

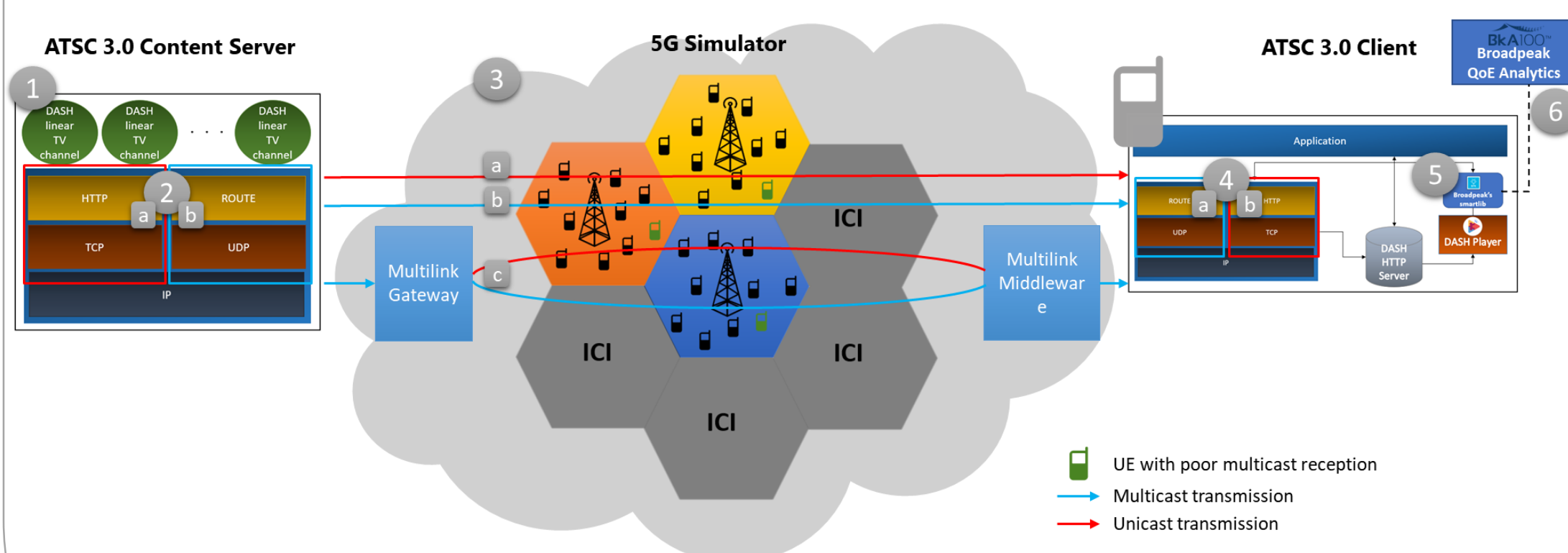
Main Objectives

- To show the gains and trade-offs of multicast against unicast for delivering popular content
- Show improvements in multicast enhanced by multilink technology

