

Reimagining Teaching & Learning using NDEAR

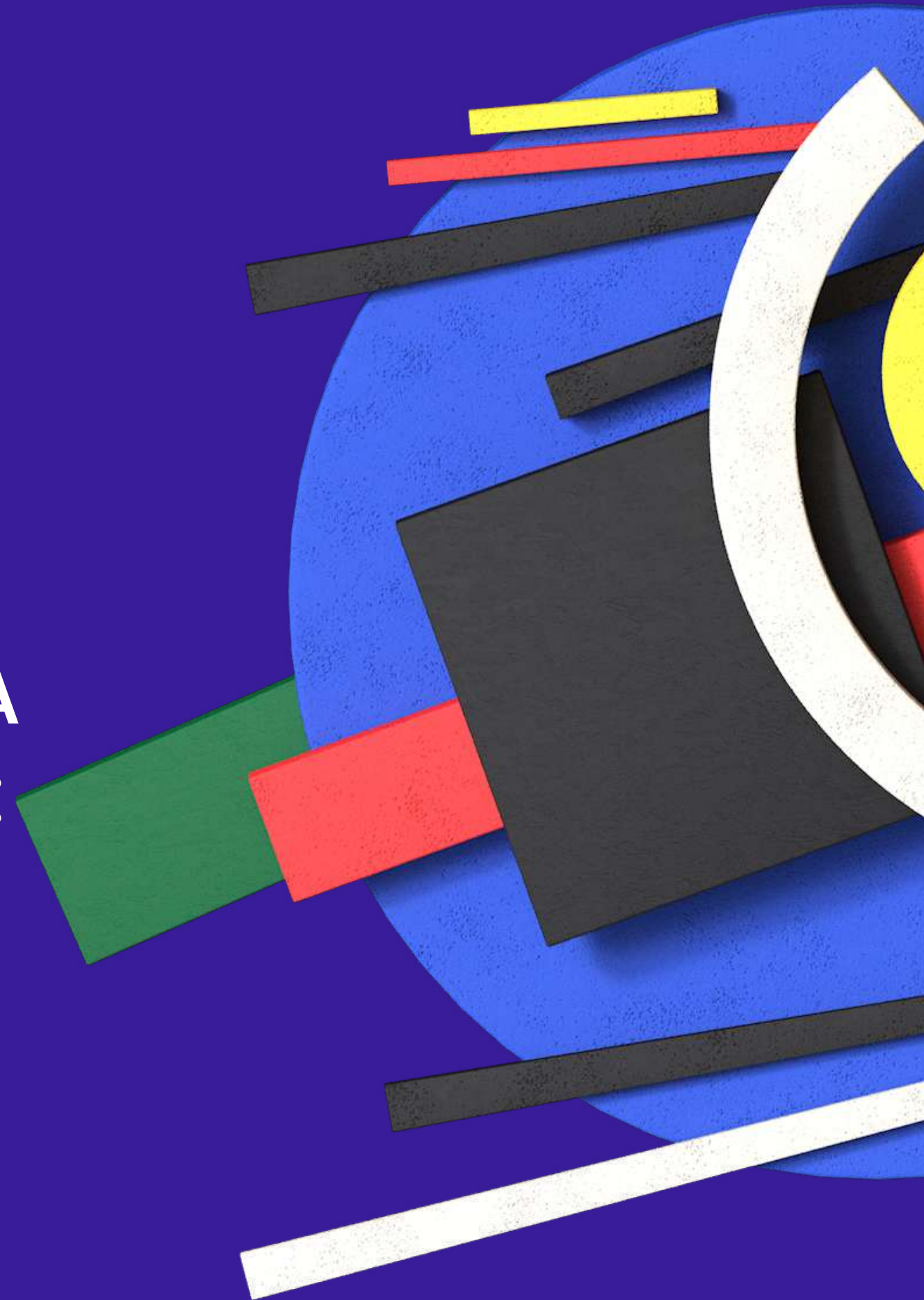
By

Arvind Gupta, Team Lead, DIKSHA PMU, NCERT
Sathyaraj Iyer, Lead, NDEAR PMU, NCERT



What we will learn today ?

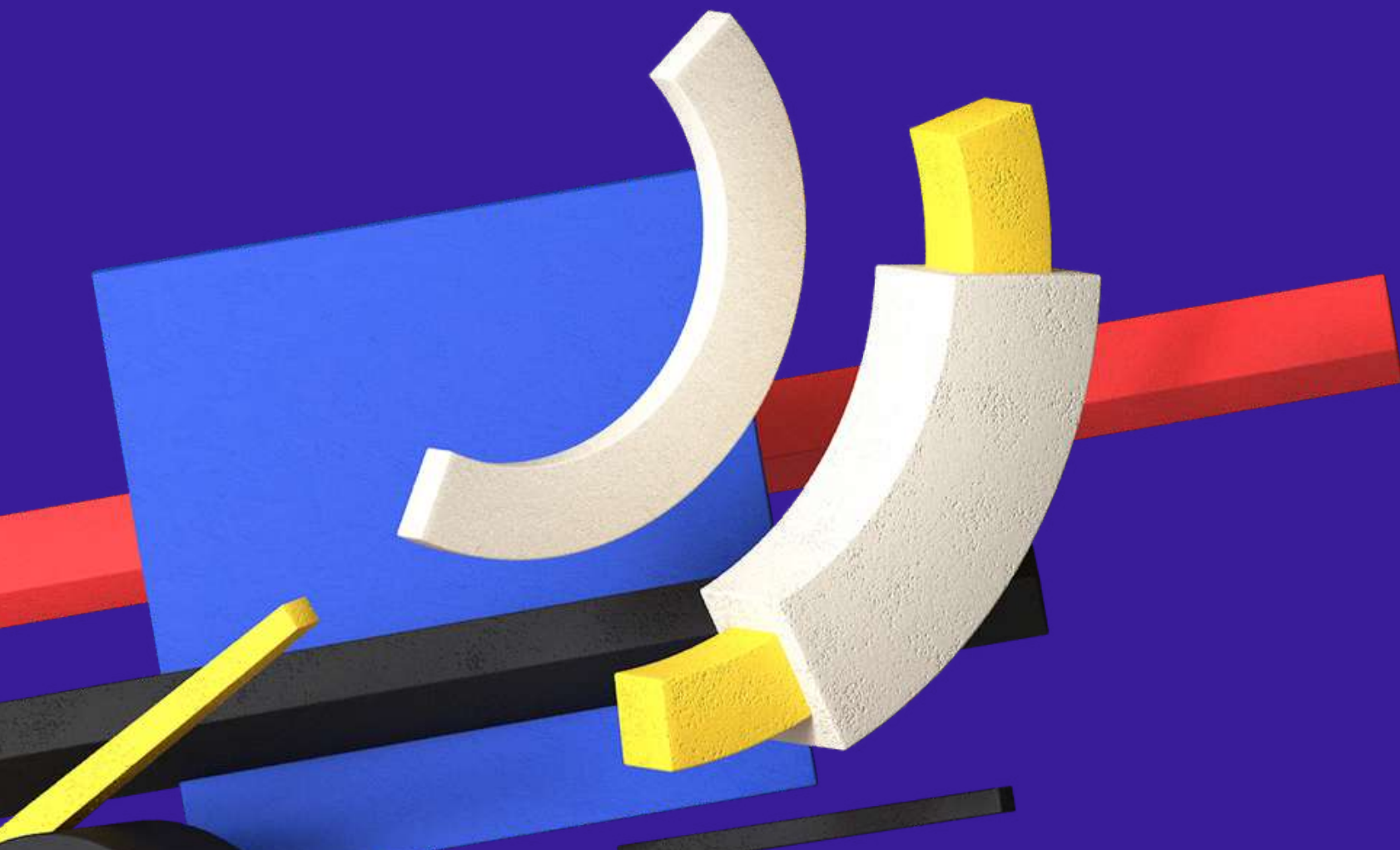
1. Introduction to NDEAR
2. Reference Use Cases:
 - a. Improvement Capability – DIKSHA
 - b. Open & Large scale assessments:
SARAL
 - c. Proactive governance: VSK



What is NDEAR?

National Digital Education Architecture

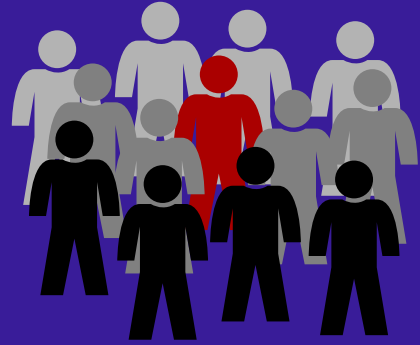
NDEAR is an architectural blueprint for the educational ecosystem in the country that defines a set of principles, standards and specifications, guidelines and policies to strengthen the digital infrastructure for education.



But, why NDEAR ?



Major Challenges



17 crore out of 52 crore estimated population in age group 3 to 23 years is out of formal education system



Challenges in Foundational Learning and Numeracy



Large no of School drop out (approx. 85 lakhs in a year)



Education Governance



Learning Outcomes, Assessment



Quality of education



Digital Divide



**Digital & Emerging
Technologies can
make a difference**

one man band
Trying to do all



Everyone doing one
thing - best

Partnership ecosystem



LEARN

HELP LEARN

MANAGE

Student

Teacher

School

Private

Parent

Government

Community

Federated Architecture



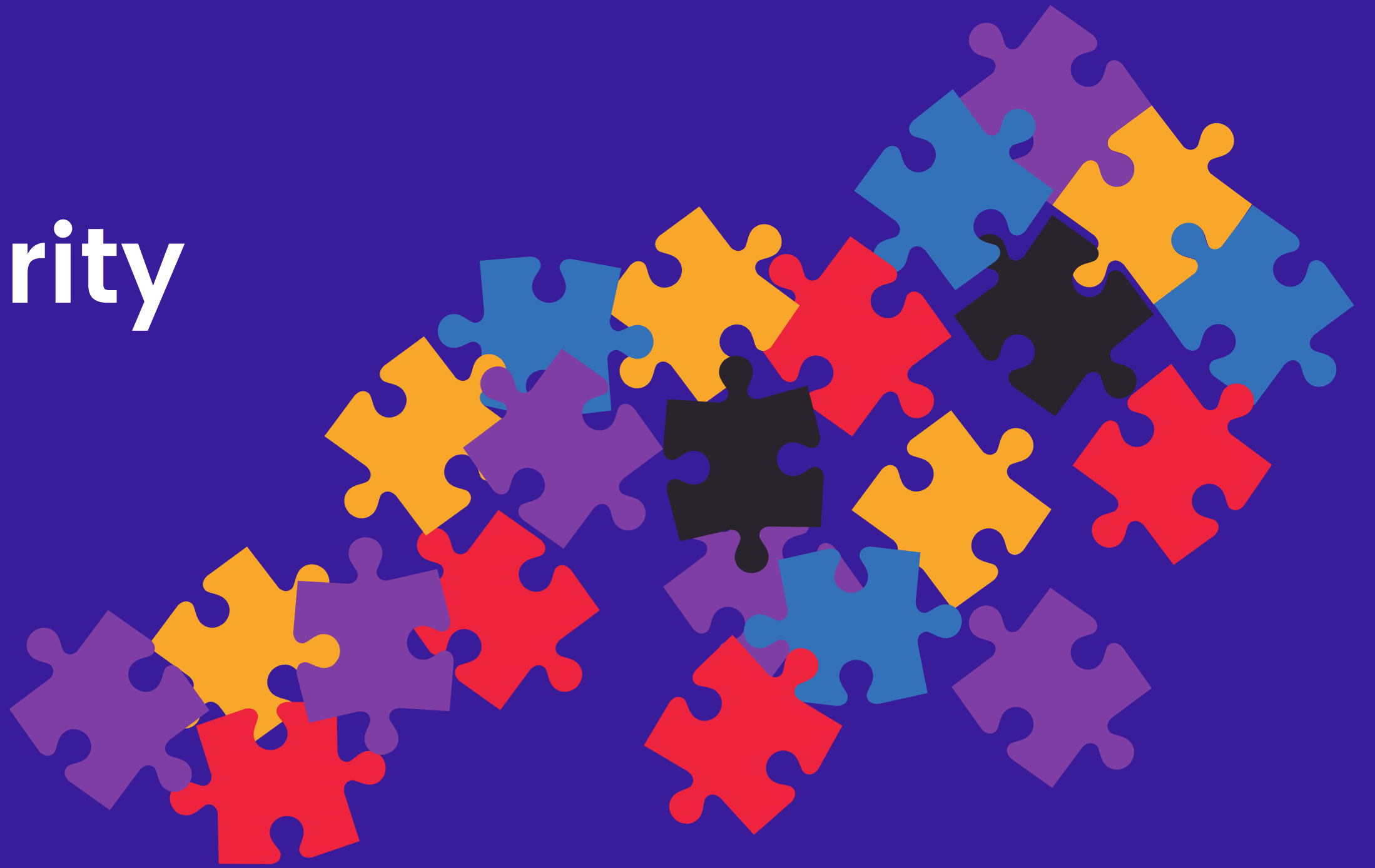
Inclusivity



Ecosystem Approach



Privacy & Security by design



Interoperable



Longitudinal Records



Envisaged Outcomes



The Students get access to on demand learning materials, videos, graphics and animations, virtual lab and different forms of assessment tools. Access to personalized adaptive learning (PAL). Transition to higher education and skilling to be tracked



The teachers get access to online support for lesson plans, use of TLM, pedagogic transactions, online reference materials, competency based evaluation tools etc. They also get access to online modules for improving professional standards.



Schools/school management get access to school management practices, school related ERPs, learning management systems, data analytics etc.



