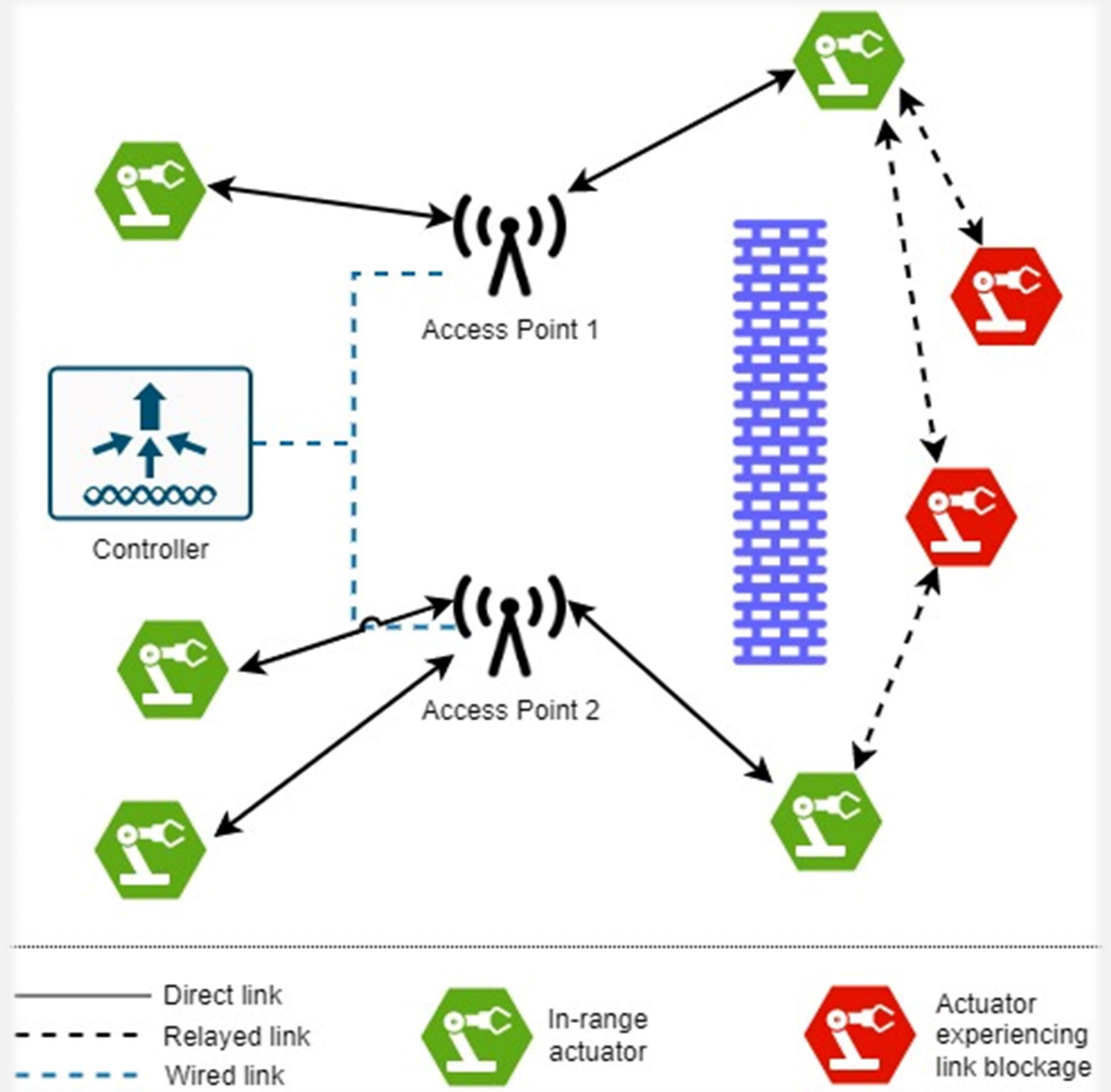
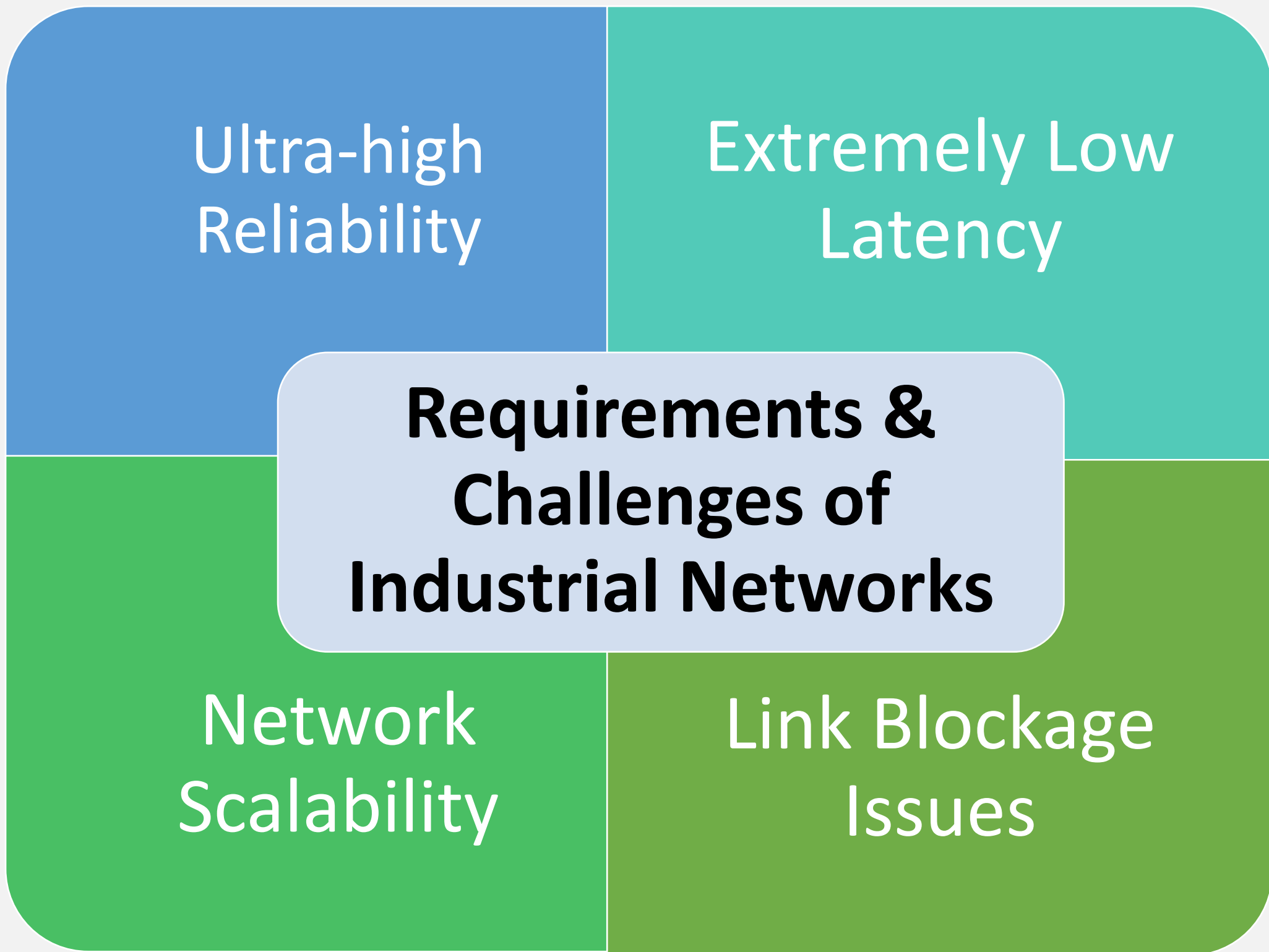




