

# Virtual Education





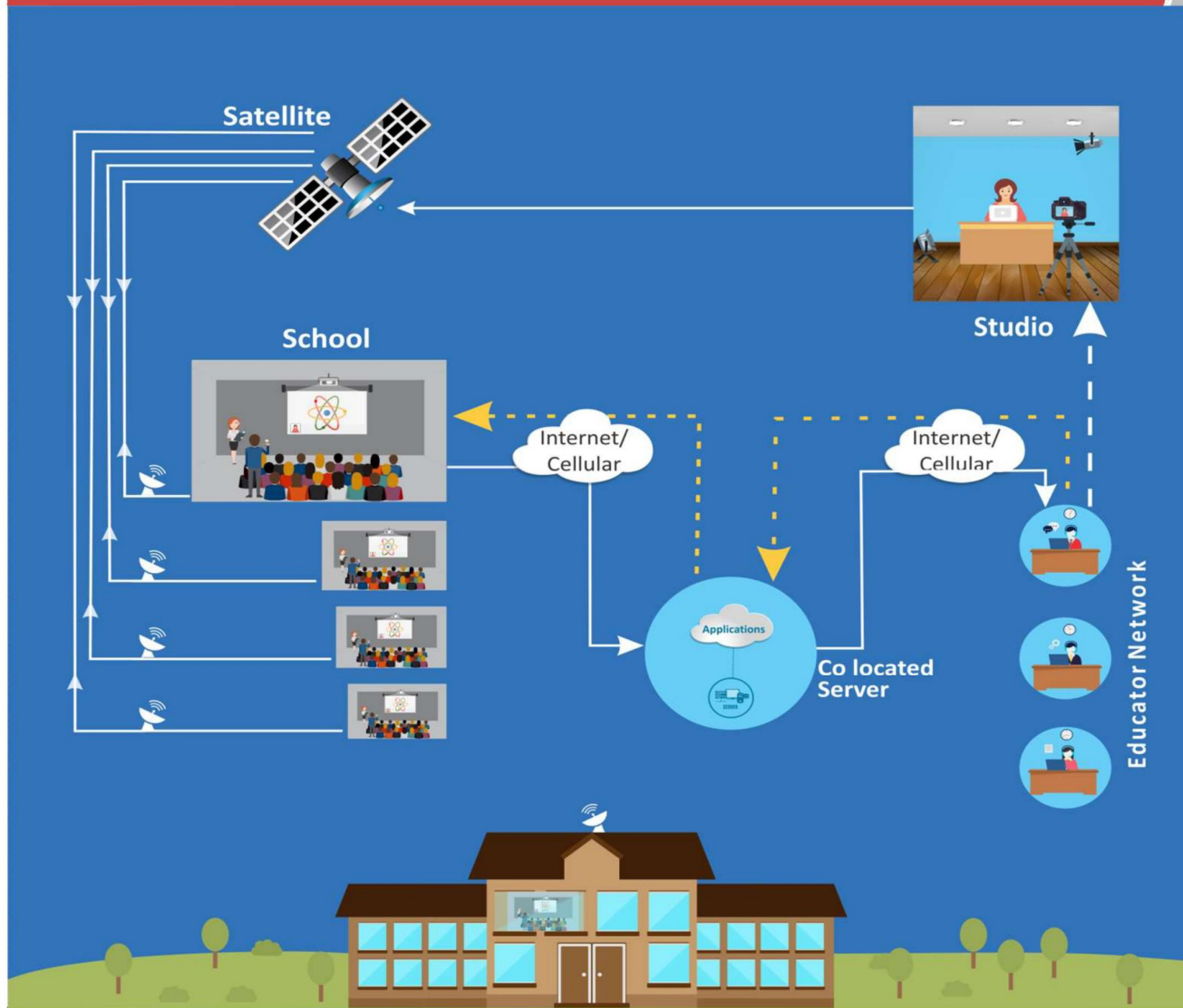
# VirtuaL-EDUCATION

FOR HIGH QUALITY EDUCATION IN SCHOOLS





# PROPOSED TECHNOLOGY PLATFORM



## HYBRID SATELLITE- TERRESTRIAL TECHNOLOGY

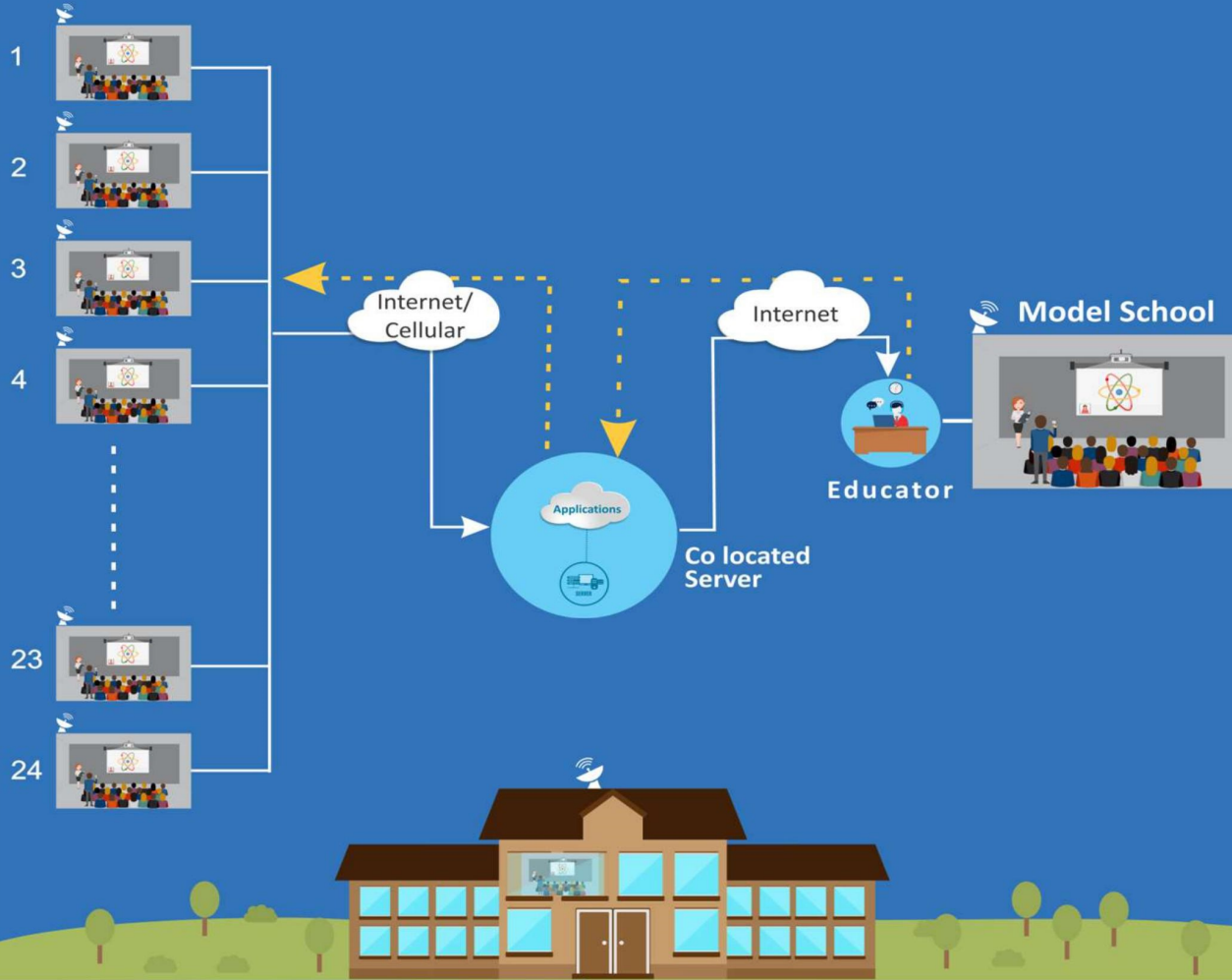
**Forward Communication:**  
Satellite

**Reverse Communication:**  
Mode 1: Broadband Internet  
Mode 2: Cellular (3G/2G/Voice)  
Mode 3: Satellite



# MODEL SCHOOL

## Other Satellite Schools



## Educator Setup



## Monitoring System

Search

Reports

Map

Status

Logout

Monthly Class Run Status Report