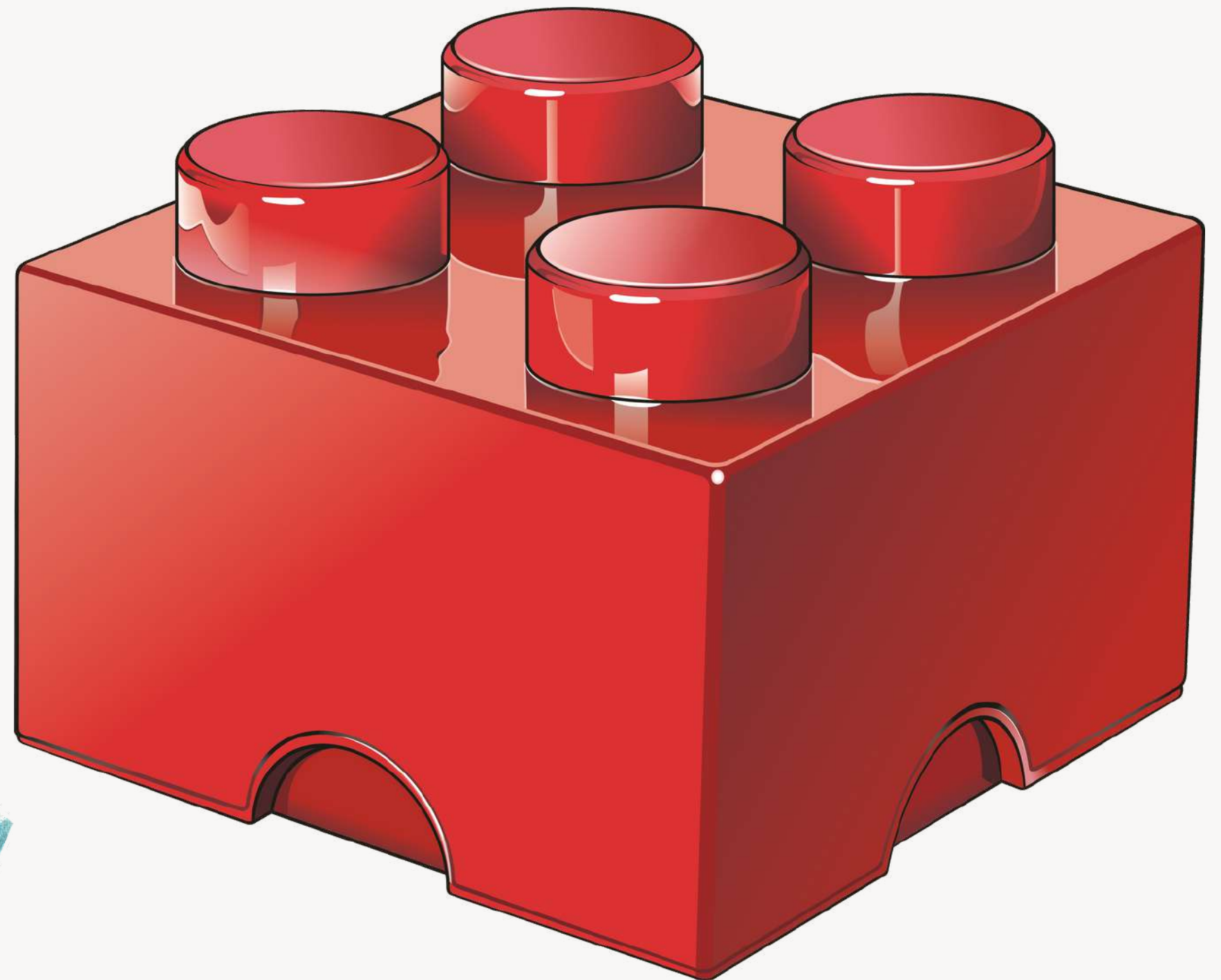
Parents get access to the child's holistic progress report, schools performance and teachers performance. Community place a role in voluntary engagement, CSR, mentorship etc.



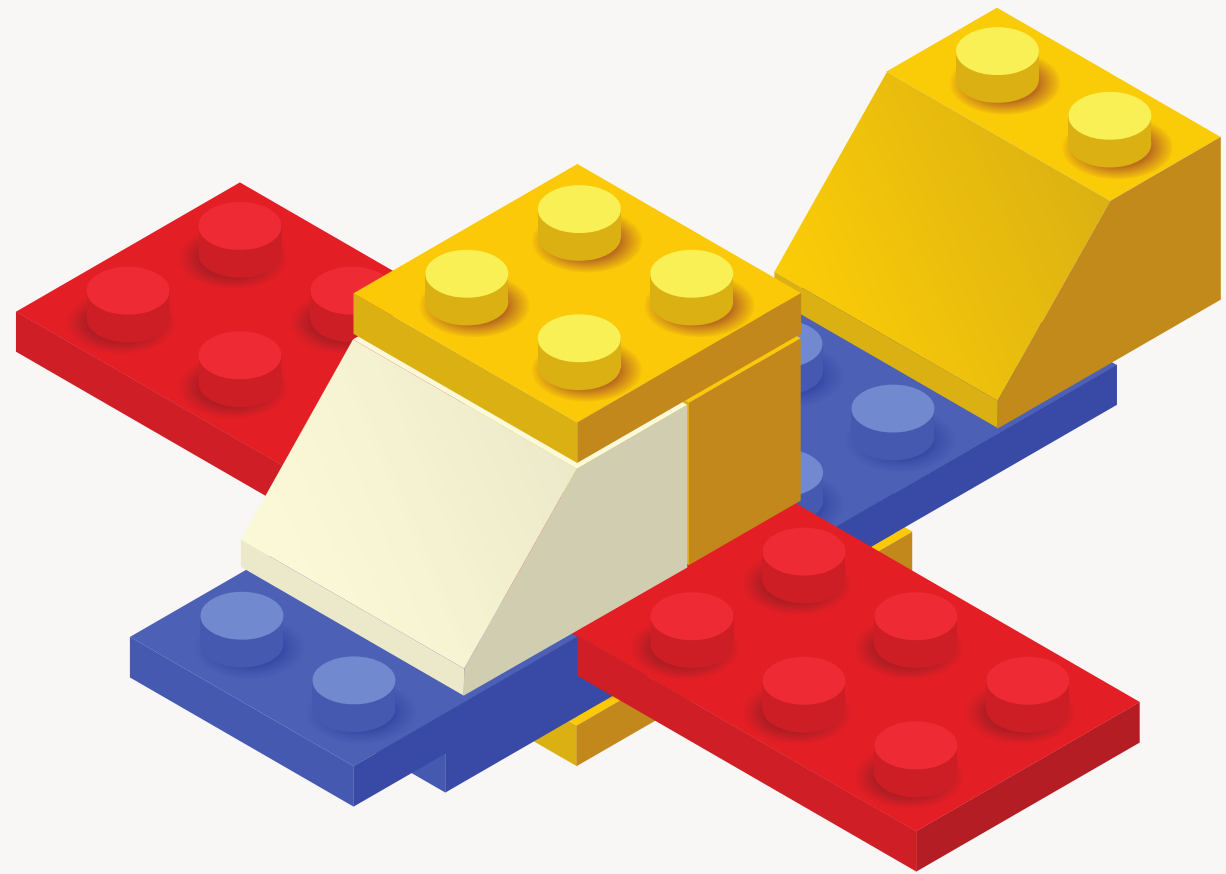
Educational administrators use data analytics to bridge infrastructure gap, teacher availability gap, address dropouts and make informed policy choices.



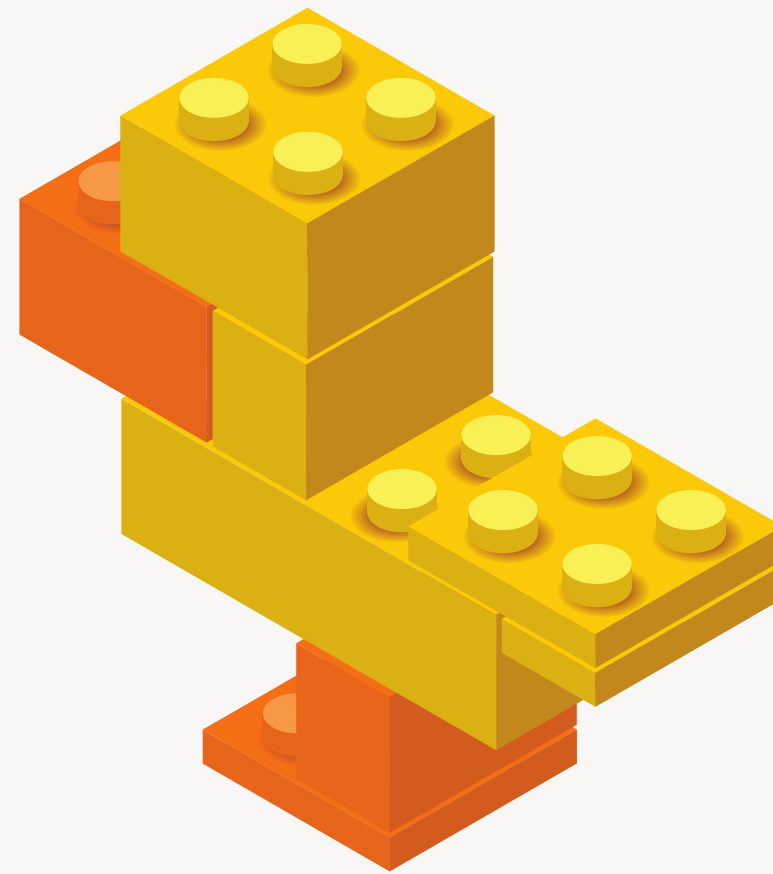
What do you see ?



Do you also see ?



