3RD NATIONAL SEMINAR ON MODERN EDUCATIONAL TECHNOLOGIES EduTech KG 2022

E-Adhigam Program: Department of School Education, Haryana, India

December 9th, 2022

Presented by: Dr. Parmod Kumar, Programme Officer, Department of School Education, Haryana, India

Agenda

The students faced 3 broad challenges because of Covid-19 Pandemic (1/3)
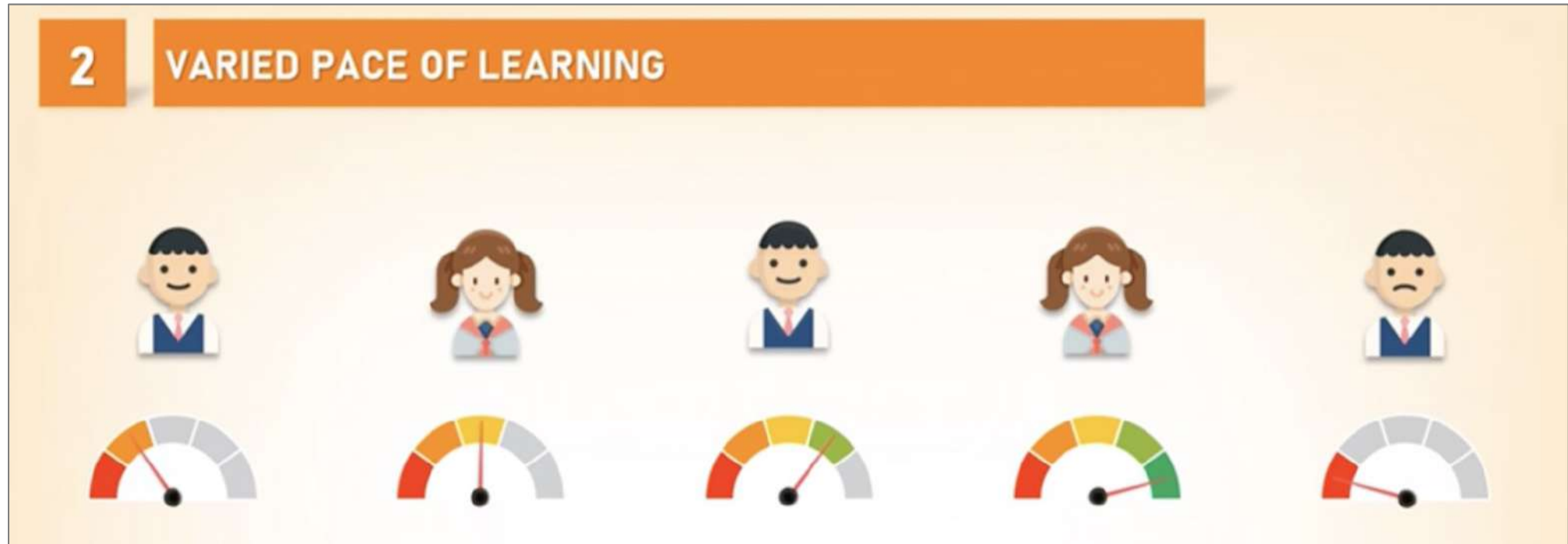

