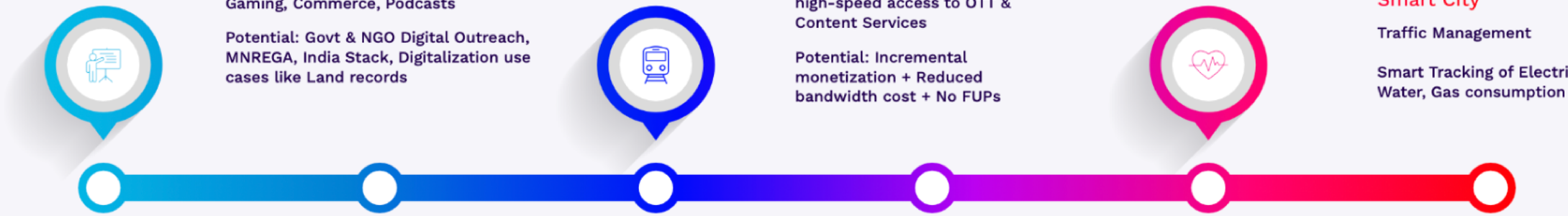
sugarbox

World's First Hyperlocal Cloud

August 2023

What is Sugarbox?

**Sugarbox is introducing the world's first Hyperlocal Cloud platform for the Internet of the Future. This technology enables users to access cloud-based applications and digital educational content without relying on internet connectivity, bridging the last mile digital divide.
It can be deployed in captive places like schools and learning centers.**



Rural

Current Use Cases: OTT, EdTech, Gaming, Commerce, Podcasts

Potential: Govt & NGO Digital Outreach, MNREGA, India Stack, Digitalization use cases like Land records

Public Wi-Fi

Current Use Cases: Free, high-speed access to OTT & Content Services

Potential: Incremental monetization + Reduced bandwidth cost + No FUPs

Smart City

Traffic Management

Smart Tracking of Electricity, Water, Gas consumption etc

Education

Last Mile delivery through offline access to content stored locally

Edge-based LMS & White-labelled applications for better collaboration without internet

Transport

Current Use Cases: OTT, Commerce, Gaming, Ride Hailing, FoodTech

Potential: Ticketing, Edge + IoT, Smart Ads, Smart Surveillance, Hyperlocal Retail, Contextual Info