Taluk

Select

Month

Year

Report

Search

Export to Excel

Taluk-Wise & School-Wise Class Run Status for the Month of

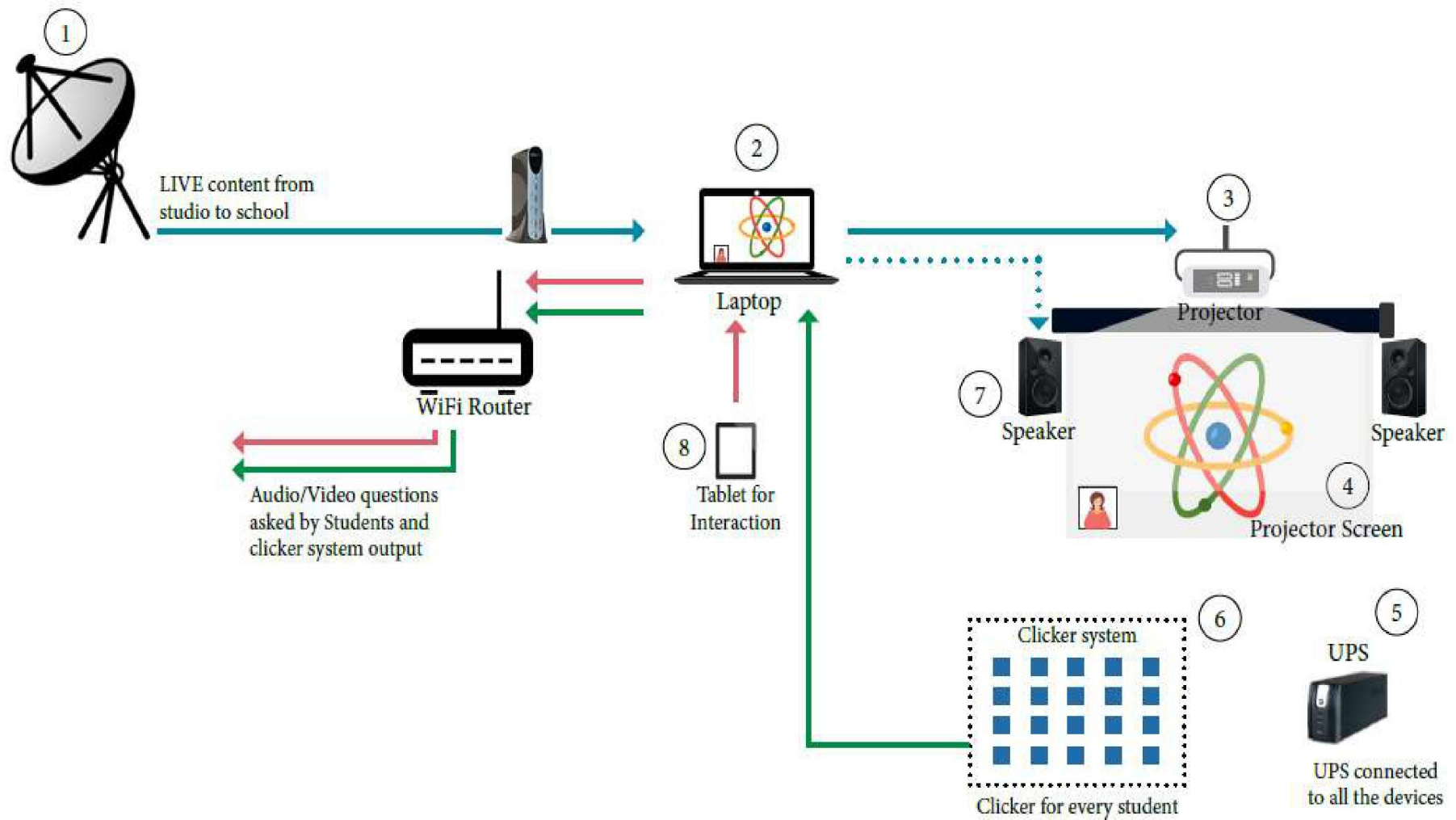
Taluk Name	Village Name	School Code	School Name	Working Days in Month	Approved by	Total
DEVANAHALLI	VISHWANATHAPURA	28210302204	COMP GHS KOIRA	21	20	
DEVANAHALLI	VISHWANATHAPURA	28210302205	G J C VISHWANATHAPURA	21	20	
DEVANAHALLI	CHANNARAYAPATTA	28210313504	G HS (COMP) VELIYUR	21	14	
DEVANAHALLI	JALISI	28210304016	G HS JALISI	21	20	
DEVANAHALLI	CHANNARAYAPATTA	28210313502	GHS CHANNARAYAPATTA	21	17	