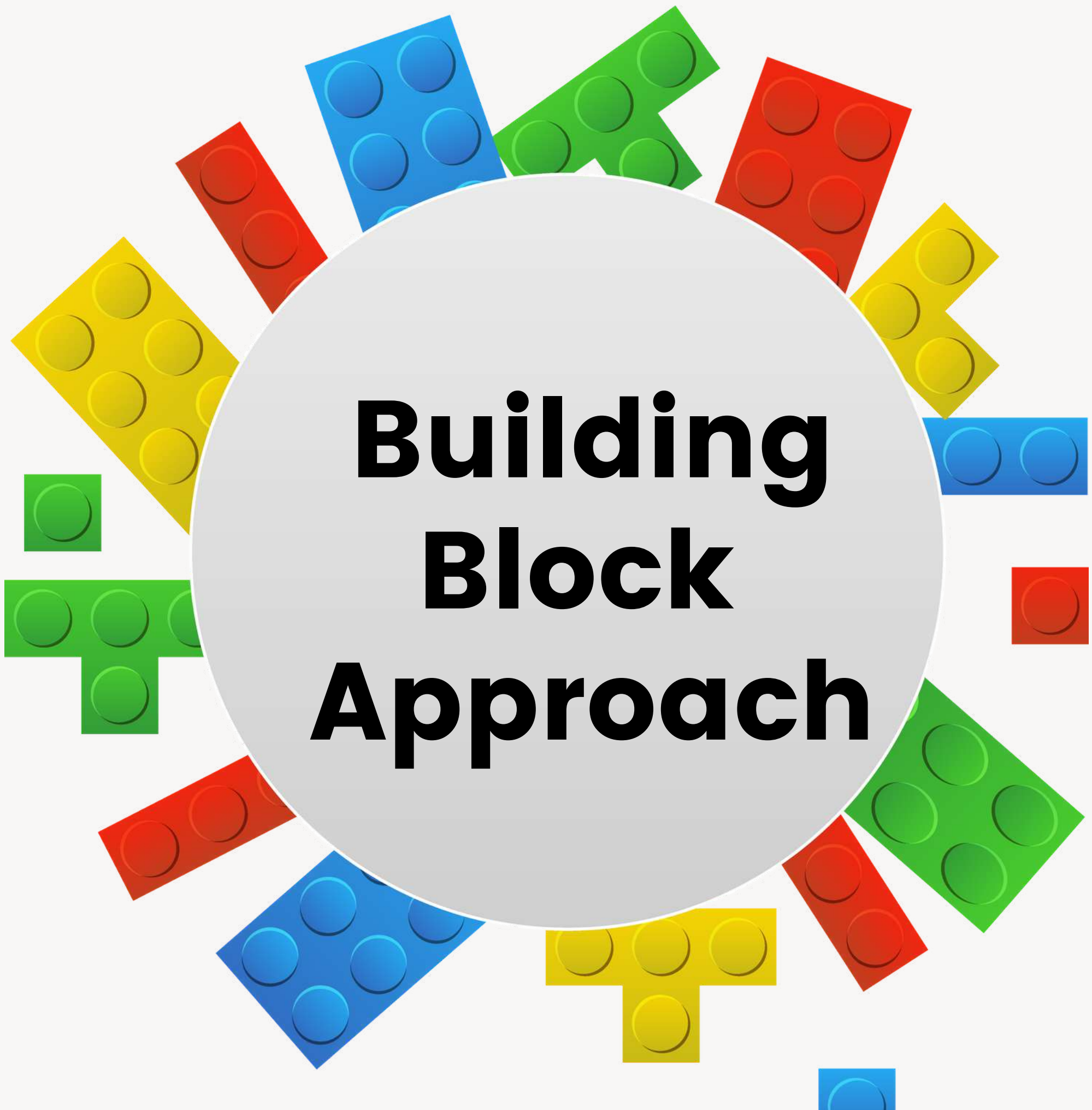
A Plane



A Duck

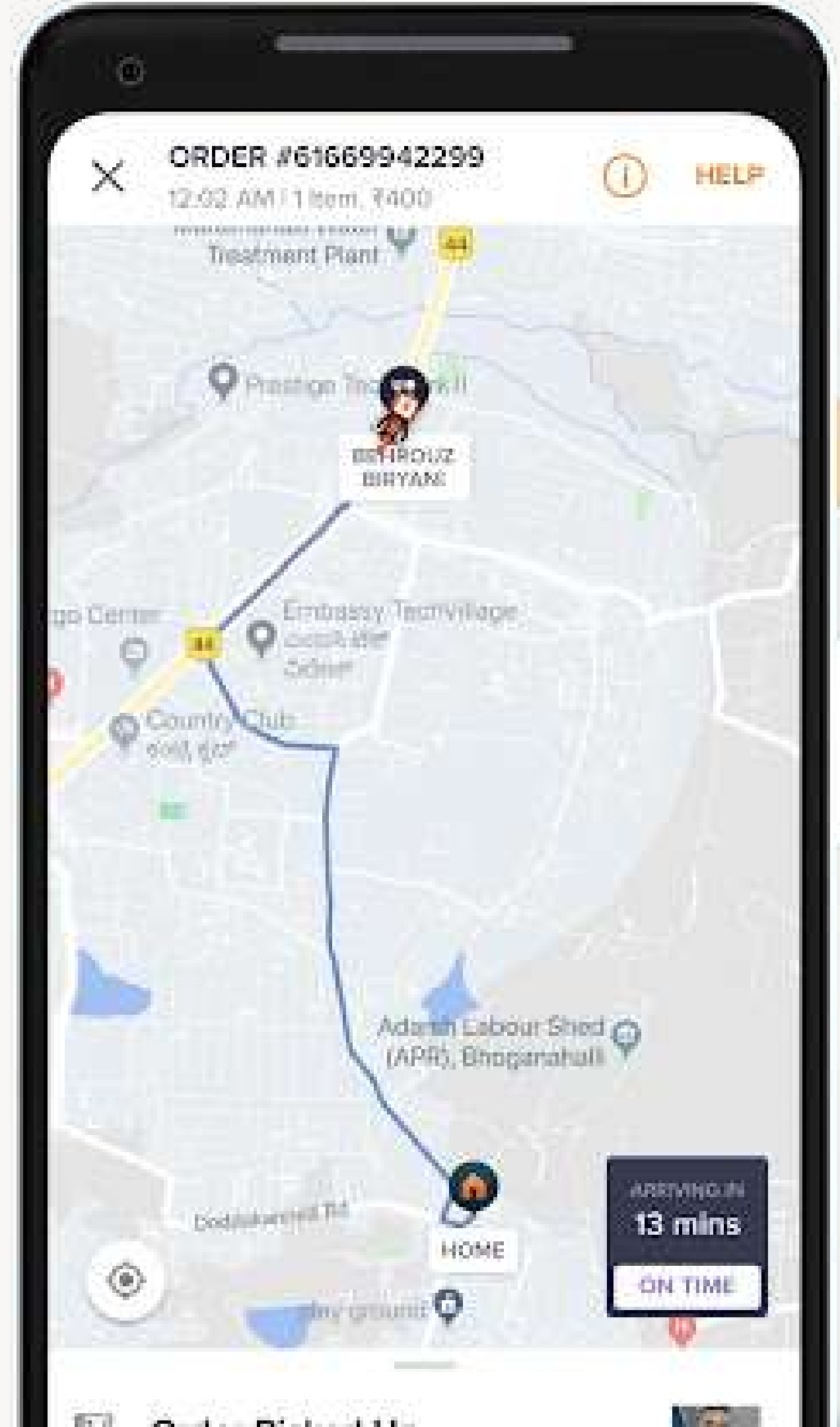


A Tree



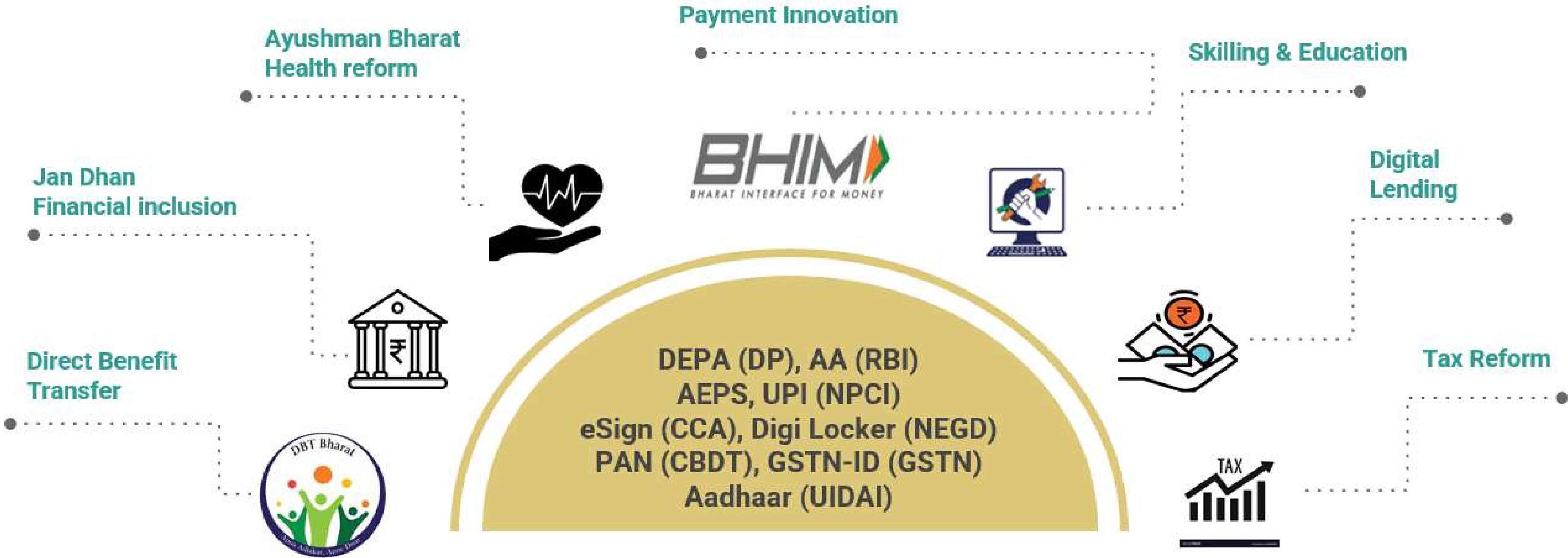
**Building
Block
Approach**

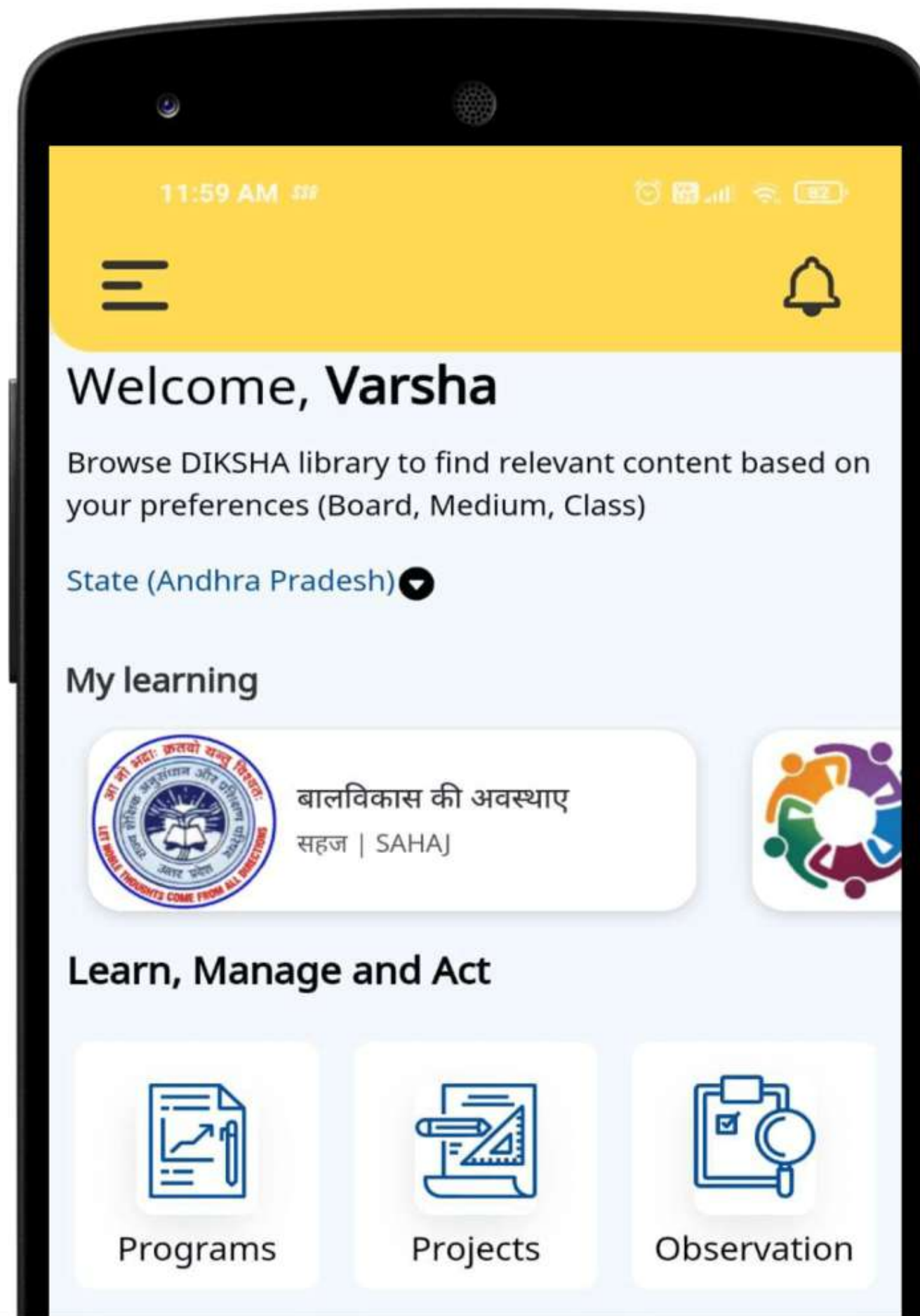
GPS



A building blocks approach to building diverse solutions at scale

INDIA STACK





IMPROVEMENT CAPABILITY ON DIKSHA

Available In

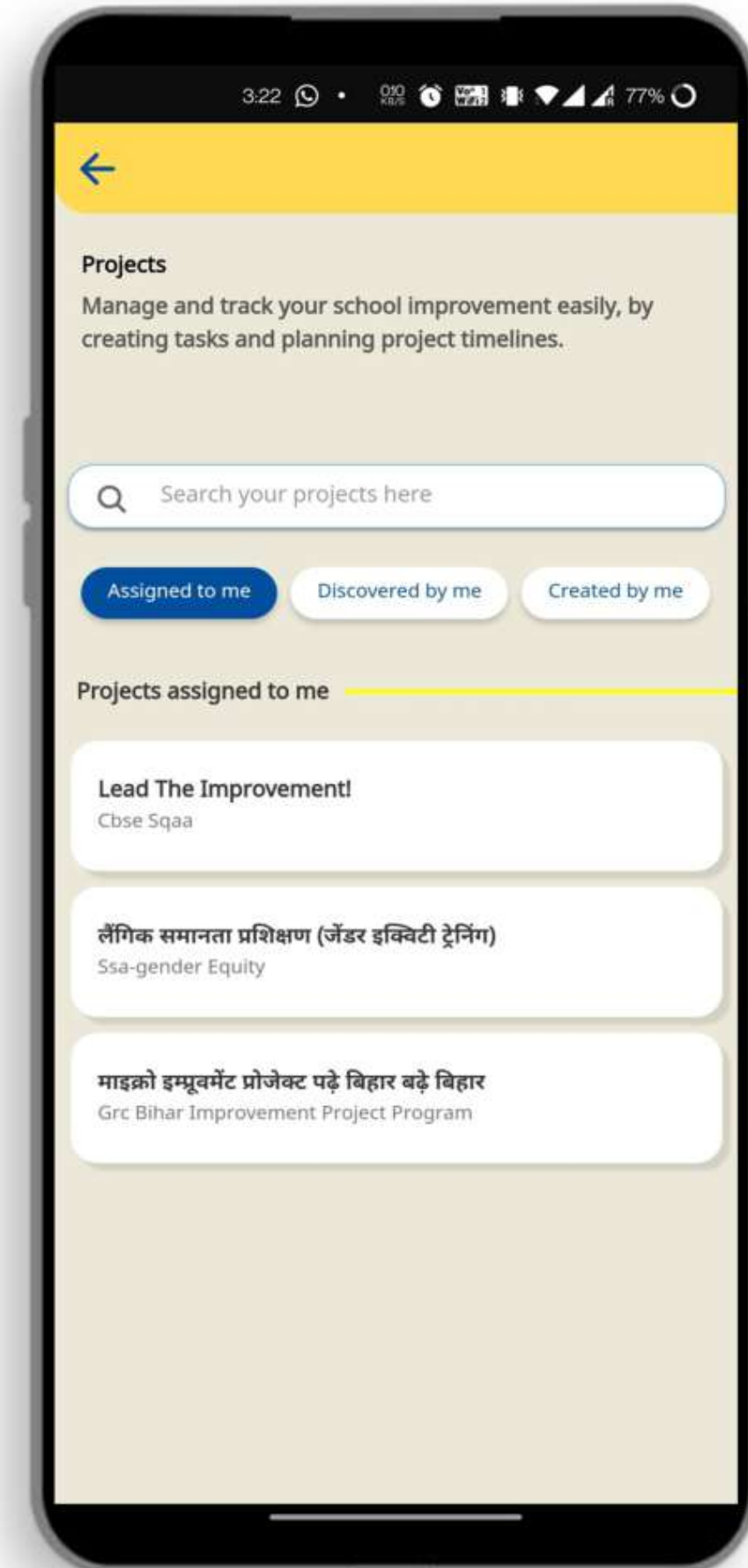


Introduction to Improvement Project

An improvement project enables leaders to define and track a set of easy and obtainable tasks.

This allows users to achieve specific objectives towards the improvement of schools.

