



Edge is the New Cloud

#FreeTheEnterprise

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Macro Trends

Digital Transformation

- COVID-19 Impact: Accelerated adoption of digital technologies into all areas of business
- 97% of companies said their communications strategy is accelerating by an average of 6 years
- 80% of enterprises implementing WFH & 67% expect these policies to be permanent

5G

- 14M+ Private Enterprise Networks by 2025
- Abstracting 5G creates Developer Heaven!



Edge is the New Cloud

Stratification similar to Cloud is the start:

- Infrastructure Layer – IaaS
 - Micro Edge Data Centers being built
 - Edge Compute
 - Data Center to Edge Connectivity
- Platform Layer – PaaS
 - Multiple platforms needed to support the Edge
 - Software-Defined Mobile Edge
 - Mobility
 - Switching and Load Balancing
 - Security
- Service Layer – SaaS
 - Demand for APIs and standardized interfaces
 - Edge Enhanced Applications
 - Edge Native Applications



Edge needs much more than
IaaS/PaaS/SaaS*

“There is no 5G without the Edge!”

* - Gartner

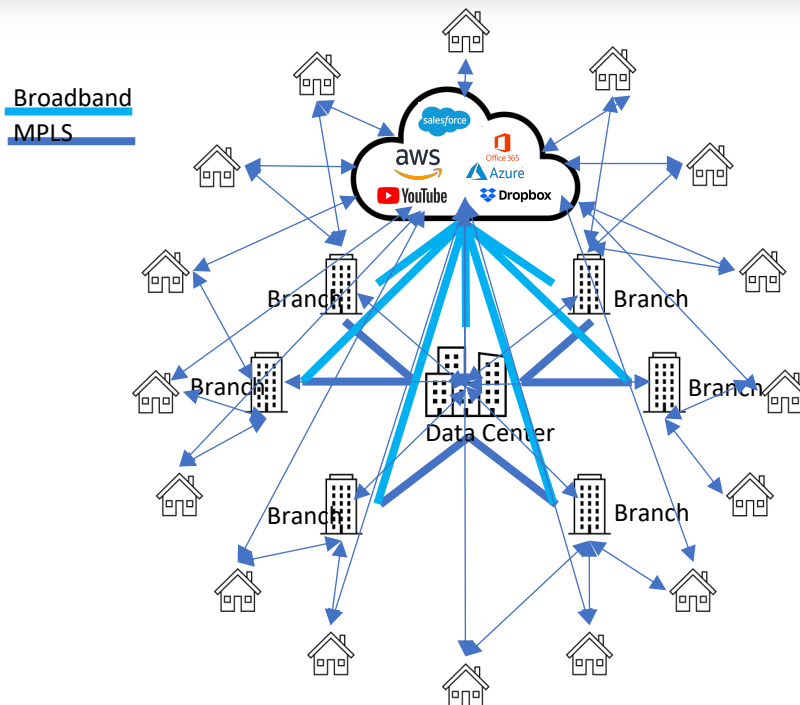
Complexity of the New Normal

Few branch offices to *THOUSANDS* of home branches!

- Security and performance issues
- Need a mobile life 5G Edge architecture

But 5G is Complicated!

- Ultra Low Latency and Ultra High Bandwidth
- Management of the service is critical!
- Network slicing – create policy based virtual networks that map Enterprise IT needs
- Don't forget about mobility and roaming
- Must be Cloud Native
- Services Focused Architecture
- Who will address regulatory and compliance issues?
- What is more important than SECURITY??
- Agile "infrastructure" with a high degree of automation
- Edge Enhanced and Edge Native Applications



High Friction - BURNING PROBLEM!

Alef EdgeNet Platform

A programable platform that provides fully managed edge infrastructure, network, services and APIs for developers to build Edge applications.