## Clickers for Assessment





# CLASSROOM FLOW DIAGRAM





# END-TO-END SOLUTION



Studio expert



Moderator



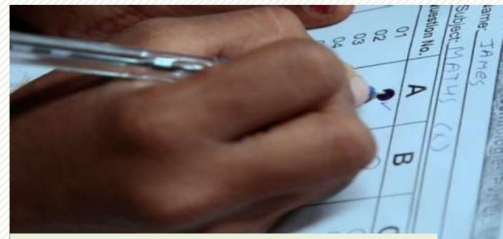
Student asking a query



Centre



Studio Operations



OMR for CCA

## HIGHLIGHTS

- 1) **Interactive sessions**
- 2) **Low power system which can run on battery and backup with Solar Hybrid UPS & Battery**
- 3) **Vector based low sized animations ( No loss of quality)**
- 4) **Real life examples, Conversational scripts**
- 5) **Top teachers of the country**
- 6) **One hour of E-Content creation > 250 Man Hours**
- 7) **Educators at Studio & at Model Schools – Govt. teachers**
- 8) **Standardization of content & delivery across centres**
- 9) **Real time monitoring, centralized tracking & evaluation**
- 10) **Continuous Comprehensive Assessment along with pre-test, post-test**



# REAL TIME ANALYTICS USING CLICKERS

## How it works:

- A teacher poses a multiple-choice question/ true or false questions, etc...
- Each student submits an answer to the question using a handheld clicker
- Clicker sends the response data to the server
- Software on the server collects students' answers and produces statistical data showing response to the teacher

## CLICKER ADVANTAGES

- Effective tool in both formative and summative assessment
- Provides true data driven instruction
- Engage and motivate students making learning fun
- Encourages participation from every student

## TYPES OF QUESTIONS

- Conceptual Understanding
- Critical thinking
- Student perspective
- Concept application
- Recall power assessment



## SIMULTANEOUS LIVE DOUBT CLARIFICATION BY EDUCATORS

### ***Step 1:***

*During interaction, doubts from students appear in the queue of server.*

### ***Step 2:***

*Educators pick doubts live from the server and interact with the student.*

### ***Step 3:***

*Selected questions that are judged by the Educator as beneficial to all students will be forwarded to the expert taking live classes.*