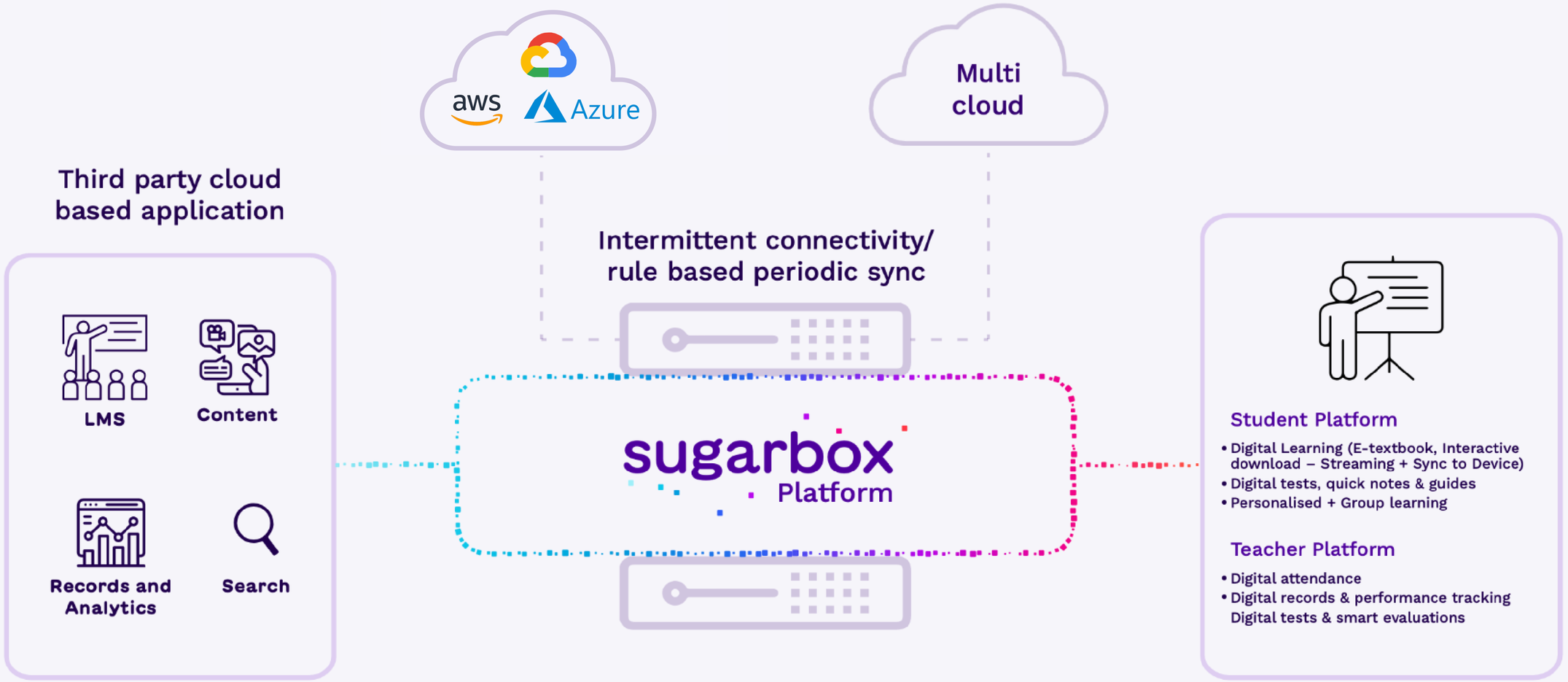
Healthcare

Last mile sustainable & reliable access to Healthcare services

In hospital use cases like consumption of training / procedural videos

Sugarbox Cloud Fragments - Use Case for Education

Sugarbox's patented technology mimics Cloud functionality within a LAN, thereby enabling Digitalization & access to Digital services + platforms for the Under & Unconnected, as while driving best in class performance metrics & providing support for futuristic use cases



Sugarbox Patents

A strong set of IPs for current tech and the future tech roadmap that creates barriers to entry.

Patent	Status	Core Claims
CDN System & Method	Granted in US, India & Nigeria (PCT State). Pending grant in 90+ PCT Countries	CDN nodes deployed within a Wired / Wireless LAN Users' access to Internet Apps & Websites without an active internet connection Users' access to limited functionality on Internet Apps & Websites, without an active internet connection for the CDN node, as well as the user
Network Control & Optimization	Granted in US and India	Enabling users to assign cost to each network Enabling Apps to use multiple networks simultaneously via a rule engine based on user preferences
User Generated Pluggable CDN System	Pending grant in US and India. PCT National Phase due in Nov' & Dec' 2023	Enabling users to set up Cloud Fragments using their own COTS hardware Ability to register & advertise Edge nodes on the fly (plug & play) Ability to set user preferences to optimize caching algorithms
Offline Payment System	Granted in Bangladesh Pending grant in US, India. PCT National Phase due in Apr' & May' 2023	Accept offline payments using a local CDN node Buffer a valid transaction at the local CDN node & process once backhaul is available Handle payment failures and implement post-facto restrictions / cancellations
Intermittently Connected Advertisement System & Method	Granted in Bangladesh. Pending grant in US, India. PCT National Phase due in Apr' & May' 2023	Deliver CPM, CPC, CPL and CPA based smart Ads offline, using a local CDN node Ability to assign smart rules for campaign activation & decommissioning offline
Encrypted P2P DRM	Pending grant in US and India. PCT Priority	Ability to stream and download encrypted assets from a local CDN node offline Ability to stream and download encrypted assets from a peer based on smart authentication offline
One App	Pending grant in US and India. PCT Priority	A single user interface that transforms into a 3rd Party App / Website based on context Context can be user location / proximity, time of day, day of the week or a combination thereof