Framework

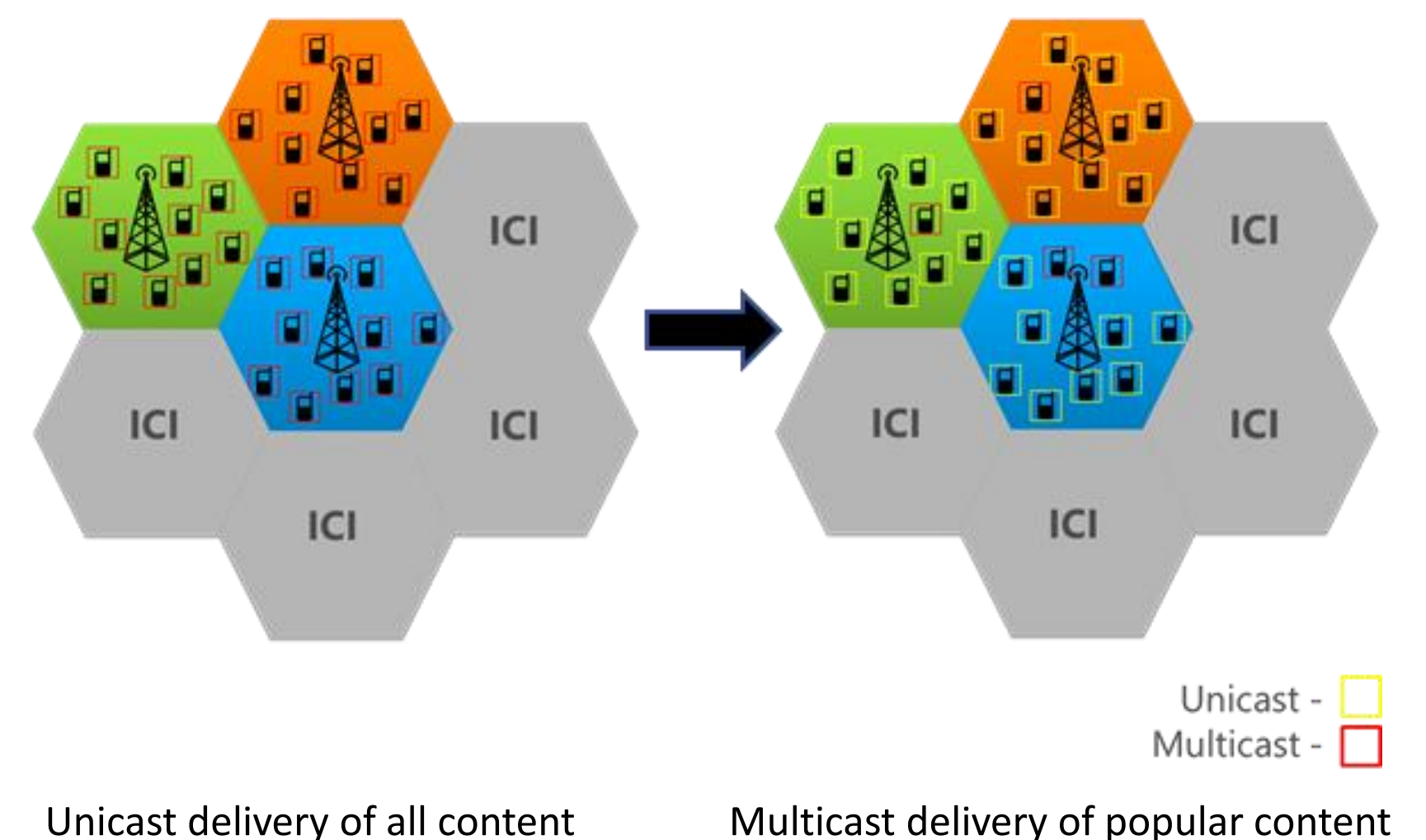
The demonstrator consists of:

- 5G network simulator
- ATSC 3.0 Services Layer over 5G simulator
- DASH streaming
- Multilink technology
- QoE monitoring through QoE analytics server and 5G simulator