### ***Step 4:***

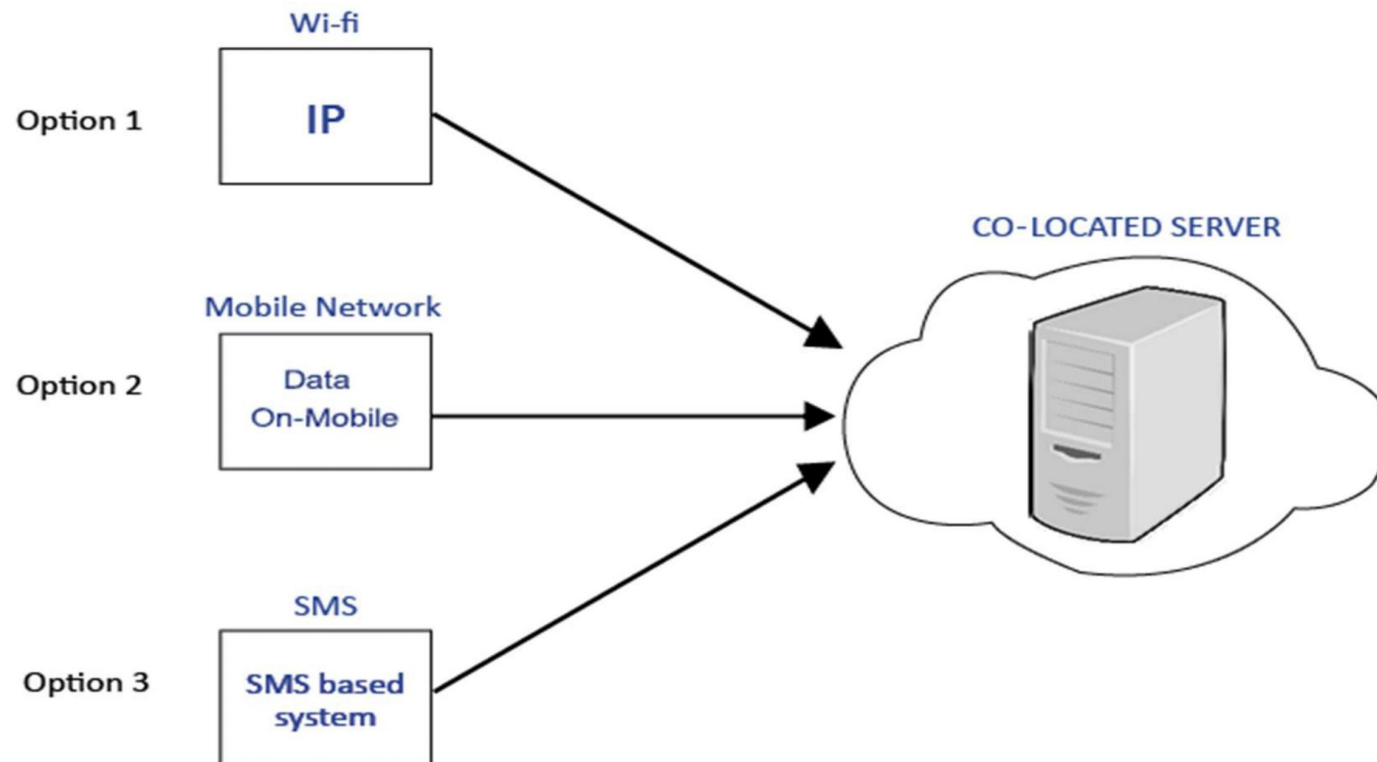
*The live response from the expert will be broadcasted to all classrooms so that students of other classrooms can be benefitted.*