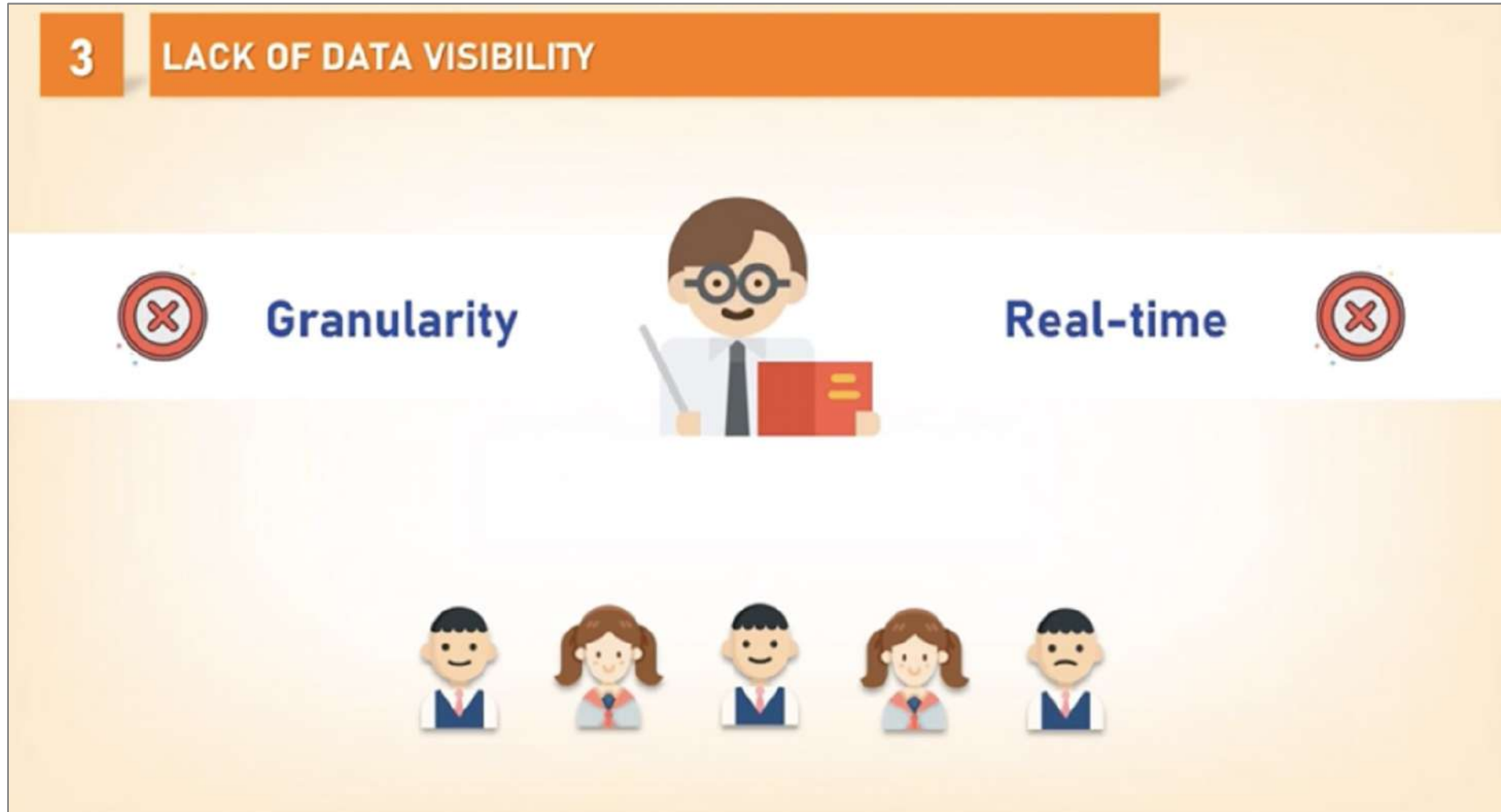**1   DIFFERENT STUDENT LEARNING LEVELS**
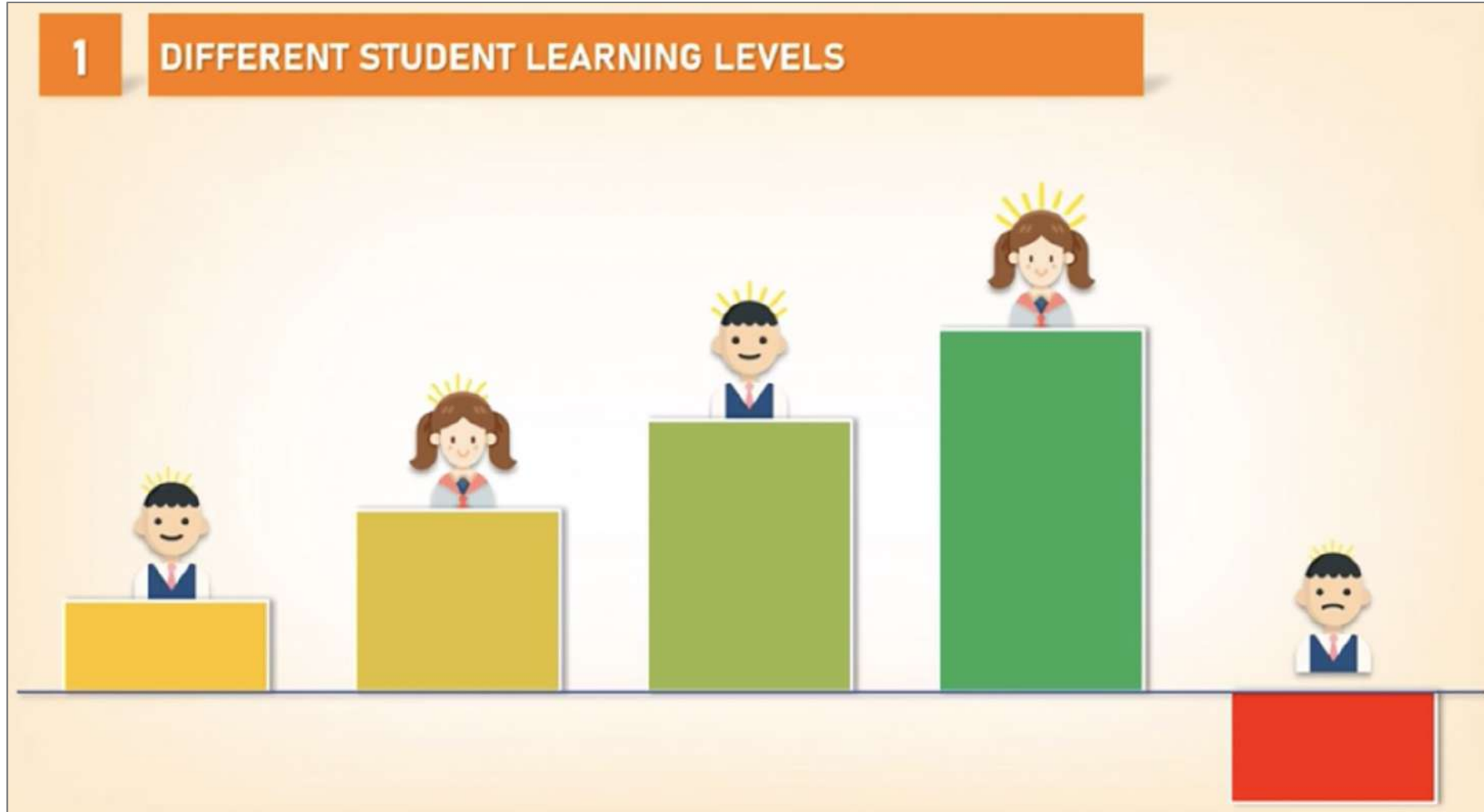
The students faced 3 broad challenges because of Covid-19 Pandemic (2/3)

