



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

1

Overview of e-Adhigam

2

Understanding e-Adhigam: Hardware, Software, Data SIM

3

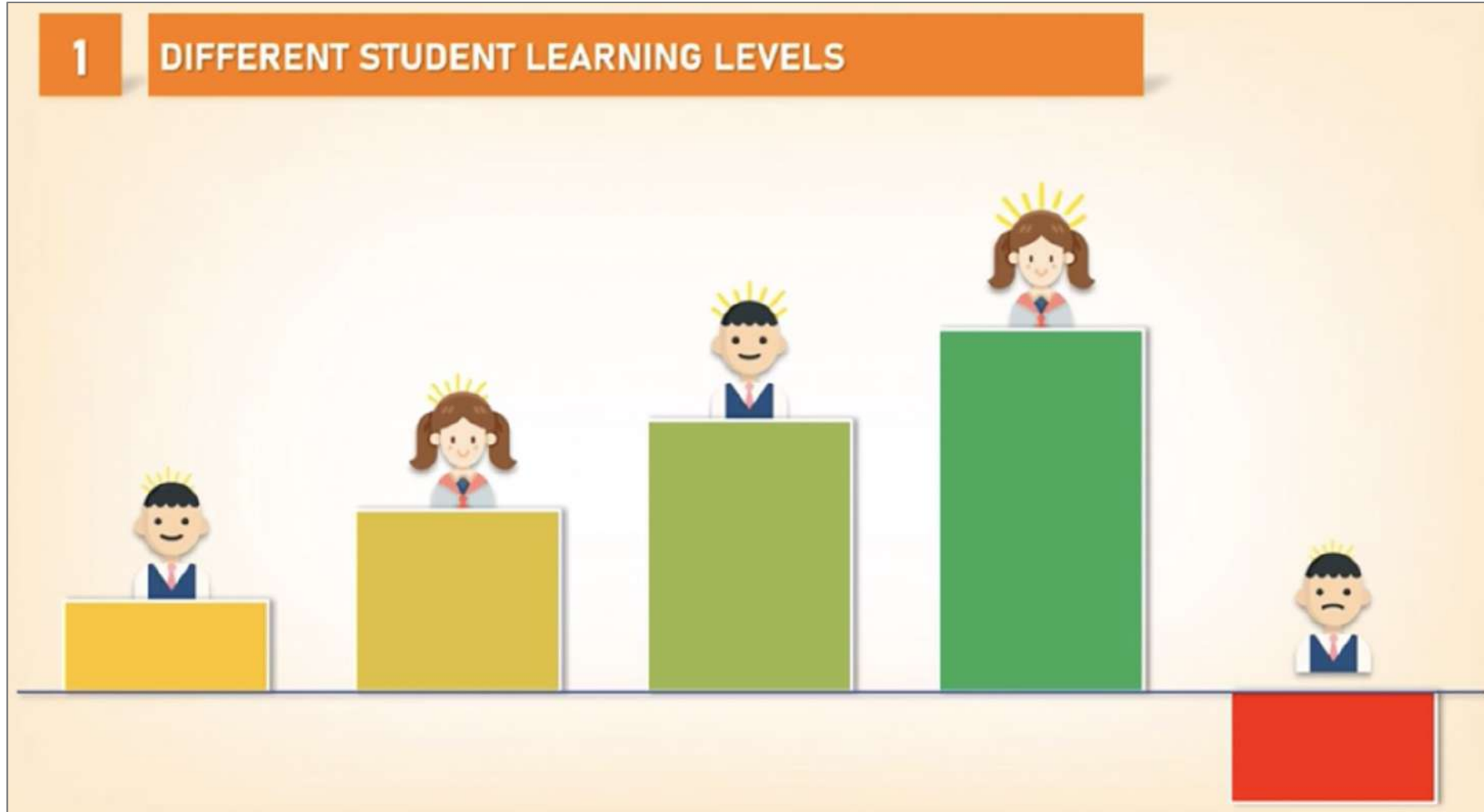
