

A high-angle photograph of two young children, a girl and a boy, sitting on a colorful, patterned mat. They are both wearing light-colored shirts and dark skirts or shorts. The girl is on the left, and the boy is on the right. They are both looking down at tablets they are holding in their hands. The background is a blue and white geometric pattern. The overall image has a blue tint.

# Reimagining Education Through Technology

January 2021



CENTRAL SQUARE  
FOUNDATION

#EDthroughTECH

## About Central Square Foundation



**CENTRAL SQUARE  
FOUNDATION**

**Central Square Foundation (CSF)** is a non-profit organisation working towards ensuring quality school education for all children in India. Since 2012, CSF has partnered with the government, the private sector, non-profit organisations, and other ecosystem stakeholders to improve the learning outcomes of children, especially from low-income communities. CSF is driven by its mission to enable the school education system to adopt solutions that are scalable, sustainable and effective so that all children get equal access to opportunities needed for leading a better life.

To learn more, please visit: [centralsquarefoundation.org](https://centralsquarefoundation.org).

**Disclaimer:** Central Square Foundation (CSF) has prepared this document on the basis of information which is publicly available, and sources believed to be reliable. The accuracy of such information has been relied on by CSF to conduct this independent analysis, and has not been verified by CSF. As full disclosure, CSF has awarded grants to Saarthi Education, Top Parent, Rocket Learning, Teacher App and Chimple. We have made every effort to ensure that the information provided in this document is complete as of December 1, 2020.

# Contents

<b>A</b>	<b>About Central Square Foundation</b>	<b>2</b>	<b>F</b>	<b>Insights</b>	<b>15</b>
<b>B</b>	<b>Note from the Founder-Chairman</b>	<b>4</b>	<b>G</b>	<b>Reimagining Teaching–Learning Interactions</b>	<b>22</b>
<b>C</b>	<b>Introduction</b>	<b>5</b>		<ol style="list-style-type: none"><li>1. Lesson Preparation (LP)</li><li>2. Lesson Delivery (LD)</li><li>3. Homework (HW)</li><li>4. Assessments (AS)</li><li>5. Teacher Professional Development (TPD)</li><li>6. Self Learning (SL)</li><li>7. Doubt Resolution (DR)</li><li>8. Parent-Teacher Communication (PTC)</li><li>9. Parental Participation (PP)</li></ol>	
<b>D</b>	<b>Overview</b>	<b>8</b>	<b>H</b>	<b>Power your own analysis</b>	<b>60</b>
<b>E</b>	<b>Approach</b>	<b>10</b>			

## Note from the Founder-Chairman

Over the last three decades, EdTech has shifted from being hardware-oriented to focusing on innovative software that meets students at their own learning levels – no matter where they are or what language they speak. Technology supports and empowers teachers; engages and provides agency to students; and meaningfully involves parents and families in the teaching-learning process. Technology can also collect data to provide valuable insight into how students learn. Growing global evidence has shown that EdTech has the power to leapfrog learning – here in India, and across the world.

Catalytic growth, disruption, and innovation are afoot in the sector, riding now on the wave of increased awareness and demand due to the COVID-19 pandemic. India has been making headlines with EdTech in the recent past, and is only behind North America and China as world leaders in EdTech. We, at CSF, created this analysis to fill the need for a one-stop-source for discovering and understanding the diversity of EdTech innovations that are available today across the world.

This document aims to be a ready reckoner for individual and institutional EdTech adopters. It can help to build a deeper understanding of the current EdTech landscape and predict the future evolutions that will shape the sector.



**Ashish Dhawan**  
Founder-Chairman,  
Central Square Foundation

# Introduction: Reimagining education through EdTech

The global market for EdTech unequivocally continues to burgeon and so does its demand – both by institutions and individuals. With innovations rampant in the sector, EdTech presents boundless possibilities to enhance the learning experience.

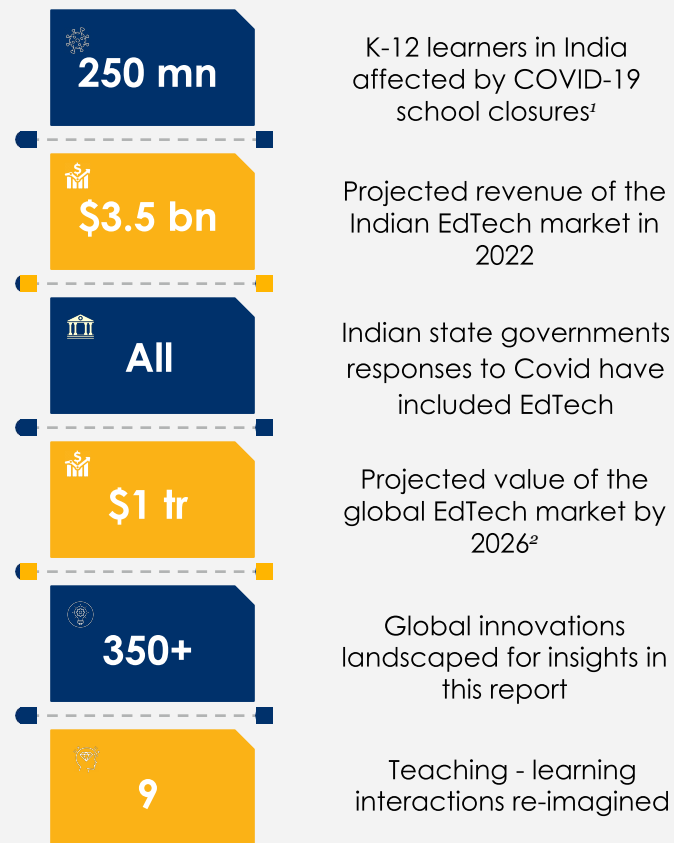
## Who should read this document?

- *Policymakers/practitioners contemplating on appropriate EdTech solutions for their context*
- *Product companies or funders interested in predicting trends, and identifying white spaces and new hypotheses in EdTech*
- *EdTech enthusiasts interested in learning about the global landscape*

## Why should you read this document?

- *To get a bird's eye view of the EdTech sector and understand innovative and disruptive hypotheses*
- *To uncover and visualize how EdTech can transform a traditional classroom and amplify the learning process for teachers, students and even parents*

The database powering this analysis can be accessed here for independent analysis and additional information on individual products in the landscape



# Overview



# Introduction: Innovations in EdTech

## Context

Technology has been reshaping traditional educational interactions around the world. Innovation in EdTech is ubiquitous and is changing how teaching and learning happens

### Innovation is granular

Technology is transforming not only broad teaching-learning interactions, but also the granular actions within them (for e.g. how and when feedback is received by a learner)



### Innovation is scalable

EdTech innovations have been able to achieve reasonable scale fairly rapidly, reaching teachers, students, and parents worldwide

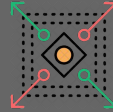


### Innovation is essential

Continuously catalyzing innovation to strengthen and build on value offerings (such as building teacher capacity) is essential for meaningful EdTech adoption

### Innovation is pervasive

EdTech innovations have proliferated in a range of contexts, from developed to developing countries, leveraging technologies along the spectrum from radio to AI



### Innovation is brewing

White spaces exist across the teaching-learning spectrum for EdTech, however, the pandemic and mounting global evidence has spurred considerable growth in the sector



## This Document

This document aims to provide a deeper understanding of how innovations in EdTech have redesigned multiple teaching and learning interactions across varying contexts around the world led by the following stakeholders – teachers, students, and parents.



# INNOVATIONS IN EDTECH

## Transformation of teaching-learning interactions via technology



Teacher-led interactions

### Lesson Preparation

 41



**From static to interactive, personalized plans**  
Technology allows for creation and dissemination of high-quality plans for more effective instruction with reduced teacher effort. This can lead to a systemic increase in lesson quality.

### Lesson Delivery

 65



**From sage on the stage to guide by the side**  
Technology can transform the role of a teacher from an instructor to a guide that supports students through a personalized learning journey in the classroom — redefining what a classroom looks like.

### Teacher Professional Development

 23



**From mandated to incentivized**  
Tech can allow for large scale delivery of quality TPD that provides flexibility and agency to teachers for their own learning.

### Homework

 10



**From task-based to insight-led**  
A nascent but disruptive category which envisions automatic creation, dissemination, and correction of homework, allowing teachers to plan for more targeted interventions to support learning.

### Assessments

 20



**From exam fever to engaging, automated assessments**  
Technology enables and automates the creation of increasingly engaging assessments. Easy collection of reliable performance data can feed into and redefine lesson preparation and delivery.



# of products profiled for this interaction



# INNOVATIONS IN EDTECH

## Transformation of teaching-learning interactions via technology

### Student-led interactions



#### Self-Learning



**From learning at grade-level to learning at one's pace**

Technology increases the student's agency in directing their learning, via a basket of innovative solutions offering engaging and personalised learning experiences

#### Doubt Resolution



**From being teacher dependent to resolving doubts on demand**

Technology enables greater student independence by provision of on-demand services through virtual communities and AI backed solution repositories to resolve doubts

#### Parent-Teacher Communication



**From receiving information at PTMs to building cohesive parent-teacher communities**

Technology enables increased depth and quality of communication between teachers and parents

#### Parental Participation



**From being a supervisor to becoming a partner in child's education**

Technology enables parents to increase their own capacity to meaningfully engage in their child's learning journey

### Parent-led interactions



# Approach



# Approach



*This document aims to demystify the innovations in the EdTech landscape and present it in an intuitive and user-friendly format. The approach adopted to create this document has been detailed in this section.*

1



## Landscape

Innovations identified from across the globe –  
**over 350 innovative K-12 EdTech solutions**

2



## Categorize

Mapped the solutions to **nine prioritised teaching and learning interactions**

3



## Synthesize

Analysed the solutions in each interaction to extract the **value that technology has unlocked**

## 1

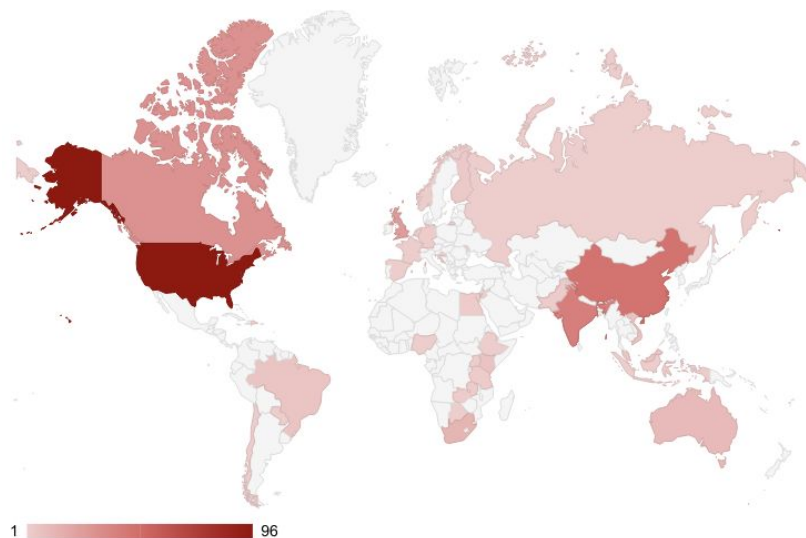
# Landscaping EdTech innovations

The objective of this exercise was to identify innovative EdTech solutions across the globe. To meet this objective different sources that recognise the most promising innovations were explored. Below is an indicative list of categories that were examined to create this document:




- **Awards and competitions** such as CodiE, EdTech Digest, EdTech X, Global EdTech Awards, Global Learning X-Prize, MIT Solve, and the mEducationAlliance.
- **Databases** such as Leapfrogging Inequality (The Brookings Institution) & the Global Learning Landscape (HolonIQ).
- **Reports/Blogs** by prominent actors working on EdTech like the World Bank, UNESCO, Navitas Ventures, and EdSurge.
- **Market research aggregators** such as Pitchbook, Crunchbase, and Tracxn to source top 10 lists of EdTech solutions in different countries and regions across the world including the US, Canada, China, Finland, Kenya, Tanzania, South Korea, South East Asia, Latin America, MENA, etc.

