

The background of the slide is a night-time photograph of a city skyline, likely Chicago, with the Willis Tower prominently visible. The city lights are reflected in the water in the foreground. A solid red vertical bar is positioned on the far left edge of the slide. The CableLabs logo is centered in the upper half of the image.

CableLabs[®]

Convergence at CableLabs

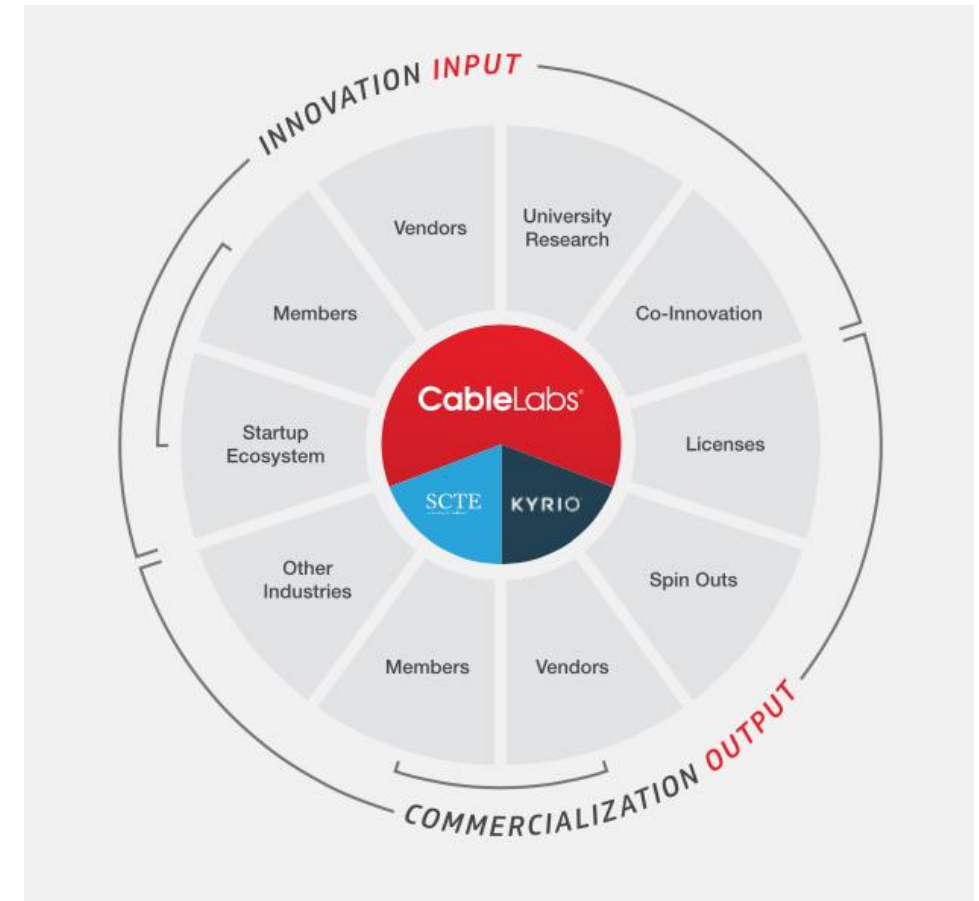
CableLabs

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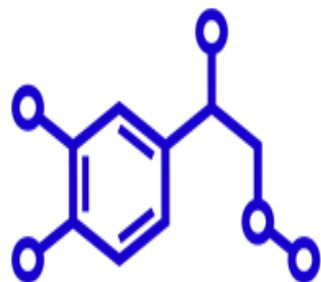
CableLabs

- CableLabs is a non-profit research and development company supporting the global cable industry
 - Its members include 60+ global cable system operators
- Cablelabs builds technologies that help support a wide variety of services and applications, enabling one cohesive and seamless ecosystem that continually fuels the imaginations of millions
<https://www.cablelabs.com/about-cablelabs>
- CableLabs supports various collaboration models with vendor, university and other ecosystem partners to drive innovation



CableLabs' Edge Enablers

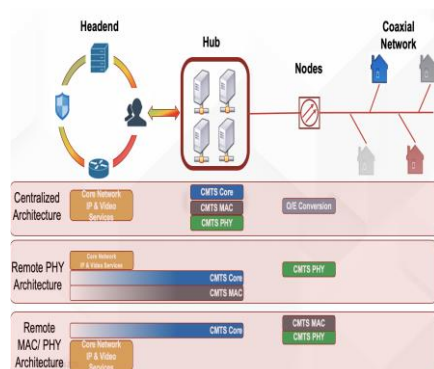
Adrenaline



ADRENALINE™

- Adrenaline is a modern computing architecture that supports centrally managed deployments of Fixed, Mobile and Edge workloads on a common accelerated infrastructure
- <https://openadrenaline.com>

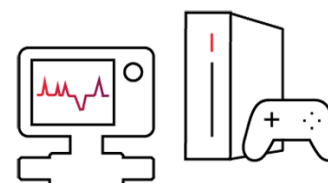
Distributed Access Architecture (DAA)



DAA sees functions that usually reside in the headend or hub distributed closer to the user

<https://www.cablelabs.com/technologies/distributed-access-architecture>

Low Latency DOCSIS® (LLD)



LLD technology targets a reduction in round-trip latency in the DOCSIS network to sub-5 ms at the 99th percentile for non-queue building applications

