Ulf Seijmer

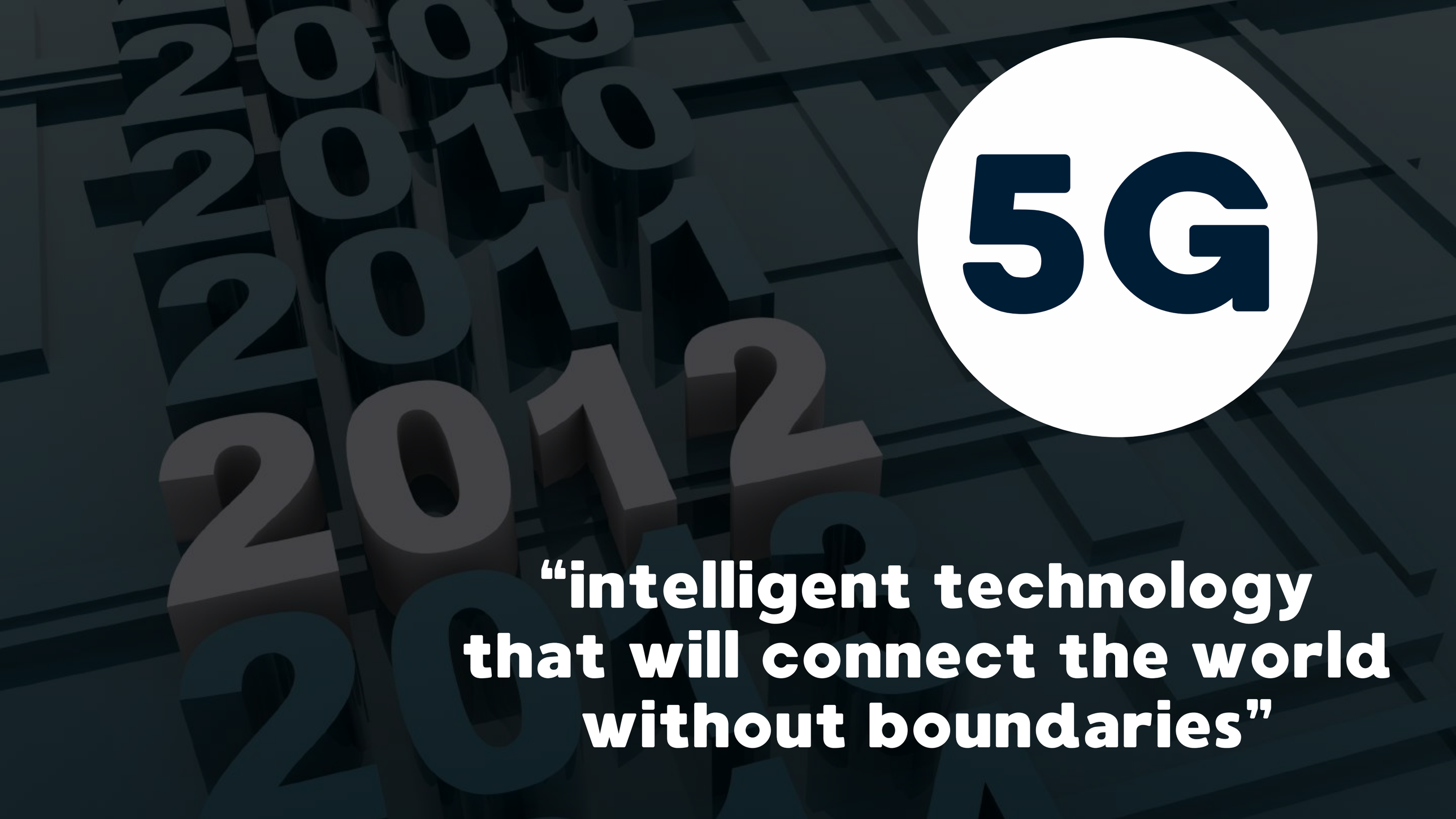
Chief Innovation Officer

AKKR8

CTO

EUTECH TECHNOLOGY COUNCIL

Dragon Head


5G
“intelligent technology that will connect the world without boundaries”

“technology that will be
available everywhere and
seamless connect anything”

5G in forestry

Transforming forwarders with 5G

Forwarder

Purpose: Transports felled logs from the forest to a landing site.