*\*Whilst this landscape is not exhaustive, it has aimed to cover enough ground to allow for accurate and thorough analysis of the diversity of innovations that exist in EdTech markets across the globe*

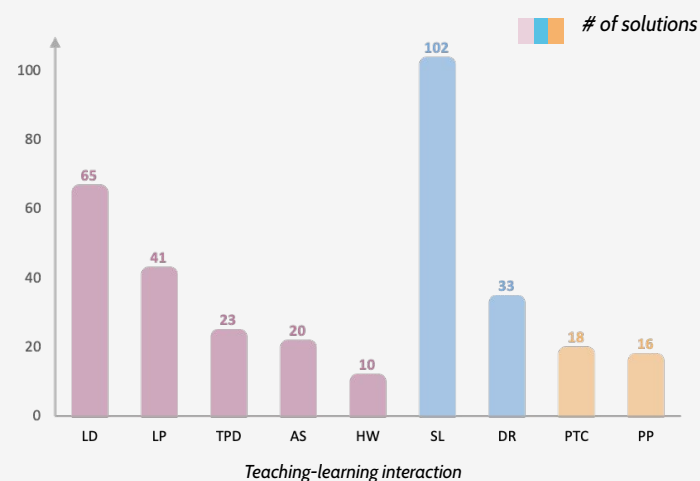
## CONCENTRATION OF EDTECH SOLUTIONS ACROSS COUNTRIES IN THE LANDSCAPE



# 2 Categorizing innovations into the nine teaching learning interactions

 Teacher-led	LP	Lesson Preparation	LD	Lesson Delivery	TPD	Teacher Professional Development
	Teacher prepares a plan to deliver the lesson		Teacher executes a lesson plan		Teachers engage in learning activities to strengthen & develop their own teaching practices	
	HW	Homework		AS	Assessments	
Teacher creates and assigns practice exercises for students and tracks completion		Teachers conduct assessments to gauge progress on learning to inform lesson planning and delivery				
 Student-led	SL	Self learning		DR	Doubt resolution	
	Student accesses content to learn independently			Student resolves queries outside class		
 Parent-led	PTC	Parent-teacher communication		PP	Parent participation	
	Parents engage with teachers/school on their child's school experience			Parents and families can support a child's learning at home		

## # OF EDTECH SOLUTIONS PER INTERACTION



## Synthesizing the diversity of innovations

As the landscape covered most continents, the idea was to bring out the diversity of EdTech innovations created to solve for similar issues in different contexts. Some of the key questions being sought through the analysis were:

- What technology based solutions have been are prominent in both **developing and developed** contexts?
- Do solutions exist that have been designed to cater to regions with **infrastructural constraints**, both in terms of hardware and connectivity?
- What is the **relative concentration of products**/innovations across different teaching-learning interactions?
- How does moving to **technology-enabled learning environments** make the learning interaction more **meaningful**?
- What kind of **evidence** exists for solutions/innovations?
- How do existing **Indian government EdTech solutions** map to the global diversity?

### ANALYSIS PROCESS



1  
**Detailing the teaching - learning interaction** into granular processes to understand the actions that technology can enhance



2  
**Mapping the diversity of solutions** (including Indian government products) across the spectrums of technology, engagement, personalisation, effort



3  
**Delineating the key features** of each category of products within each interaction to understand how technology has enhanced the interaction

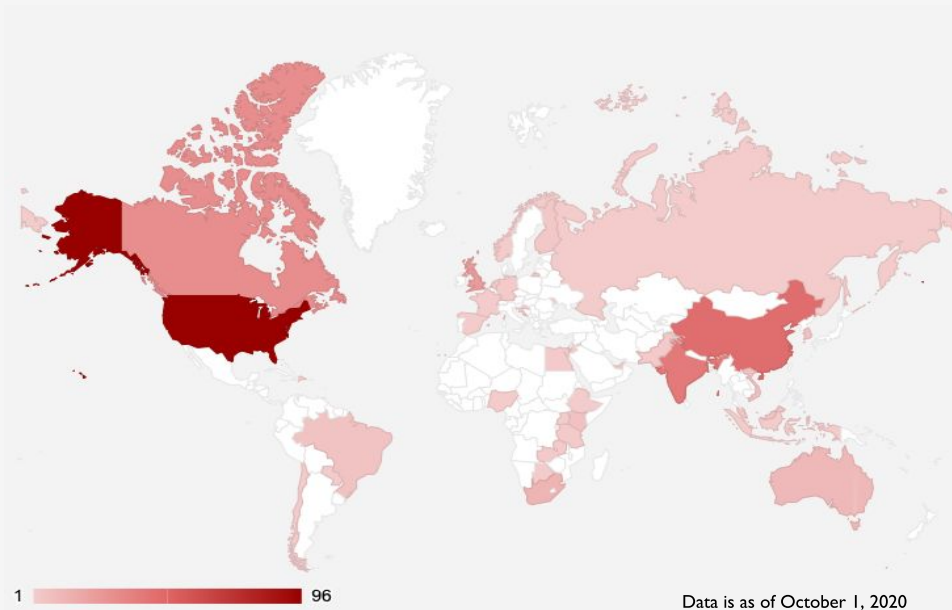


4  
**Deep dive into an exciting product** within each interaction to showcase its technology, scale and evidence

# Insights



# What are the hotbeds for EdTech innovation around the globe?



## Top 5 countries by total funding\*



China (\$8.7B)



India (\$3.1B)



United States (\$2.7B)



Canada (\$447M)



Norway (\$363M)

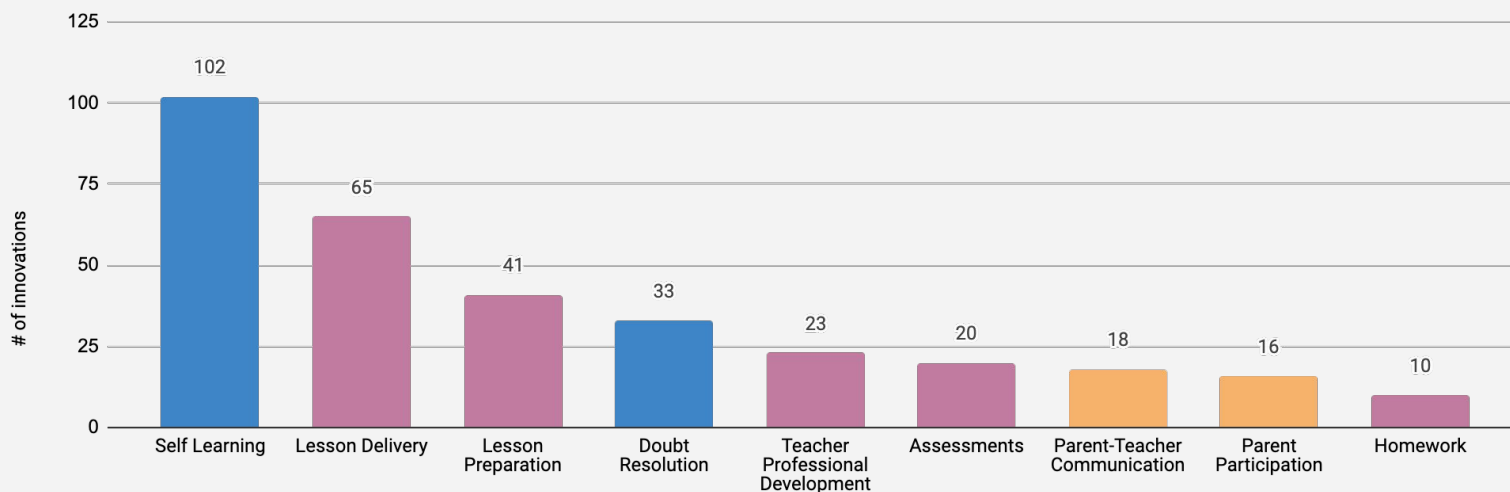
### Insight

Innovation in EdTech is happening, both across the globe and across a range of contexts.

**Led by North America, China & India** – North America has the most number of innovations while China leads the way in funding. India closely follows, both in terms of number of innovations and funding.



# What teaching-learning interactions have seen the most traction and where can we do more?



Teacher-led



Student-led



Parent-led

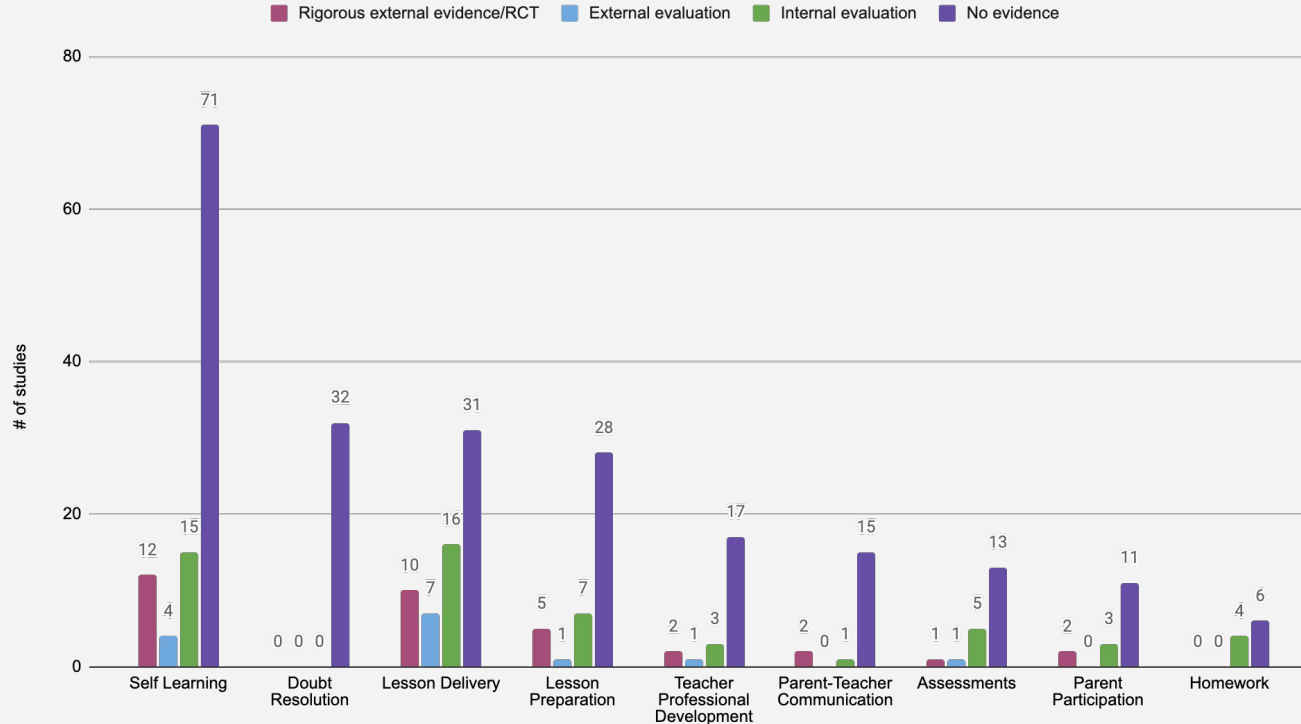
## Insight

**Leaders:** Traditional interactions such as Lesson Preparation & Delivery, and Self Learning constitute 67% of the landscape

**Emerging:** Homework and Doubt Resolution backed by Chinese funding

**Laggards:** Teacher Professional Development & Parental Participation have some evidence but need innovation and investment

# What is the nature of evidence on EdTech innovations?



## Insight

### # of innovations with evidence:

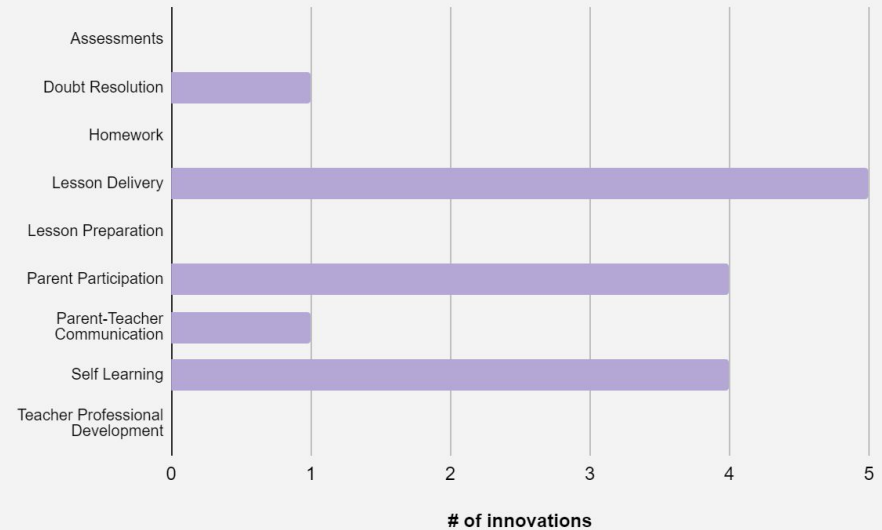
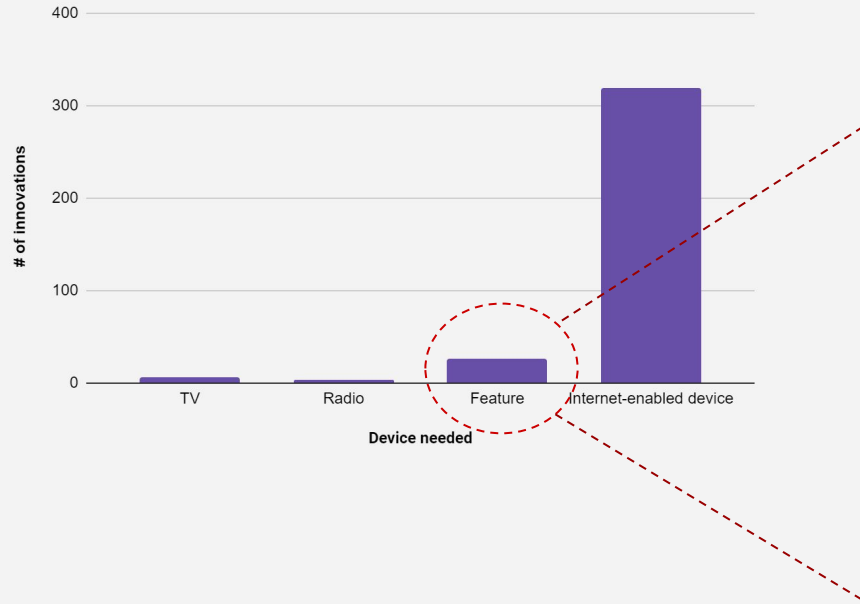
Most solutions in our landscape did not have a rigorous experimental study backing them.