Technology enablers

4

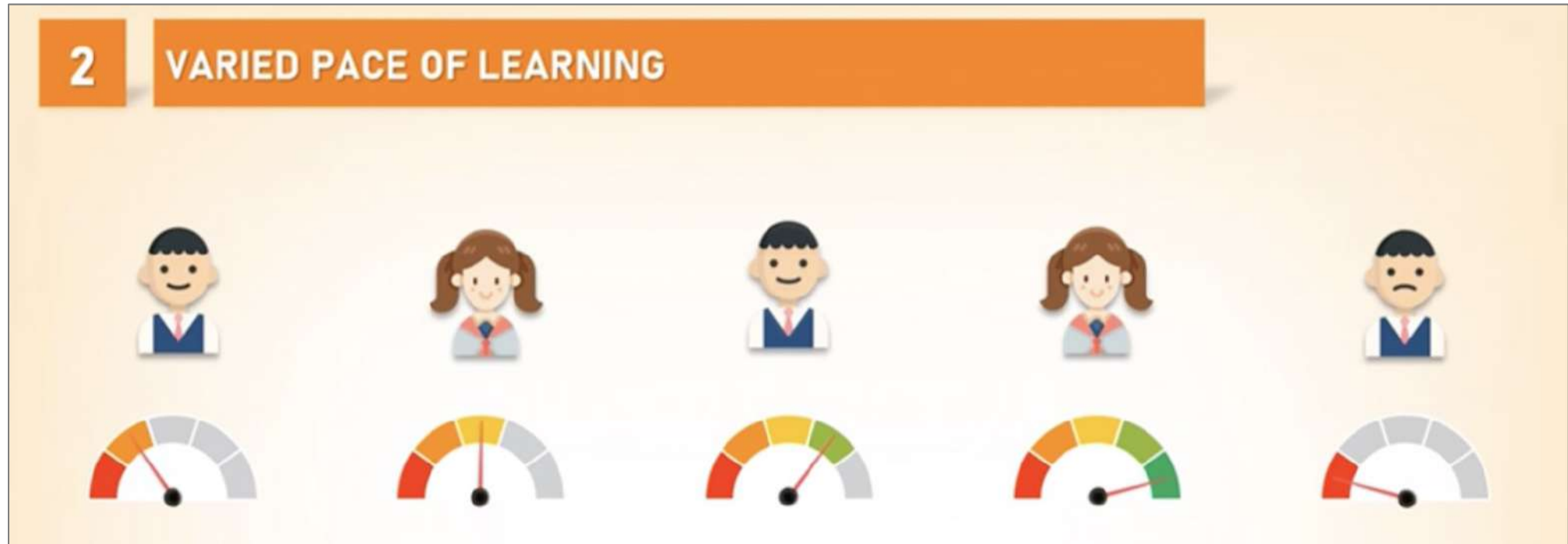
Forward looking goals



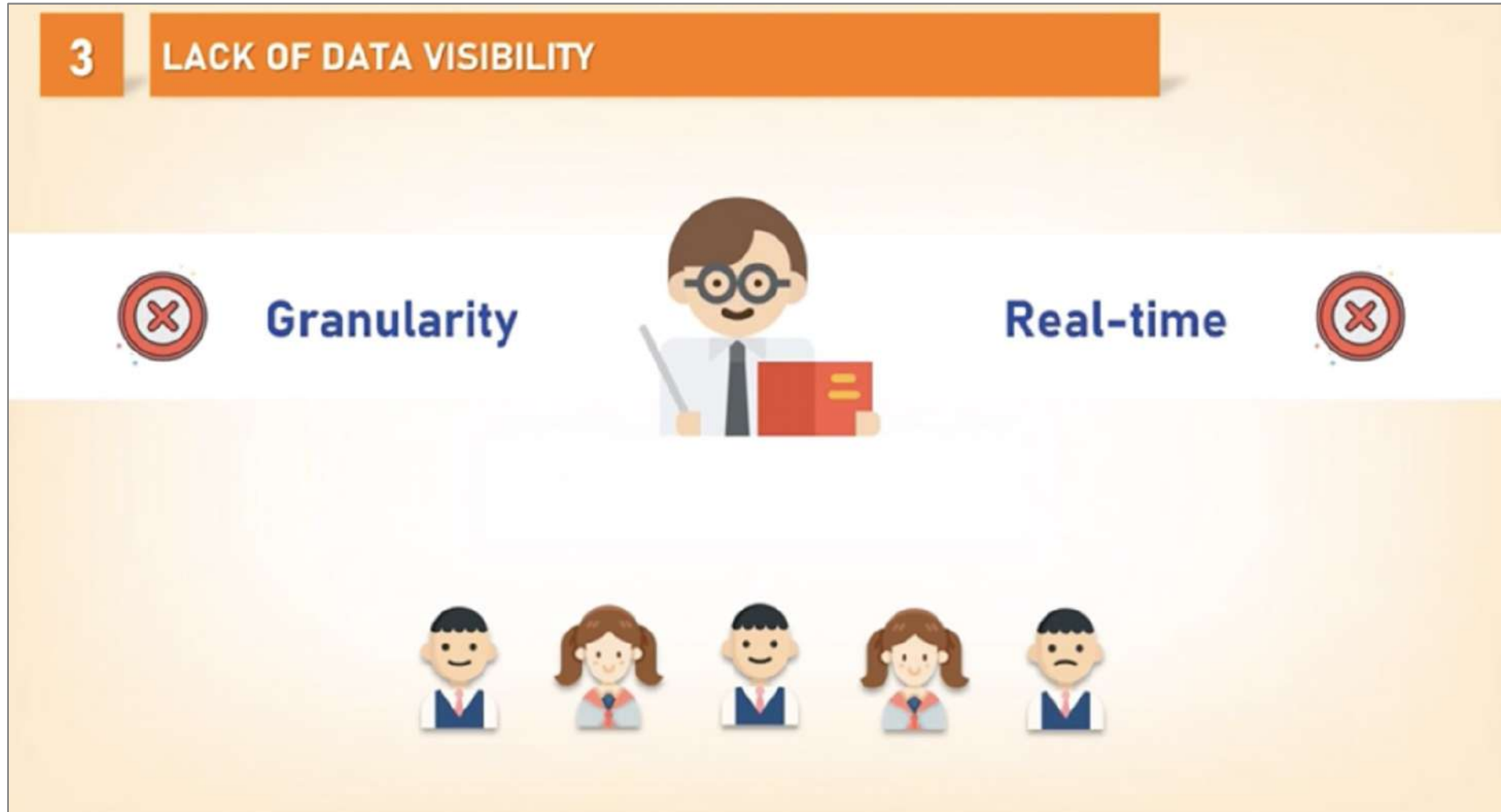
The students faced 3 broad challenges because of Covid-19 Pandemic (1/3)