**Educator System can be also used for teaching & recording**



# CELLULAR HYBRID

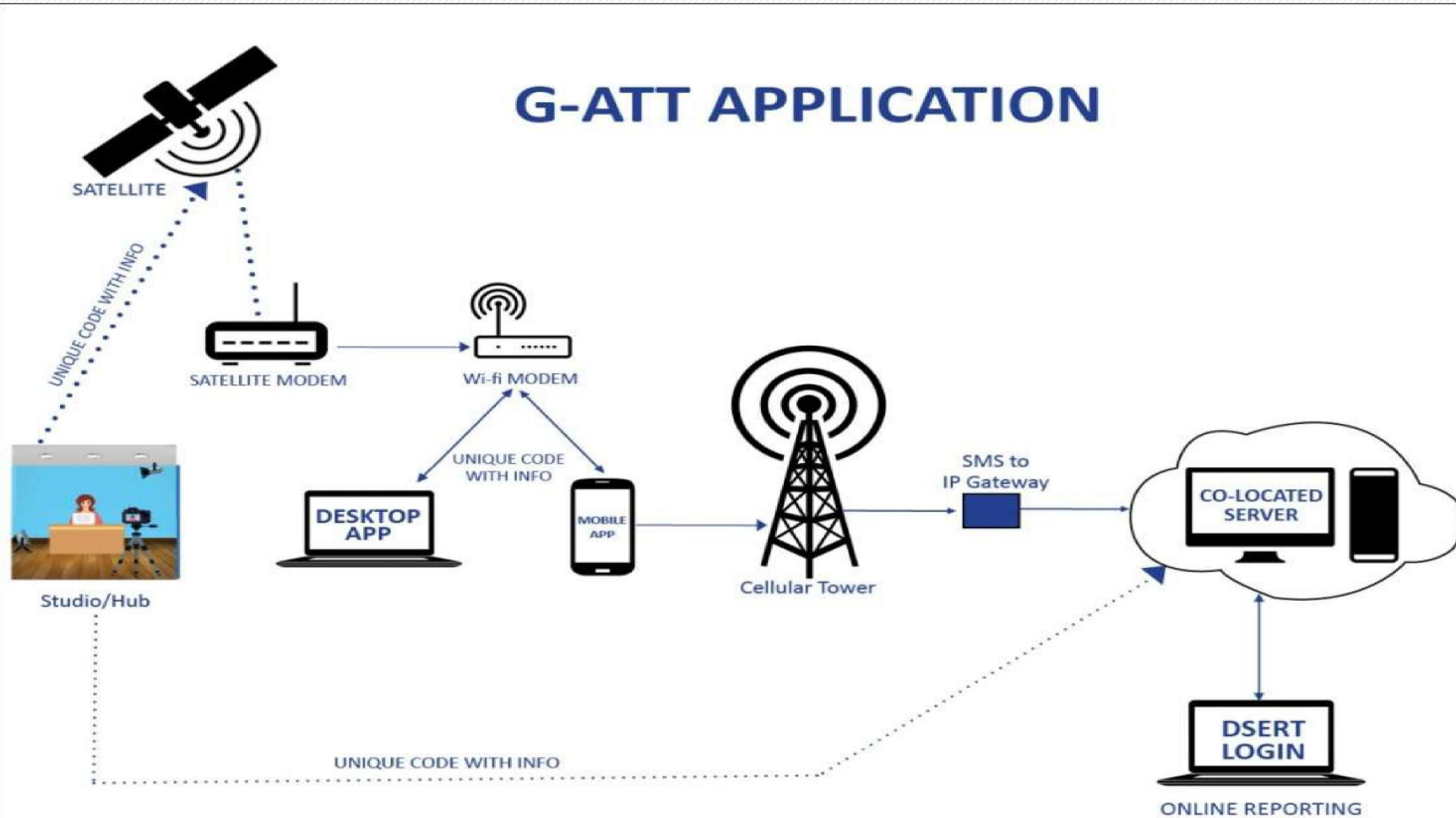
## Data-on-mobile system





# CELLULAR HYBRID

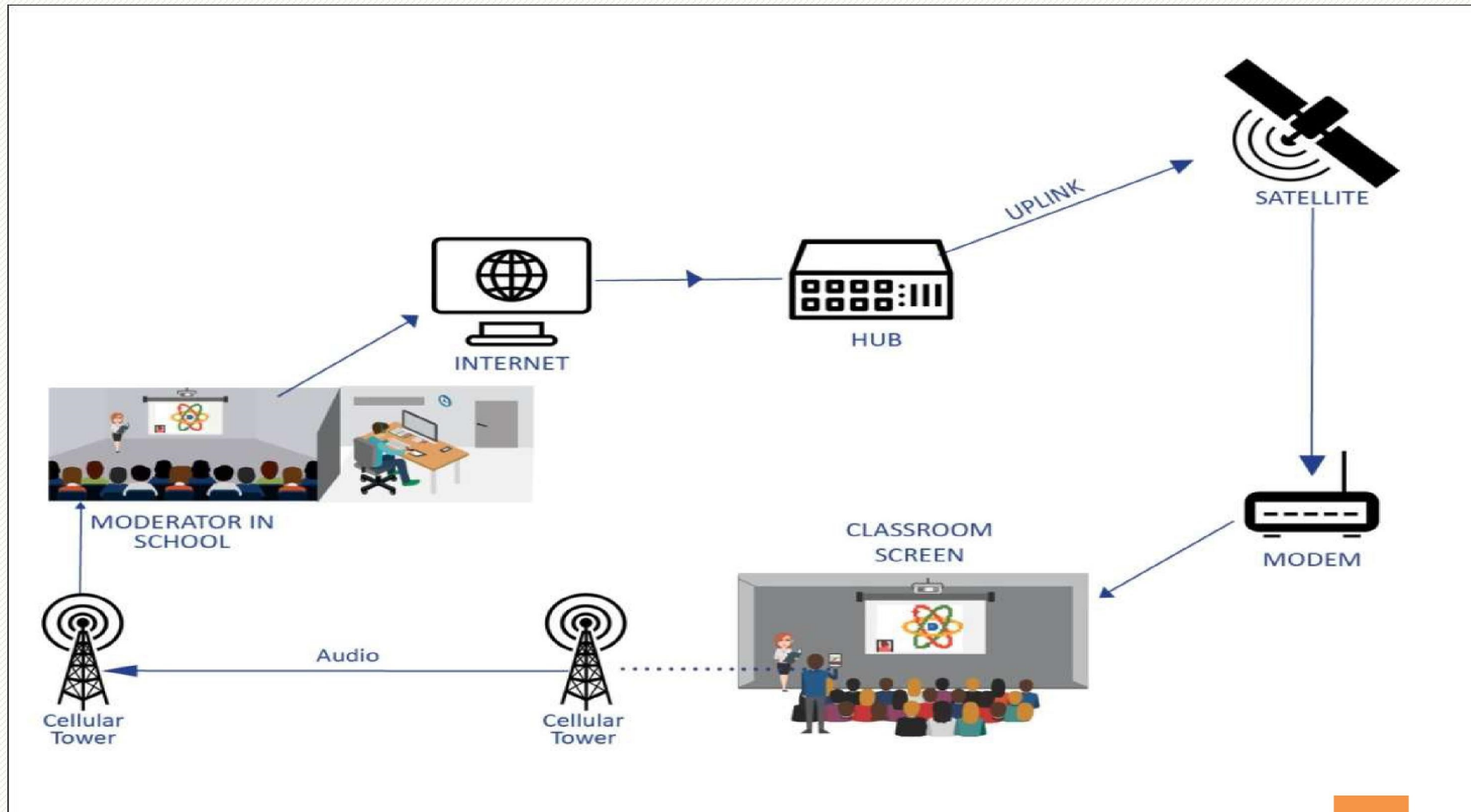
SMS based system works to receive authentication code