**Type of evidence:** While product company led internal evaluations held the largest chunk, around ~10% of innovations have been evaluated through an RCT or other experimental methods

### Evidence across interactions:

While there are a handful of studies on traditional interactions like self-learning and lesson delivery, it is the parent focused interactions that have started seeing some research momentum around them in the recent past.

# Low-tech innovation and tiding over the digital divide



## Insight

Close to 8% of innovations are accessible over feature phones, a device that is nearly ubiquitous around the world, enabling last mile reach.

# How to read this document

Four sections are designed for each of the nine teaching-learning interactions

01



## Definition of the interaction

- Actions undertaken by stakeholders in the chosen interaction

02



## How tech enhances the interaction

- Diversity of EdTech use cases
- Mapping of Indian EdTech govt products
- Demo's for select cutting-edge products

03



## How to operationalise the interaction

- Deep dive on product features
- Device and content required to operationalise the interactions
- Global examples of innovations















04



## Case Study

- Single product deep dive as an example of that interaction
- Demo to visualise what the product does in practice

## How to read this document: Icon guide

Icon	Key	Icon	Key
	Radio		Student response clickers
	Television		Video/multimedia
	Satellite television		Artificial Intelligence
	Feature phone		Mapping of Indian government EdTech solutions against the landscape
	Internet-enabled smartphone		Click for product demo
	Internet-enabled laptop/tablet		Number of products featuring in the landscape analysis
	Virtual reality (goggles)		OCR/Image recognition

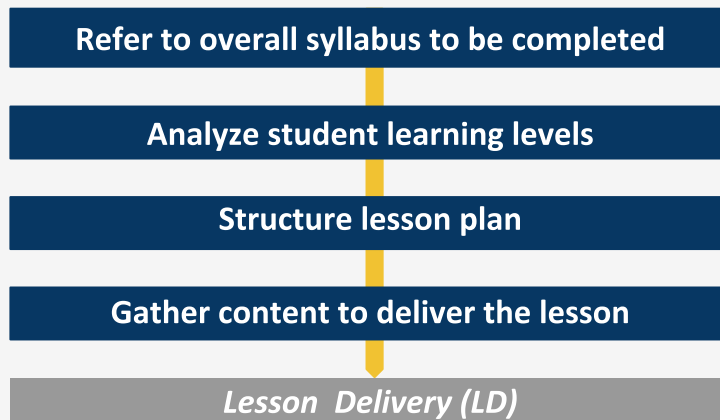
# Teaching & Learning: Reimagined through technology





## Lesson Preparation (LP)













Teacher has access to tools and content to prepare lessons, catered to the different learning levels of students in class





# Lesson Preparation (LP)

Technology reduces teacher effort to create engaging and personalized lesson plans



A Text-based lesson plans (structured)	Multimedia enhanced lesson plans				C Personalized lesson plans (structured)
	B B1 Unstructured	B2 Structured	B3 Structured and editable	B4 Structured and editable LPs, strengthened through peer community	
<ul style="list-style-type: none"> <li>- Teacher accesses <b>high quality, ready to use lesson plans that are syllabus aligned</b></li> <li>- But these are only text-based, leaving room to incorporate various content formats</li> </ul>	<ul style="list-style-type: none"> <li>- Teacher accesses a <b>“laundry-list” of multimedia content</b> (image, audio, videos etc.)</li> <li>- But teacher needs to put in effort to comb through and select what suits her lesson plan</li> </ul>	<ul style="list-style-type: none"> <li>- Teacher accesses <b>ready to use lesson plans that are syllabus aligned</b></li> <li>- But, these cannot be edited by the teacher</li> </ul>	<ul style="list-style-type: none"> <li>- Teacher accesses <b>editable</b> ready to use lesson plans that are syllabus aligned</li> <li>- But, these are still not differentiated plans for the class</li> </ul>	<ul style="list-style-type: none"> <li>- Teacher accesses <b>virtual communities</b> to collaborate and solicit feedback on lesson plans - <b>“virtual staffroom”</b></li> <li>- But, lesson plans are not automatically differentiated</li> </ul>	<ul style="list-style-type: none"> <li>- Teacher accesses <b>differentiated lesson plans</b> that are <b>automatically created</b></li> <li>- They are built using students’ progress data and learning levels</li> </ul>
 	 				
 <b>App / Web based</b> 					 <b>Web + AI</b> 





# Lesson Preparation (LP)

Technology reduces teacher effort to create engaging and personalized lesson plans

Sub use- case	Features	Device	Examples of products
<b>A</b> Text based lesson plans (structured)	<ul style="list-style-type: none"> <li>* <b>Modular text files/lesson plan and teacher tips</b> to enhance lesson delivery</li> <li>* <b>Easily shareable</b> across various platforms, including <b>Whatsapp</b></li> </ul>		<ul style="list-style-type: none"> <li>* Learn Zillion, Bridge Academy Teacher guides, Khan Academy India</li> </ul>
<b>B</b> Multimedia lesson plans	<b>B1</b> Unstructured		<ul style="list-style-type: none"> <li>* Follett My destiny</li> </ul>
	<b>B2</b> Structured		<ul style="list-style-type: none"> <li>* <b>Muse by Sabq</b></li> <li>* Shmoop</li> <li>* <b>Onion Math</b>, Elimu</li> </ul>
	<b>B3</b> Structured, editable	  	<ul style="list-style-type: none"> <li>* Pobble, <b>Storyweaver</b>, Chalk</li> <li>* <b>Nearpod</b>, <b>Edoome</b></li> <li>* <b>Seesaw</b>, Chalk</li> </ul>
	<b>B4</b> Structured editable with peer feedback		<ul style="list-style-type: none"> <li>* Teacherly</li> </ul>
<b>C</b> Personalised lesson plans (structured)	<ul style="list-style-type: none"> <li>* <b>Simple dashboards</b> with student performance data and assistance with cohorting</li> <li>* <b>Differentiated lesson plans</b> &amp; resources for different student learning levels</li> <li>* Create customized activities for self pace individual work or groups</li> </ul>		<ul style="list-style-type: none"> <li>* <b>Nearpod</b></li> <li>* ILL</li> <li>* Tailor Ed, Edmircro</li> </ul>

# Case study: Nearpod

*Lesson Preparation: The only dashboard you need for interactive instruction*

## What

Nearpod is a **platform for interactive instruction delivery** for K-12 and beyond - supporting teachers to prepare and deliver great lessons

## Evidence

A recent evaluation of showed that **16% & 35% of improvement in English & Math scores** respectively can be **attributed to usage of Nearpod**.

## Scale

The company has **raised a total of \$41.6M** as of 2019, has 1.3M teachers and over 5M registered student users around the world.

## Demo



### Use Nearpod for:

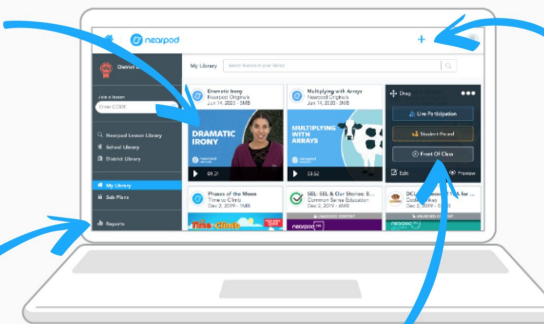
- Your whole lesson
- A video **NEW!**
- Quick formative assessment
- Gamified activities

### Review student work:

Post-session reports

### Teach three ways:

- Live Participation
- Student-Paced
- Front of Class **NEW!**



### Convert your:

- PowerPoint
- Google Slides
- PDF
- YouTube video **NEW!**
- Video file **NEW!**

OR

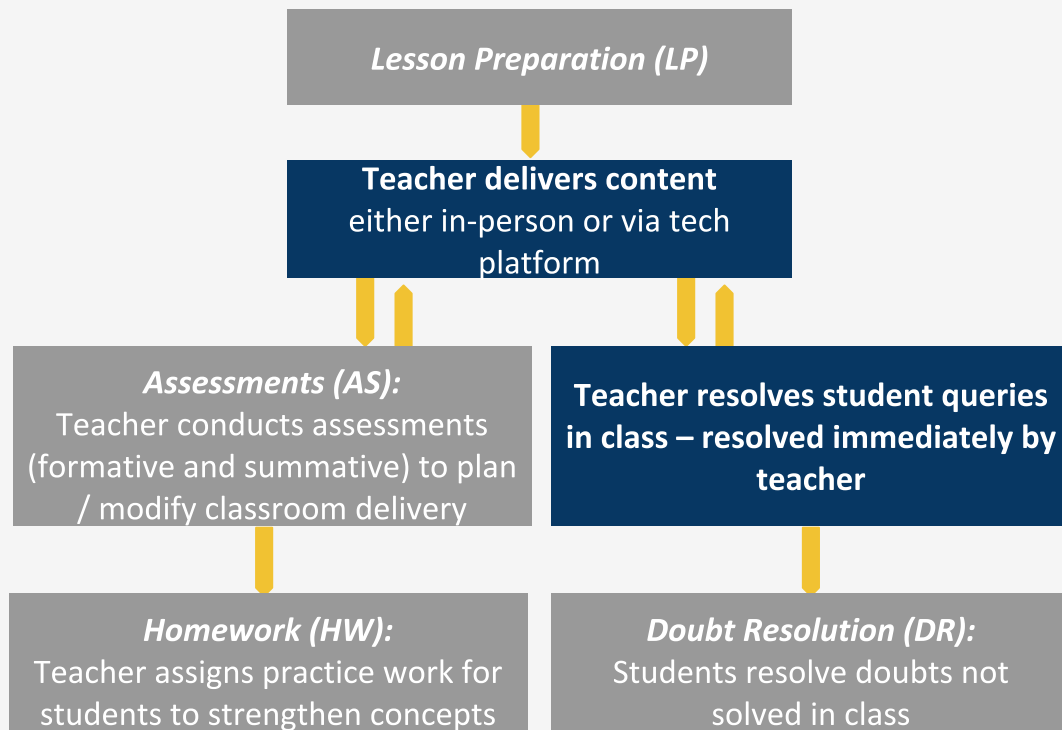
### Save time:

8,500+ premade, interactive lessons & videos **NEW!**



## Lesson Delivery (LD)

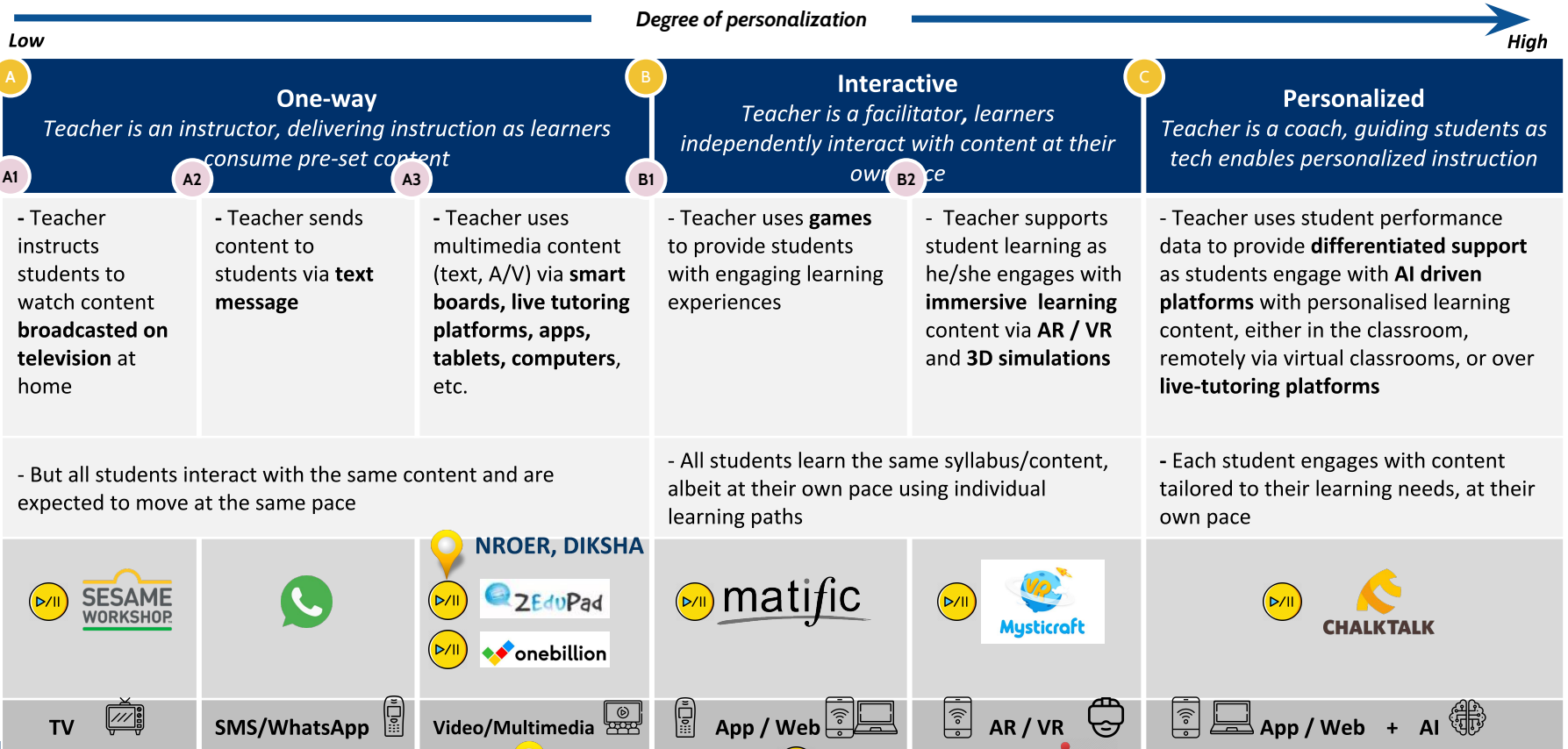
Teacher executes the lesson plan through different modalities