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



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



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



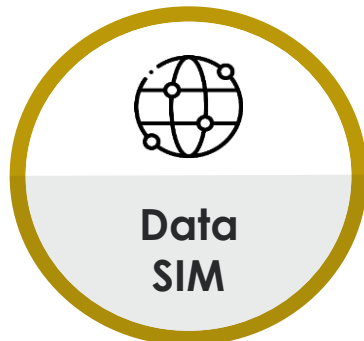
👍 *Samsung tablet for every student*

✅ *Solves for unequal device access*



👍 *Personalized & Adaptive Learning Software*

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



👍 *Internet enabled tablets with free data*

✅ *Solves for unequal internet access*



अधिगम

एडवांस डिजिटल हरियाणा इनिशिएटिव ऑफ गवर्नमेंट विद अडाप्टिव मॉड्यूलस

९-अधिगम टैबलेट 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

Student level assessments were organised centrally

Students

1

Teachers & Principals

2

Block & District Officials

3

DSE Haryana

4

GOVERNMENT OF HARYANA / हरियाणा सरकार
Directorate School Education
विद्यालय शिक्षा निदेशालय

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 e-mail: edu@secsecondaryhrya@gmail.com • site: www.schooleducationharyana.gov.in

सेवा में
 राज्य के सभी,
 जिला शिक्षा अधिकारियों।
 यादी क्रमांक- 39/22-2020 ACD (4)
 दिनांक- 15.09.2022

विषय- कक्षा 10वीं तथा 12वीं के विद्यार्थियों के लिए सभी विद्यालयों में दिनांक 19.09.2022 को ई अधिगम टैबलेट पर परीक्षा आयोजित करने के सन्दर्भ में।

उपरोक्त विषय के सन्दर्भ में आपको अगत करवाया जाता है कि सेकेंडरी शिक्षा विभाग द्वारा सजकोप विद्यालयों में पहले वाले 10वीं और 12वीं कक्षा के सभी विद्यार्थियों के लिए टैबलेट आधारित शिक्षा ई अधिगम को लागू कर दिया गया है जिसके अन्तर्गत टैबलेट के साथ PAL (Personalized Adaptive Learning) App तथा Data SIM के माध्यम से इंटरनेट सेवाओं को साझा किया गया है। कार्यक्रम की सफलता के लिए कक्षा में शिक्षकों और विद्यार्थियों द्वारा टैबलेट पर निरंतर अभ्यास की जरूरत है। इस सन्दर्भ में आपसे आग्रह किया जाता है कि सम्बन्धित विद्यालयों के सभी प्रधानाचार्यों को सूचित करें कि 19.09.2022 को ई अधिगम टैबलेट पर कक्षा 10वीं और 12वीं के विद्यार्थियों के लिए PAL App पर उपलब्ध ऐसे सभी विषयों के लिए न्यूनतम एक अध्याय की परीक्षा आयोजित करें। यह अनिवार्य है क्योंकि इस पर प्राप्त अंकों को विद्यार्थी की वार्षिक परीक्षा, CCE, Internal Assessment में शामिल किया जाना है।

अतः आपसे आग्रह किया जाता है कि उपरोक्त अनुसार इसकी अनुपालना सभी विद्यालयों में सुनिश्चित करने की कृपा करें जिसके तहत 19.09.2022 तक सभी सम्बन्धित विद्यार्थी Assessment में शामिल हों।

Smileet/mt
 सहायक निदेशक (शैक्षणिक)
 कृते: निदेशक माध्यमिक शिक्षा
 हरियाणा पंचकुला
 दिनांक, पंचकुला 15.09.2022

पूरांकन क्रमांक सभ:

इसकी एक प्रति निम्नलिखित को सूचनाार्थ एवं आवश्यक कार्रवाई हेतु भेंटित है:-

1. वरिष्ठ सचिव, माननीय अतिरिक्त मुख्य सचिव, विद्यालय शिक्षा हरियाणा, चण्डीगढ़।
2. निजी सहायक, माननीय निदेशक सेकेंडरी शिक्षा हरियाणा, पंचकुला।

Smileet/mt
 सहायक निदेशक (शैक्षणिक)
 कृते: निदेशक माध्यमिक शिक्षा
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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

At-scale online trainings

Students

1

e-Adhigam training via YouTube Live

Teachers & Principals

2

Let us first understand what a Personalized & Adaptive Software means

e-Adhigam Training | DSE, Panchkula

Department o...

Top chat replay ▾

- Namdev Bansal GGHS Jamal 2909 Namdev Hindi PGT,
- Peramjit Kaur good information
- SHYAM SUNDER sharma informative session
- SAVITA JAGLAN savita,G.m.s.s.s.Tosham(bhiwani)0356
- avit selwal Nisha PGT political science GSSS Bithmara 1189
- Antriksh Sharma really very informative and useful
- Faiz Mohd Faiz Mohd.PGT English GSSS Subaseri (0914)Nuh
- naresh kumar Naresh Kumar PGT Hindi GsssDadhola 2088 Thanks Sir
- Ramesh Kumar Ramesh Kumar
- Mi Ui धन्यवाद जी।
- Swati Kaushik swati PGT maths, gsss seemla, kaithal
- Aadi Sehrawat very informative

Block & District Officials

3

DSE Haryana

4

7K+

Live views

35K+

Total views



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

Detailed SOPs for stakeholders

Students

1

Teachers &
Principals

2

Block &
District
Officials

3

DSE Haryana

4

Teacher SOP

GOVERNMENT OF HARYANA / हरियाणा सरकार
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e-mail: edusecondaryhry@gmail.com - site: www.schooleducationharyana.gov.in

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जिला शिक्षा अधिकारी।
यादी क्रमांक:- 39/22-2020 ACD (4)
दिनांक:- 26.07.2022

विषय- ई-अधिगम कार्यक्रम के अंतर्गत शिक्षकों के दिशा-निर्देश एवं भूमिकाएं तथा जिम्मेदारियों के सन्दर्भ में।

उपरोक्त विषय के सन्दर्भ में आपको अवगत करवाया जाता है कि सैकेण्डरी शिक्षा विभाग राजकीय विद्यालयों में पढ़ने वाले 10वीं और 12वीं कक्षा के सभी विद्यार्थियों के लिए टैबलेट आधारित शिक्षा ई अधिगम को लागू कर रहा है, जिसमें टैबलेट के साथ PAL सॉफ्टवेयर और डेटा रिम कार्ड के माध्यम से इंटरनेट सेवाओं को सांझा किया जा रहा है। कार्यक्रम की सफलता शिक्षकों और विद्यार्थियों द्वारा सफल क्लासरूम एडॉपशन पर निर्भर करती है। शिक्षकों को दैनिक कक्षा शिक्षण में टैबलेट का उपयोग कैसे करना चाहिए, इसके लिये निम्नानुसार निर्देश जारी किए जा रहे हैं:-

क्रमांक	कैटेगरी	भूमिका और जिम्मेदारी
1	स्पष्टीकरण वीडियो	<ul style="list-style-type: none"> प्रत्येक माह के पहले सप्ताह में शिक्षक सुनिश्चित करें कि मासिक पाठ्यक्रम सिलरिंग के अनुसार उनके विषय के लिए सभी अध्यायों के लिए सामग्री उपलब्ध है। PAL एप्लिकेशन पर उपलब्ध वीडियो लेवल वीडियो की जांच करें। कक्षा निर्देश के लिए उपलब्ध वीडियो का उपयोग करें यदि यह सभी विद्यार्थियों के लिए उपयुक्त पाया जाता है।
2	डायगनोस्टिक टेस्ट	<ul style="list-style-type: none"> यह सुनिश्चित करें कि सभी विद्यार्थी कक्षा शिक्षण के पूरा होने के बाद प्रत्येक अध्याय का डायगनोस्टिक टेस्ट अवश्य दें।
3	रेमेडियल टेस्ट	<ul style="list-style-type: none"> यह सुनिश्चित करें कि सभी विद्यार्थी डायगनोस्टिक परीक्षण में अपने प्रदर्शन के आधार पर न्यूनतम 2 व्यक्तिगत रेमेडियल टेस्ट अवश्य दें। विद्यार्थियों को प्रत्येक अध्याय में कम से कम 80% अंक प्राप्त करने तक रेमेडियल टेस्ट देने के लिए प्रेरित करें।
4	गृहकार्य	<ul style="list-style-type: none"> सभी छात्रों को सप्ताह में न्यूनतम 2 होमवर्क असाइनमेंट दें।
5	शंका एवं समाधान	<ul style="list-style-type: none"> यह सुनिश्चित करें कि PAL एप में नामांकित सभी विद्यार्थियों द्वारा