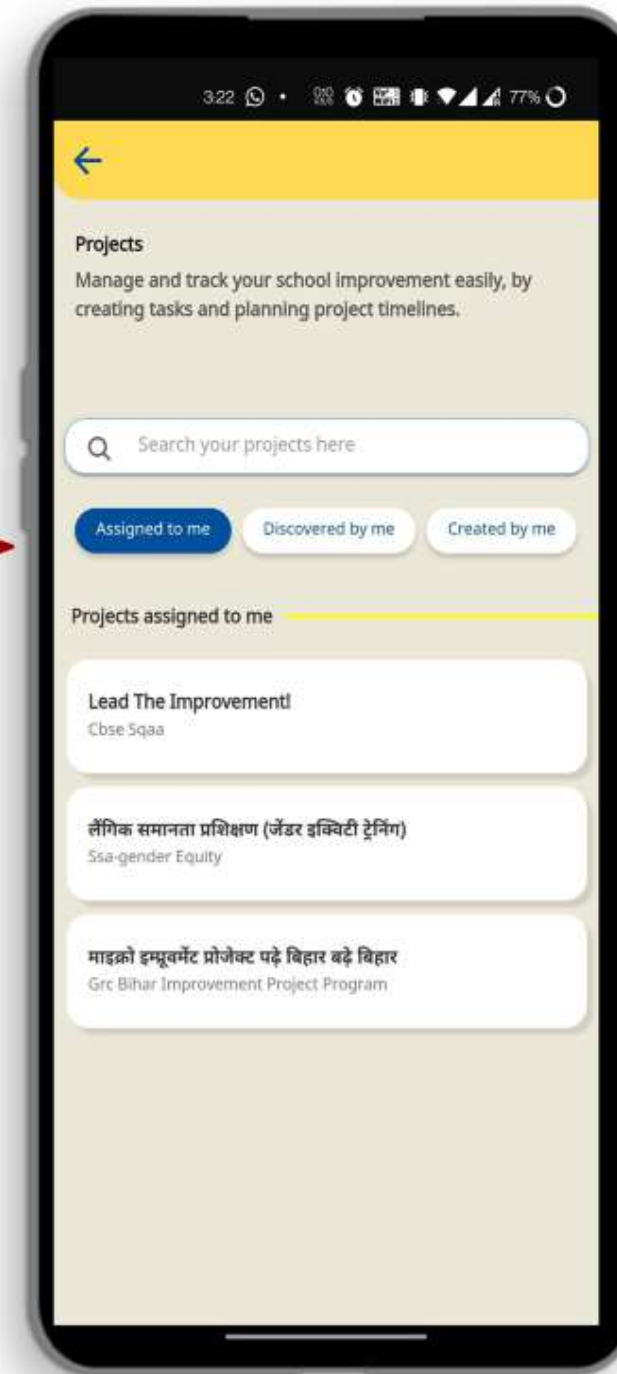
Accessing Projects



Accessing Projects via Project tile



Click on 'Project' Tile from Home Page

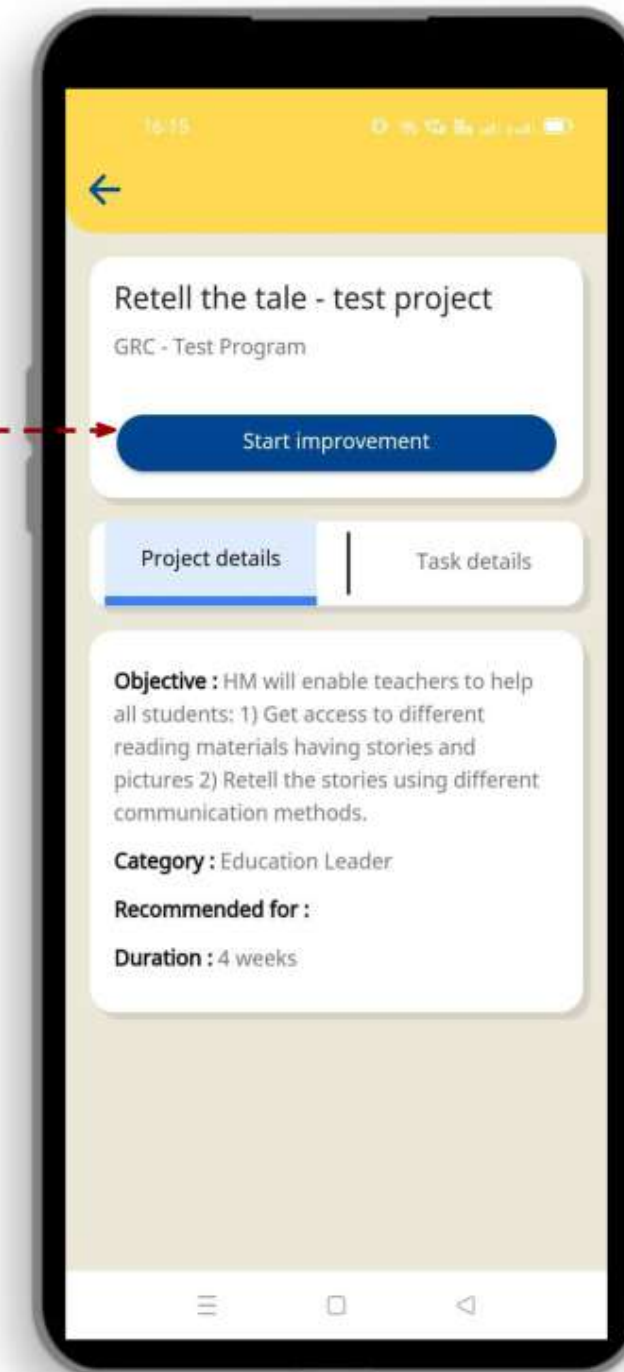


Within the Project Tile, you will find 3 separate tabs

Accessing Projects via Links



Click on Project Link that you received

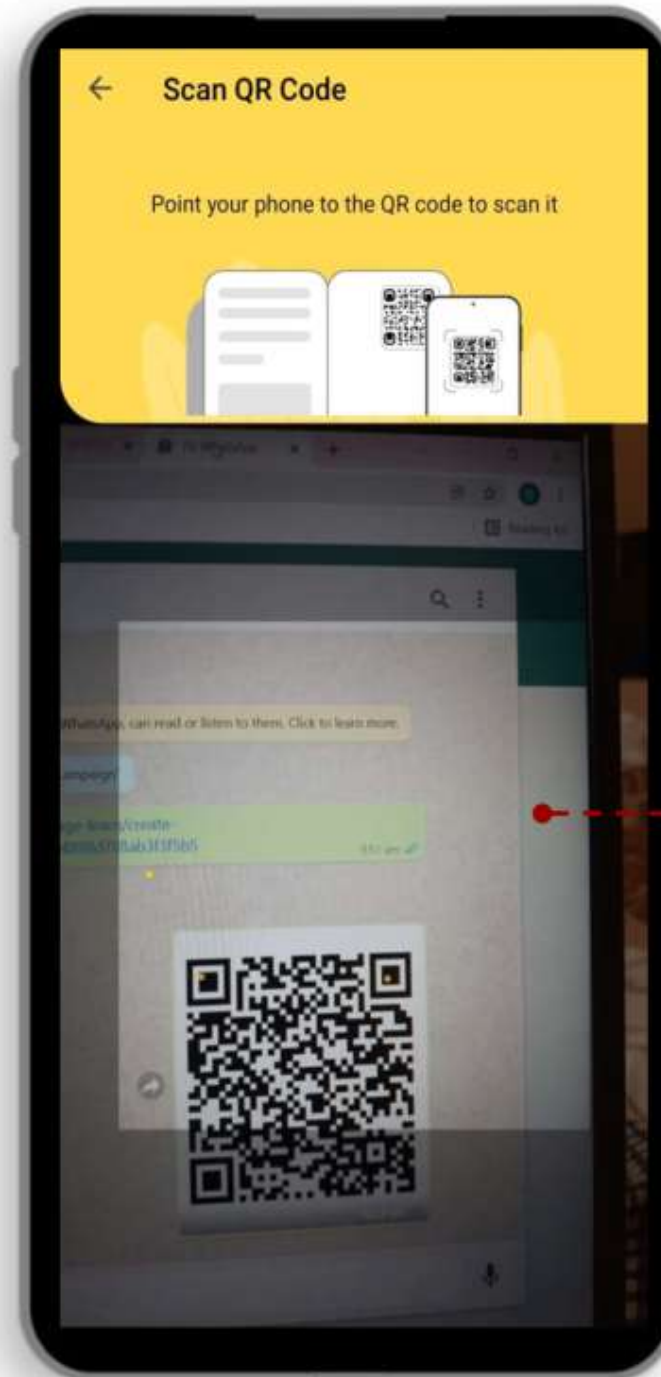


If you are logged in, the link will take you to the project. Click on 'Start Improvement' to begin your Project

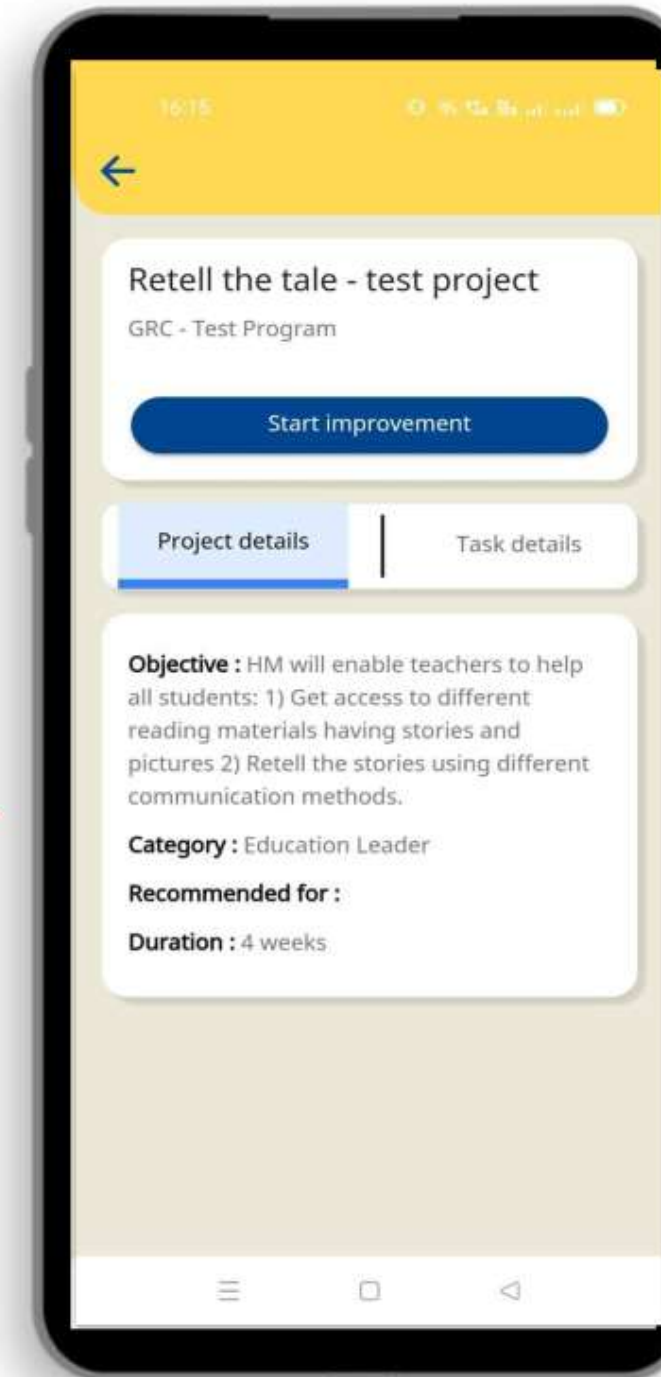
Accessing Projects via QR Codes



Click on the QR code scanner on the Home Page



Scan QR Code using your phone



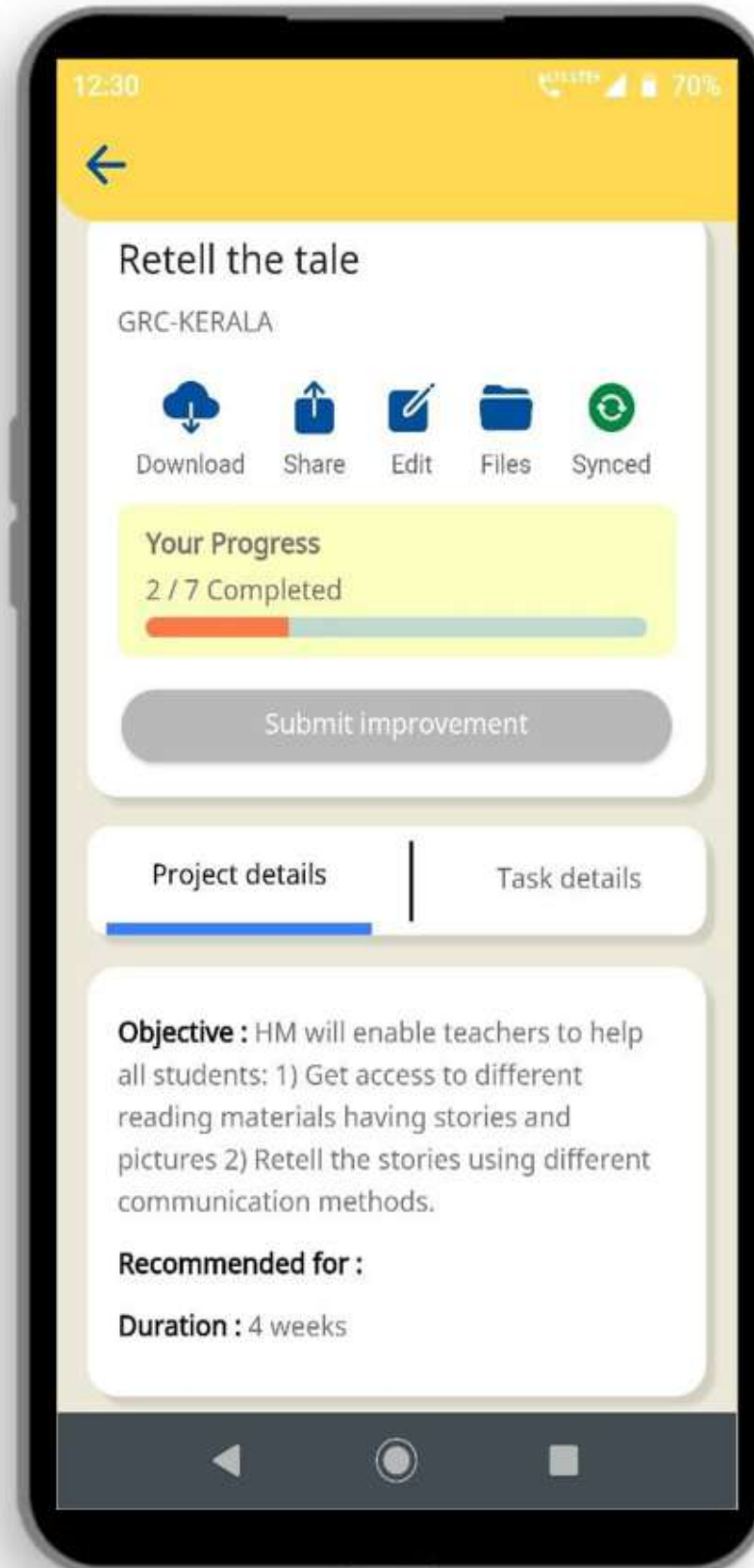
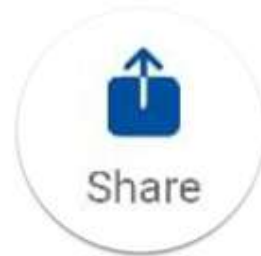
If you are logged in, the link will take you to the project. Click on 'Start Improvement' to begin your Project