# Lesson Delivery (LD)

Technology enables the teacher provide increasingly personalized instruction to students





# Lesson Delivery (LD)

Technology allows for a teacher to transform into a coach who provides personalized instruction

Sub use- case	Features	Device	Examples of products
<b>A</b> <b>Pre-set content</b> <i>Teacher is an instructor, delivering instruction as learners consume pre-set content</i>	<b>A1</b> * <b>Multimedia content broadcasted at scale</b> on TV across grades and subjects		* <b>Sesame Street</b> , BigBadBoo, EduTree
	<b>A2</b> * Short, crisp content sent to student via <b>SMS</b>		* <b>WhatsApp/SMS</b>
	<b>A3</b> * <b>Multimedia content</b> shown to students as a part of lesson instruction i.e. through smart classes that use text, audio/visual content, or over live tutoring platforms and virtual classrooms		* <b>Zoom</b> , <b>Google Classroom</b> , Blackboard, FrogAsia, <b>ZeduPad</b> , Moodle, <b>OpenEdX</b> , Syafunda, Vedantu, EkStep. <b>OneBillion</b>
<b>B</b> <b>Interactive content</b> <i>Teacher is a facilitator, learners independently interact with content at their own pace</i>	<b>B1</b> * <b>Games</b> help deliver instructional content and allow teachers to track progress		* <b>Matific</b> , ClassCraft, TeacherGaming
	<b>B2</b> * Students learn concepts through <b>3D experiences and AR/VR simulations</b>		* Praxilabs, TopHat, NetDragon, Curioscope
	<b>B3</b> * <b>Personalized adaptive platforms</b> tailor instruction to learning levels as teachers support in the classroom, remotely over virtual classrooms, and through live tutoring platforms * <b>Data dashboards</b> allow teachers to see student performance data in real time * Assessments used to <b>diagnose lexile level</b> of individual students * In class, <b>reading content</b> on the same topic, provided to students basis their lexile level		* SmartSparrow, Knowre Math, Geekie, EdGenuity, ChalkTalk, <b>Century Tech</b> , Accelerated Reader, Achieve3000
<b>C</b> <b>Personalized content</b> <i>Teacher is a coach, guiding students as tech enables personalized instruction</i>			

# Case Study: ChalkTalk

**Lesson Delivery:** AI-enabled personalized & adaptive lesson delivery that combines tech with innovative pedagogy

## What

ChalkTalk is a **personalized & adaptive lesson delivery tool** for grade 9-12 math & language

## Tech

Leverages **AI-predicted learning paths** to adapt at the individual, small-group, & classroom levels

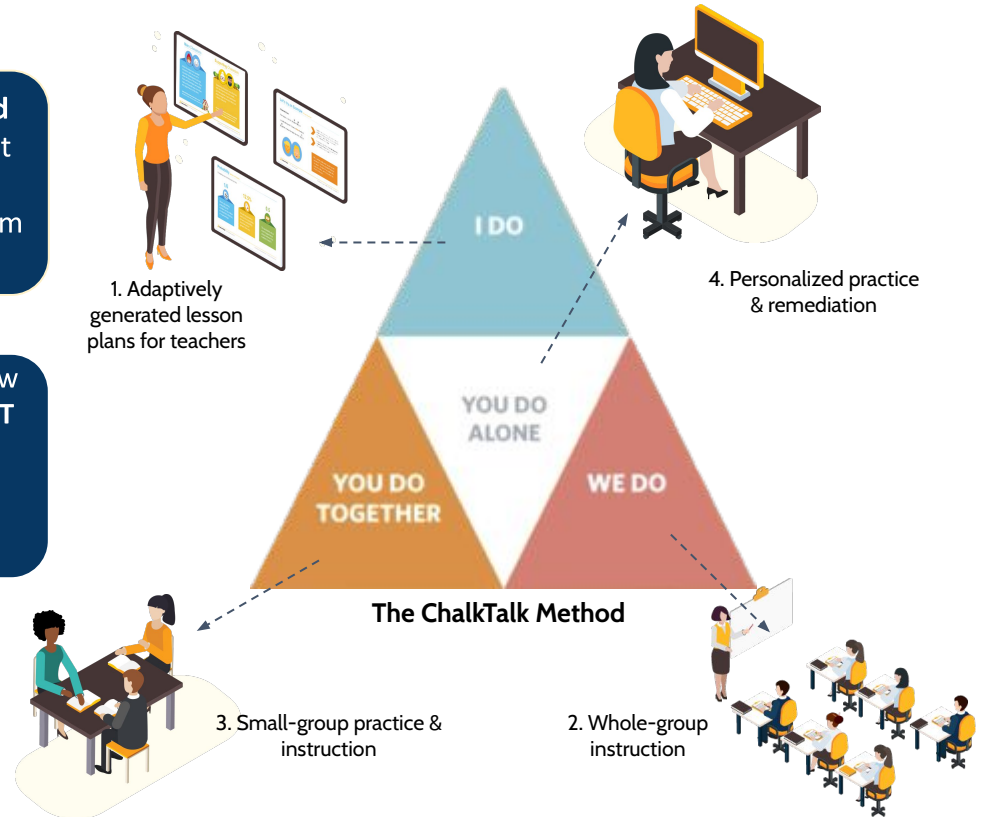
## Funding

The platform has **raised \$4.1M** as of 2020, & is an alumnus of the Learn Launch & AWS EdStart accelerators

## Evidence

Internal evaluations show a **7 point increase in ACT scores**, 6.4 times the national improvement average & in 15% less time

## Demo



# Case Study: onebillion

*Lesson Delivery: Multimedia-enhanced personalized & adaptive lesson delivery*

## What

Onebillion is a **personalized, adaptive learning** solution for early grades, designed to take a learner **from zero to numerate & reading with comprehension**.

## Scale

Onebillion has reached over 167K children since 2014 in multiple countries including Kenya, Malawi, India, Tanzania, the UK, & Uganda.

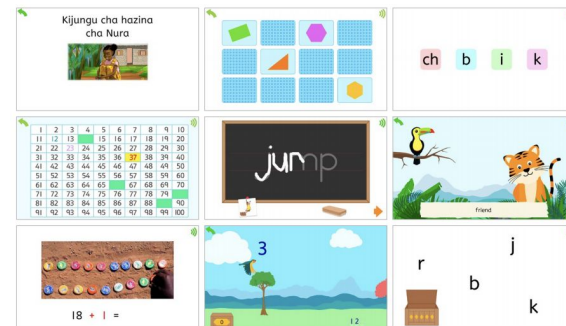
## Tech

Uses an adaptive learning engine to **adapt the learning journey to each child**, backed by data from thousands of learning units.

## Evidence

As one of the winners of the Global Learning X-Prize, onebillion showed an average **gain of ~19.2% & ~23%** across multiple domains of **literacy and numeracy** respectively.

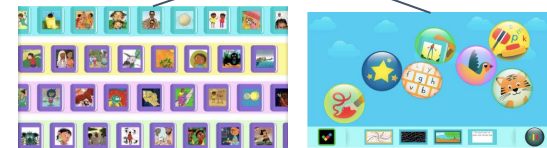
Hundreds of different types of activities **designed to teach, practice, and explore literacy and numeracy**



Features a **library of illustrated books** from around the world, and a **play zone for practice, exploration, creativity, and learning**.



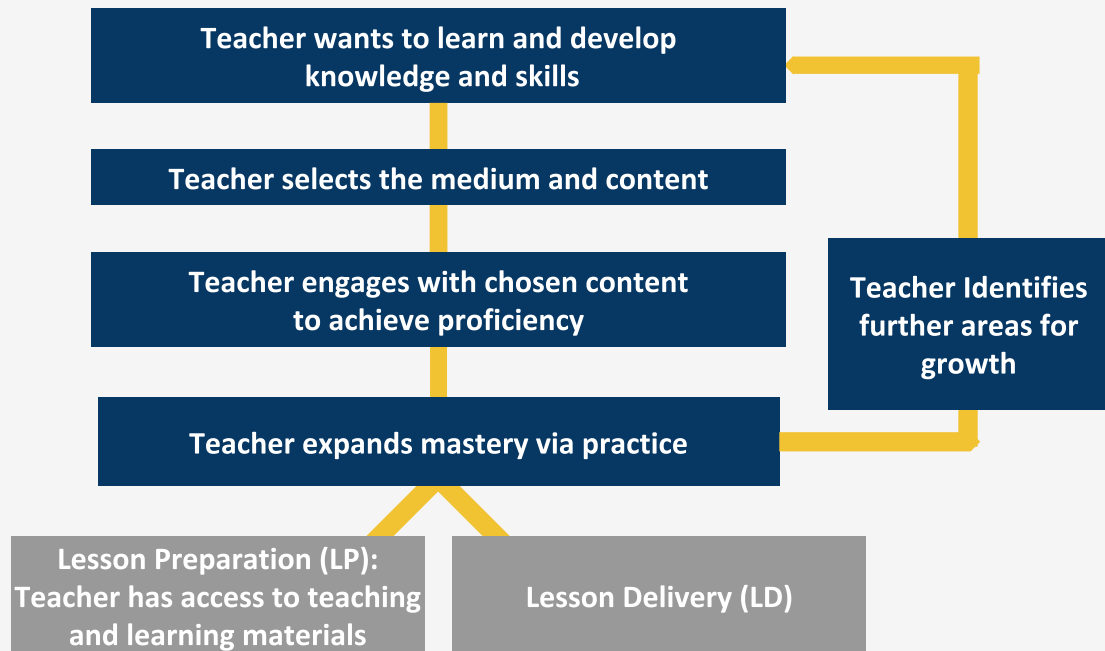
A digital teacher, Alefa, guides children through their learning, giving feedback and encouragement.





## Teacher Professional Development (TPD)
















In-service teachers leverage digital platforms to strengthen and develop their skills and knowledge for more effective instruction.







# Teacher Professional Development (TPD)

Technology enables scalability and flexibility of TPD, providing agency to teachers for their growth

A	A1 Content and conceptual mastery	A2 Effective instructional practices	A3 Digital literacy
B	<p>Teachers access content that allows them to improve and achieve mastery over <b>core academic concepts</b>.</p> <p> <b>DIKSHA</b>  </p>	<p>Teachers access content that enables them to improve their <b>skills and classroom practices</b> for <b>effective delivery of instruction</b>.</p> <p> <b>NISHTHA, DIKSHA</b>  </p>	<p>Teachers access content to <b>build their capacity for using digital tools in the classroom</b>. Content can focus on developing skills around usage of EdTech tools or leveraging data to drive technology-supported instruction.</p> <p> </p>
B1	<h3>Social communities</h3>		
B2	<p>Teachers <b>learn from local and global teacher communities</b> by sharing best practices, resolving doubts, and collaborating with peers via virtual community platforms.</p>		<p> </p>
B3	<h3>At-scale training</h3>		
Delivered via	<p>Teachers' professional development is <b>systematically facilitated by institutional channels</b> such as states, districts, implementers, and administrators via customized training modules delivered at scale using tech platforms.</p>		<p> <b>NISHTHA, DIKSHA</b>  </p>
	<h3>Certification and micro-credentialing</h3>		
	<p>Teachers <b>signal</b> their professional capabilities by earning certifications or microcredentials via tools that that assess and certify <b>their teaching competencies</b>.</p>		<p> </p>

 App/Web based 

 Indian govt. products



 Click for product demo

 # 23 products profiled for this interaction



# Teacher Professional Development (TPD)

Technology enables scalability and flexibility of TPD, providing agency to teachers for their growth