The students faced 3 broad challenges because of Covid-19 Pandemic (3/3)

On May 5th 2022, Hon'ble Chief Minister and Education Minister of Haryana launched "e-Adhigam":
Haryana's Tablet Based Learning Program for students of Senior Secondary grades in Govt Schools

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5,28,000+
Students

25,000+
Teachers

3,300+
Schools

With this, Haryana became the 1st Indian state to have implemented an Ed-Tech programme of this scale

Cascaded events at the district and block level – 118 locations

Live telecast from the CM event at all 118 locations

Momentum on WhatsApp groups capturing the excitement

Government of Haryana understood the reality that the 'Unconnected' could be 'Connected' only if provided with a __complete__ learning solution

Tablet Hardware

👉 *Samsung tablet for every student*

✅ *Solves for unequal device access*

PAL Software

👉 *Personalized & Adaptive Learning Software*

✅ *Enables Teaching at the Right Level (TaRL)*

Data SIM
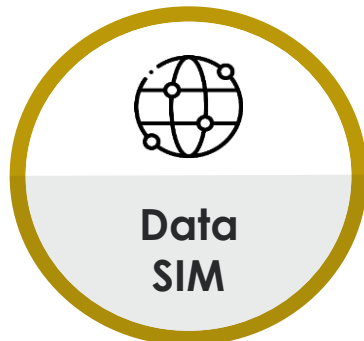
👉 *Internet enabled tablets with free data*