Sugarbox Hyperlocal Edge Platform

Our patented platform revolutionizes cloud-based applications' performance in intermittent or no-internet environments by harnessing two key features:

- **Hyperlocal Lambda functions** - Execute essential logic on-site, ensuring uninterrupted functionality
- **Hyperlocal Content Delivery Network** - Preemptive caching guarantees seamless content access

How it works?

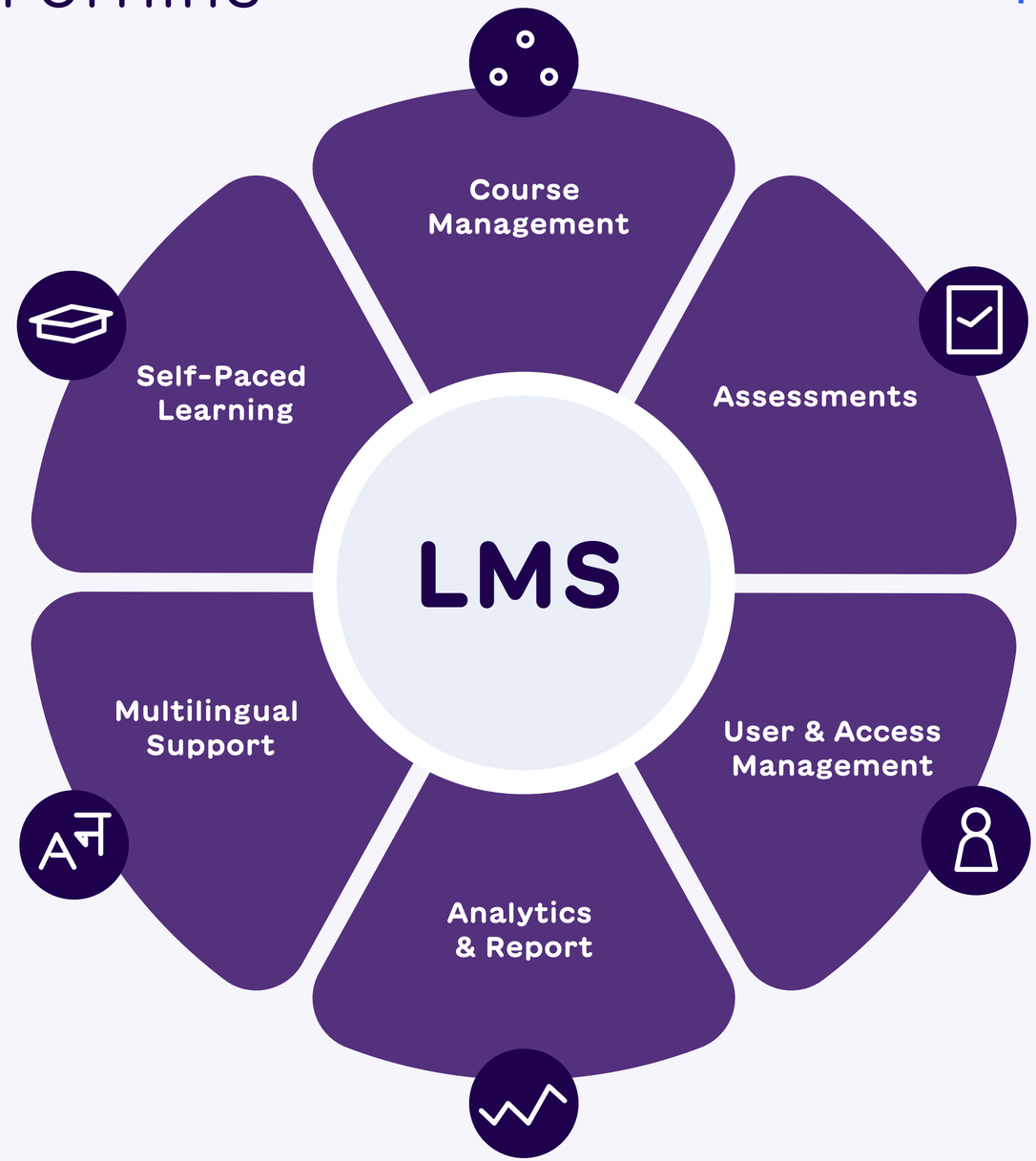
- **Universal Edge Compatibility**: Deploy on common edge devices
- **Effortless Integration**: LMS/ EdTech apps can integrate with Sugarbox for hyperlocal operation with minimal code
- **Seamless Functionality**: Cache content and logic preemptively for uninterrupted app usage, regardless of internet availability