Tools: Crane with a grapple loads logs onto the vehicle.

Transport: Moves logs through rough terrain with minimal forest floor impact.

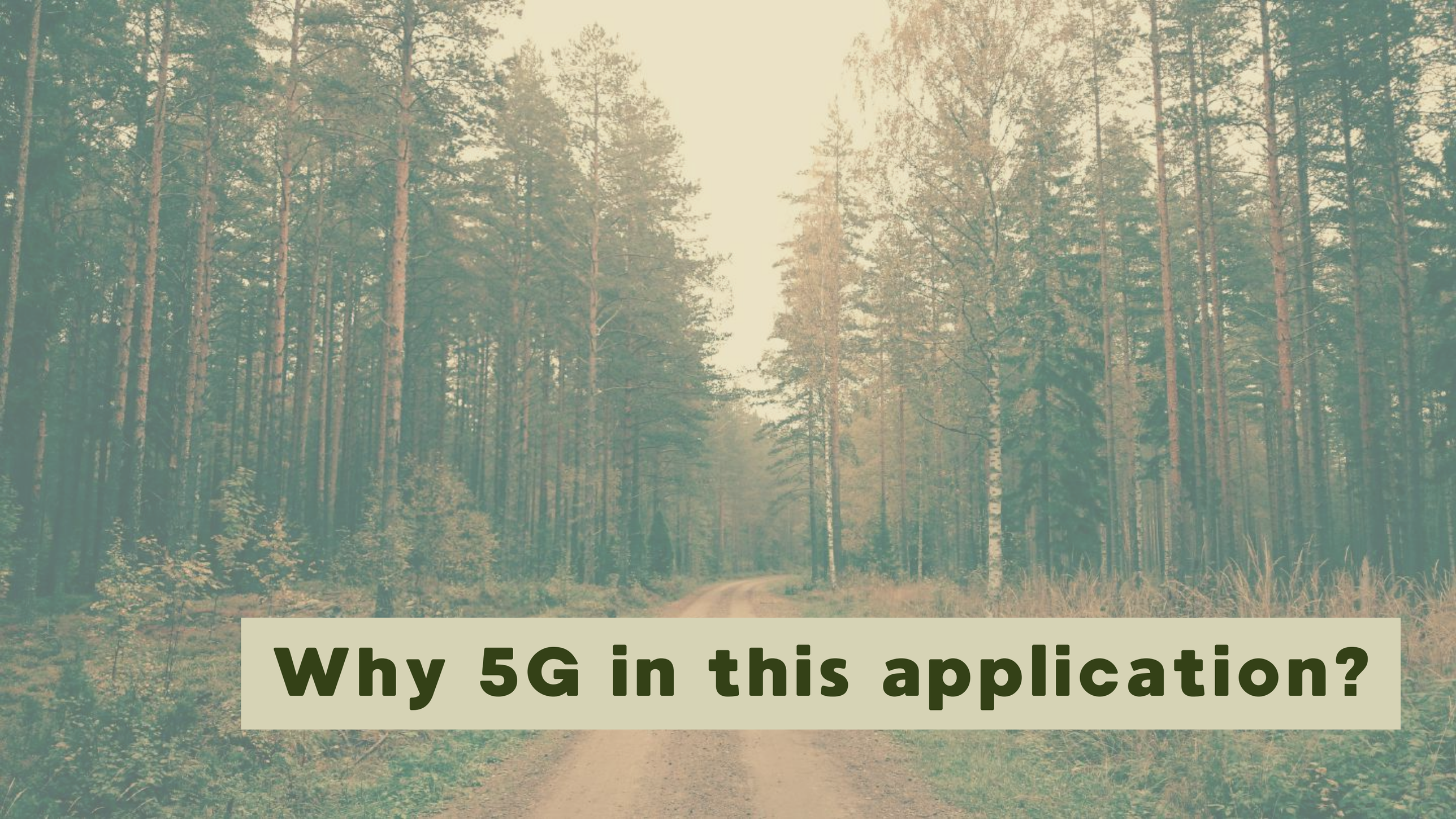
Unloading: Logs are unloaded at a designated area using the crane.