EdgeNet Ecosystem

App services and partner ecosystem and marketplace



Edge App Framework

Developer APIs and Framework to add Edge services to your apps



Edge Network & Cloud APIs

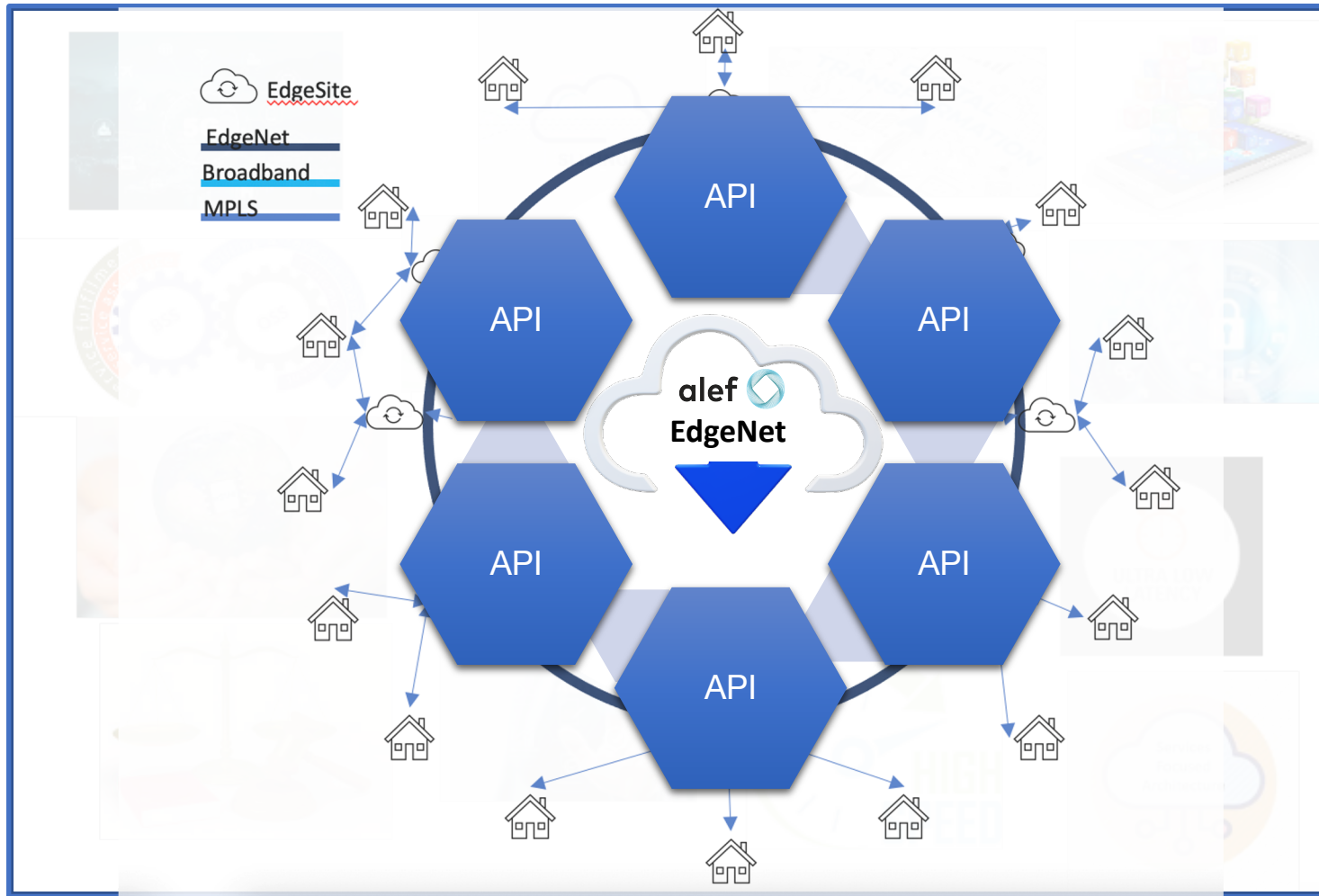
Mobility networking APIs to deploy, manage, & monitor your edge services



Global Edge Network

Globally interconnected SD-ME based computing and delivery network

EdgeNet – 5G Abstraction for Developers and Programmers



EdgeNet – Collection of interconnected Private and Public Edge Area Networks

- Network of interconnected Compute and Delivery Networks
- Private to Private and Private to Public Mobility/Roaming

EdgeNet APIs

- Edge as a Service with rapid service creation
- Future proof through Dev ecosystem
- Open Programmable Edge: 5G Edge services over any access type
- Edge Slicing: Program policy, apps and assets to extend to the Edge

5G Edge on and off campus branches

- Automation: Connect to closest EdgeNet point of presence through APIs

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Open Edge for Programmers & Developers

Alef Edge3

Open Programmable APIs enable 3rd Party App developers and network programmers to rapidly create new smart experiences leverage the power of the Mobile Edge.

Alef Edge3 opens up every aspect of the mobile edge for developers unleashing their boundless creativity

Rapidly test new concepts and instantly deploy in a real-world environment to succeed or “Fail fast”



Alef Private Edge - 5G Style Edge Experience NOW!

Alef's Private Edge creates a 5G experience without the expense or complexity of 5G...with your existing WiFi or private LTE network!