Medium Access Control for Cooperative Wireless High-speed Communication in Industrial Environments

PhD Student: Tabinda Ashraf

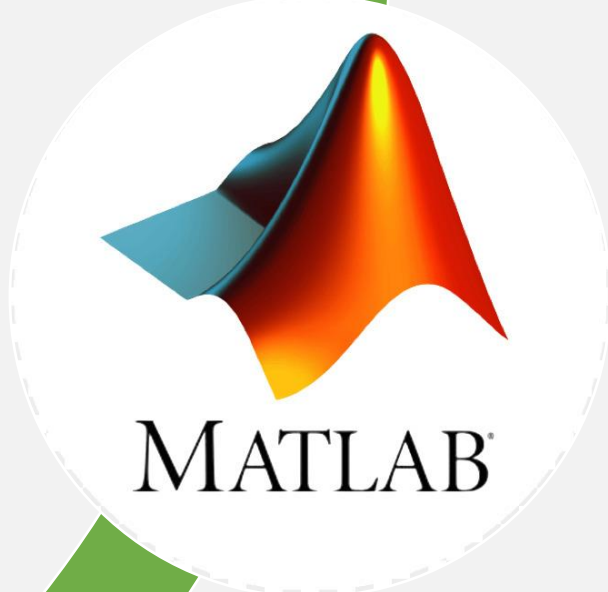
Supervised by: Dr Victor Cionca, Dr Sean McSweeney, Dr Alvaro de Medeiros



User-aided Cooperative NOMA for Ultra-high Reliability



Hybrid NOMA for Enhanced Network Scalability



Theoretical Analysis & Numerical Simulations



Implementation on SDR platforms



MAPPING TO UNITED NATION'S SDG

Flexible, and reliable solution to build a resilient & sustainable infrastructure to impact the society by supporting domestic and international industries.