<https://www.cablelabs.com/technologies/low-latency-docsis>

Low Latency Xhaul (LLX)



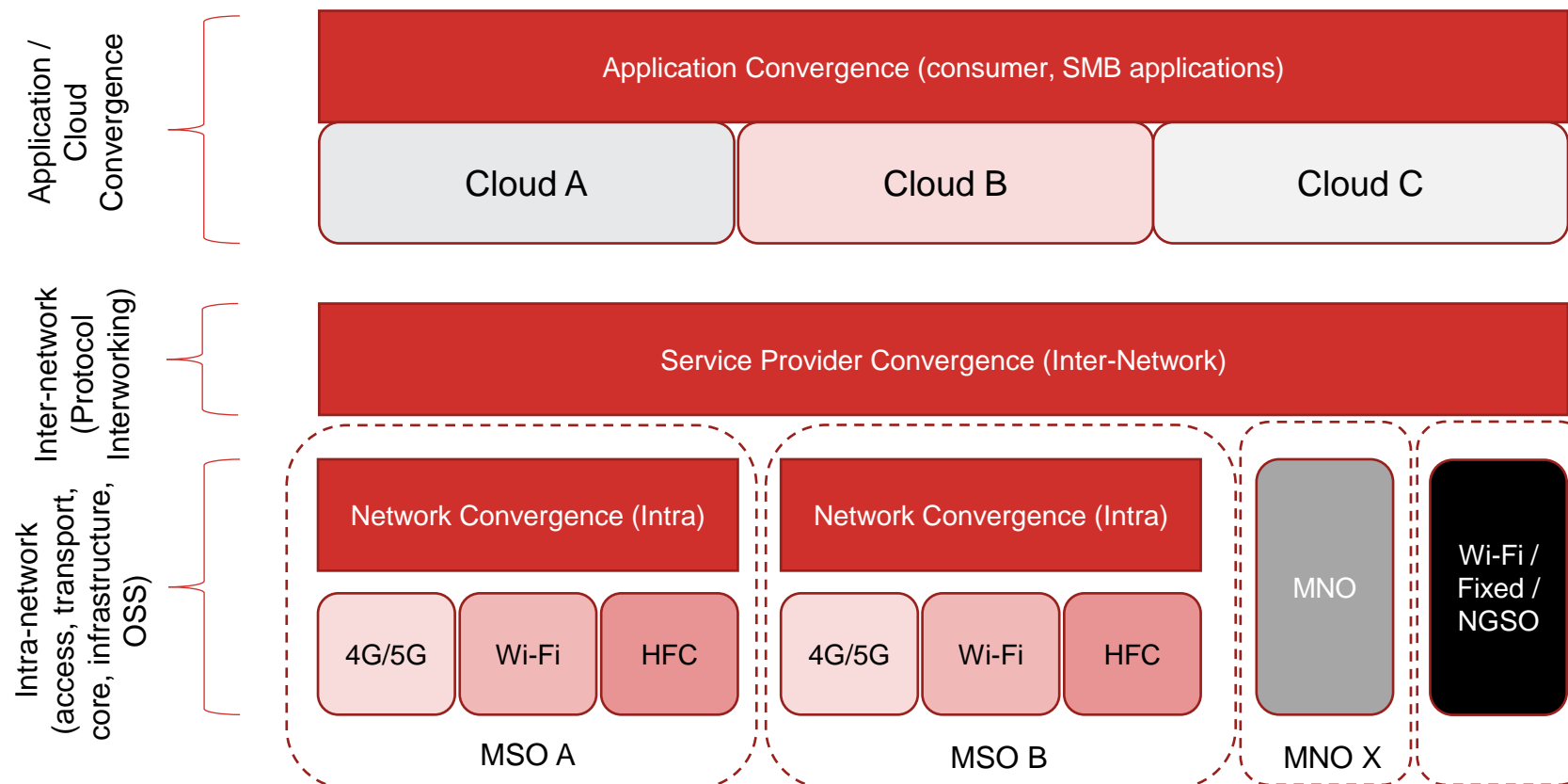
LLX is designed to reduce mobile traffic latency and enable mobile xhaul over DOCSIS as part of the large-scale mobile deployment

<https://www.cablelabs.com/technologies/low-latency-xhaul>

Convergence

- Vision: Distinctions among various wireless and fixed access networks will disappear and users will get their connectivity seamlessly
- CableLabs sees convergence as a differentiating opportunity for
 - User experience
 - Cost efficiencies
 - New services
- CableLabs recently announced two groups of industry leaders to create values and facilitate industry alignments around convergence
 - Mobile Convergence Committee (<https://www.cablelabs.com/cablelabs-announces-the-mobile-convergence-committee>)
 - Convergence Council (<https://www.cablelabs.com/cablelabs-announces-the-mobile-convergence-committee>)

Convergence Framework



Convergence: Edge Opportunities

- CableLabs is exploring edge/MEC opportunities as part of its convergence initiative
 - Converged access edge controller
 - Edge-compatible, near real-time traffic steering, switching and splitting
 - HFC infrastructure for edge computing
 - Head/hub/outside plant/on-prem
 - MEC sandbox and use case development
 - Edge KPI benchmarking and profiling
 - MEC intra & inter-operator interoperability
 - Seamless MEC user experience