Principal SOP

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विषय- ई-अधिगम कार्यक्रम के अंतर्गत प्राचार्य/विद्यालय मुखिया के दिशा-निर्देश एवं भूमिका के सन्दर्भ में।

उपरोक्त विषयानुसार जैसा कि आपको विदित है कि सैकेण्डरी शिक्षा विभाग राजकीय विद्यालयों में पढ़ने वाले 10वीं और 12वीं कक्षा के सभी विद्यार्थियों के लिए टैबलेट आधारित शिक्षा ई अधिगम को लागू कर रहा है, जिसमें टैबलेट के साथ PAL सॉफ्टवेयर और डेटा रिम कार्ड उपलब्ध करवाया गया है। ई अधिगम की सफलता शिक्षकों और विद्यार्थियों द्वारा सफल क्लासरूम एडॉपशन पर निर्भर करती है। विद्यार्थी और अध्यापक कक्षा में, स्कूल समय में तथा उसके उपरान्त टैबलेट आधारित ई अधिगम का समुचित उपयोग करें, इसके लिये विद्यालय मुखिया की भूमिका महत्वपूर्ण है। अतः विद्यालय मुखियाओं से निम्नानुसार अपेक्षा है:-

1. टैबलेट वितरण-

- विभाग द्वारा जारी पत्र क्रमांक 39/22-2020 ACD (4) दिनांक 18.05.2022 के अनुसार समुचित कार्यवाही करें।
- यह सुनिश्चित करें कि कक्षा 9वीं से 12वीं के लिए छात्र एडमिशन डेटा नियमित रूप से MIS पर अपडेट करें। कक्षा 10वीं तथा 12वीं में फेल हुए विद्यार्थियों का पुनः दाखिला करें। उनके लिये टैबलेट्स की व्यवस्था हेतु समुचित मांग Avsar पोर्टल पर करें।

2. क्लासरूम एडॉपशन-

- विद्यार्थियों द्वारा कक्षा में टैबलेट और PAL एप्लिकेशन का उपयोग सुनिश्चित करें।
- सुनिश्चित करें कि ई अधिगम के तहत स्कूल में कक्षा अध्यापक/विषय अध्यापक द्वारा PAL के माध्यम से प्रत्येक विद्यार्थी को प्रति सप्ताह प्रति विषय न्यूनतम 2 होमवर्क/असाइनमेंट दिए जाएं।
- सुनिश्चित करें कि प्रत्येक विद्यार्थी अध्यापक द्वारा दिए गए homework/assignment को अवश्य करें।