✅ *Solves for unequal internet access*

अधिगम

एडवांस डिजिटल हरियाणा इनिशिएटिव
ऑफ गवर्नमेंट विद अडाप्टिव मॉड्यूलस

e-अधिगम टेबलेट के संग हुई शिक्षा की राह सुगम

To ensure adequate usage, all levels in the system have been leveraged

1. Students

2. Teachers & Principals

3. Block & District Officials

4. Department of Secondary Education (DSE), Haryana

The students have been engaged to encourage e-Adhigam adoption

Students **1**

Teachers & Principals **2**

Block & District Officials **3**

DSE Haryana **4**

Student level assessments were organised centrally

✅ All students of grades 10th & 12th

✅ Min. 1 diagnostic test per subject

✅ On one day

The teachers and principals were instructed on the usage of PAL software

Students 1

Teachers & Principals 2

Block & District Officials 3

DSE Haryana 4

At-scale online trainings

e-Adhigam training via YouTube Live

e-Adhigam Training l DSE, Panchkula

7K+
Live views

35K+
Total views

The teachers and principals were instructed on the usage of PAL software

Students 1

Teachers & Principals 2

Block & District Officials 3

DSE Haryana 4

Detailed SOPs for stakeholders

Teacher SOP

Principal SOP

With deployment of PAL Dashboard, multi-level reviews are being institutionalized

Tools for review & monitoring institutionalized in the system

Students 1

Teachers & Principals 2

Block & District Officials 3

DSE Haryana 4

PAL Dashboard
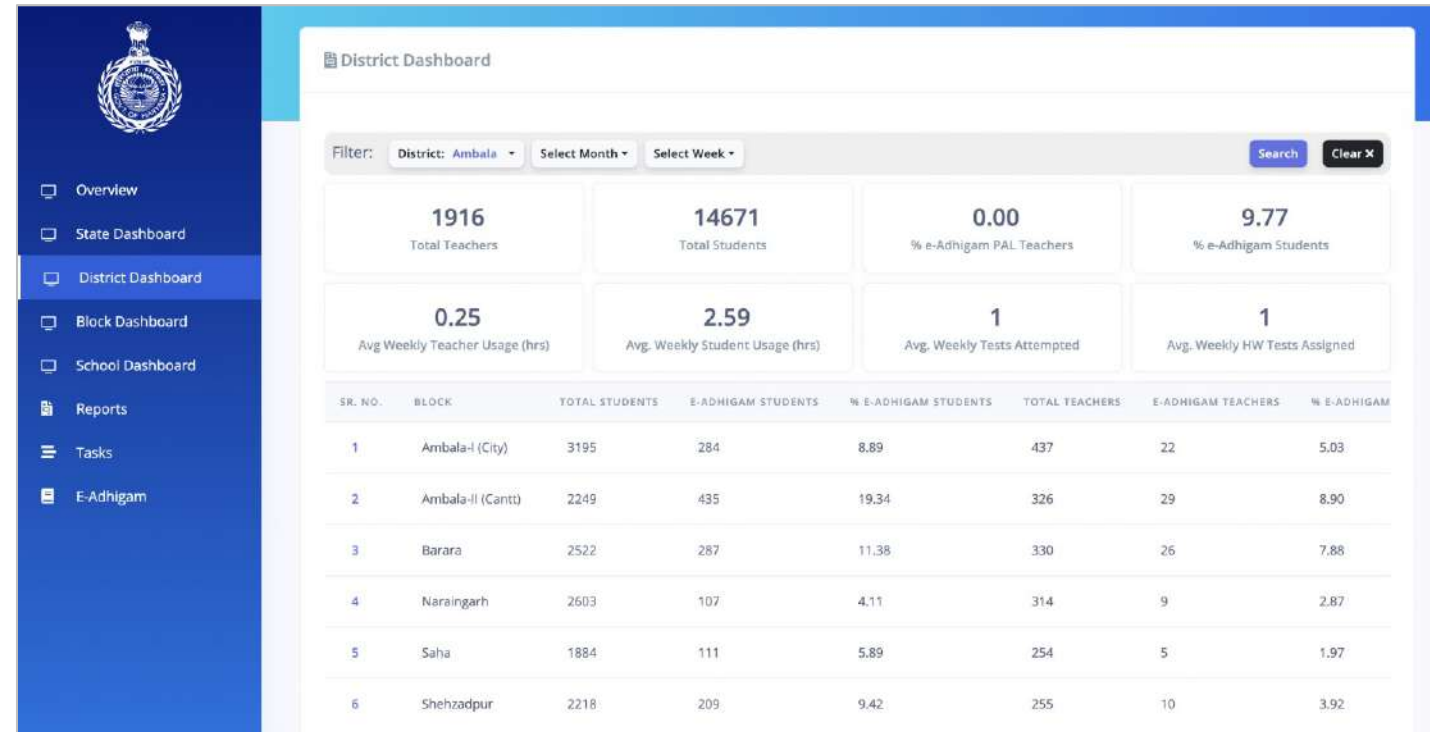
Regular reviews across different levels - district, block, school to drive adoption