Benefits

Implementation Steps

Example : Enabling LMS Function offline

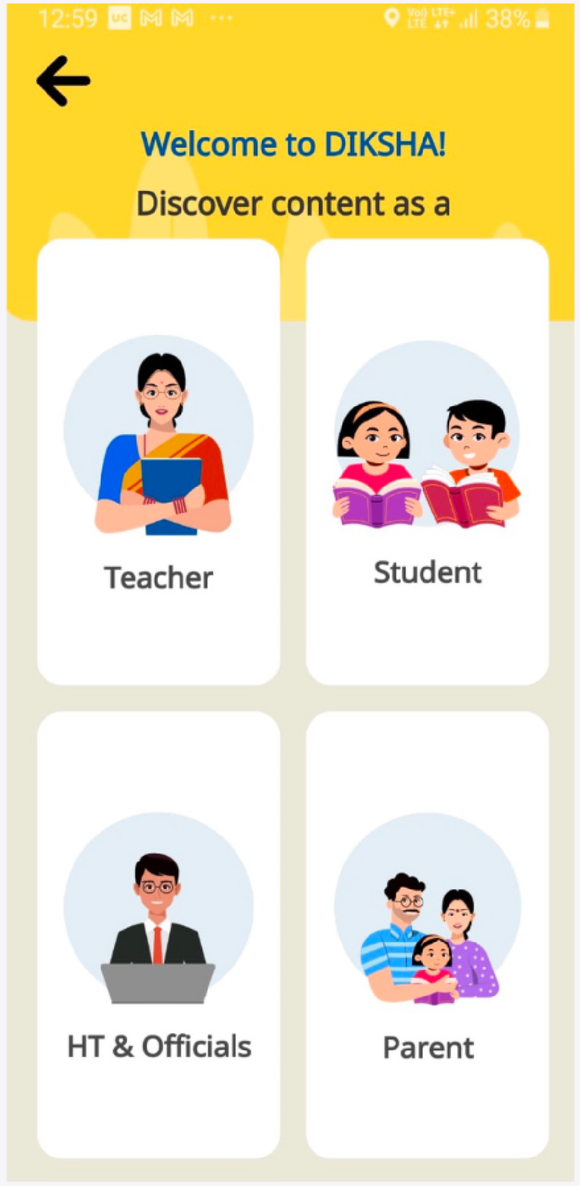
All modules of LMS can be made to function in a limited / intermittent connectivity environment using Sugarbox Hyperlocal Lambda Functions.