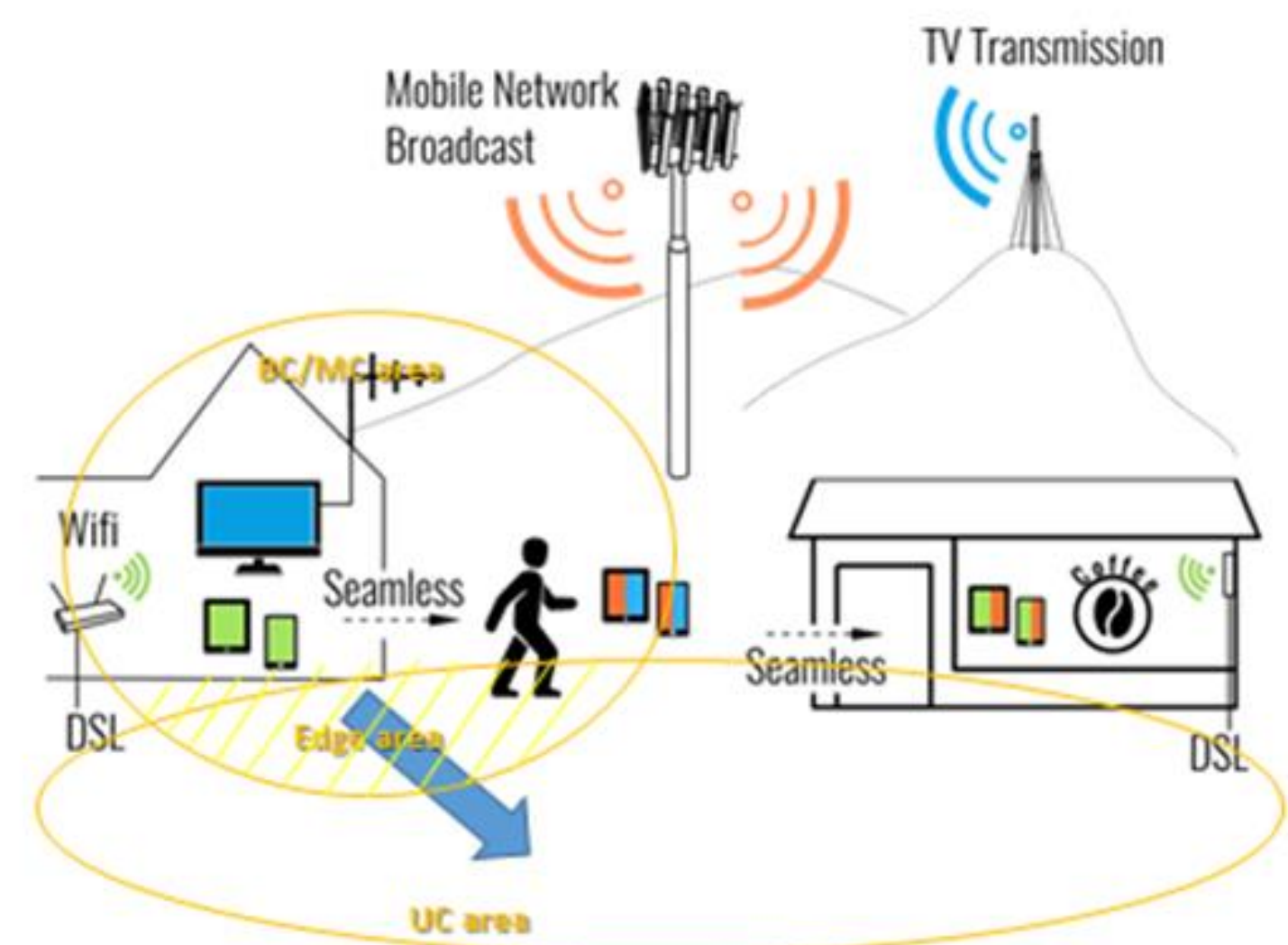


Concept & Evaluation Methodology

- Multicast vs. Unicast



- Multilink-Enhanced Multicast



Multilink by means of multicast session packet duplication onto unicast

Nomor Research System-Level Simulator

- Real-time simulation platform (pure software)
 - Multi-cell, Multi-user
 - Accurate PHY/MAC models
- ... + real application (live or synthetic)
 - Streaming, web browsing, gaming, VoIP, MMS, etc.
 - E2E radio protocol stacks implemented
- ... + online visualization / offline evaluation
 - With „hot“ access to system parameters
 - Numerous quantities can be traced

Project Information

This demonstrator is developed in the course of 5G-XCast project.

Demo collaborators: Bundleslab, Broadpeak, British Telecom

Duration: 24 months

Starting date: June 2017

Website: www.5gxcast.eu