Automatically connect to the nearest Alef Edge Site and in minutes you will enjoy ultra high speeds with no latency



Virtual Learning – Private networks for students & faculty



Remote Office - Edge Cloud processing and Desktop as a Service for remote office workers



Smart Agriculture – Produce sorting using secure mobile breakout and Edge AI processing



Telemedicine – Secure network for a variety of use cases in and around the hospital



Alef AdVision



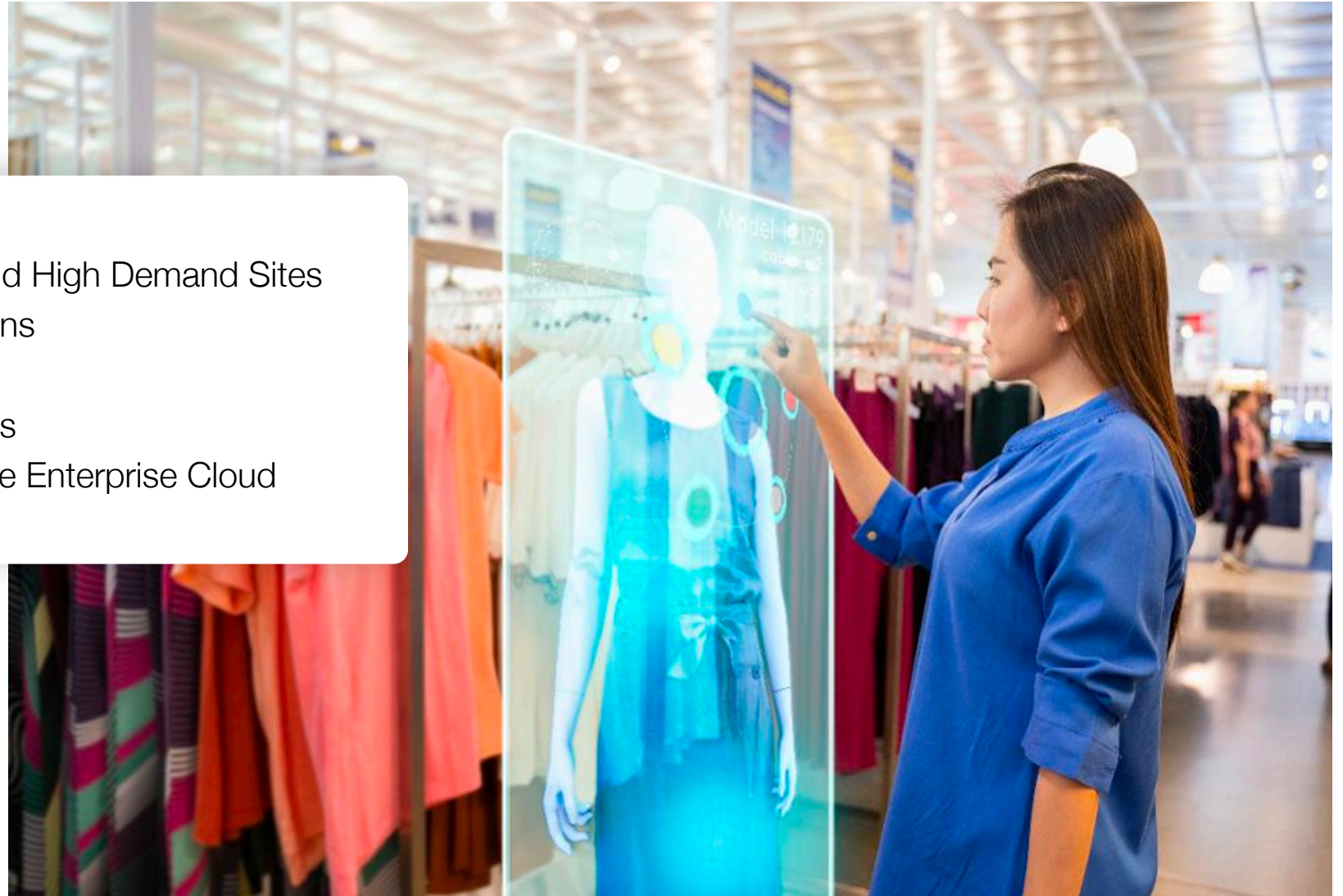
- Targeted, real time advertisements
- Camera picks up an individual walking by the screen and trigger impressions based on:
 - Age, Gender and Sentiment
 - Anonymous -No images or videos are saved
- Ad impression opportunity is offered in the marketplace

- Impression is sold in a real time bidding (RTB)
- Faster, more transparent bidding process
- Advertisement is delivered and played on the screen instantaneously
- Entire process executed in <75ms



Alef Boost – Edge Peering for Enterprise

- Direct peering with top 40 Cloud and High Demand Sites
- Improved performance of applications
- Lower latency of data flow
- Highly secure enterprise applications
- Point to Point connections to Private Enterprise Cloud





To sign up for early access to our developer program:

[*alefedge.com/earlyaccess-cmu/*](https://alefedge.com/earlyaccess-cmu/)

For a free trial, please see the link below:

[*Alefedge.com/free-trial-access*](https://Alefedge.com/free-trial-access)