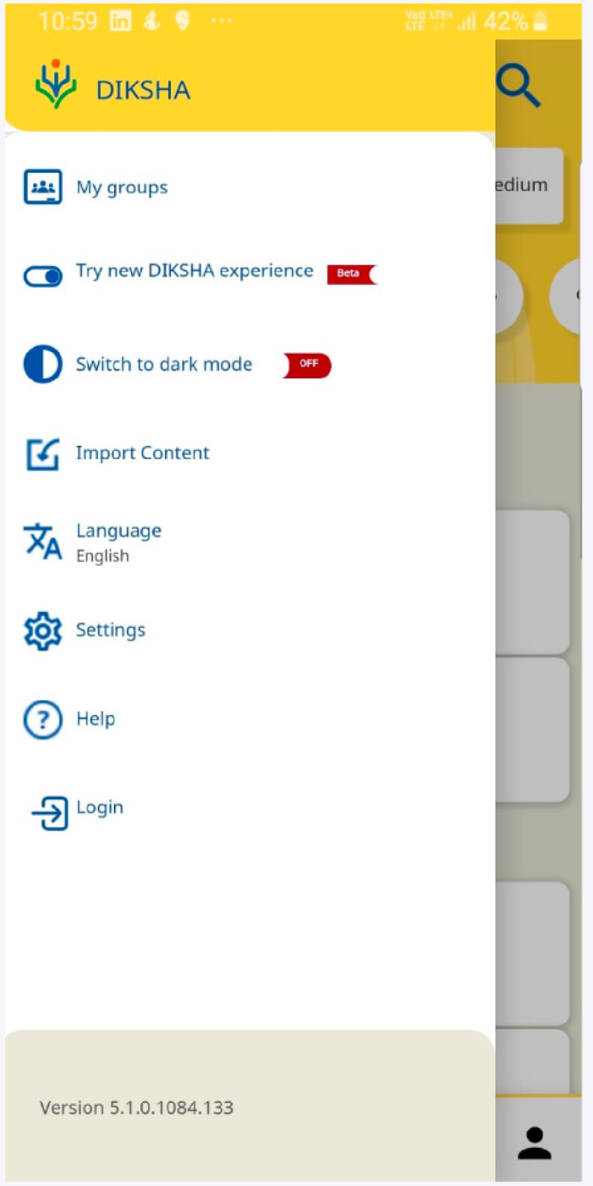


Example - Enabling learning platforms function offline

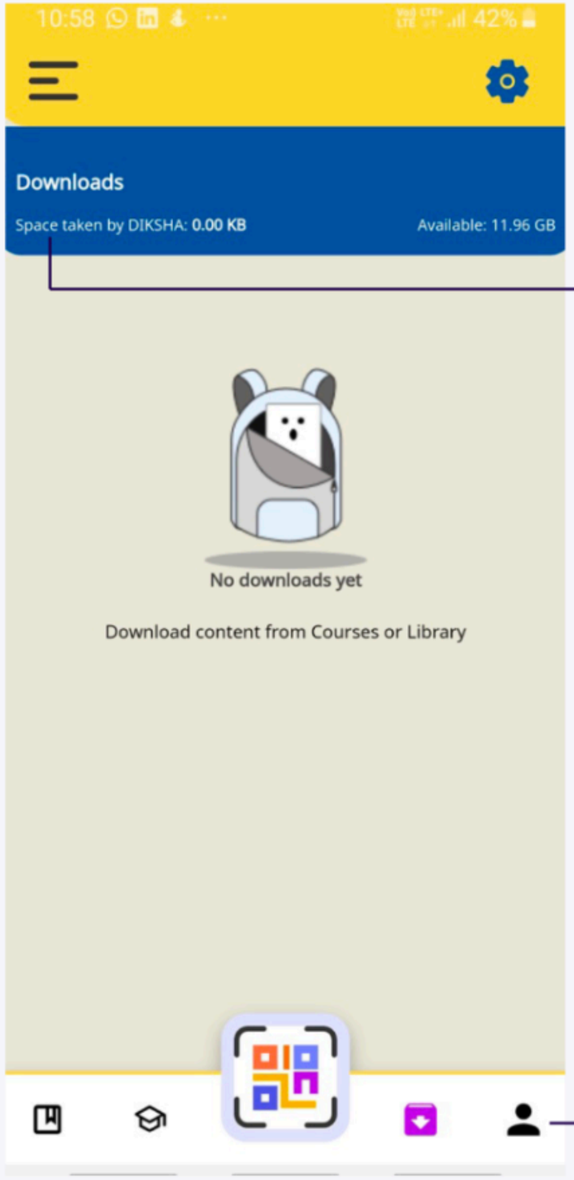
The Diksha Application can be made to function using a local Edge over LAN/-Wi-Fi