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

Tools for review & monitoring institutionalized in the system

Students

1

Teachers &
Principals

2

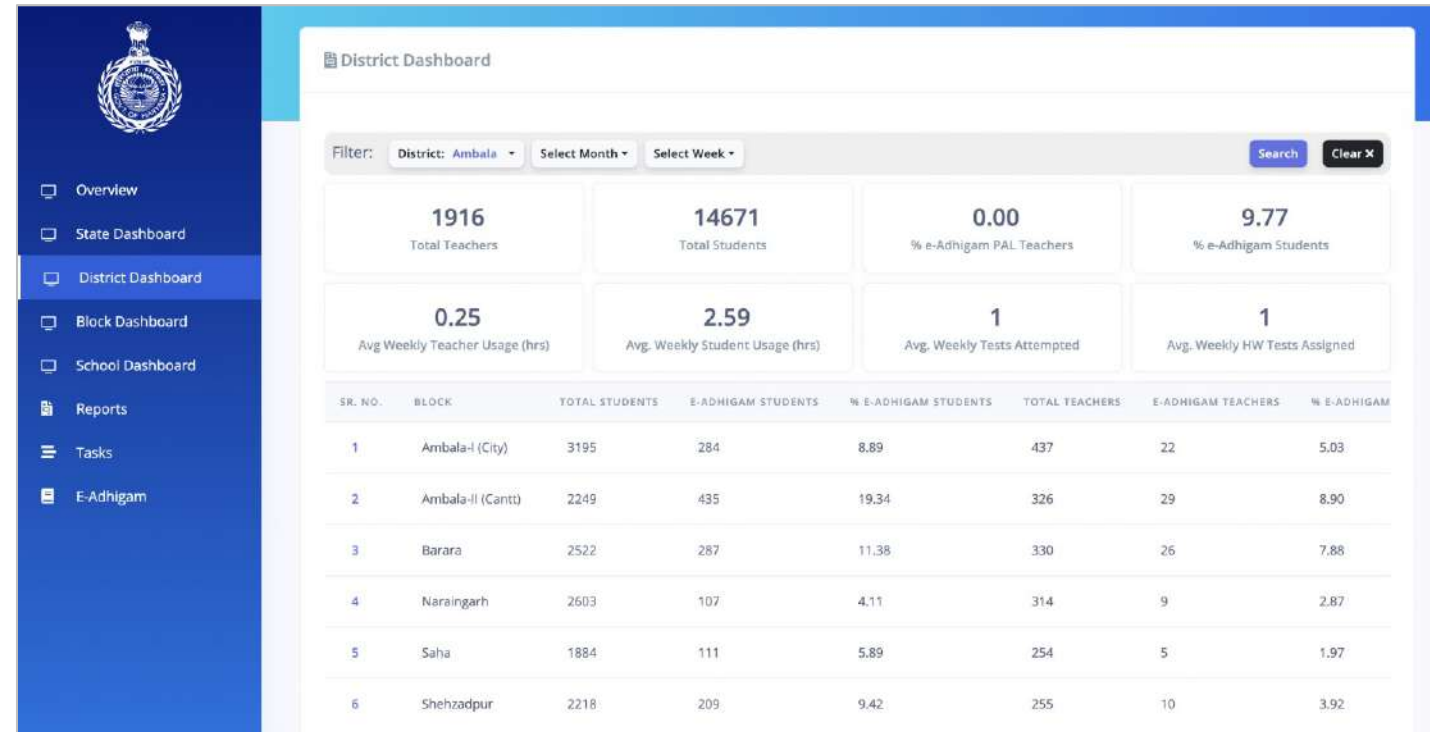
Block &
District
Officials

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

Regular Director-led VCs

Students

1

Teachers &
Principals

2

Block &
District
Officials

3

DSE Haryana

4

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

Steady top-down messaging by the department

Students

1

Teachers & Principals

2

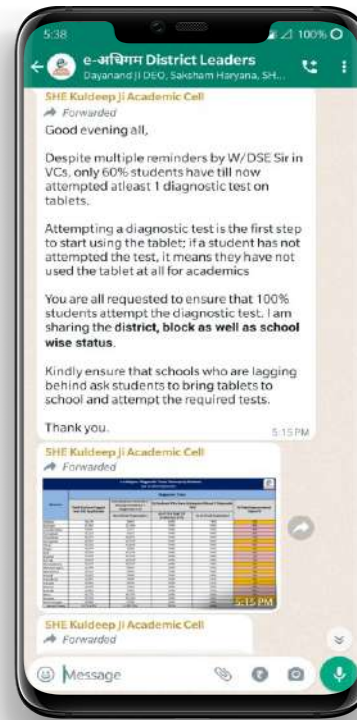
Block & District Officials

3

DSE Haryana

4

Nudges via WhatsApp



e-Adhigam: Diagnostic Tests' Attempt by Students
(As of 22nd September)

District	Total Students Logged Into PAL Application	Diagnostic Tests		% Point Improvement Since VC	
		Total Students Who Have Attempted Atleast 1 Diagnostic Test	% Students Who Have Attempted Atleast 1 Diagnostic Test		
			As of 22nd September		As of 21st Sept' 22 (Yesterday's VC)
Ambala	14,139	9,040	66%	70%	3%
Bhiwani	22,381	12,306	55%	55%	0%
Charkhi Dadri	8,036	4,717	58%	58%	0%
Faridabad	21,724	9,625	44%	44%	0%
Fatehabad	16,279	10,811	66%	66%	1%
Gurugram	23,927	14,762	61%	62%	1%
Hisar	26,522	14,824	56%	56%	0%
Jhajjar	12,879	7,826	60%	61%	1%
Jind	21,563	13,756	64%	64%	0%
Kaithal	19,363	13,210	68%	68%	1%
Karnal	19,995	12,918	64%	65%	1%
Kurukshetra	15,370	10,767	69%	70%	1%
Mahendragarh	11,999	6,804	56%	57%	1%
Nuh Mewat	19,119	9,944	51%	52%	1%
Palwal	12,625	7,608	59%	60%	1%
Panchkula	8,228	4,985	60%	61%	0%
Panipat	14,566	8,920	60%	61%	1%
Rewari	13,452	7,900	58%	59%	0%
Rohatak	12,863	7,383	57%	57%	0%
Sirsa	21,774	14,295	64%	66%	1%
Sonapat	19,733	10,335	51%	52%	1%
Yamunanagar	14,884	9,258	61%	62%	2%
Grand Total	3,71,421	2,22,794	59%	60%	1%

Daily sharing of tablet activation status

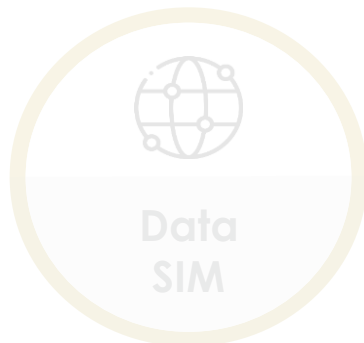
By providing a learning software and internet enabled personal tablet to each user, the govt addressed the three most critical disparities that make a student 'Unconnected'