Sub use- case		Features	Device	Examples of products
A Focus for TPD	A1 Content & conceptual mastery	* <b>On-demand multimedia and textual resources</b> available through a menu of options categorized by subject, skill, topic, and software		* <b>TeacherApp</b> , <b>Firki</b> , <b>PBS LearningMedia</b> , <b>EdConnective</b> , <b>SpongyElephant</b>
	A2 Effective instructional practices	* <b>Classroom observation tools</b> that provide feedback to teachers around their classroom teaching practices through live observation remotely by peers, video recordings for self-reflection, and AI-enabled facial recognition to assess student engagement for real-time course correction		* <b>Teacher FX</b> , <b>Lessonvu</b>
	A3 Digital literacy	* <b>Feedback tools</b> that allow peers, students, and administrators to provide feedback to teachers on their content and instruction through digital surveys that are distilled into actionable insights		* <b>Educator Impact</b>
B Delivered via	B1 Social Communities	* <b>Traditional social media platforms</b> that allows teachers to connect with each other and share resources * <b>Dedicated platforms</b> for teacher social communities with forums, multimedia exchange, topic feeds, etc. that allow teachers to engage with each other/thought leaders * <b>Curated feeds</b> from multiple social channels and sources that <b>teachers can customize to their needs</b> by selecting specific topics, bloggers, or hashtags to aggregate content	 	* <b>Twitter</b> , <b>YouTube</b> , <b>LinkedIn</b> , <b>Google Plus</b> * <b>TeachersConnect</b> , <b>EdThena</b> * <b>Feedly</b> , <b>Scoop.it</b>
	B2 At-scale training	*Digital platforms with pre set or customisable teacher-facing UI/UX that <b>allow school administrators to upload their own training content and deploy to teachers at-scale</b> , equipped with analytics and dashboards to strengthen monitoring and evaluation efforts * <b>Structured online courses/MOOCs</b> that are self-paced, with active practice opportunities, peer feedback, and assessments		* <b>ChalkLit</b> , <b>EduPlanet21</b> * <b>PBS TeacherLine</b>
	B3 Certifications & micro-credentialing	* <b>Online platforms</b> that provide <b>bite-sized courses</b> , allowing teachers to <b>earn digital badges and certificates</b> against knowledge and skills developed that may be shared across platforms * <b>Micro-credentialing platforms</b> that <b>allow teachers to provide evidence from their teaching practice</b> to demonstrate mastery of skills against standards-based competencies		* <b>Bloomboard</b> , <b>CENTA</b> , <b>Teach.com.au</b>

# Case study: The Teacher App

*Teacher Professional Development: Just-in-time, bite-sized courses for teachers*

## What

Repository of bite-sized, interactive, high-quality courses for teachers on core concepts, customized to the Indian context

## Scale

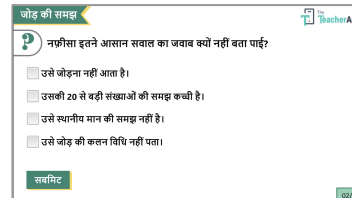
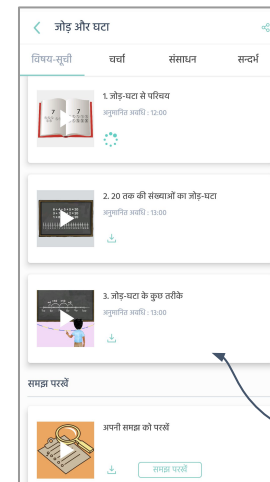
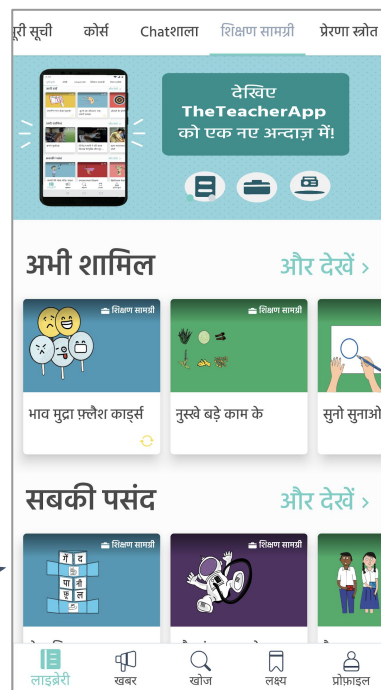
TeacherApp has reached over 3.5M teachers through partnerships with six states in India, and has raised \$1M in funding.

## Tech

Open-source multimedia content that is accessible offline, available through the app's UI/UX built specifically for teachers

## Evidence

TeacherApp has seen sustained user engagement since its launch in 2016, with over 10K daily active users and 25K monthly users



Each course consists of bite-sized videos that can be downloaded and accessed individually

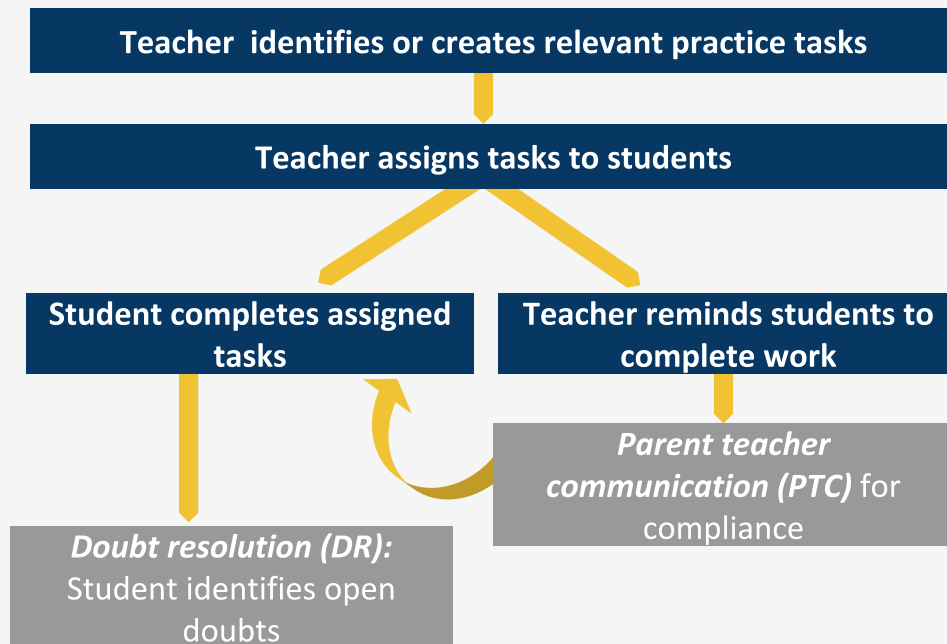
Specialized UI/UX allows users to set TPD goals, choose courses, access teaching and learning material, and connect with peers.

Teachers' knowledge is assessed at multiple points via interactive questions



## Homework (HW)

















Teachers assign homework to students in order to strengthen understanding of concepts already taught and delivered in the classroom.



# Homework (HW)



Technology reduces teachers' time and effort to create, assign & ensure compliance for homework

A Tech for homework dissemination	B Tech for homework compliance	C Tech for homework creation	D Holistic homework platforms
<p>- Teacher <b>shares homework</b> with students outside the classroom using <b>generic communication/specific homework platforms</b></p>	<p>- Teacher <b>reminds students</b> and parents to complete homework using technology that <b>automates communication</b> and reduces teacher effort</p>	<p>- Teacher <b>creates homework</b> assignments using <b>ready-made resources</b> or by curating questions through <b>repositories</b>, saving time spent on homework creation</p>	<p>- Teacher spends limited time and effort to <b>create, assign, increase compliance and correct homework</b> using end to end aggregated homework platforms that can <b>automate</b> these functions</p>
<p>- But teachers still spend time and effort in homework creation and its completion</p>	<p>- But teachers still spend time and effort in homework creation</p>	<p>- But teachers still spend time and effort in dissemination and ensuring homework completion</p>	<p>- Teachers have end-to-end support for homework including access to insightful data</p>
<p> <b>satchel:</b></p>	<p>  <b>showbie</b></p>	<p> <b>NCERT online textbooks and exercises</b></p> <p>  <b>PowerMyLearning</b></p>	<p>  <b>Zuoyebang</b></p>
<p> <b>Phone / Web based</b> </p>		<p> <b>App / Web based</b>    <b>App/Web based + AI + OCR</b>  </p>	



# Homework (HW)

Technology reduces teachers' time and effort to create, assign & ensure compliance for homework

Sub use-case	Features	Device	Examples of products
<b>A</b> Tech for homework dissemination	<ul style="list-style-type: none"> <li>* Offline and online communication channels to <b>disseminate homework</b></li> <li>* Platforms that allow <b>teachers to upload homework</b> for all students at once</li> </ul>		<ul style="list-style-type: none"> <li>* <b>Phone, SMS, WhatsApp, Email</b></li> <li>* SeeSaw,</li> <li>* Firefly Learning</li> <li>* Satchel</li> </ul>
<b>B</b> Tech for homework compliance	<ul style="list-style-type: none"> <li>* Platforms that ensure <b>compliance by pushing alerts and reminders</b> to students</li> <li>* Platforms that allow <b>students to upload homework and share</b> with teachers</li> <li>* Platforms that allow teachers and parents to <b>communicate</b> around students' homework</li> </ul>		<ul style="list-style-type: none"> <li>* SeeSaw, Firefly Learning, Satchel</li> <li>* Showbie</li> </ul>
<b>C</b> Tech for homework creation	<ul style="list-style-type: none"> <li>* Platforms that provide access to <b>ready-to-use worksheets</b></li> <li>* <b>Curriculum-aligned pre-determined activities</b> for students to do with their parents</li> </ul>		<ul style="list-style-type: none"> <li>* HelpTeaching</li> <li>* Power My Learning</li> </ul>
<b>D</b> Holistic homework platforms	<ul style="list-style-type: none"> <li>* Platforms <b>automatically create homework basis students' learning levels</b>, teacher is able to assign accordingly</li> </ul>		<ul style="list-style-type: none"> <li>* <b>Knowbox</b></li> <li>* <b>17Zuoye</b></li> <li>* <b>Yuanfudao</b></li> </ul>
	<ul style="list-style-type: none"> <li>* Platforms that <b>automatically correct homework</b> (either in-platform or by scanning worksheets)</li> </ul>		<ul style="list-style-type: none"> <li>* <b>Zuoyebang</b></li> <li>* <b>17Zuoye</b></li> </ul>
	<ul style="list-style-type: none"> <li>* Platforms that <b>suggest additional learning content</b> for improvement based on homework performance</li> </ul>		<ul style="list-style-type: none"> <li>* <b>Zuoyebang, 17Zuoye, Knowbox, Yuanfudao</b></li> </ul>

# Case Study: Homework Helper by Zuoyebang

*Homework: China's top aggregated homework platform*

## What

Zuoyebang's Homework Helper is an **aggregated homework platform** for K-12 math

## Tech

Relies on a question bank of **250 million items** combined with **AI-led personalization** and **OCR**

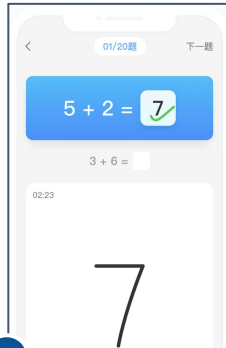
## Scale

The platform has **raised \$1.3B** as of 2020, and caters to **50M daily active users**, and **170M monthly active users**



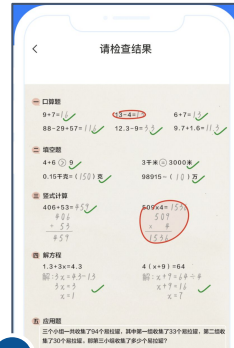
1

Teachers create homework using the **big-data question bank**



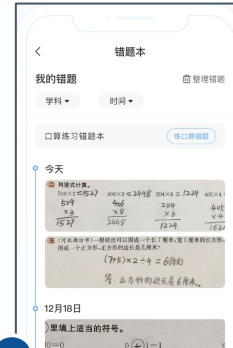
2

Teachers can **assign a wide variety of practice exercises** from their dashboard



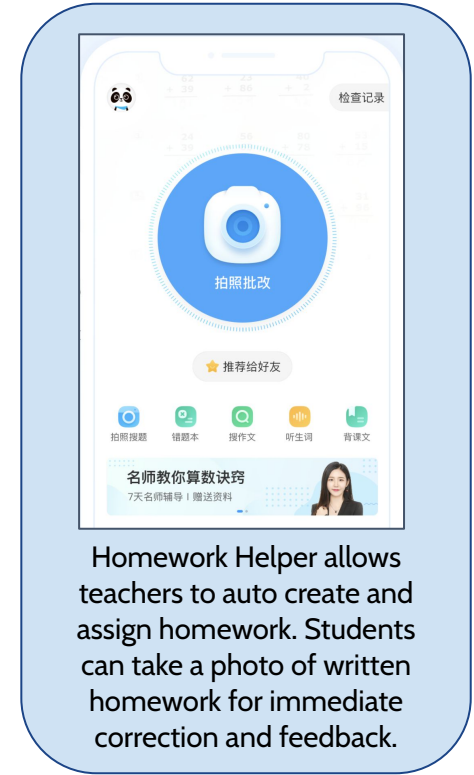
3

Students complete their homework on paper and take a photo for **automatic correction via OCR**



4

**Incorrect questions can be saved for practice later** in the form of worksheets



Homework Helper allows teachers to auto create and assign homework. Students can take a photo of written homework for immediate correction and feedback.



