

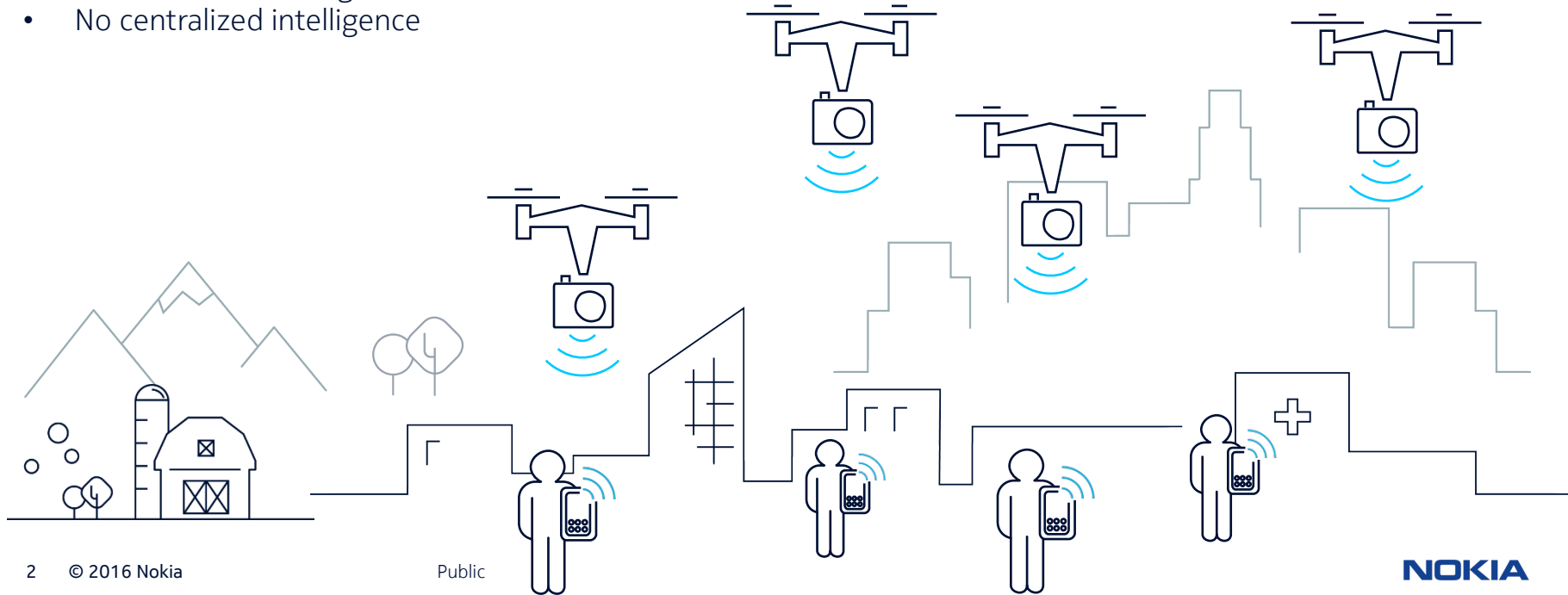
Mobile networks for safe integration of Unmanned Aerial Vehicles (UAV) in the airspace

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Today UAVs are operated manually

- Pilot controls UAV manually
- UAVs are not connected to the Internet
- UAVs cannot be monitored
- UAVs cannot exchange data
- No centralized intelligence



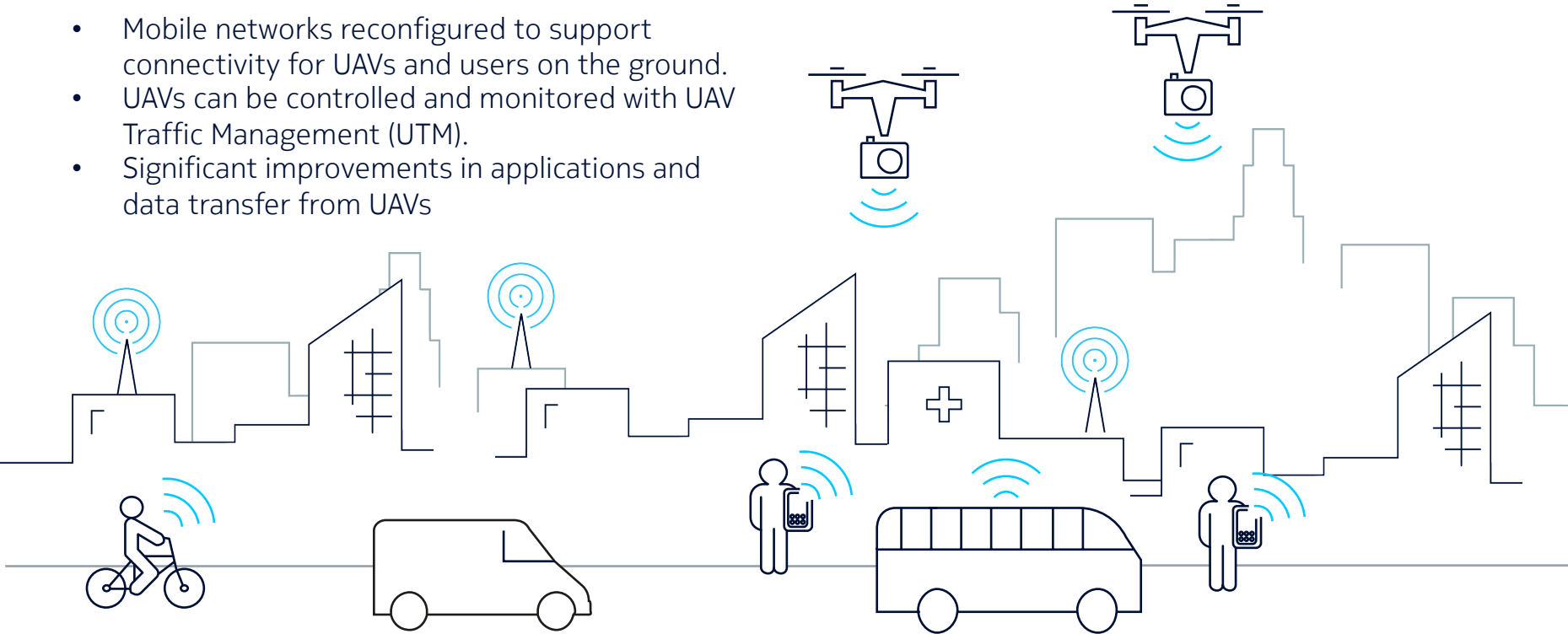
Today mobile networks are not optimized for UAVs