Solves for unequal device access



Enables Teaching at the Right Level (TaRL)



Solves for unequal internet access

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



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

SUPPLIES & DISPOSALS DEPARTMENT, HARYANA
S.C.O. No. 09, 1st & 11th Floor, Sector-16, Panchkula-134109 (Haryana)
Ph.:- 0172-2570121, 123, 124. Fax No.:- 0172-2570122.
e-mail:- supplies@hry.nic.in , website:- dsndharyana.gov.in

Online tenders are invited in two stage bid system i.e. Technical bid and Financial Bid as per the details given below in Schedule-A

SCHEDULE-A
(Effective w.e.f 03.08.2021)

Sr. No.	PARTICULARS	REMARKS
1	Tender Notice No.	26/2021-22
2	Sr. No. of Tender.	01 (Group-1)
3	Superscribed No. of Tender.	56/HR/E-4/2021-22
4	Online submission of EMD, Tender fee & e-Service Fee Option-1: Through Net Banking and Debit card	On or before last date of submission of Technical Bids upto 12:00 Noon
5	Online submission of EMD Option-2: Through RTGS/ NEFT- (In case of above, the bidder has to pay Tender Fee & e-Service Fee Through Net Banking and Debit card as per the given date & time schedule)	On or before 13.08.2021 Upto 02:00 P.M.
6	Online Bid Preparation & submission.	Upto 17.08.2021 at 02:00 P.M.
7	Date & time of opening of Technical Bids/s.	On or after 17.08.2021 at 02:30 P.M.
8	Date & time of opening of Financial Bids/s	To be decided later on
9	Tender Fee:	
	(I) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the "Haryana State Public Procurement Policy for MSME -2016" notified vide G.O. No. 2/2/2016-4I Bill(1) dated 20-10-2016 and for Startups/first generation Entrepreneurs as notified vide G.O. No.2/2/2016-4IB-II dated 03.01.2019	NIL
	(II) For remaining bidders both from the Haryana and Non Haryana.	Rs. 5000/-
	Earnest Money Deposit (EMD) required:	
10	(I) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the "Haryana State Public Procurement Policy for MSME -2016" notified vide G.O. No. 2/2/2016-4I Bill(1) dated 20-10-2016 and for Startups/first generation Entrepreneurs as notified vide G.O. No.2/2/2016-4IB-II dated 03.01.2019	NIL
	(II) Central or Haryana Public Sector Enterprises and "approved sources" as declared by the Industries Department, Haryana	NIL
	(III) For remaining bidders both from the Haryana and Non Haryana	Rs. 2,00,000/-
11	E-Service Fee	Rs. 1000/-
12	Date and time of receipt of samples (if required)	On .17.08.2021 from 2:30 P.M. to 04:30 P.M.
13	Rates to be kept valid for acceptance upto:	31.03.2022

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:



**Personalised and
Adaptive Learning
Software**



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



Tablet
Hardware



**PAL
Software**

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

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 su

PAL provides:

➤ Digital Content

Allows students to focus on content tailored to their needs

➤ Diagnostic Tests

Varied pace of learning

➤ Personalised Remedial

➤ Adaptive Practice

Provides real time student wise insights

➤ Digital Assessments



Personalised and
Adaptive Learning
Software



PAL
Software

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

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

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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



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



Stages of Evaluation

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



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



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



केन्द्रीय शैक्षिक प्रौद्योगिकी संस्थान
Central Institute of Educational Technology

PAL
Software

Stages of Evaluation

Proof of Concept

25

Schools Covered in
Proof of Concept

Technical Evaluation

30

Experts from Private &
Govt. Institutions

Organization Evaluation

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

Devices
Total No. of record : 399

Device For: Box: Device Status: Enter IMEI-No:

S.NO.	DEVICE FOR	IMEI NO	STATUS	REMARKS	STATUS UPDATED AT	ACTION
1	Student	354991347272991	Pending			<input type="button" value="Accept"/> <input type="button" value="Decline"/>
2	Student	354991347550081	Pending			<input type="button" value="Accept"/> <input type="button" value="Decline"/>
3	Student	354991347586283	Pending			<input type="button" value="Accept"/> <input type="button" value="Decline"/>

Device delivery confirmation

Student Device Allocation

Select Class: Select Section: Select Action:

S.NO	SRNNO	STUDENT NAME	SECTION	IMEI NO	MOBILE NO	IDENTITY PROOF	DEVICE STATUS
1	1806422229	DILSANA	Other	<input type="text" value="Select"/>	<input type="text" value="save"/>	<input type="button" value="Add IdentityProof"/>	<input type="button" value="Not Allocated"/>
2	1513665158	RIKESHAR	Other	<input type="text" value="Select"/> <input type="text" value="354991347272991"/>	<input type="text" value="save"/>	<input type="button" value="Add IdentityProof"/>	<input type="button" value="Not Allocated"/>