## Assessments (AS) (Formative & Summative)

Assessments conducted  
to regularly track students'  
understanding and performance

Identify and create the questions for assessment

Assign the assessments to students

Check the students' responses

Provide performance summary and  
feedback to student

*Lesson Preparation (LP) and Lesson Delivery (LD)*





# Assessments (AS)

Technology reduces effort to create engaging assessments

Student  
engagement

Low  
Limited data for student profile





High  
Complete data for student profile

A		B	
Text-based		Multimedia-based	
B1		B2	
Interactive		Gamified	
		B3	
		Personalized and adaptive	
<p>- Tech enables <b>assignment and correction of objective, text-based</b> assessments; including customized assessment paths</p>		<p>- Tech enables <b>easy creation of subjective and objective (with auto correction)</b> assessments in interactive formats, and provides real time student <b>performance data at a deeper level</b> including when students are guessing, key misconceptions etc</p>	
<p>- But this does not cater to subjective assessments</p>		<p>- But there is room to increase student engagement</p>	



# Assessments (AS)

Technology reduces effort to create engaging assessments

Sub use- case	Features	Device	Examples of products
<b>Multimedia-based</b> A <b>Text-based, objective</b> B B1 <b>Interactive</b> B2 <b>Gamified</b> B3 <b>Personalised and adaptive</b>	<ul style="list-style-type: none"> <li>* <b>MCQs</b> shared with students via <b>SMS/Web based communication apps</b> (Whatsapp) or IVR</li> </ul>		* SMS, WhatsApp, IVRS
	<ul style="list-style-type: none"> <li>* <b>Bubble/scranton sheet</b> used by students to answer MCQs</li> <li>* Scranton sheets photographed/scanned for instant correction by anyone</li> </ul>		* <b>Akindi</b>
	<ul style="list-style-type: none"> <li>* Assessment questions include texts, <b>images, audio/visual</b></li> <li>* MCQ quizzes are <b>corrected automatically</b> by the platform</li> </ul>		* <b>Zzish/Quizalize, 789.vn</b>
	<ul style="list-style-type: none"> <li>* <b>Responses</b> submitted to questions include a <b>variety of formats</b> such as images, videos, podcasts, infographics, excel files, online presentations and more</li> </ul>		* Kritik
	<ul style="list-style-type: none"> <li>* Individual student devices not needed, <b>questions broadcasted</b> to class using black or smart board</li> <li>* <b>Clickers</b> used for live responses by students in-class or remotely, real time data available for teachers</li> </ul>		* Qwizdom
	<ul style="list-style-type: none"> <li>* <b>Multiple formats</b> of question types (drag-and-drop, click to count etc)</li> <li>* Personalised and <b>aggregated data</b> on many actions undertaken by child</li> <li>* Speech recognition, text to speech technology to assess oral reading ability</li> </ul>		* <b>Quizlet</b> , Learnosity, Pear Deck * <b>Google Read Along</b>
	<ul style="list-style-type: none"> <li>* Badges, rewards, <b>leaderboards</b>, competitive team play and other motivational tools in assessments</li> </ul>		* <b>Kahoot</b> , Nearpod
	<ul style="list-style-type: none"> <li>* Adaptive assessments that <b>diagnose learning level</b>, augment content and difficulty level of questions basis individual responses</li> <li>* <b>Students misconceptions</b> are identified for remediation support</li> </ul>		* Knewton, Sense.ai, Synap

# Case Study: Star 360

*Assessments: Personalized and adaptive assessments for accurate measurement of learning*

## What

Star 360 is a **personalized, adaptive assessment platform** for K-12 math and language

## Tech

Leverages **adaptive technology** on **2.8 bn student data points** to develop personalized assessments

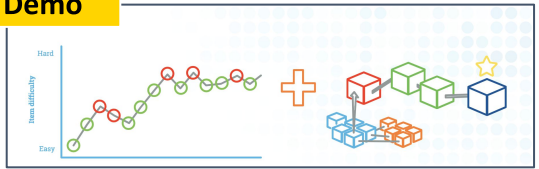
## Scale

Renaissance has raised **\$40M as of 2014**, and Star is used by **34,000+ schools** across the US

## Evidence

Star provides **high reliability** while **reducing overall testing time** to 20 minutes.

## Demo



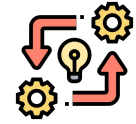
### Adaptive Testing

Computer-adaptive tests, so **each student's testing experience is unique to their learning level**, and **difficulty-level of questions adjusts** as per student responses.



### Accurate Results

By **adapting to students and eliminating unnecessary questions**, the platform can **accurately measure what students know** in real time.



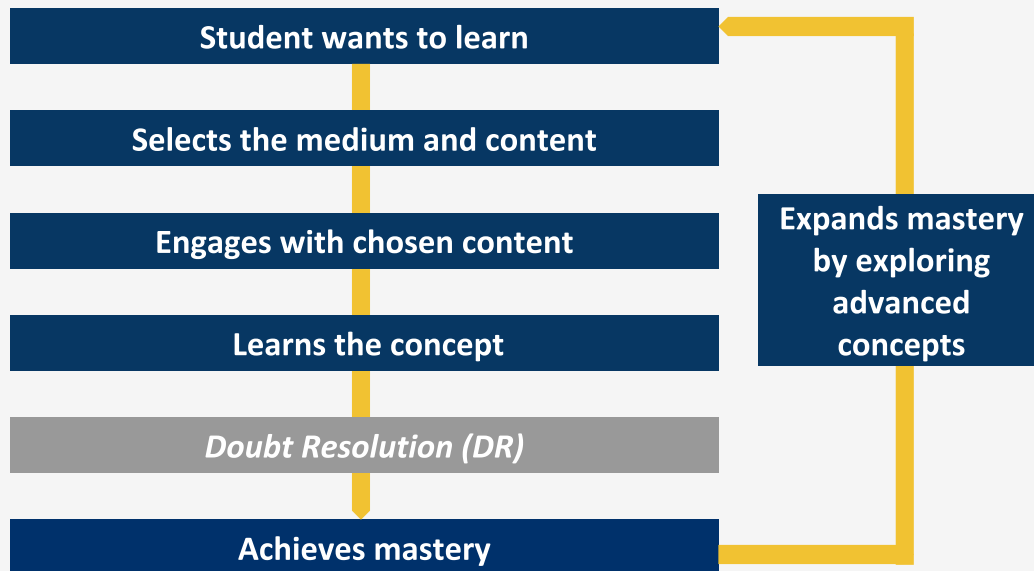
### No repetition

The system understands how skills relate to one another—and that a **student correctly answering advanced items doesn't need to be tested separately on the basic component skills** providing **shorter assessments**



## Self-Learning (SL)

The student independently learns new content, practices content covered in the class to develop mastery or accesses previous content to address learning gaps





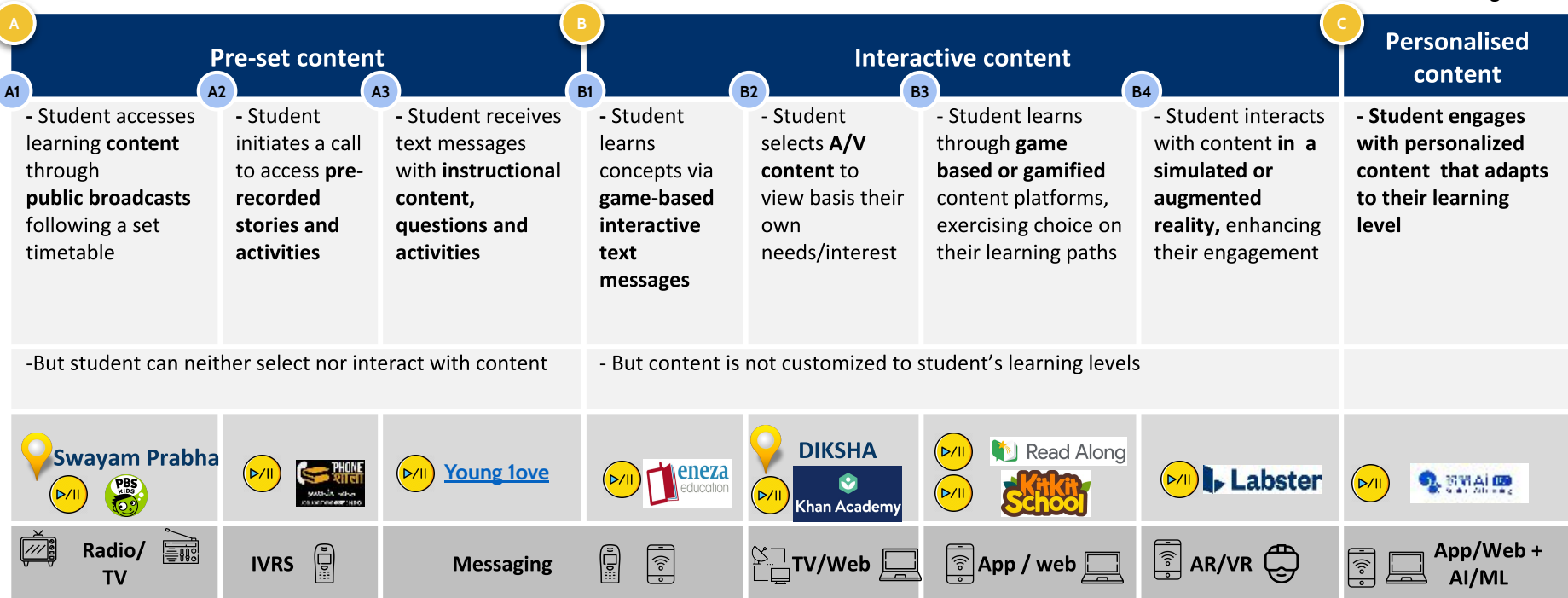
# Self-Learning (SL)

Technology enables a higher degree of personalization to individual student's learning needs

Degree of personalization

Low








High





# Self-Learning (SL)

Technology enables a higher degree of personalization to individual student's learning needs

Sub use- case	Features	Device	Examples of products
<b>A</b> <b>Pre-set content</b>	<b>A1</b> * Learning content broadcasted on <b>radio and TV</b> * Pre-determined <b>schedule</b> disseminated basis grades/subject <b>A2</b> * Student selects the grade and subject via <b>IVRS</b> and <b>listens to audio stories and lessons</b> * Number to dial can be a <b>toll-free number</b> <b>A3</b> * Students engage with learning content sent periodically via <b>SMS / WhatsApp</b>	 	* Listenwise * Galli Galli Sim Sim * Swayam Prabha * Phoneshaala
<b>B</b> <b>Interactive Content</b>	<b>B1</b> * Platform responds to learner's inputs, creating an <b>engaging SMS game-based experience</b> ; contains live doubt solving by a teacher via SMS, literacy games, certificates to the learner, leaderboards and online search * <b>Remote control</b> used to interact with <b>satellite TV programs</b> to <b>choose</b> content <b>B2</b> * <b>Online platform/micro sites</b> hosting curriculum aligned content for students * Available in multiple languages and allows for keyword search for content <b>B3</b> * Product creates a <b>game-based</b> (with interactive characters, learning ladders etc.) or <b>gamified</b> (rewards, leaderboards etc.) to create an engaging environment <b>B4</b> * <b>VR</b> : Learner uses headset to interact, engage with 3D visual explanations of concepts * <b>AR</b> : Smartphone camera scans a QR code or an object and displays a virtual 3D model explaining the concept in the phone screen	   	* SMS/ Whatsapp * Eneza * Dish TV, Tata Sky * DIKSHA, WorldReader * Khan academy * ABRA, Enuma, Read Along, Graphogame * Labster
<b>C</b> <b>Personalised Content</b>	* Predetermined <b>adaptive algorithm</b> that diagnoses misconceptions and identifies most efficient learning pathway (non AI driven) * <b>AI engine</b> predicts efficient learning pathways basis students' performance data * <b>Virtual avatar</b> that examines the learner's responses, communicates to provide feedback, suggests remediation and encourages the learner to complete their learning journey		* Apex Learning, Byju's * Sparkx, MindSpark, SquirrelAI, Embibe, ConveGenius

# Case study: Squirrel AI

*Self Learning: Personalized Adaptive Learning powered by an AI engine*

## What

Diagnoses student misconceptions and provides content tailored to child's learning level

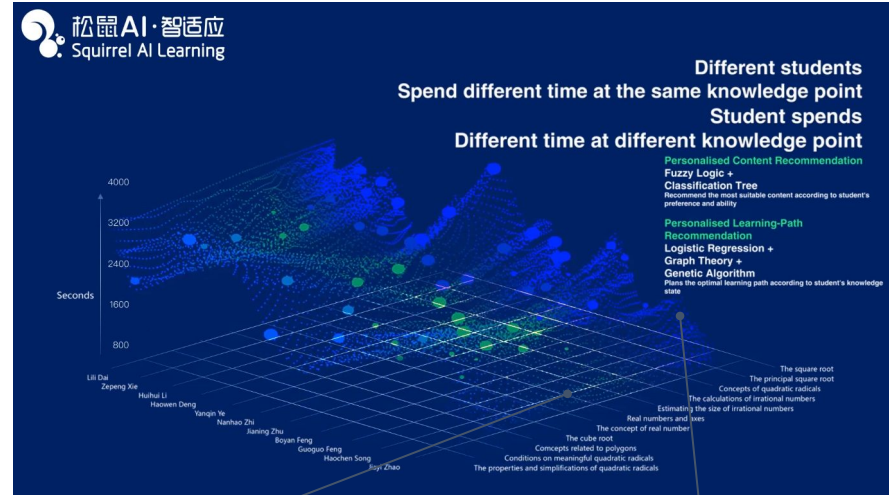
## Scale

2 million registered users, covering more than 600 cities and counties in China

## Tech

Uses AI to diagnose student levels leveraging knowledge points. 70% of lessons delivered via AI teachers

