Serving underserved areas through 5G (IoT and big data) technologies
A critical infrastructure and agricultural use case

Technical Benefits
- Efficiency of 5G technologies coupled with IoT and AI
- Technologies for serving traffic mMTC, eMBB (when needed), URLLC (under conditions)
- Low cost (CAPEX/OPEX) through flexible creation and management of slices

Business-Societal Benefits
- Narrowing the digital divide between megacities and underserved areas
- Retaining a low cost 5G network in rural and suburban areas
- Win-win situations for various businesses

Applications (end devices)
A. Gas-sensor control, buzzer control
B. Drone control
C. Drone camera control

Architecture
- Application logic (backend, frontend)
  - G. Application components (events, action triggering, etc.)
  - REST API
  - Vertical requirements

Technical Benefits
- Efficiency of 5G technologies coupled with IoT and AI
- Technologies for serving traffic mMTC, eMBB (when needed), URLLC (under conditions)
- Low cost (CAPEX/OPEX) through flexible creation and management of slices

Business-Societal Benefits
- Narrowing the digital divide between megacities and underserved areas
- Retaining a low cost 5G network in rural and suburban areas
- Win-win situations for various businesses

Applications (end devices)
A. Gas-sensor control, buzzer control
B. Drone control
C. Drone camera control

Architecture
- Application logic (backend, frontend)
  - G. Application components (events, action triggering, etc.)
  - REST API
  - Vertical requirements

Technical Benefits
- Efficiency of 5G technologies coupled with IoT and AI
- Technologies for serving traffic mMTC, eMBB (when needed), URLLC (under conditions)
- Low cost (CAPEX/OPEX) through flexible creation and management of slices

Business-Societal Benefits
- Narrowing the digital divide between megacities and underserved areas
- Retaining a low cost 5G network in rural and suburban areas
- Win-win situations for various businesses