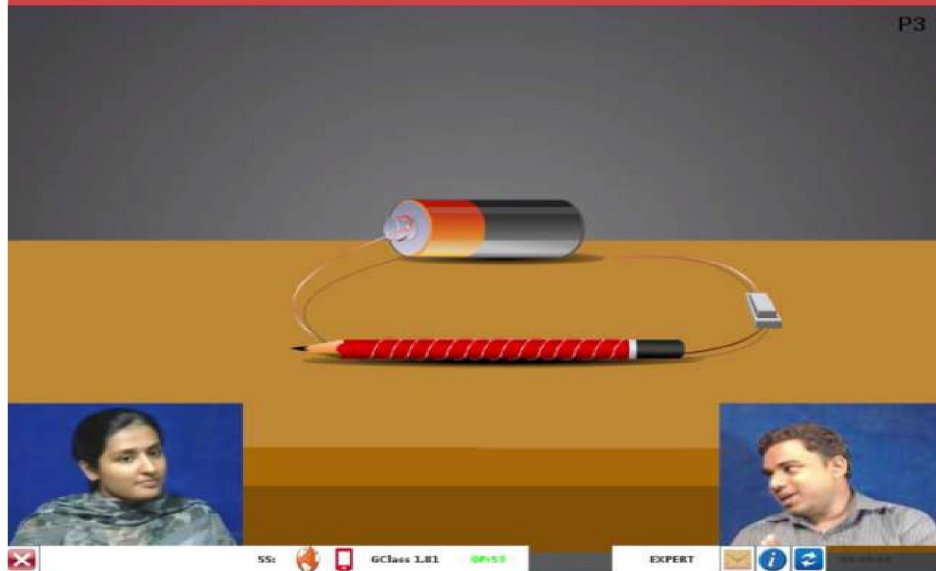
# CELLULAR HYBRID

## SMS based system to receive authentication code





# MULTIMEDIA CONTENT



126. If  $\sin^2 x = \frac{3}{4}$ , then  $\cos^2 x =$

- 1)  $\frac{1}{4}$
- 2)  $\frac{2}{5}$
- 3)  $\frac{3}{4}$
- 4) 1

$$\sin^2 x + \cos^2 x = 1$$
$$\cos^2 x = 1 - \sin^2 x$$

Edutel





## PRODUCT DEVELOPMENT - eCONTENT CREATION PROCESS





## PRODUCT DEVELOPMENT - eCONTENT CREATION PROCESS





## LEARNING MANAGEMENT SYSTEM

### CMDS

- **Content Management and Distribution System**

### ILE

- **Institution Learning Environment**

## KEY FEATURES

- Access LIVE as well as recorded sessions to authorized students from any device and network.
- Online practice tests, e-book reader, collaborative learning and various types of content access facilities from any device.
- Automated Examinations Preparation for Selected Teachers
- Comprehensive assessment tools to teachers
- Self assessment tools to students



## REPORTING SYSTEM: Real-Time Data Monitoring

A comprehensive Online Monitoring System (OMS)

Class Running Status shall be monitored by an Application installed in Mobiles of assigned Coordinators

Educator system shall be monitored through online application

Complaint Management

Class run status will be monitored at Model Schools

Nodal Officers send the report to Information Team



# REPORTING AND MONITORING SNAPSHOTS

## Tele Education Classes Conducted as Per the Time table Approved by DSERT

Month: November ▼

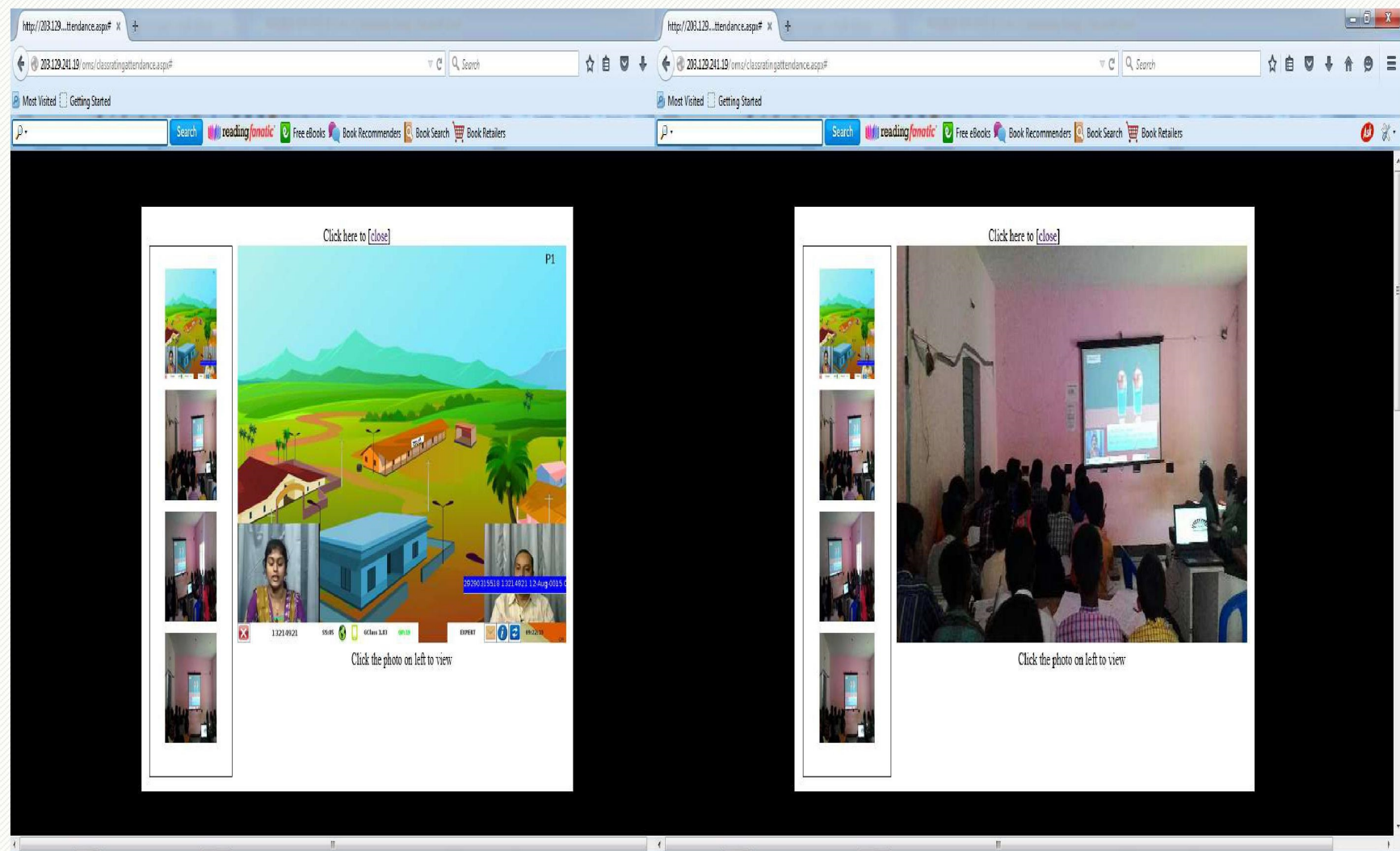
## Number of Classes Conducted as Per the Time Table Approved by DSERT