## Demo



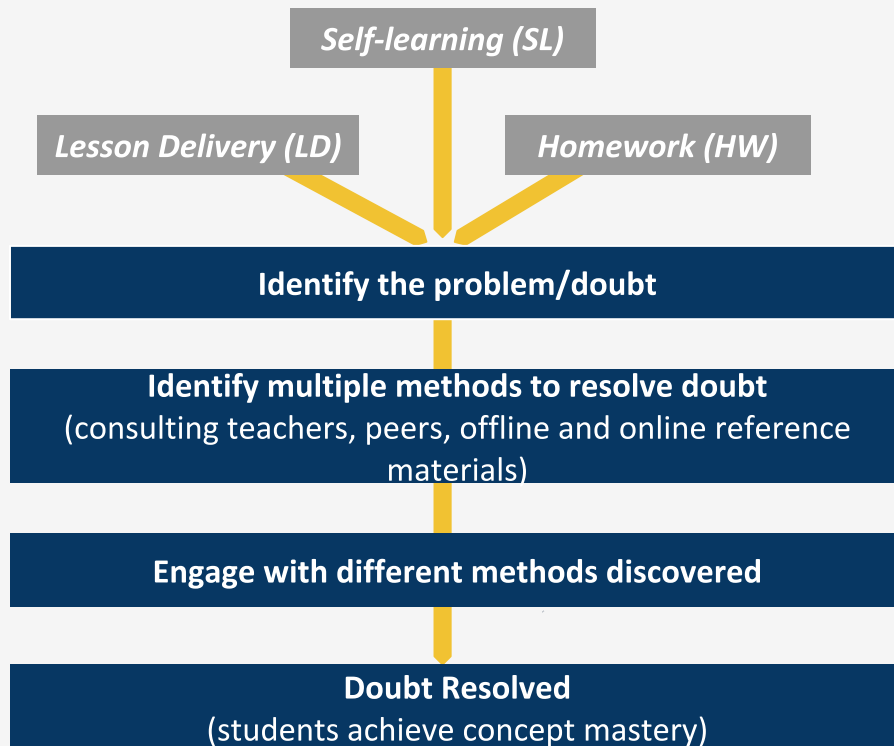
Each concept is broken into thousands of knowledge points (addressed by videos, examples and practice problems) that are linked to form a knowledge graph.

It can analyze the subtle differences in real time in each student's learning speed and mastery of each knowledge point, thereby matching personalized knowledge points that students need to master.



## Doubt resolution (DR)

Student identifies doubts and queries throughout the learning process, and resolves them by accessing resources that allow him to learn and apply information that was previously unclear

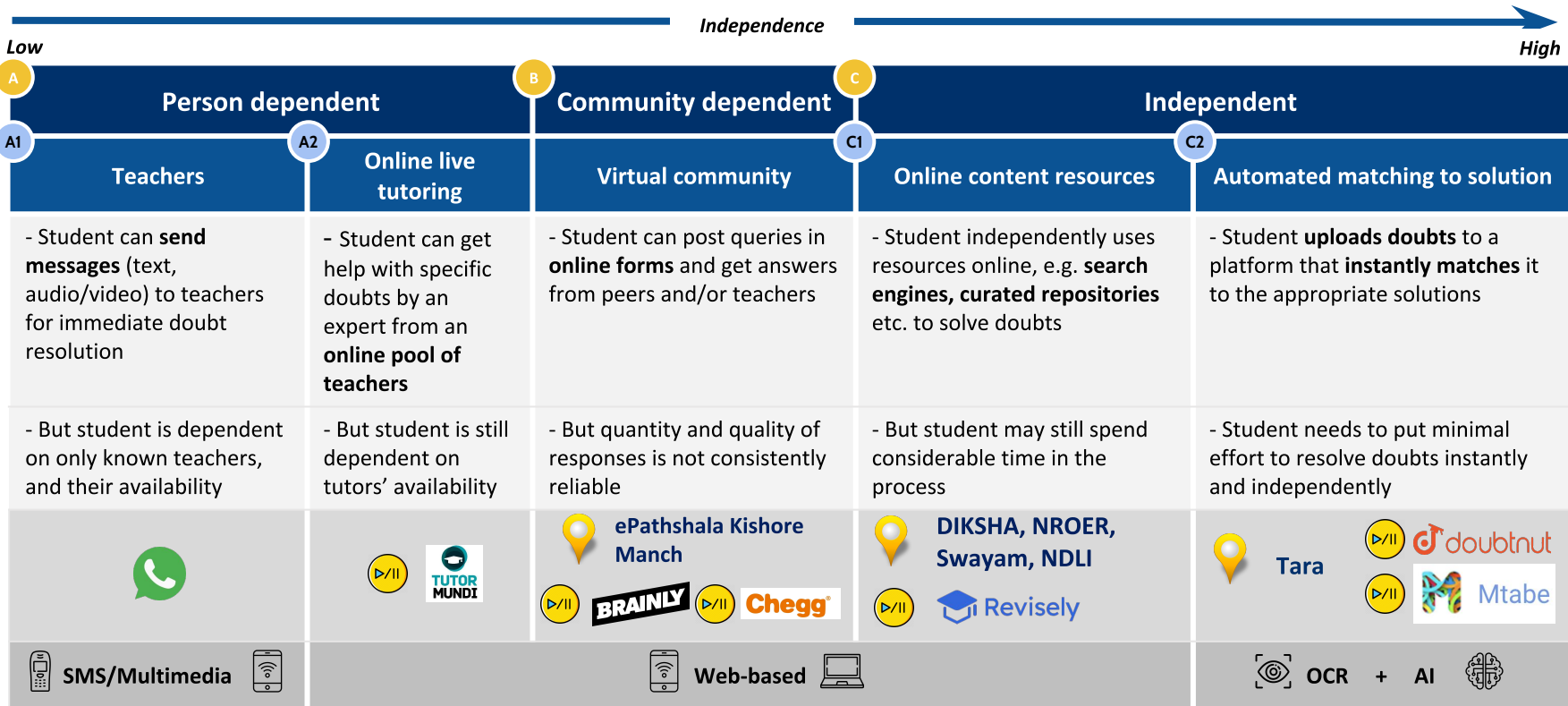






# Doubt Resolution (DR)









Technology enables students to become increasingly independent in the doubt resolution process





# Doubt Resolution (DR)

Technology enables students to become increasingly independent in the doubt resolution process

Sub use- case		Features	Device	Examples of products
A Person-dependent	A1 Teachers	* Doubts shared via text messages or calls with teachers	 	*WhatsApp
	A2 Online live tutoring	* Doubts shared via web-based communication platforms ( text, audio and visual formats) with teachers  * On demand service to match learners with tutors for specific doubts; either basis location of student or agnostic of it		*WhatsApp, Skype  *ChangingEdu, Tueetor, CueMath, TutorMundi, TutorBin, Zhangmen, GSX, Toppr, PhotoSolve
B Community dependent	Virtual community	* Crowdsolve answers from online communities around the globe * Closed group forum discussions at school, grade or classroom level * Doubts shared in multi media formats	 	*Chegg, Brainly *Piazza *Embibe
C Independent	C1 Online Content Resources	* Read solved examples for questions in textbooks and past papers via curated online repositories * Use keywords search for explanation pertaining to specific doubts in multimedia formats (text, audio/visual)		*Revisely, NCERT Solutions  *Khan Academy, YouTube
	C2 Automated matching to solutions	* Instant doubt resolution via sms/web-based platforms that use ML and AI * Photos of doubts uploaded to platforms that automatically detect the text (using OCR tech) and provide pre-matched detailed explanations in multimedia formats *Online calculator for advanced mathematics	    	*Mtabe, Whatsapp  Doubtnut, PhotoSolver by GotIt!, 17Zuoye, Photomath *Symbolab

# Case Study: PhotoStudy

*Doubt Resolution: Live tutoring for instant doubt resolution*



## What

PhotoStudy by GotIt! is an instant math and science doubt resolution tool for grades 9 and above.

## Scale

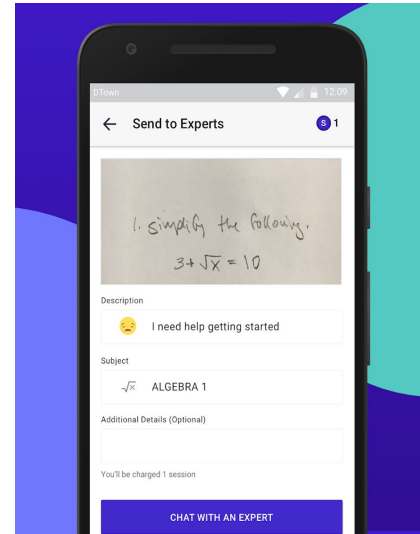
The platform has raised **\$22.5M as of 2015**, and **more than a million students around the world** have used the app to solve 3M doubts.

## Tech

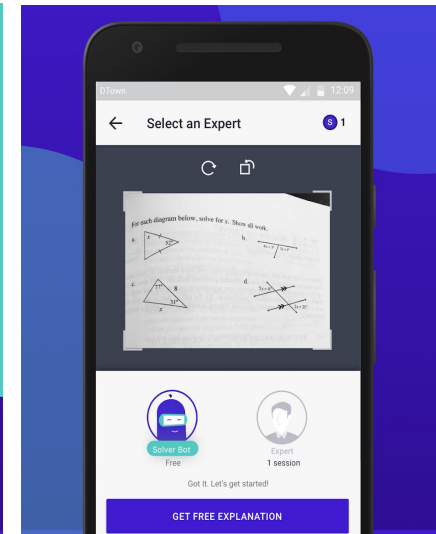
Uses an **AI-powered bot** to provide instant doubt resolution, or **connects the student to a live tutor** for further explanation.

## Evidence

Internal evaluations show that **90% of students** who used PhotoStudy **saw at least a letter grade improvement** in their Math/Science course.