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

Student Device Grievances

Class: Section: Student:

Alloted Device: Alloted Operator: Alloted Number:

Category: Sub Category: Attachemnt: No file chosen

- Device
- ✓ PAL App
- Network Jio
- Network Airtel

Contact Person:

Contact Number:

Reporting grievance

Device Grievance List

Select Class: Select Status: From Date: To Date:

S.NO	STUDENT NAME	CLASS	DEVICE NAME	CATEGORY TYPE	STATUS	(FILE)ATTACHMENT	CREATED DATE	STATUS	ACTION
1	MANSI	12	354991347025985 - SAMSUNG A1	Network Jio	Pending	No Attachment	10-May-2022	Pending	
2	RIMZIM	10	354991347046858 - SAMSUNG A1	Network jio	Pending	No Attachment	10-May-2022	Pending	
3	SANIA	12	354991347458962 - SAMSUNG A1	Network Jio	Pending	View	10-May-2022	Pending	

Tracking grievance status

Category wise grievance reporting for hardware, software & data SIM

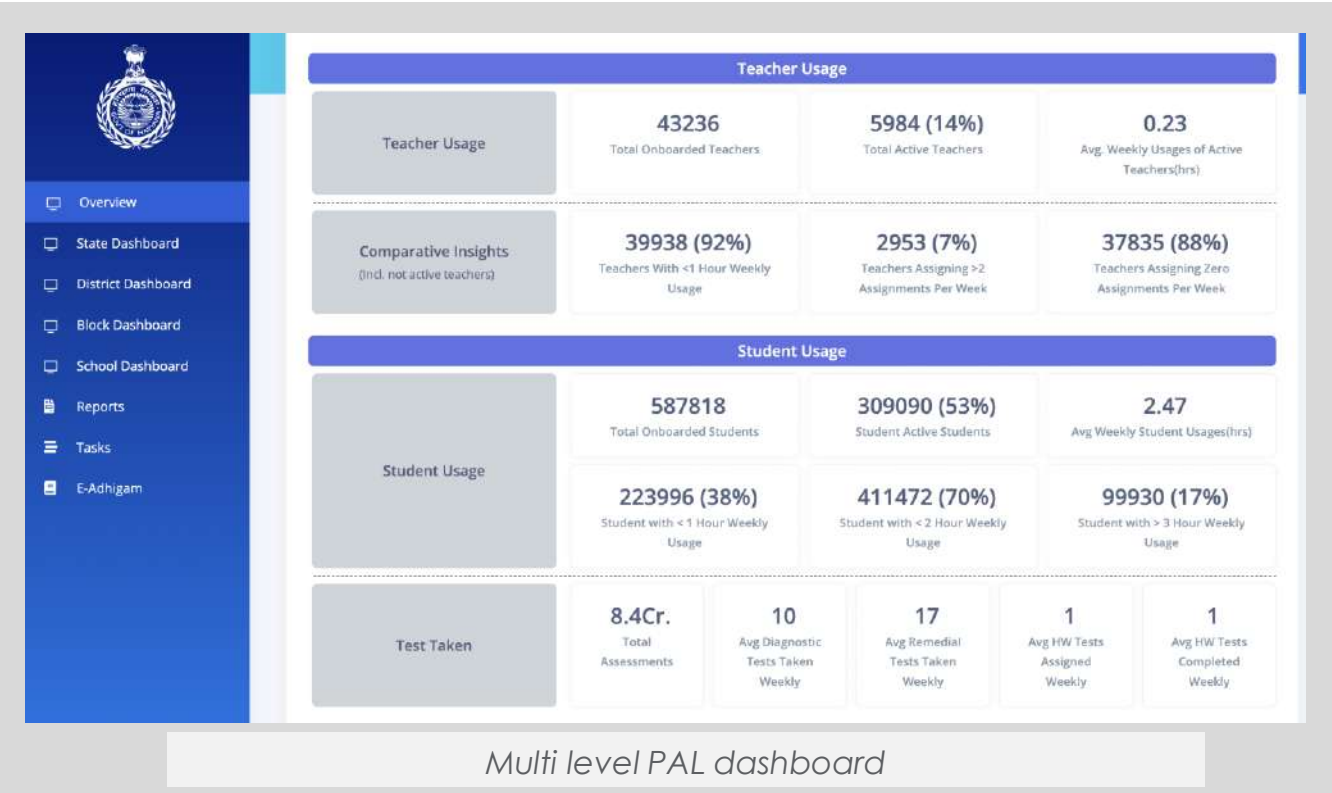
Real time tracking of grievance status

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!