Features of the Improvement Project Panel

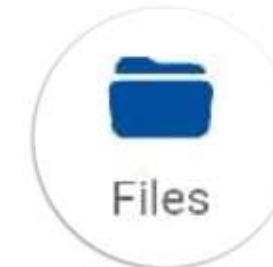
Download button - You can download and access for offline use.



Share button - enables sharing of the project in pdf format with others



Sync button - syncs the project progress

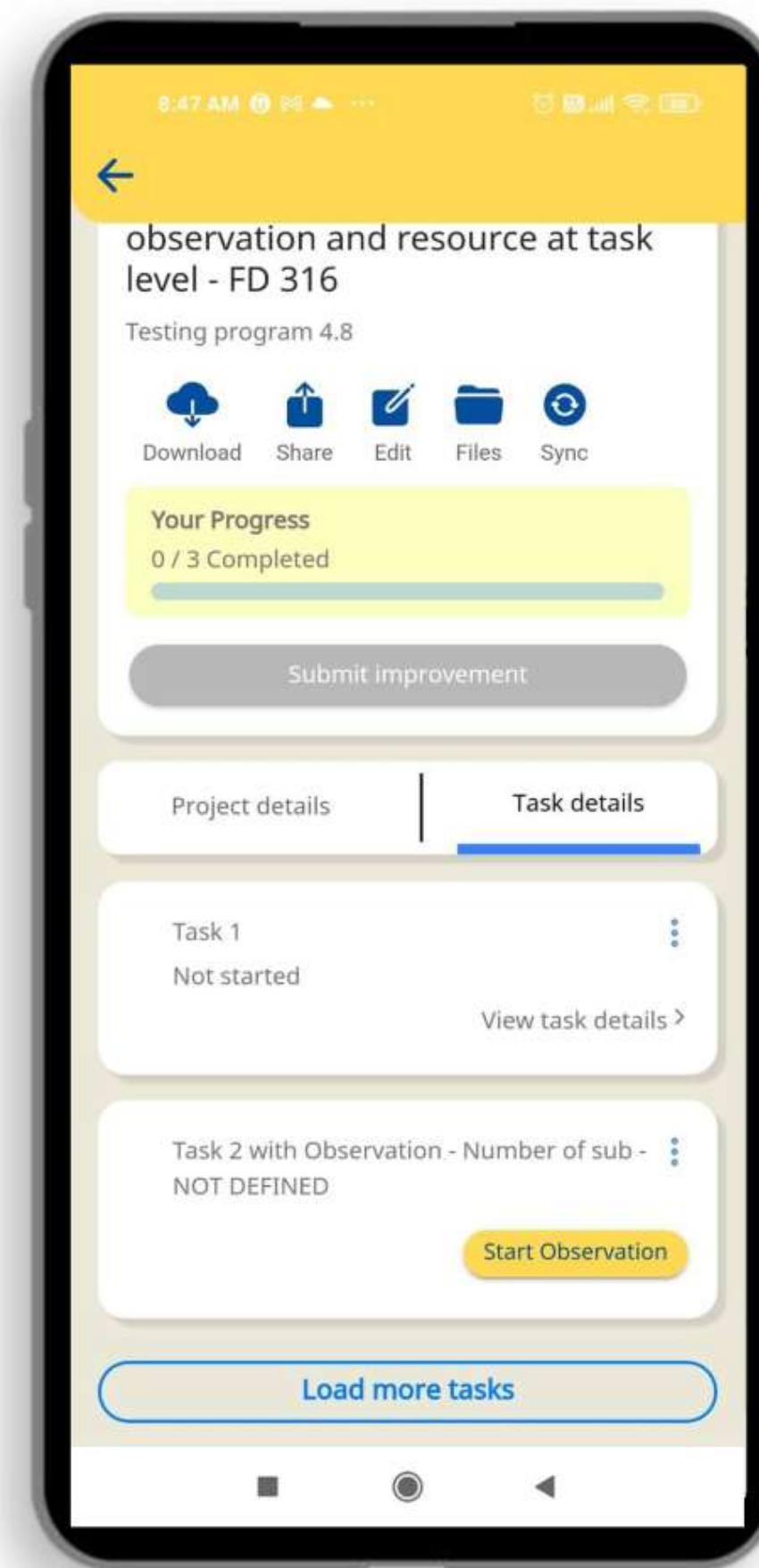


Files button - Shows all the evidence (images/files/links) attached to the project during task and project submission

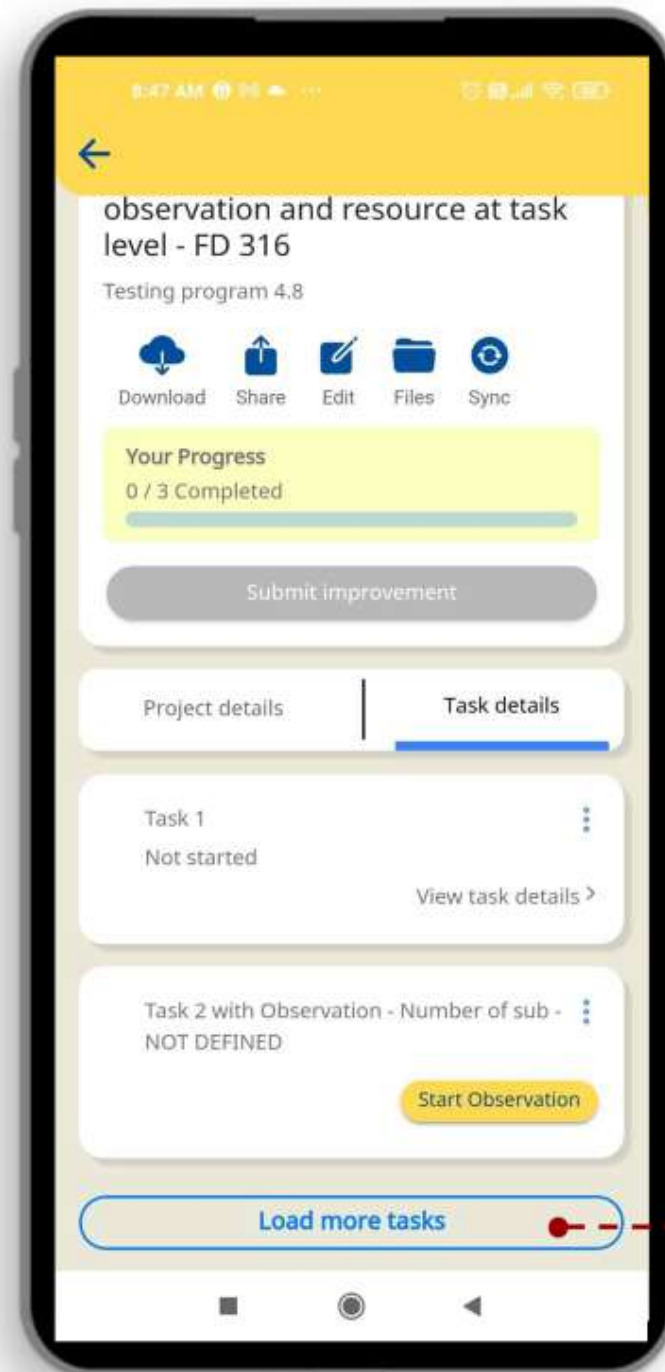


Edit button - Allows editing of the project details

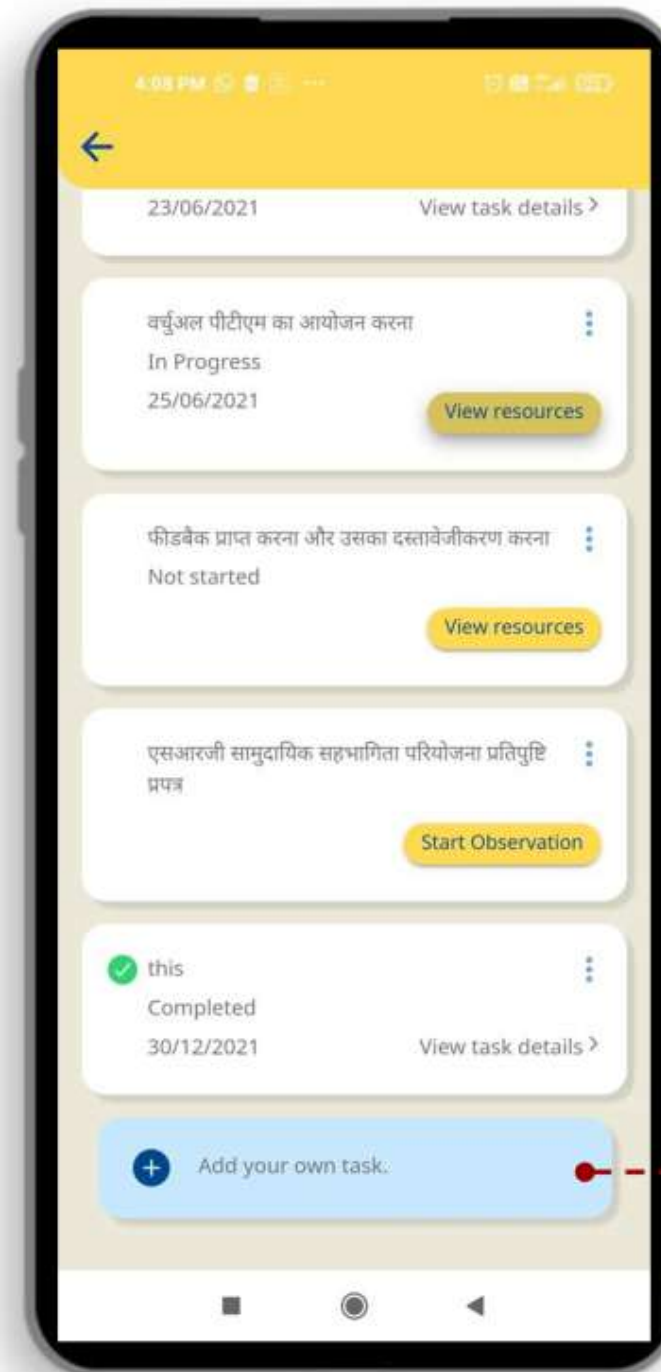
Tasks in a Project



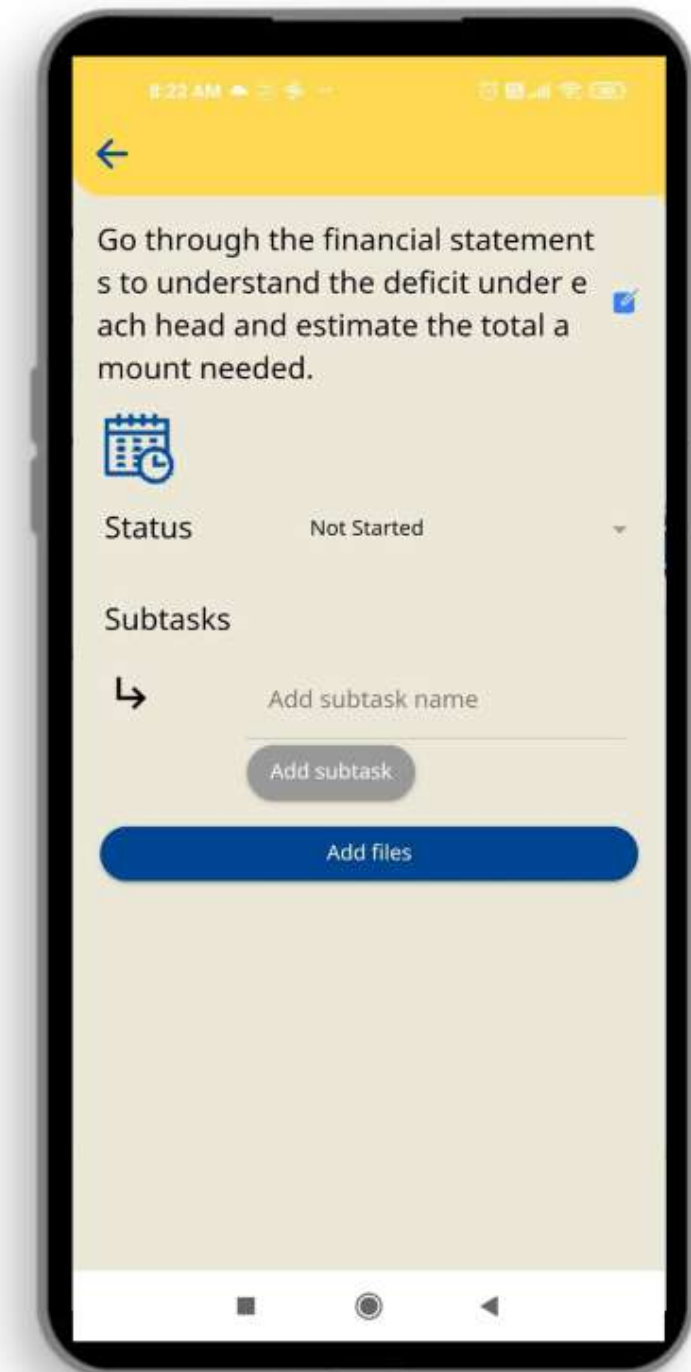
Task Details



View all the tasks listed under your Improvement Project. Click on 'load more tasks' to view all tasks