Transforming forwarders with 5G

Enhanced working conditions
Optimized logistics efficiency
Lower environmental impact
Increased vehicle utilization/driver

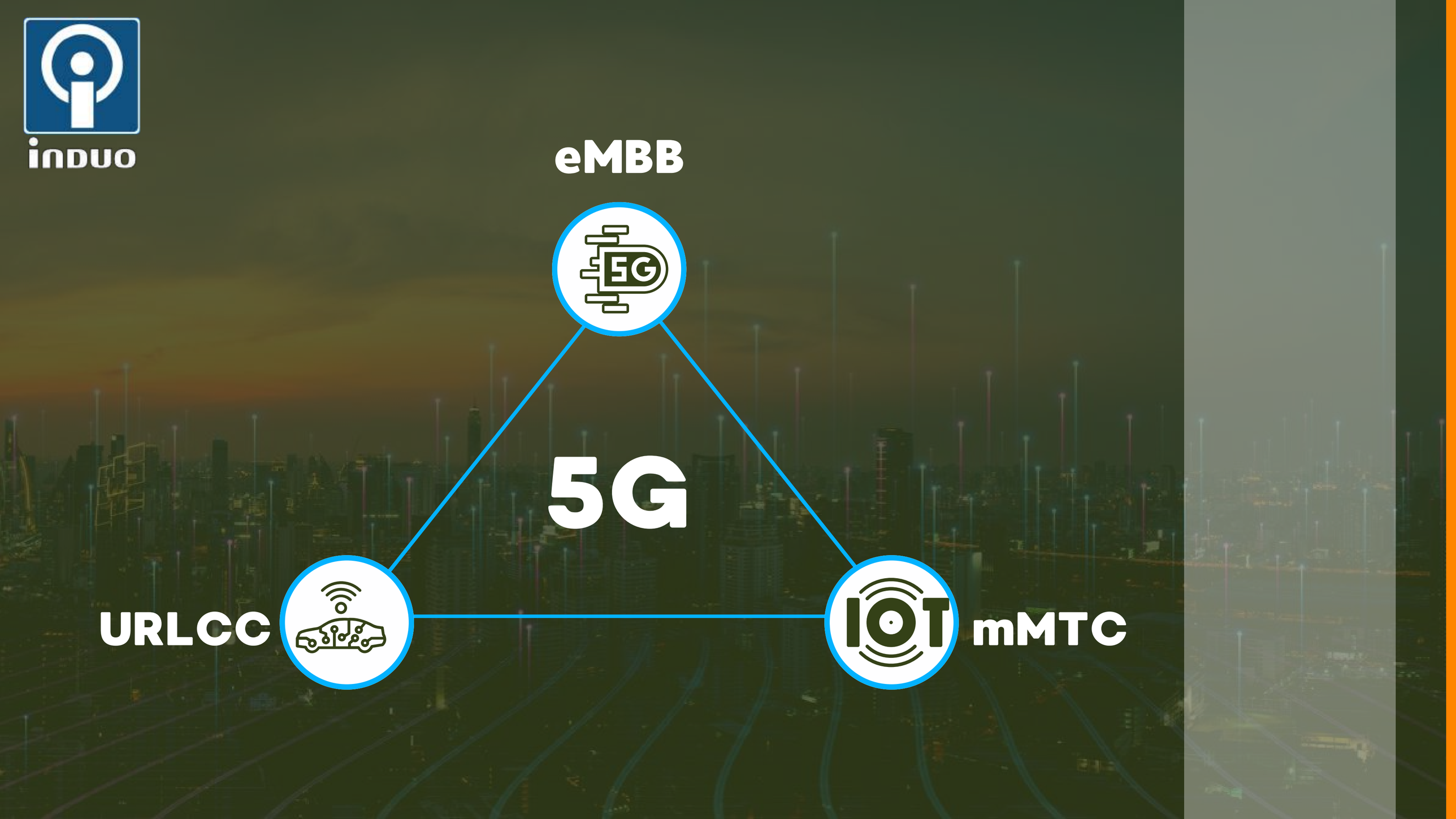
5G in forestry

Remote control over a distance



Why 5G in this application?