Class	Maths		Science		English		Extra		Total		Efficiency (Studio UP Time) in %
	Number of Sessions approved by DSERT	Classes Telecasted from DSERT Studio	Number of Sessions approved by DSERT	Classes Telecasted from DSERT Studio	Number of Sessions approved by DSERT	Classes Telecasted from DSERT Studio	Number of Sessions approved by DSERT	Classes Telecasted from DSERT Studio	Number of Sessions approved by DSERT	Classes Telecasted from DSERT Studio	
5	37	38	38	37	28	28			103	103	100
6	40	40	35	35	28	28			103	103	100
7	36	36	41	41	26	26			103	103	100
8	38	38	42	42	23	23			103	103	100
9	40	40	40	40	23	23			103	103	100
10	49	50	50	49	20	20	30 (Revision Class)	30 (Revision Class)	149	149	100
TOTAL	240	242	246	244	148	148	30	30	664	664	

Real time status of all the aspects of the project such as school wise number of students attending at each session, status of satellite & internet connectivity, class run status etc. At any given point of time, LIVE photos of classroom can also be accessed through the OMS.



# LIVE PHOTOS





## OPERATIONS

LIVE, Multi – way interactive multimedia education platform AND Learning Management System in SDC.

Trained personnel for the profiles involved in project's operations and maintenance

Identify and allocate Technical Coordinators at the Model Schools.

Setup, management, and satisfactory functioning of all the facilities and services





## NO ADDITIONAL TRAVEL FOR TUITIONS

- Program delivered in schools during school hours
- Rural students don't have to travel to cities



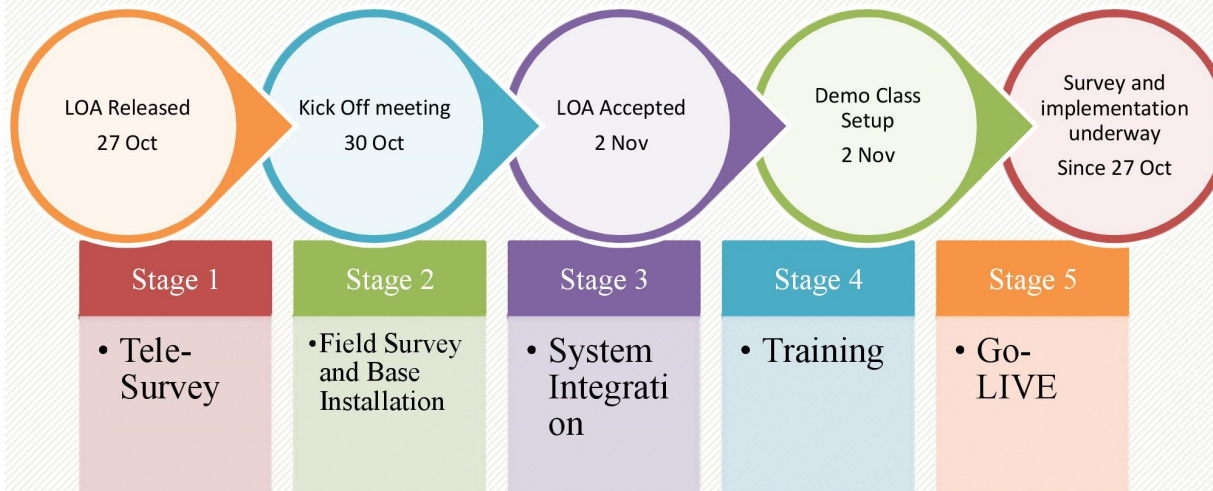
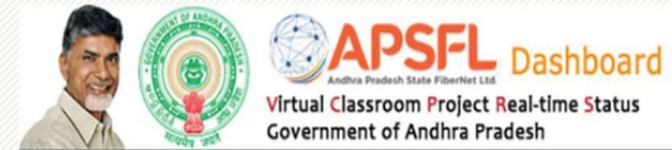
# Case Study



# ABOUT VIRTUAL CLASS PROJECT IN ANDHRA PRADESH

4000 Schools to be Connected Virtually

Project Awarded to Trigyn

The image shows two screenshots of a mobile application. The left screenshot is titled "Power Connectivity" and contains fields for "Power Available in School?", "Power Duration (in Hrs)", "Power Cut Timings", "Earth Facility for Power Mains?", "Electrical Lineman Name", "Electrical Lineman Contact", "Local Electrician Name", and "Local Electrician Contact". The right screenshot is titled "AP Survey" and contains a "DISE" field, a "SELECT" button, and a "Pending Records to Sync:" field.