1. Take a picture of your doubt or question

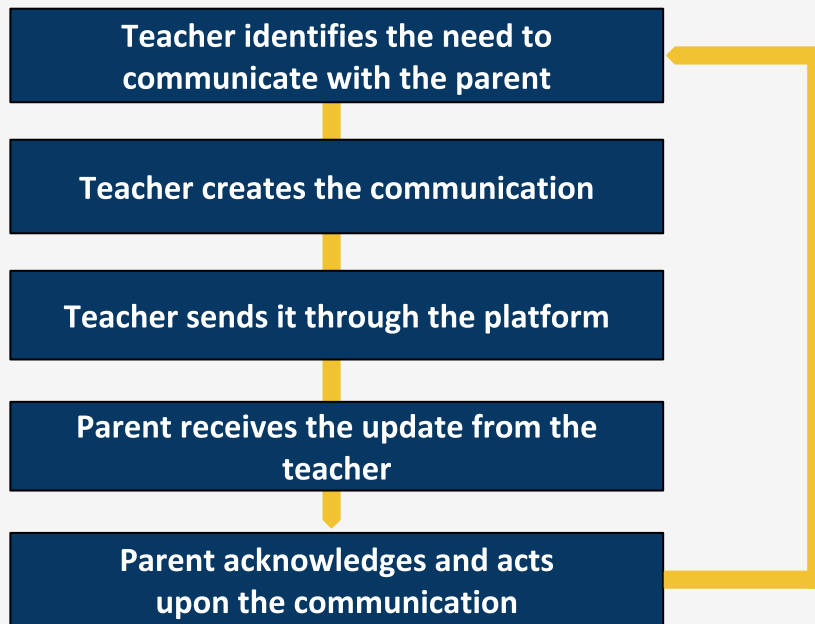


2. Choose to have it solved by an AI-powered bot or connect with a tutor for a live session



## Parent-Teacher Communication (PTC)

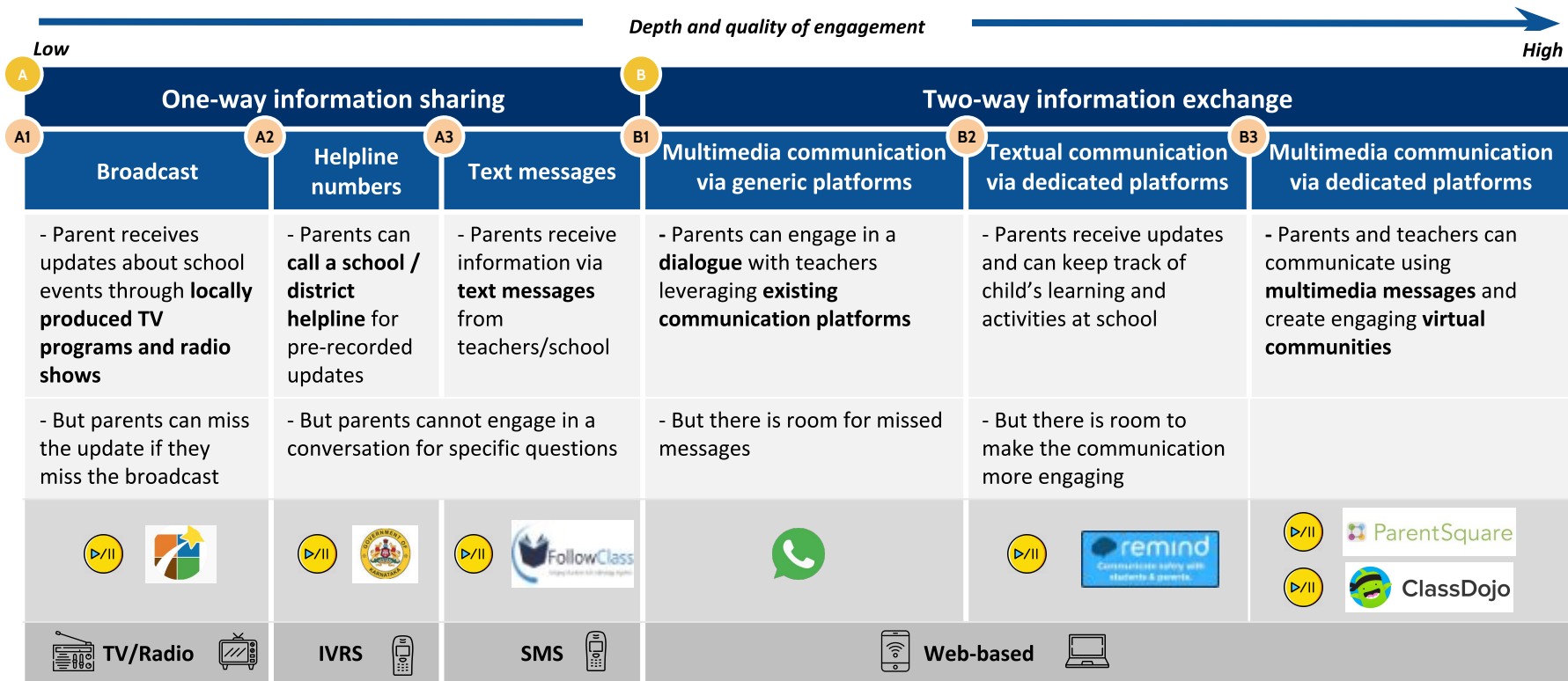
Teachers / schools leverage digital platforms to strengthen teacher-parent communication





# Parent-Teacher Communication (PTC)




Technology enables increased depth and quality of engagement between parents and teachers





# Parent-Teacher Communication (PTC)

Technology enables increased depth and quality of engagement between parents and teachers

	Sub use- case	Features	Devices	Examples of products
A One way info sharing	A1 Broadcast	* School produced content (recorded student activities, student shows, logistical info etc) to update the parent community via <b>TV/radio</b>		* Parkhill TV, Lodgers Berwick radio
	A2 Helpline numbers	* <b>24/7 IVRS number</b> available for parents to call to obtain info on school events/admin/meetings		* <b>Karnataka</b>
	A3 Text messages	* SMS sent to parents with school updates, student attendance and performance information * Customize messages by <b>personalisation of names</b>		* <b>FollowClass</b> * <b>ParentAlert</b>
B Two way info exchange	B1 Multimedia communication via generic platforms	* Teachers and parents can exchange <b>multimedia updates</b> (including pictures, videos) wrt to student learning activities * <b>Parent-teacher meetings</b> can be conducted on virtual platforms		* <b>Whatsapp</b> * <b>Zoom, Teams</b>
	B2 Textual communication via dedicated platforms	* Dashboards for teachers to <b>schedule messages</b> * Tracking of <b>read receipts</b> * Automatic <b>in-app language translation</b> for multilingual communication * <b>Pre-designed responses</b> for parents to revert * <b>Privacy</b> protection of both parties		* Remind * <b>Sync</b> * <b>SchoolVoice</b>
	B3 Multimedia communication via dedicated platforms	* <b>Dashboard</b> on student learning data and teacher feedback available * <b>Multi lingual updates</b> can be scheduled with read receipts * <b>Quiet hours</b> for teachers to decide communication windows with parents * <b>Efficient school admin</b> processes e.g. fee payments		* ParentSquare * ClassDojo

# Case Study: Parent Square

*Parent Teacher Communication: Two-way communication between parents and teachers*

## What

Platform connecting K-12 schools and families for seamless communication for all school related activities

## Scale

Parent Square has 2 million users across 44 states in the US and has disclosed \$4.2M in funding

## Tech

Teacher quiet hours, in-app translation, personalized messages to parents



## Demo



### Mass Notifications



#### Urgent Alerts

Send with a few clicks



#### Attendance/Lunch Balances

Day/period absences + excuse notes



#### Social & Web Share

Post to existing sites and channels



#### Secure Document Delivery

Save paper, maintain privacy



### Classroom Communications



#### Direct & Group Messaging

Connect students, teachers, parents



#### Parent-Teacher Conferences

Save time, increase bookings



#### Volunteering & Sign-ups

Fill needs faster, chase less



#### Newsletters

Streamline, ensure brand consistency



### School Services



#### Forms & Permission Slips

Save time and paper



#### Calendar & Event RSVPs

Increase attendance



#### School Directory

Automatically updated from your SIS



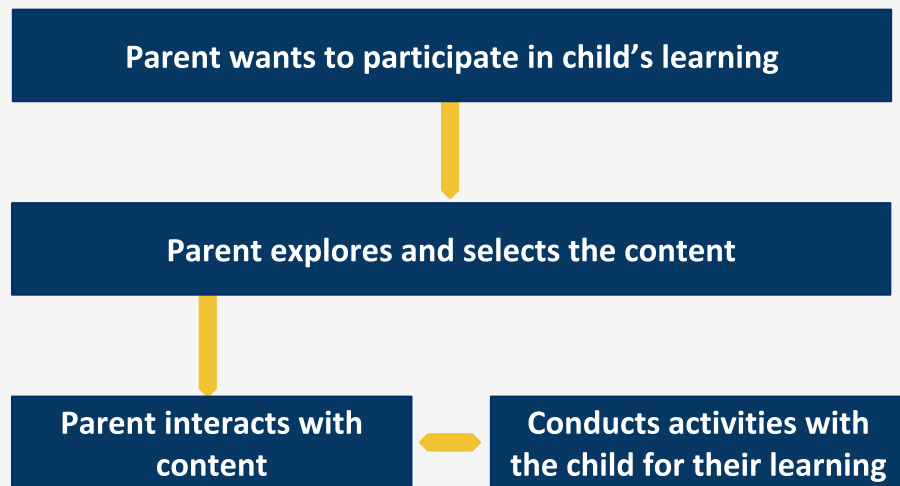
#### Invoices & Payments

Accept secure online payments



## Parental participation (PP)

Parent uses tools to engage with their child's learning (academic and SEL) at home and build their own capacity to do so meaningfully





















# Parental participation (PP)








Technology enables parents to provide increased level of learning support to their children

A Content broadcast	B One-way content sharing	C Two-way communication to facilitate engagement with content	D Homeschooling platforms for parent to engage with child's learning	E Content to build parents' capacity to drive child's learning
- Parent accesses <b>learning content broadcasted on TV</b> to engage with the child	- Parent receives <b>activities to conduct with child</b> through SMS/IVRS	- Parent can <b>discuss and get assistance</b> to conduct the activities better with the child	- Parent uses a platform to <b>select learning content</b> for their child and <b>access dashboards</b> to keep a track of their performance/progress	- Parent engages with nuanced, targeted information that equips them with the <b>skills and knowledge to drive</b> the child's learning and development process
	 			
 TV 	 Messaging/Calls 		 Web platforms 	 Web platforms 



# Parental participation (PP)

Technology enables parents to provide increased level of learning support to their children

Sub use- case	Features	Device	Examples of products
<b>A</b> Content broadcast	<ul style="list-style-type: none"> <li>* Learning activities broadcasted via edutainment channels on <b>television</b></li> <li>* Videos uploaded on <b>shared tablets</b> at community locations weekly</li> </ul>	 	* Ubongo (Tunakujenga)
<b>B</b> One way content sharing	<ul style="list-style-type: none"> <li>* Learning activities sent out as <b>text-messages</b> at regular intervals</li> <li>* Activities range across <b>different domains</b> - art/craft, health/hygiene, numeracy, language etc</li> <li>* Activities designed to <b>target student learning levels</b></li> <li>* <b>Tips</b> provided to parents on child development to deepen engagement</li> </ul>		<ul style="list-style-type: none"> <li>* Makhaliidwe Athu, Delhi govt</li> <li>* Dost edu, Ready 4K</li> <li>* Botswana - Young 1ove</li> </ul>
<b>C</b> Two-way communication to facilitate engagement with content	<ul style="list-style-type: none"> <li>* Parents call an <b>IVR line</b> which will tell them the story of the week along with a discussion question</li> </ul>		* Makhaliidwe Athu
<b>D</b> Homeschooling platforms for parent to engage with child's learning	<ul style="list-style-type: none"> <li>* <b>Dedicated relationship manager</b> calls parents to communicate activities/tips</li> <li>* Operators available on call to clear doubts, provide support or additional material to parents</li> </ul>		* Saarthi
<b>E</b> Content to build parents' capacity to drive child's learning	<ul style="list-style-type: none"> <li>* <b>Online platforms</b> with learning content for child to engage with directly</li> <li>* Parents <b>choose classes</b> and create the learning journey for the child</li> <li>* <b>Dashboards</b> that allow parents to track child's learning journey</li> </ul>		* Homeroom, K12, Outschool
	<ul style="list-style-type: none"> <li>* <b>Online platforms</b> with parent facing content spanning <b>across different aspects of child development</b> including nutritions, managing relationships, safety/security of children etc.</li> <li>* One-stop shop for parents to access high-quality learning resources for children</li> </ul>		* Top Parent

# Case Study: Ready4K!

**Parental Participation:** A communication tool to help parents meaningfully engage in their child's learning

## What

Ready4K! delivers a family engagement curriculum to K-3 parents via personalized text messages.

## Tech

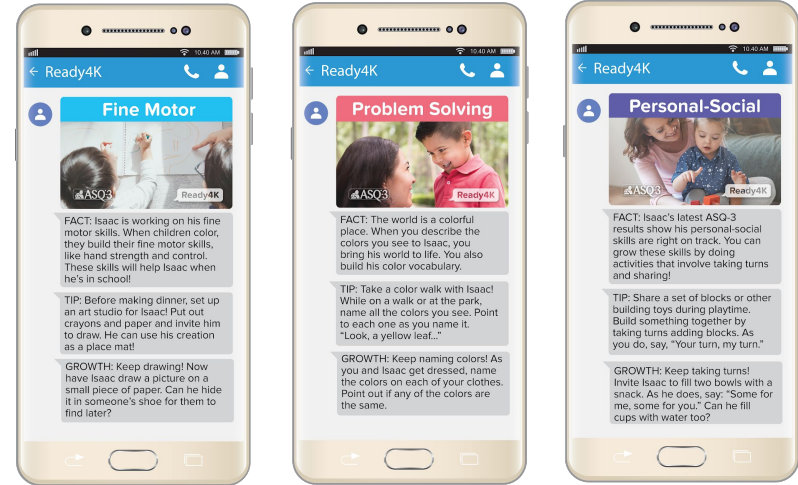
Uses an adaptive engine to send personalized SMS messages on any device

## Scale

The platform has raised \$3.7M as of 2019, and more than 300K families across the US use Ready4K

## Evidence

A series of RCTs have shown that the approach can accelerate literacy outcomes by 2 to 3 months over a school year.



**FACTS** inform parents about the skill of the week and the importance of that skill for academic growth of the child.

**TIPS** suggest an easy, at-home activity based on that skill.

**GROWTH** messages contain a more advanced activity that is meant to extend the learning opportunity presented earlier in the week.



## Demo



Family Engagement Curriculum, delivered via text

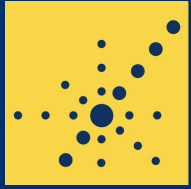
## Power your own analysis

The database powering the analysis in this document is available for open access.

A deeper glance through the database can provide you more information -

- *On the broader EdTech landscape - e.g. “Which use-cases of EdTech have most evidence of impact?”*
- *On very specific questions such as “What are some parental engagement products I can look at as I think about solutions for my district?”*

Access the [database](#) to discover interesting products across different geographies, devices, grades and subjects. Information on funding, scale and evidence is also included where available. From over 350+ innovations landscaped, this database features 328 innovations categorized into the nine teaching-learning interactions.



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FOUNDATION

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To tell us about an innovative EdTech solution, provide feedback, or suggest corrections, please fill this [form](#).

For any queries, please write to us at [info@centralsquarefoundation.org](mailto:info@centralsquarefoundation.org).