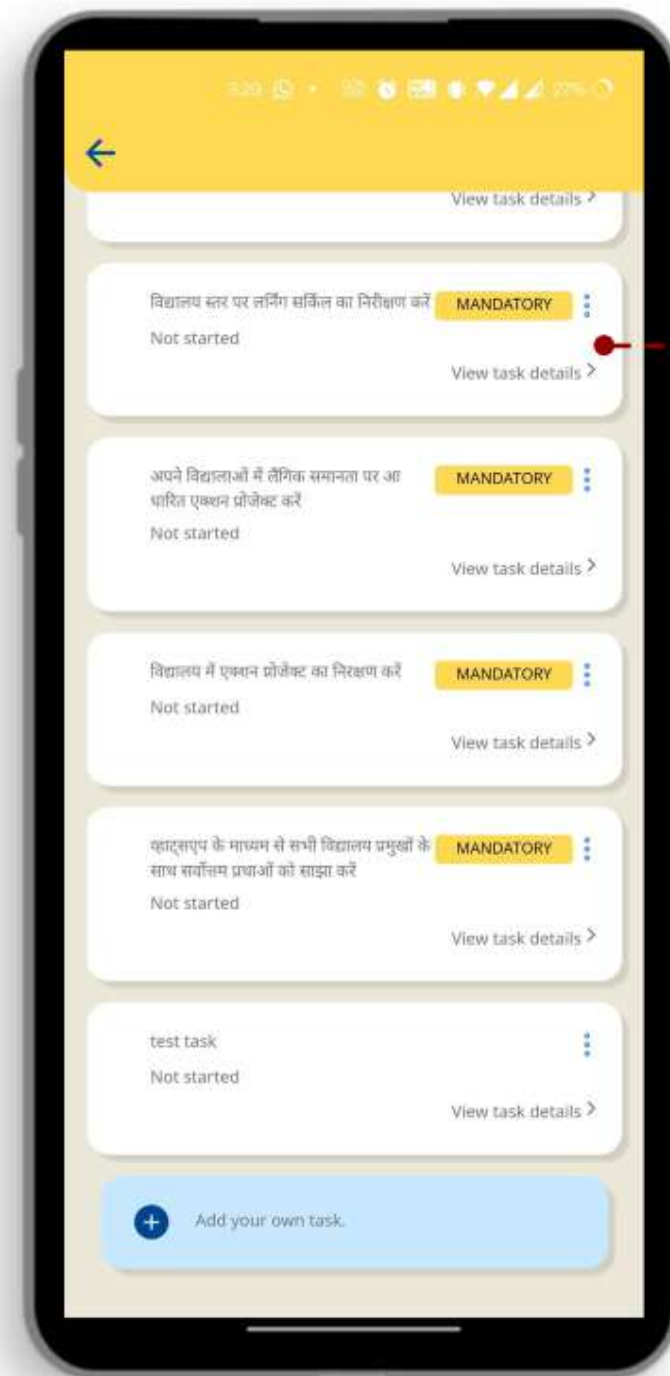


Scroll down to the bottom of the page to add your own tasks to any project

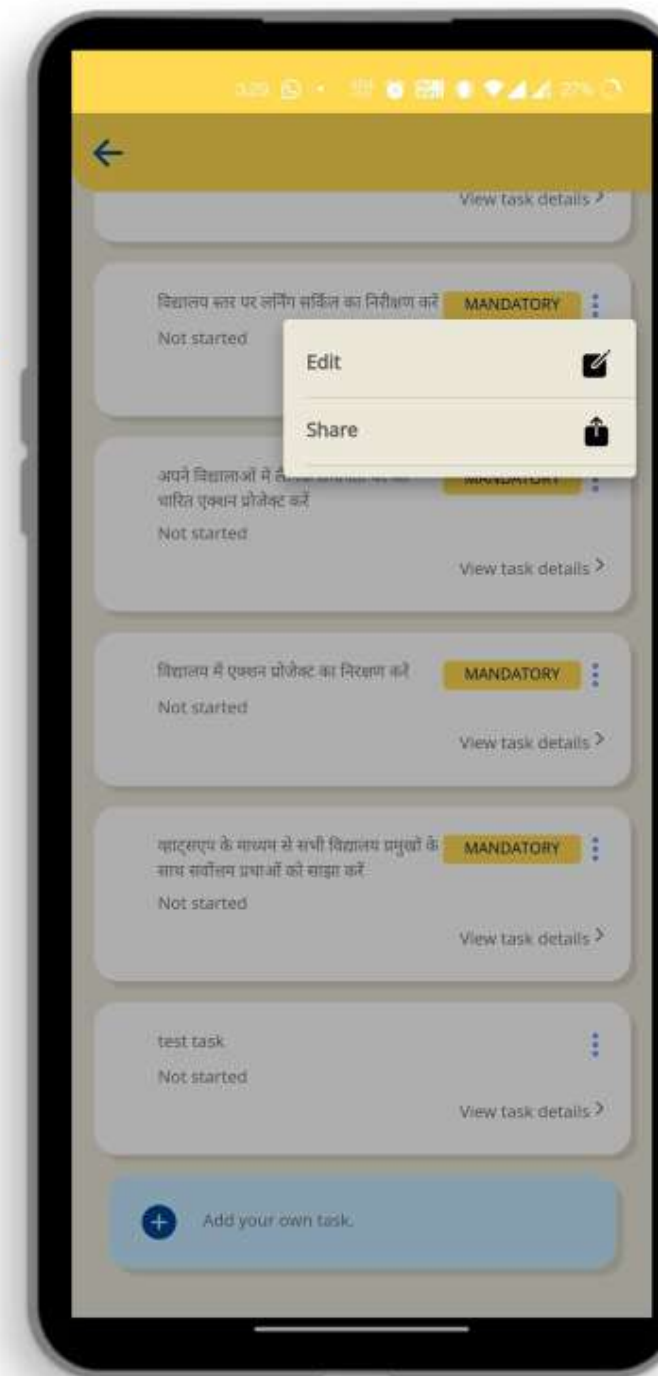


Click on any task to update its status, add subtasks or add evidence (images, files, links) to supplement completion of your task

Mandatory Tasks

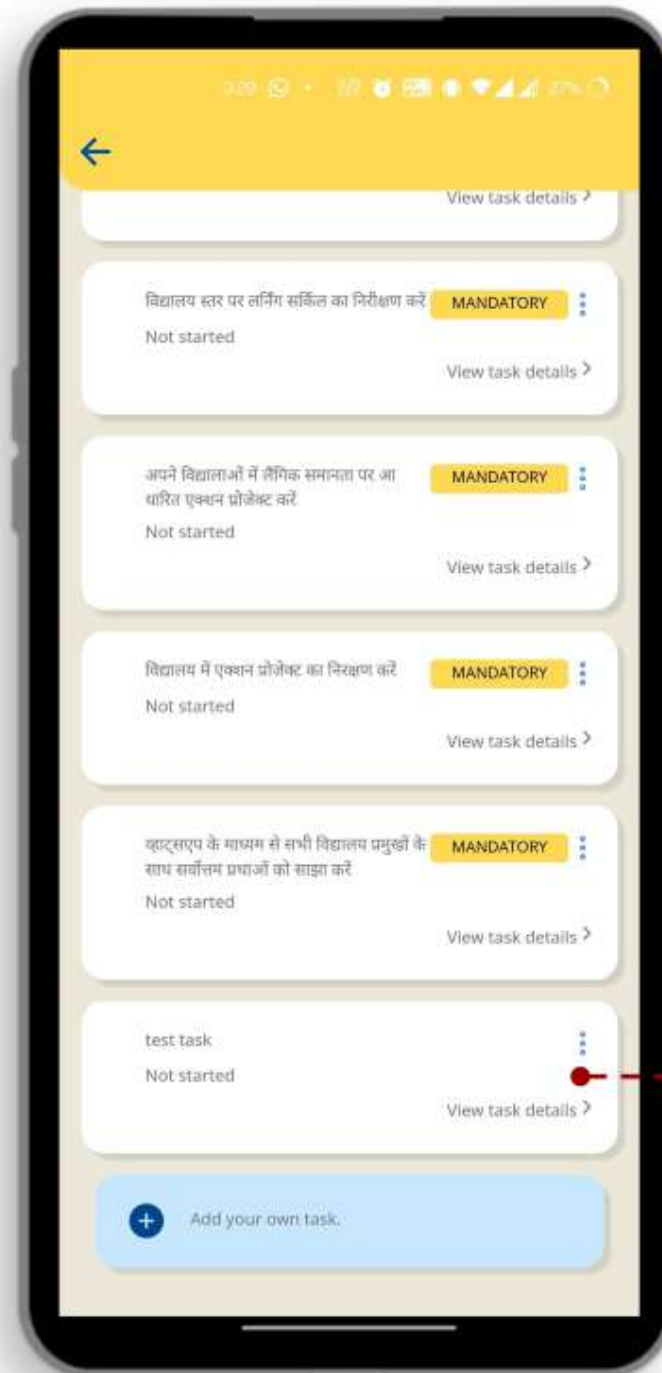


Tasks marked 'mandatory' cannot be deleted or edited by the user.

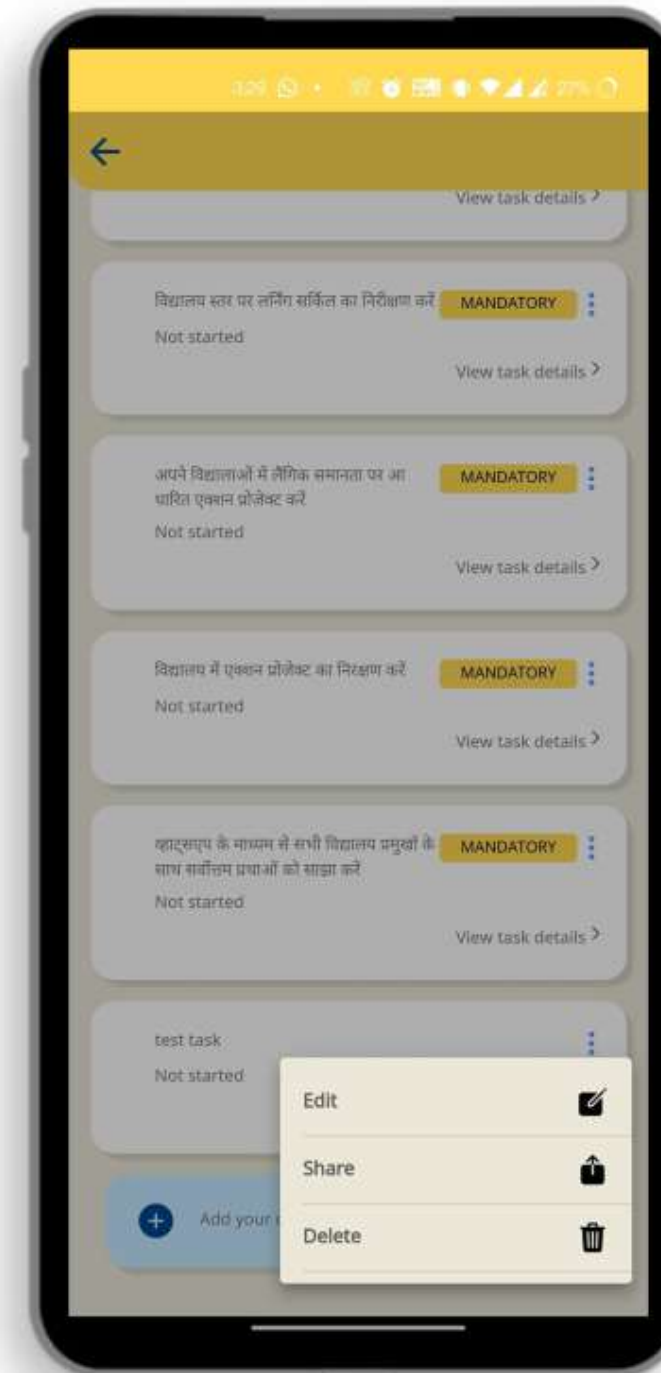


You can share any task by clicking on the 3 dots that appear beside each task.