Demo class



## PROJECT MILESTONES – ANDHRA PRADESH



02 Nov 2017

A demo class is set up at Undavalli Village



Sessions being relayed from Bangalore Studio (Ad-Hoc)



03 Nov 2017

APSFL MD & officials visited to witness the classes LIVE

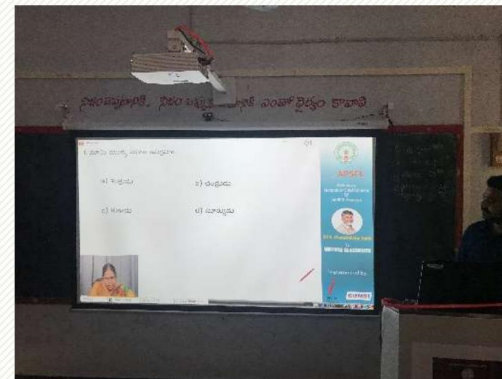


23 Nov 2017

Hon'ble CM, Hon'ble Minister of Education and Other officials witnessed the Classes LIVE

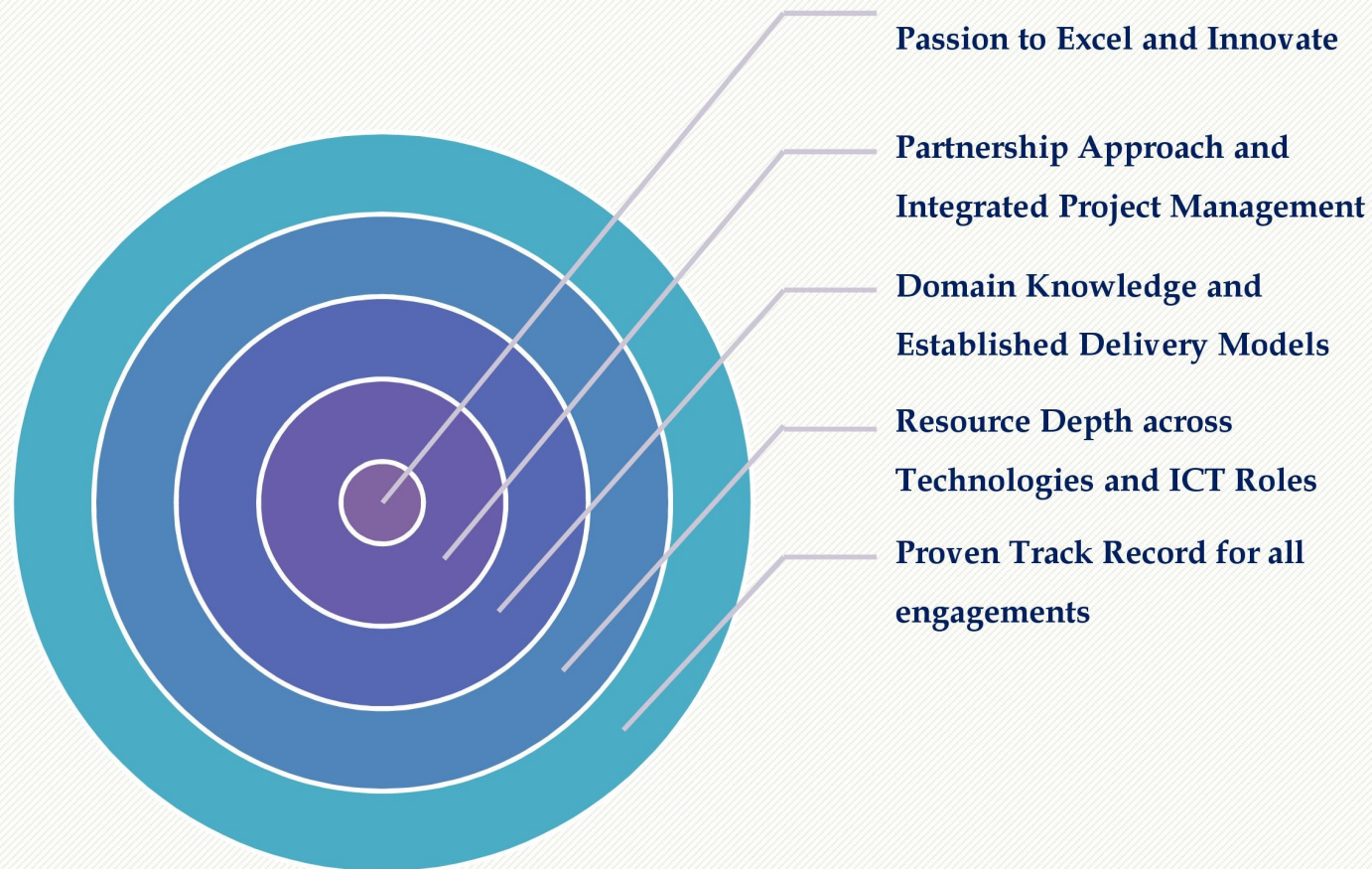


## DEMO CLASSES SETUP AT ANDHRA PRADESH





# Trigyn Differentiator - How Clients benefit?





Coming together is a Beginning,  
Staying together is Progress, and  
Working together is Success.

~ Henry Ford