- **Stakeholders can access the same application using local Wi-Fi**
- **Edge based hyper-localisation (board, school, class, sections, language, etc.) - for personalization**
- **Do more with same or less - all data heavy functionalities (streaming, downloading) do not need LTE/internet**





Example - Enabling learning platforms function offline



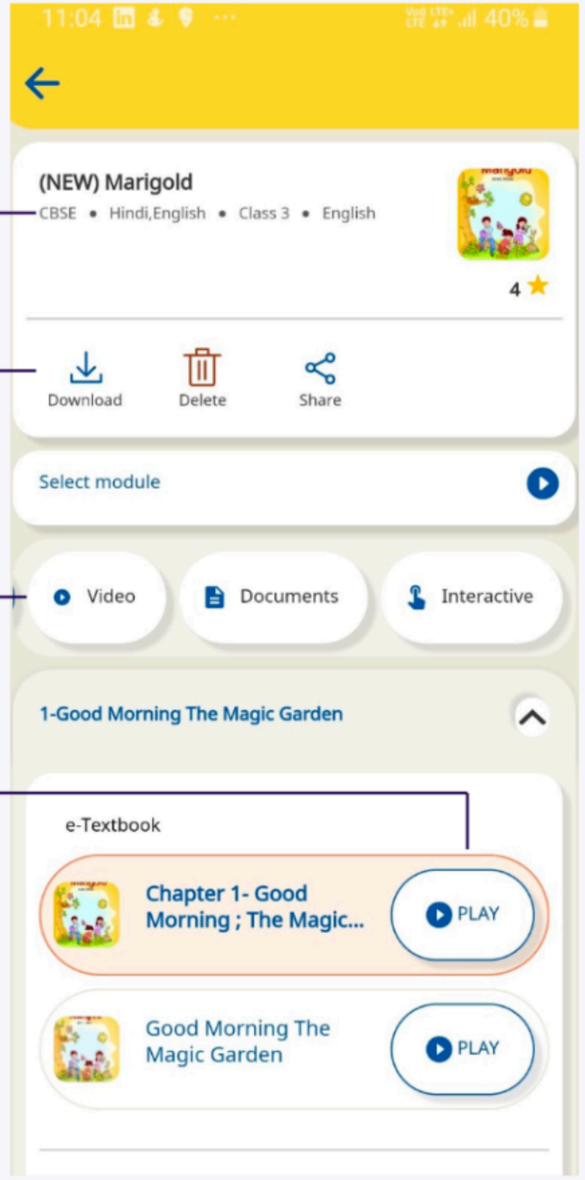
Board / content personalized to School

Download

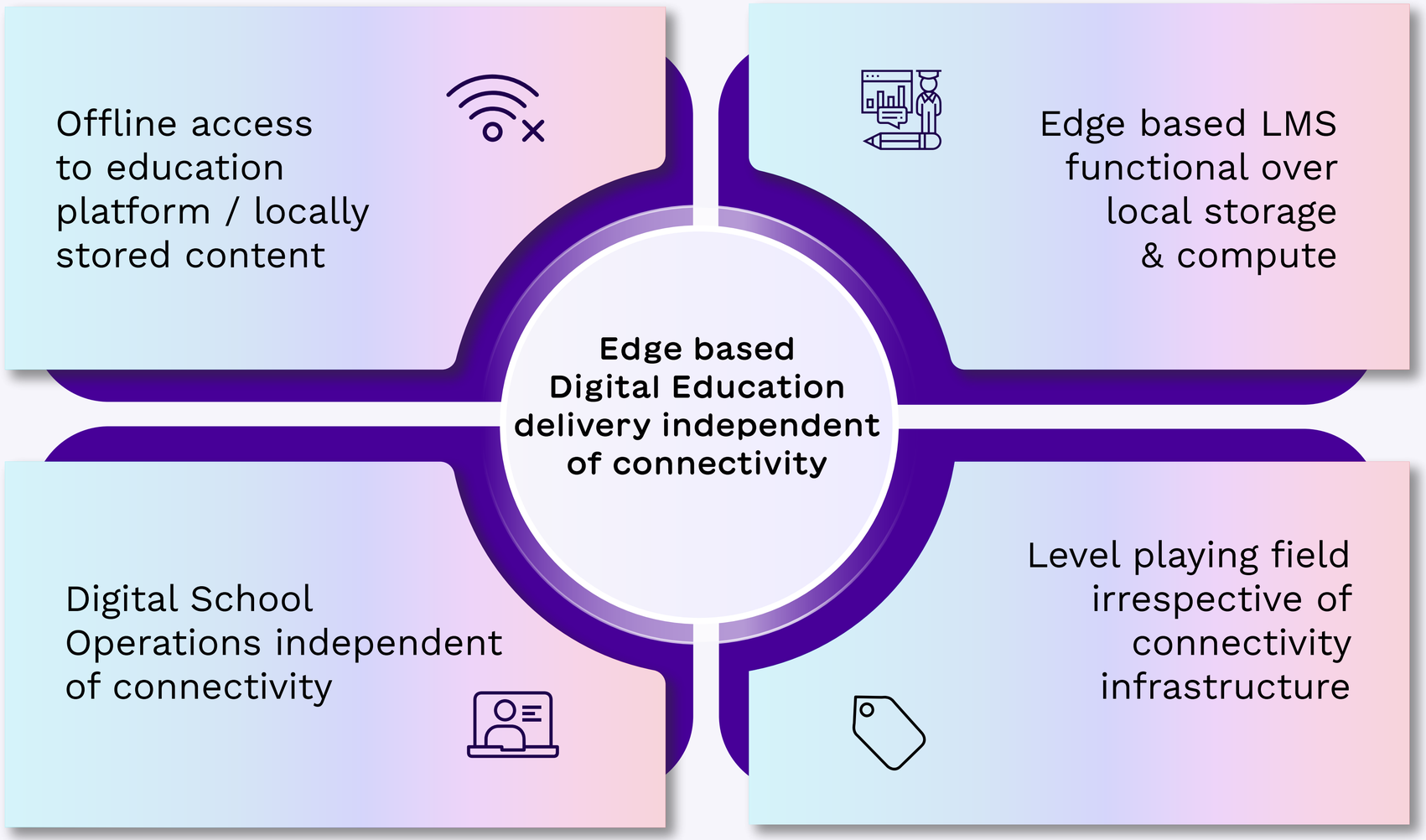
Content

Streaming

Profile Authentication



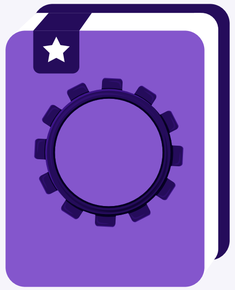
Benefits For Educational Institutes / Govt



