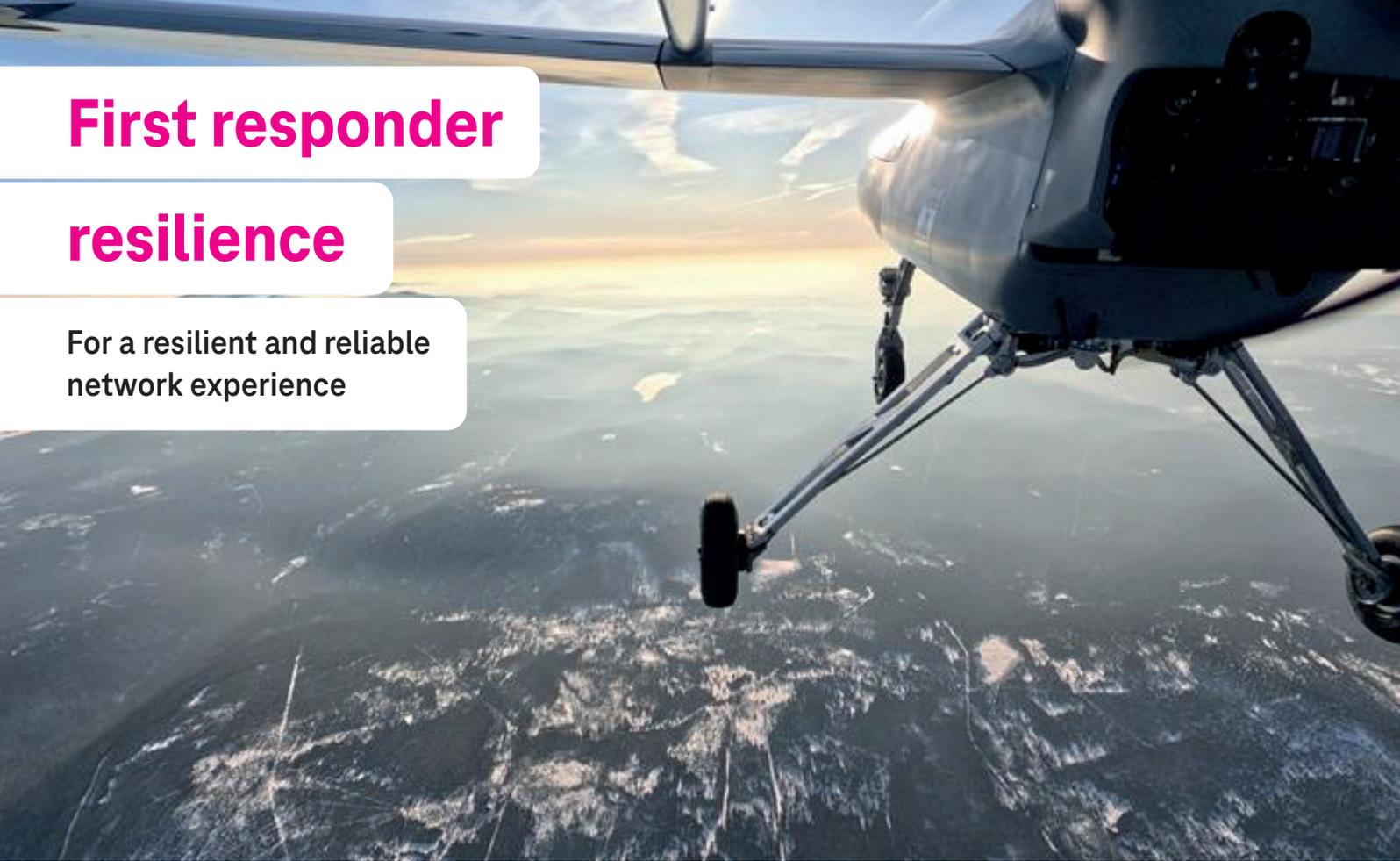MWC 2025
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SHAPING TECHNOLOGY FOR ALL

First responder

resilience

For a resilient and reliable network experience

For emergency service teams, reliable communication is crucial. Deutsche Telekom has a toolbox of solutions to enhance connectivity or boost network infrastructure resilience, depending on the situation on the ground. Temporary coverage solutions include cells on wheels, the 'cell tower to go,' or flying base stations. Deutsche Telekom also offers dedicated 'emergency lane' network slices to ensure first responders always stay connected.

Key facts

· Temporary coverage solutions for enhanced connectivity
· Fast coverage provisioning from the sky during natural disasters
· Dedicated 'emergency lane' slices for public safety
· Reliable connectivity for mission-critical services
· 5G 'emergency lane' for additional bandwidth security
· Dynamic slice extension with RAN Domain Orchestrator

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Temporary coverage solution

Deutsche Telekom has developed an unmanned aerial vehicle (UAV) with an integrated LTE base station as a temporary coverage solution. It can be deployed for the fast provisioning of coverage during natural disasters such as floods, when normal terrestrial services are disrupted – or to extend the service footprint during sports events and festivals.

The UAV was deployed during the 2025 edition of the 'Jizerská Padesátka' cross-country ski race in the Jizera Mountains of Czechia. As the event took place in a protected nature reserve where coverage gaps exist, the UAV was used to extend coverage across the entire course – connecting the athletes and first responders in the event of an emergency.

'Emergency lane' for public safety

To ensure high standards of public safety, emergency services – including police forces and firefighting units – are transitioning to a more capable and reliable communications network. Deutsche Telekom offers a dedicated 'emergency lane' slice using network slicing for these services in Germany, starting with 4G.

The network allocates dedicated resources (like a virtual emergency lane on a highway) to first responders' traffic – ensuring reliable connectivity for first responders' data applications.

Faster 'emergency lane' for public safety

As bandwidth demands for emergency response teams continue to grow, new technological capabilities could help to manage high-definition real-time video transmission, high-volume data sharing, and complex mission-critical communications more reliably.

A faster 5G 'emergency lane' slice offers an additional layer of bandwidth security and specific QoS, ensuring first responders can access the bandwidth and quality they need in critical moments, while still allowing the general public to stay connected.

The foreseen service will be enabled by the capabilities of 5G Standalone network slicing and the RAN Domain orchestrator (RAN DO), which is an DT in-house developed solution to dynamically manage the capabilities of the slice. For instance, in a scenario where additional uplink capacity is required for HD video transmission, the RAN DO can be used to book and provision the resources.

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