- Networks are deployed for ground-level coverage
- Coverage and mobility are limited in the sky



Targets for mobile network design to enable connected Unmanned Aerial Vehicles (UAV)

- Mobile networks reconfigured to support connectivity for UAVs and users on the ground.
- UAVs can be controlled and monitored with UAV Traffic Management (UTM).
- Significant improvements in applications and data transfer from UAVs



Nokia Multi Access Edge Computing (MEC) enables UAV Traffic Management (UTM) and beyond

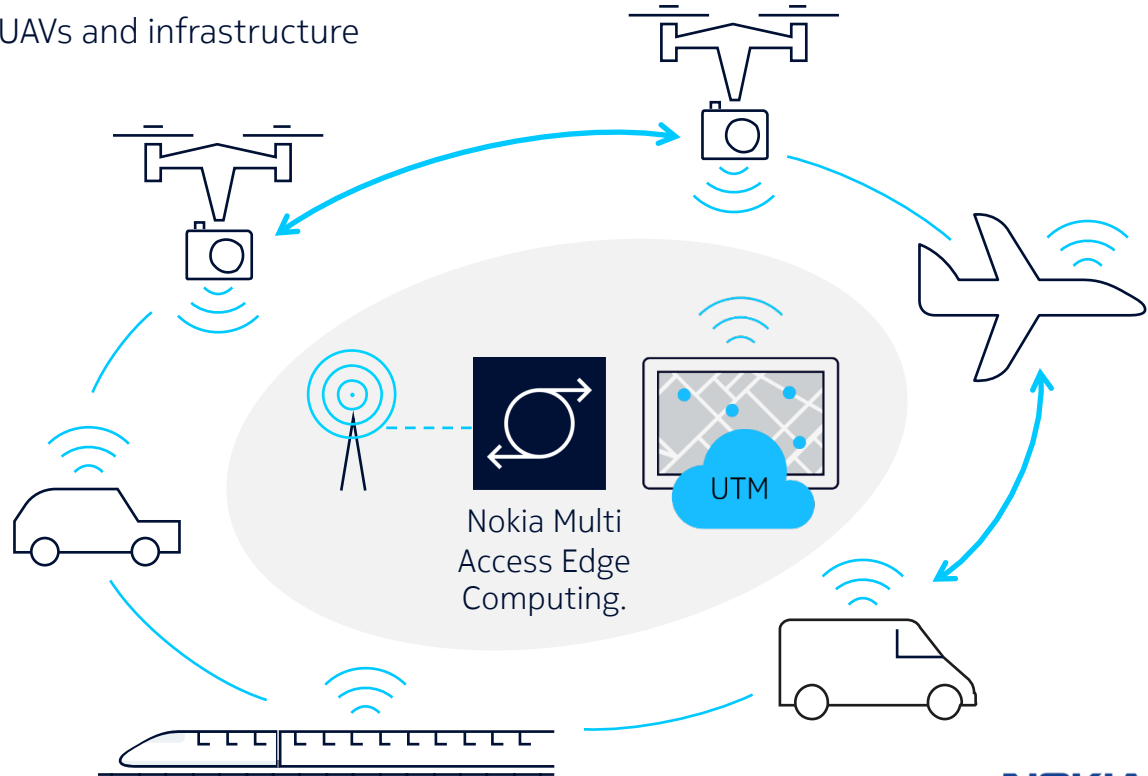
Low latency communications between UAVs and infrastructure

Nokia Multi Access Edge Computing

- Vehicle to anything (V2X) communication
- Low latency communication
- Data analytics platform
- Video analytics algorithms

UAV Traffic Management

- Fleet management
- Automated UAV missions
- 3D navigation
- Collision avoidance



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