Latency
Speed
Coverage


eMBB
5G
URLCC
IOT
mMTC

Public 5G macrocell network

1

Private 5G base-station

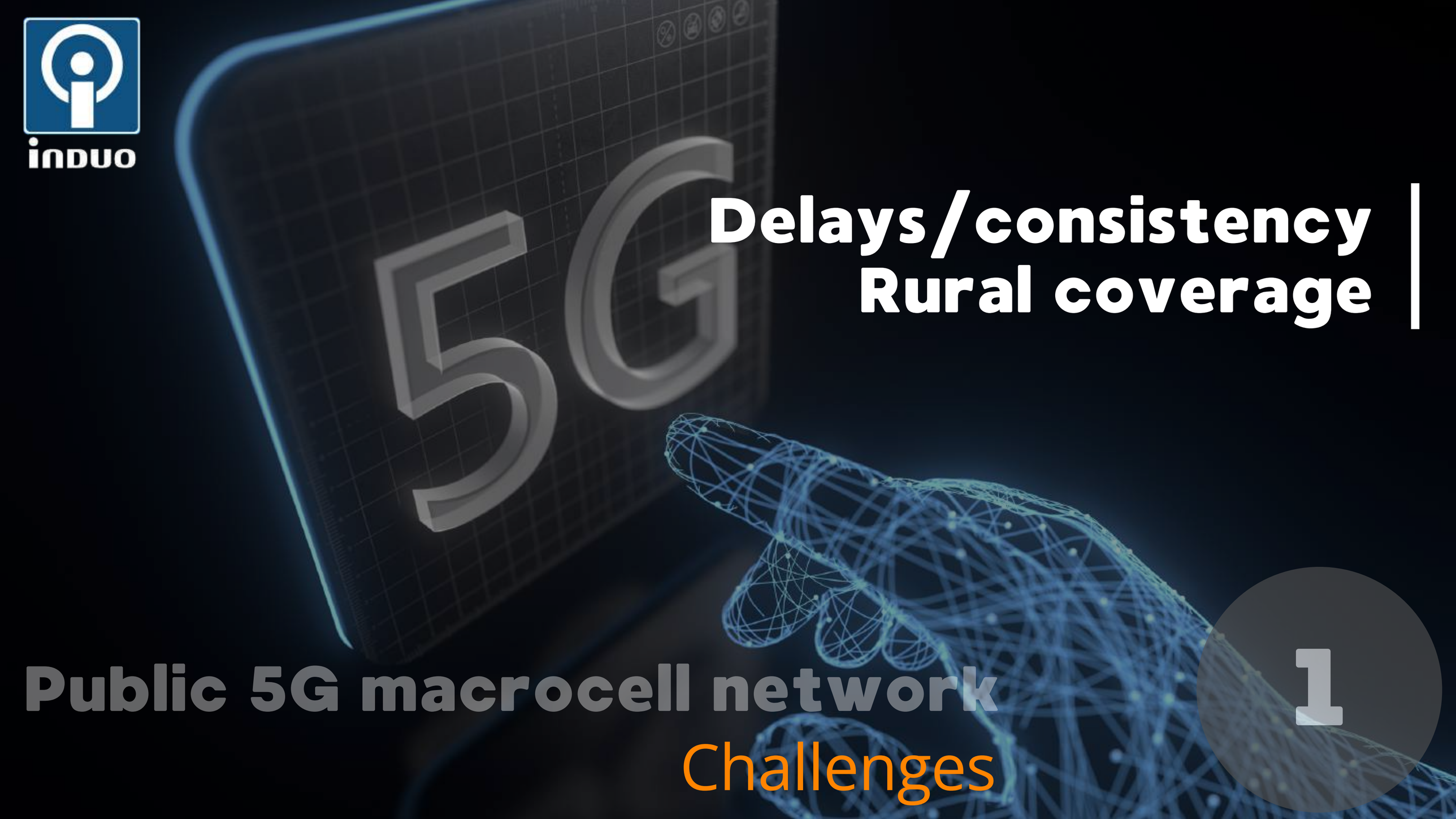
2

Slice of the macrocell network

3

Public 5G macrocell network

1



Public 5G macrocell network

Challenges

Delays/consistency
Rural coverage

1

Private 5G base-station

2

Bring the base-station into the forest

Private 5G base-station

Challenges

2

Licences
Temporary usage
Infrastructure

Private 5G base-station

Challenges

2

Slice of the macronetwork

3

Rural coverage |

Slice of the macronetwork

Challenges

3

What is the best solution?

The ultimate base-station?

INDUO

Drone with 5G
3 km coverage
Driver at 90 km distance

Ulf Seijmer