Non-Mandatory Tasks

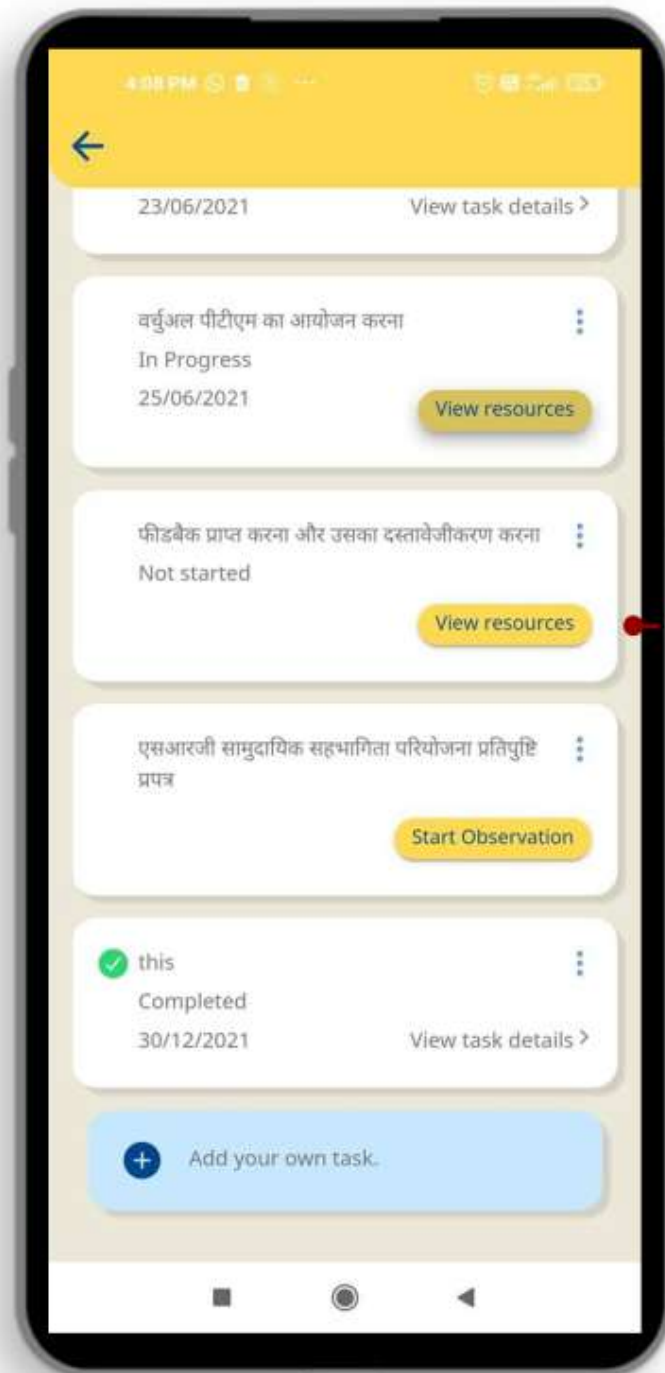


Tasks that are not marked 'mandatory' can be deleted or edited by the user

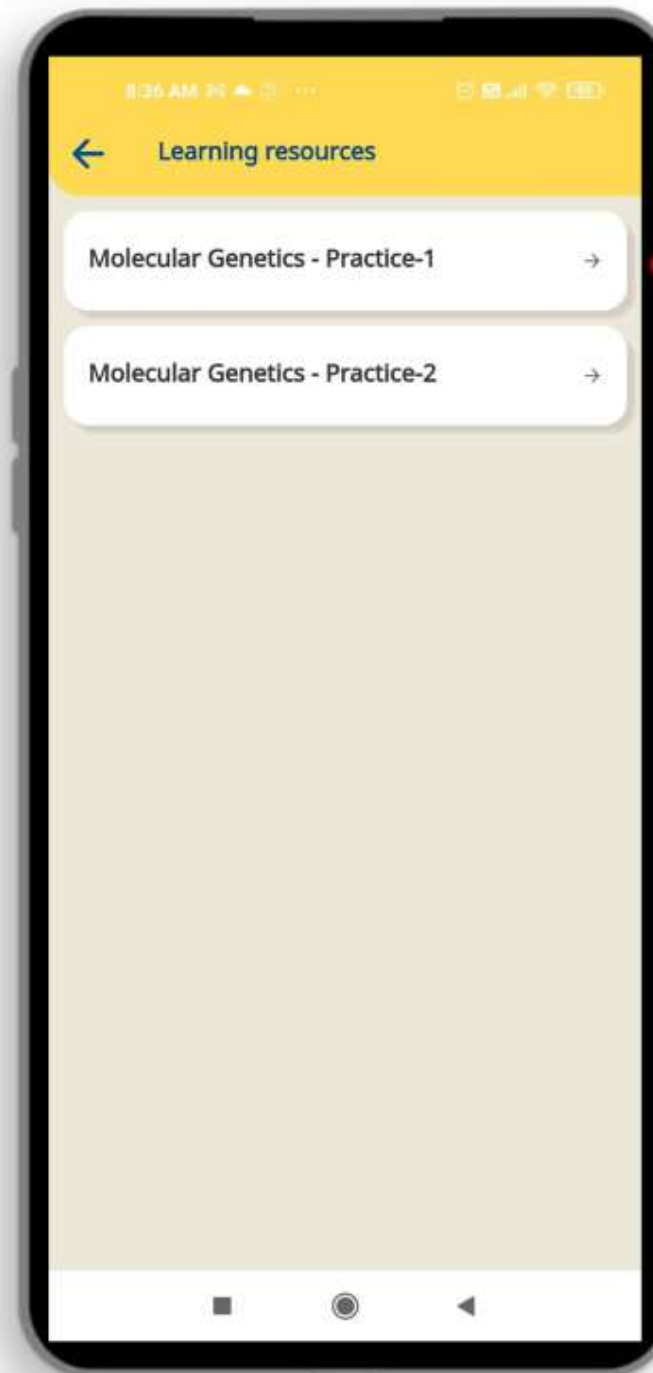


You can edit, delete, and share any non-mandatory task by clicking on the 3 dots that appear beside it.

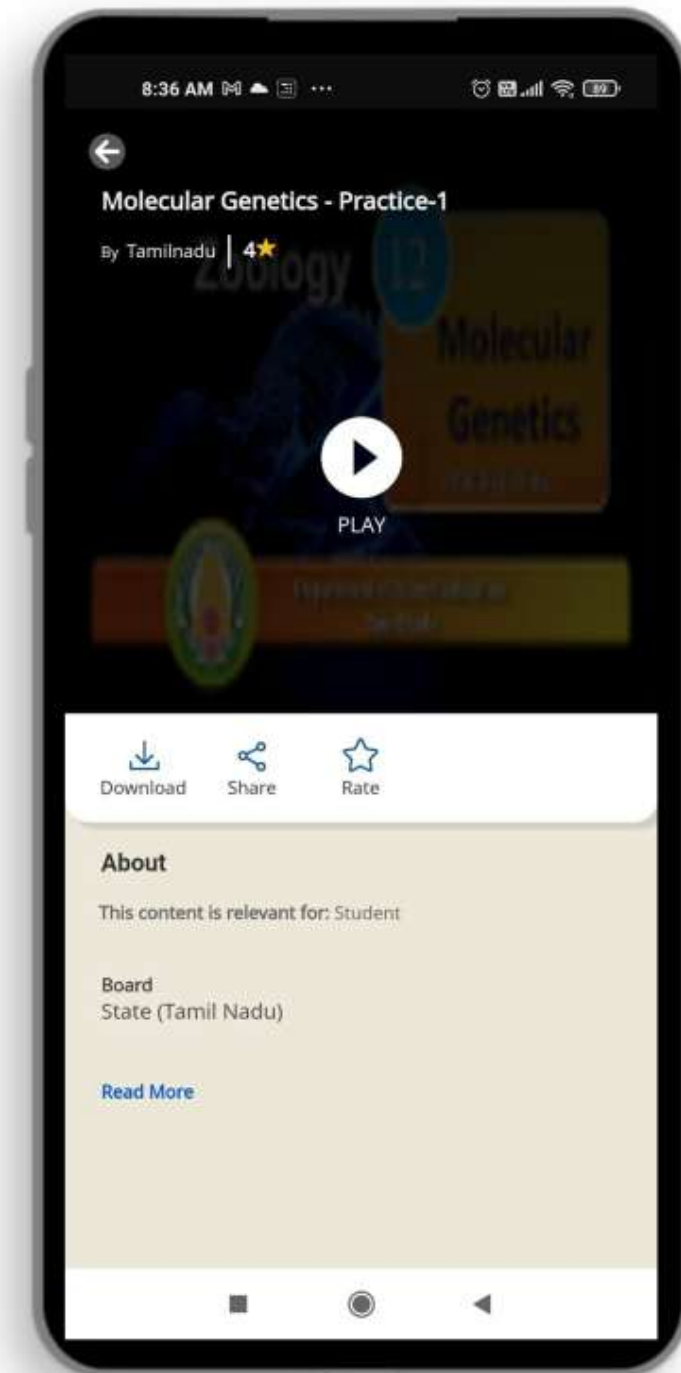
Tasks with Learning Resources



Some tasks have learning resources attached to them. Click on 'View Resources' to access it

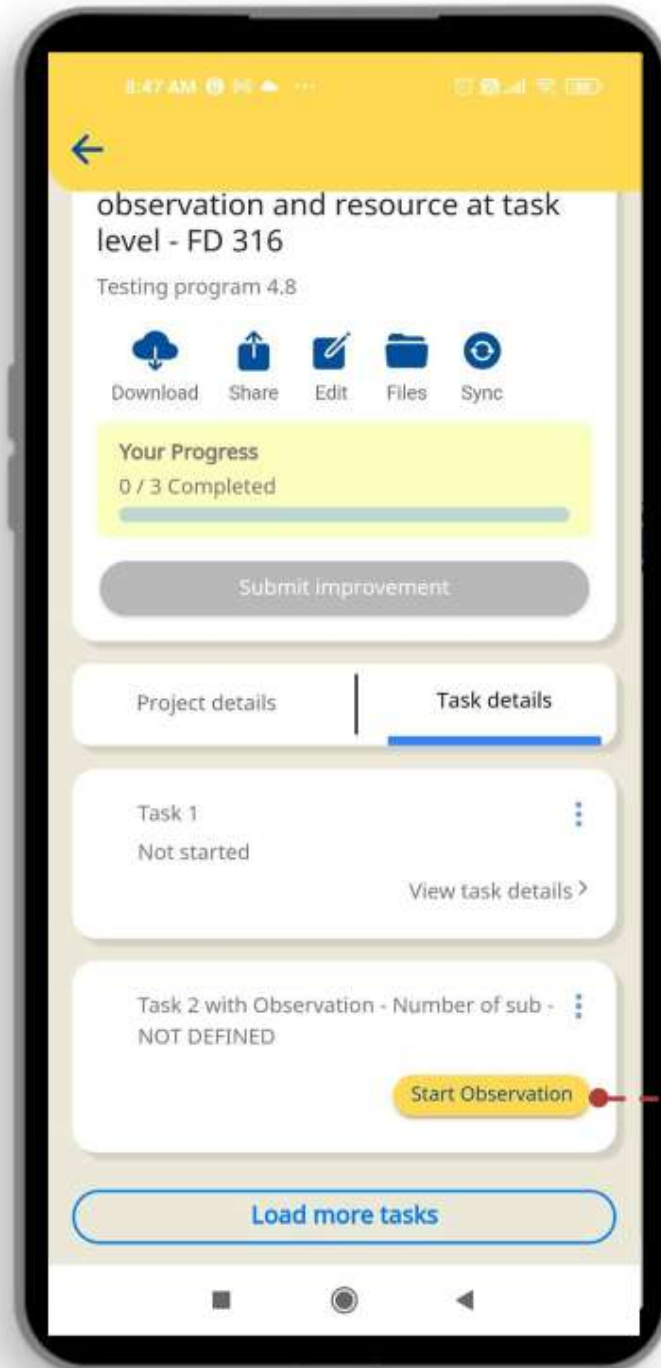


Find the list of resources attached to the task. Click on the resource to view it



Carry out your improvement task after gaining a broader understanding through the learning resources

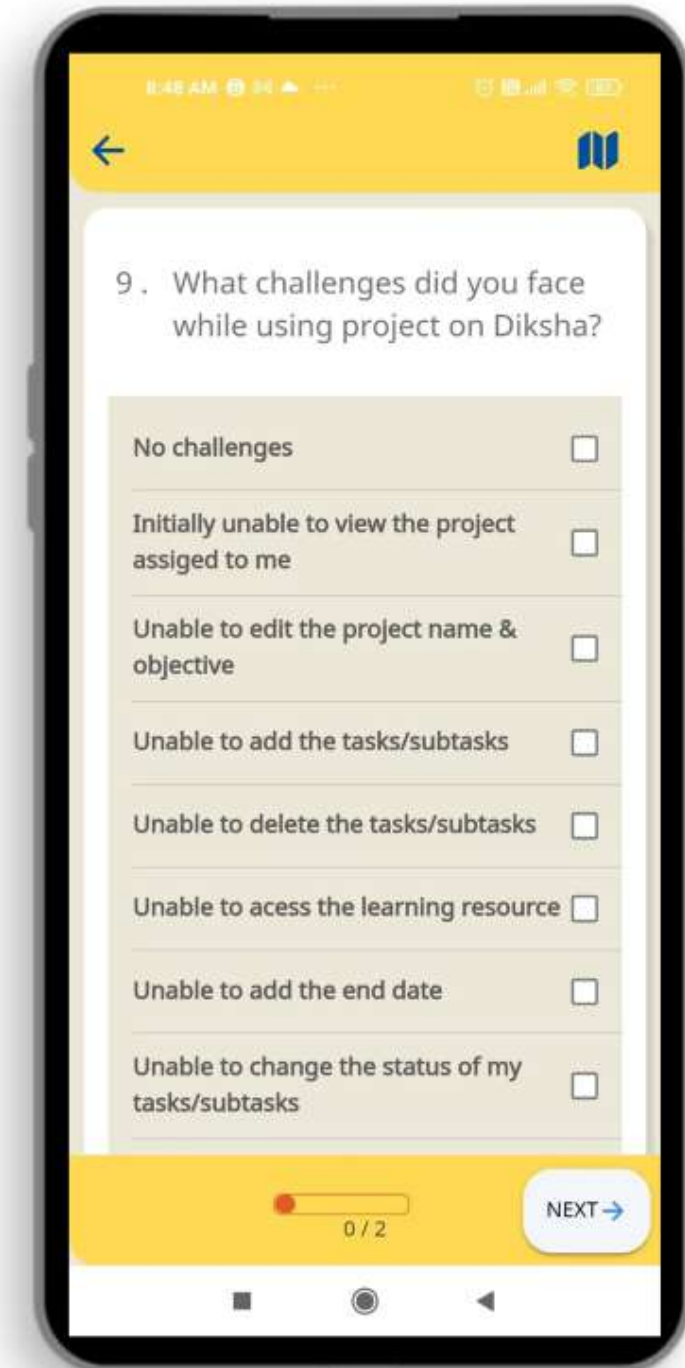
Tasks with Observation



Some tasks have observation attached to them. Click on 'Start Observation' to access it