Consistent top-down push is catalyzing all the processes with great pace

Students 1

Teachers & Principals 2

Block & District Officials 3

DSE Haryana 4

Regular Director-led VCs

Video Conferencing by Department of School Education

Director, Secondary Education, reviewing implementation in districts

Consistent top-down push is improving all the processes with great pace

Students 1

Teachers & Principals 2

Block & District Officials 3

DSE Haryana 4

Steady top-down messaging by the department

Nudges via WhatsApp

Daily sharing of tablet activation status

By providing a learning software and internet enabled personal tablet to each user,
the govt addressed the three most critical disparities that make a student 'Unconnected'

Tablet Hardware
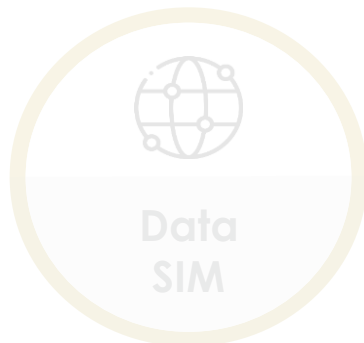
✓ Solves for unequal device access

Let us understand each of the three components of e-Adhigam in detail

PAL Software

✓ Enables Teaching at the Right Level (TaRL)

अधिगम

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Data SIM

✓ Solves for unequal internet access

Quality based hardware procurement was done after deliberate analysis of all available options and conversations with multiple Ed-Tech players

Hardware Procurement Process

Hardware options analysis

Consultation rounds with Hartron, IT Dept, EdTech partners

Finalization of hardware specifications

Addition of Mobile Device Management (MDM) & after sales support

Tablet Hardware

It was clear that post COVID learning losses could be mitigated only if students were given the means to learn at their individual level and pace of learning

PAL provides customized support and student level progress to tackle 3 challenges:

❌ *Different student learning levels*

✅ *Allows students to focus on content tailored to their needs*

❌ *Varied pace of learning*

✅ *Adapts practice & tests to each student's pace*

❌ *Lack of data visibility*

✅ *Provides real time student wise insights*

Personalised and Adaptive Learning Software

Tablet Hardware

PAL Software

By adapting to the student's learning level, PAL enables "Teaching at The Right Level (TaRL)"

WORLD ECONOMIC FORUM   unicef for every child   TvWaahi

PAL provides:

> Digital Content

> Diagnostic Tests

> Personalised Remedial

> Adaptive Practice

> Digital Assessments

First-of-its-kind PAL software RfP was developed by Haryana

PAL Software Procurement Process

Finalization of PAL software specifications

Finalization of selection criteria; pilot, technical & organizational capability score

Finalization of SLAs and penalties

Finalization of Haryana Tulna Framework

PAL Software

A robust vendor selection process was conducted to find a software suited to the state's requirements

CENTRAL SQUARE FOUNDATION

EkStep

GOVT. OF HARYANA

In collaboration with

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

J-PAL

Pratham

Language and Learning foundation
Strong Foundation, Stronger Future

केन्द्रीय शैक्षिक प्रौद्योगिकी संस्थान
Central Institute of Educational Technology

Tablet Hardware

PAL Software

Stages of Evaluation

Proof of Concept	Technical Evaluation	Organization Evaluation
1,000+	**30**	**5**
Students Covered in Proof of Concept	Experts from Private & Govt. Institutions	Parameters across 3 years of org history

WORLD ECONOMIC FORUM   unicef for every child

Haryana became the first state to adopt IIT Bombay's Tulna framework that evaluates Ed-Tech Products across Content, Pedagogy and Technology parameters

Stages of Evaluation

Proof of Concept

Technical Evaluation

Organization Evaluation

25
Schools Covered in Proof of Concept

30
Experts from Private & Govt. Institutions

10
Parameters across 3 years of org history

Having a Data SIM Card in each tablet is imperative for efficient functioning and syncing of PAL software

1 *Speed & connectivity requirements finalized; 2GB/ day at minimum 2mbps*

2 *Distribution mechanism designed to ensure sync with tablet hardware delivery*

3 *SIM management & grievance redressal mechanism finalized*

4 *Reporting & payment mechanism finalized; SLAs & respective penalties defined*

Finalised Vendors

airtel

Jio

Tablet Hardware

PAL Software

Data SIM

Haryana has developed an Inventory Management System to enable granular tracking of each tablet