Democratizing Access to Cloud Based Applications

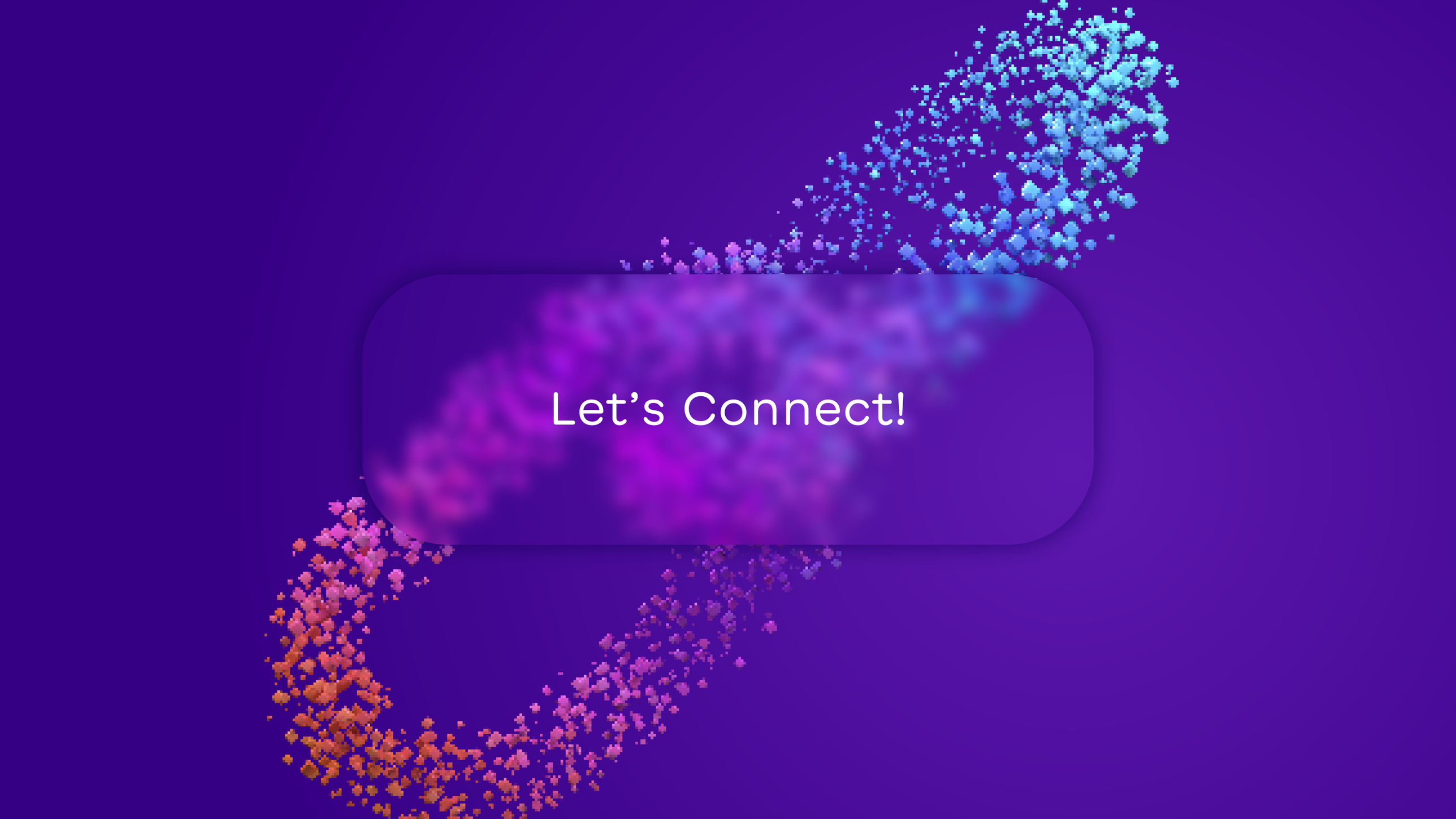
Existing hardware of schools
to behave like Edge Cloud

Operate cloud based tools and
applications independent of connectivity



Extend the adoption
of Applications (LMS etc)

Optimise cloud cost by
leveraging local Edge Cloud:


Let’s Connect!