Device delivery confirmation

Student to device and SIM mapping

Record of tablet acceptance by schools for every tablet

User to tablet IMEI mapping

User to data SIM mapping

Real time record of delivery progress in schools

A grievance portal has been developed to enable efficient issue resolution & vendor performance tracking

Reporting grievance

Tracking grievance status

*Category wise grievance reporting for hardware, software & data SIM*

Real time tracking of grievance status

Final authority to close a grievance with school

Granular information on time taken to resolve ensuring SLA compliance by vendors

Multi level PAL dashboard has been made live to enable tracking of tablet & PAL usage at state, district, block and school levels
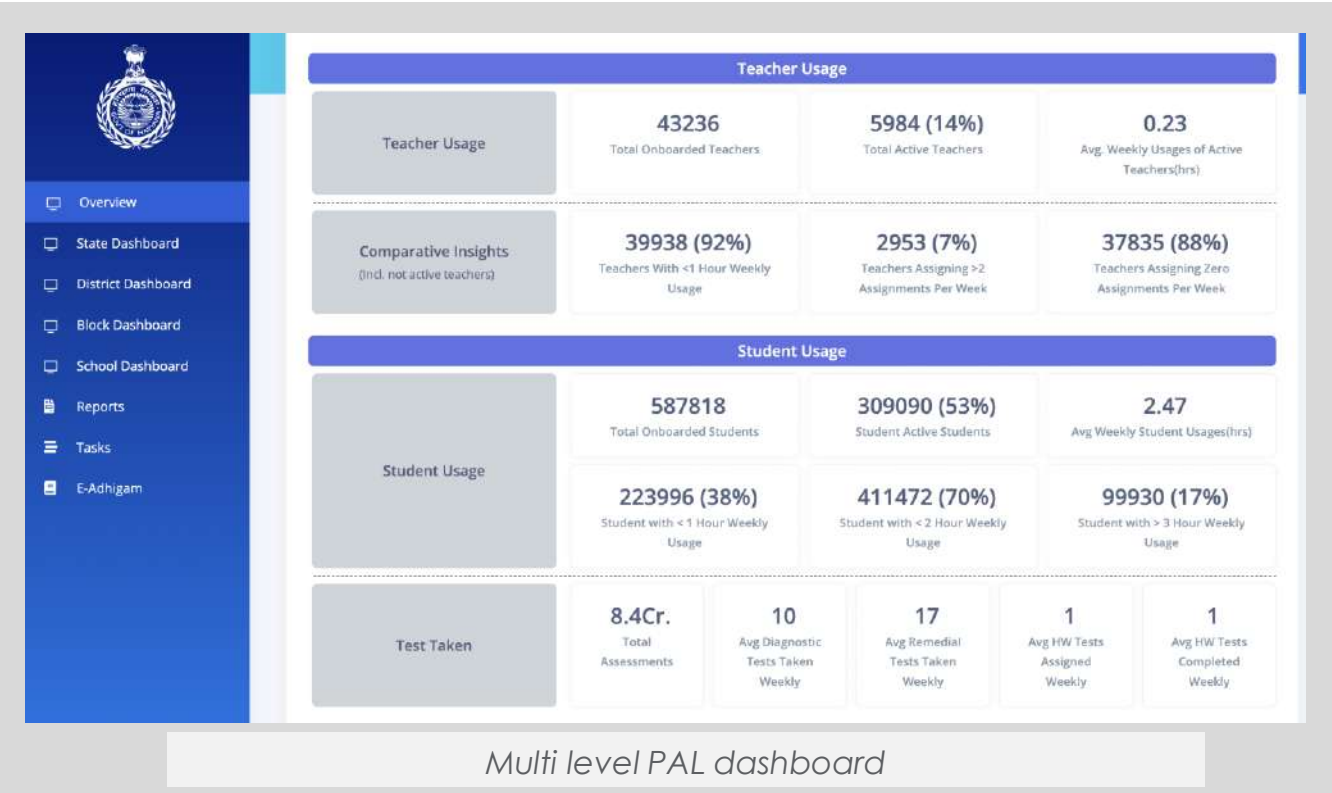
Multi level PAL dashboard

Personalized login for each district, block & school

Real time data reporting on all important parameters

Granular, extractable excel reports to track user level data

Forward looking goals for Haryana's e-Adhigam

1

Ensure sustained adoption of tablet-based learning in classrooms & at homes

2

Expand PAL coverage to more subjects

3

Ensure multi-level review and monitoring of the program

Thank you!