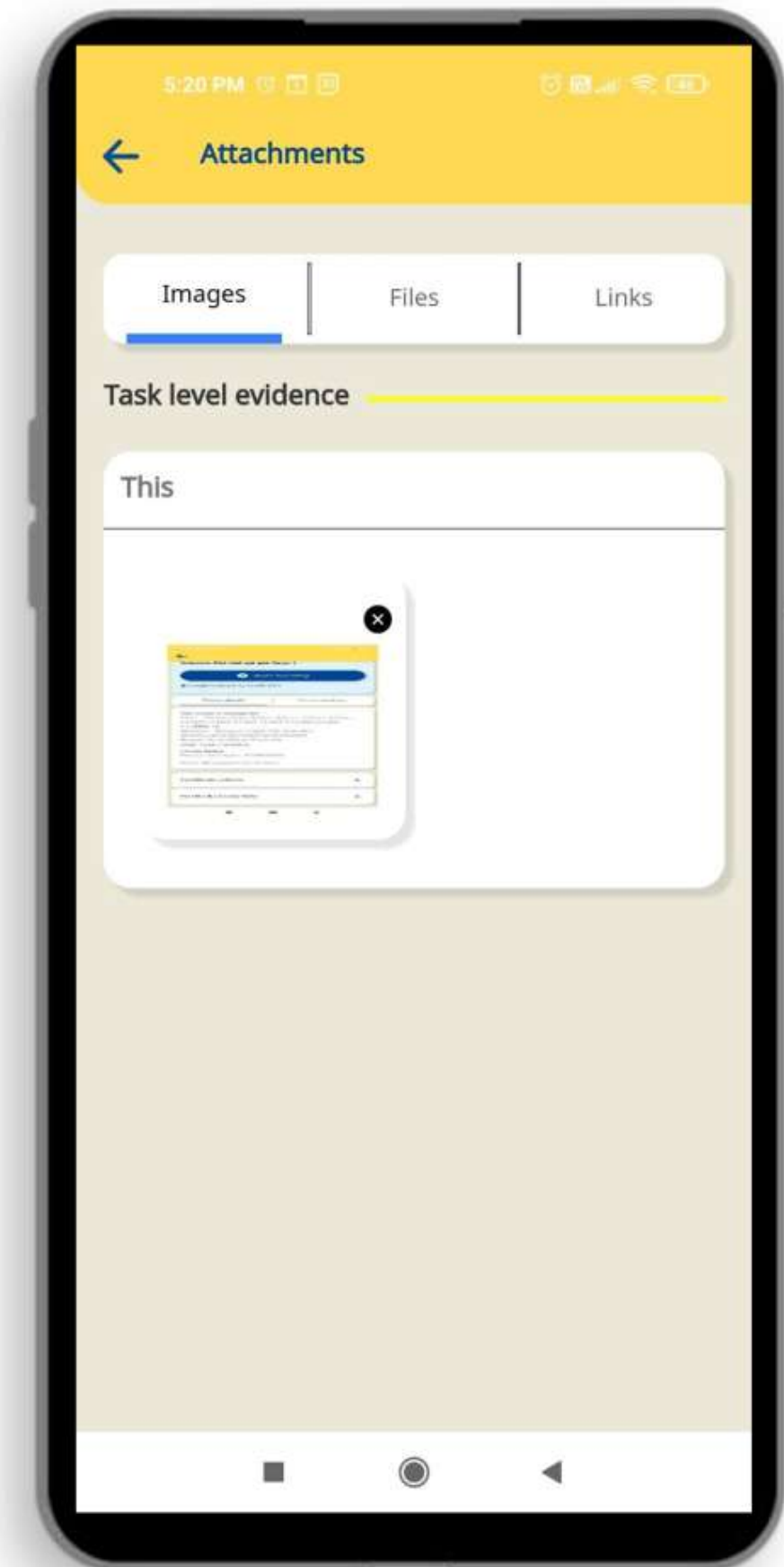


Find the observation forms attached to the task. Choose the observation instance or view/ fill form

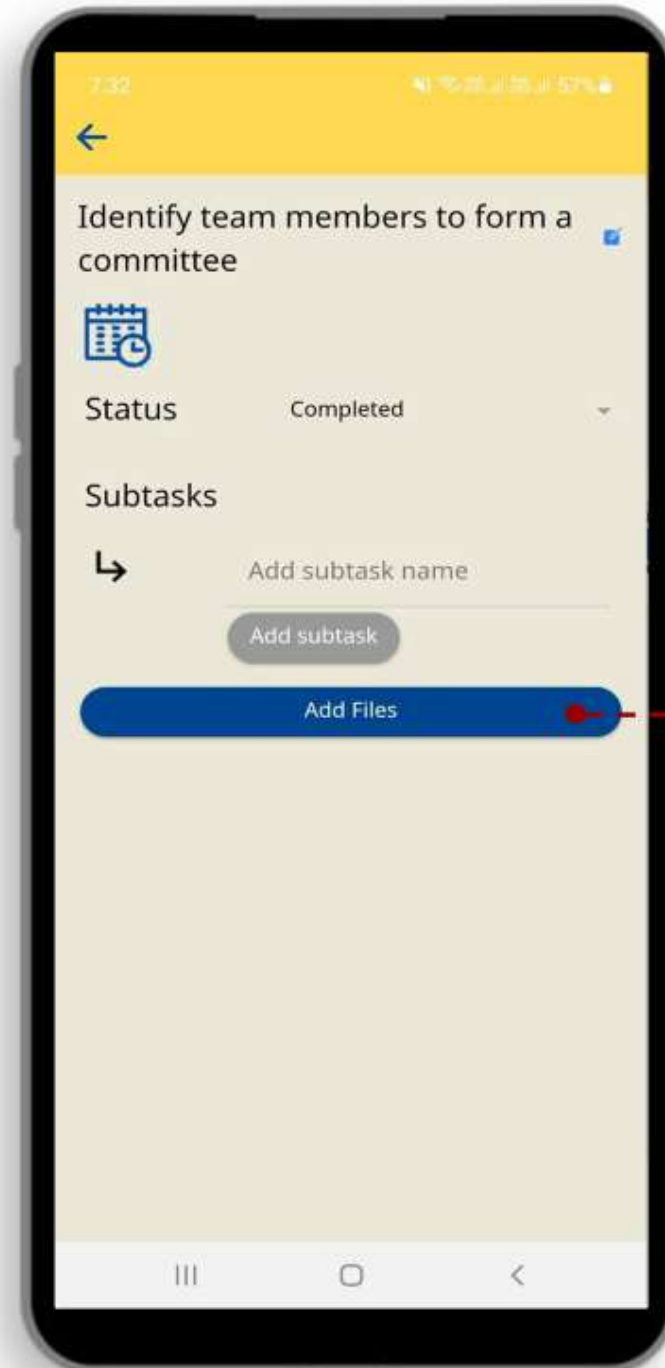


Fill and submit the observation to complete the task

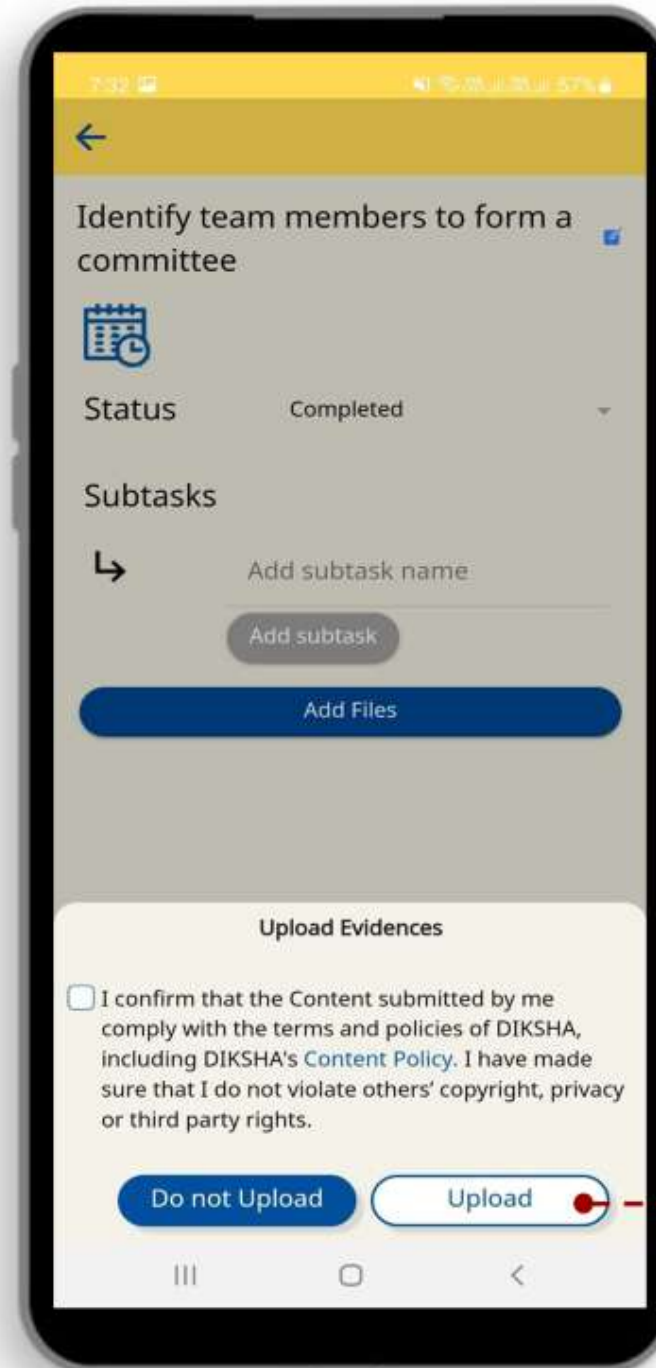
Evidences in a Project



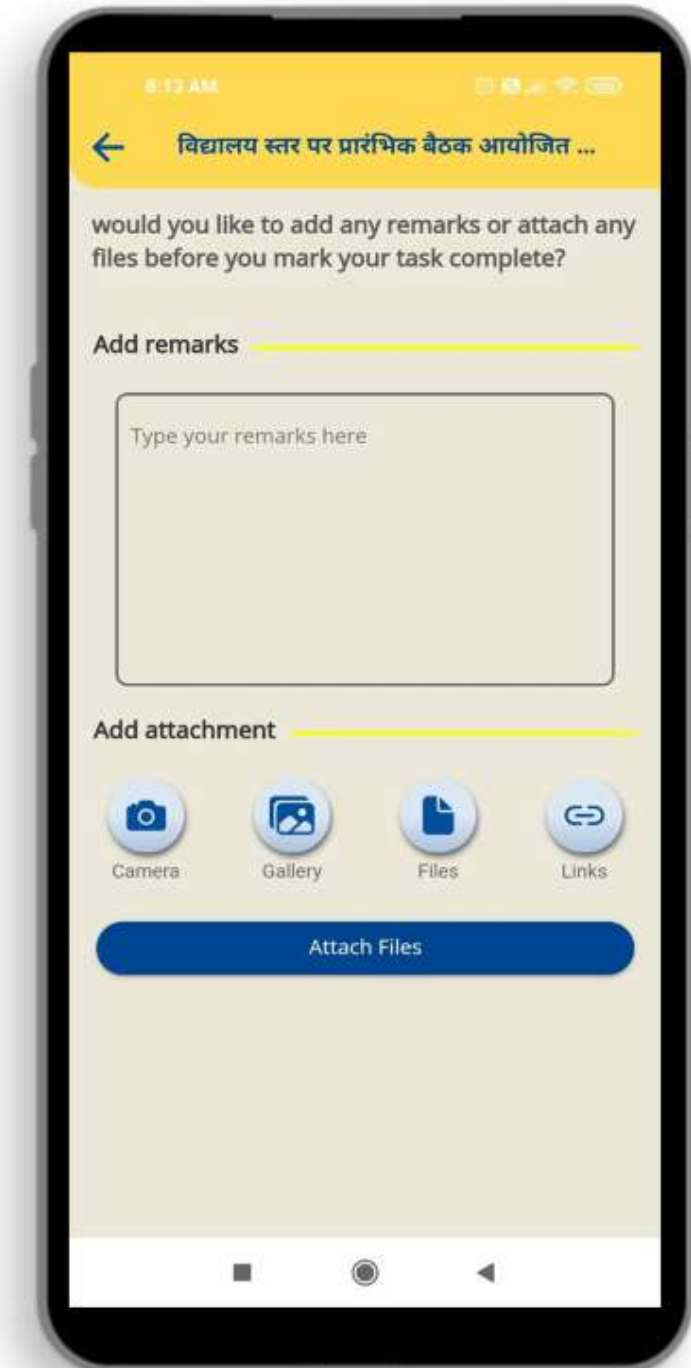
Add evidences at a Task Level



Click on 'Add Files'

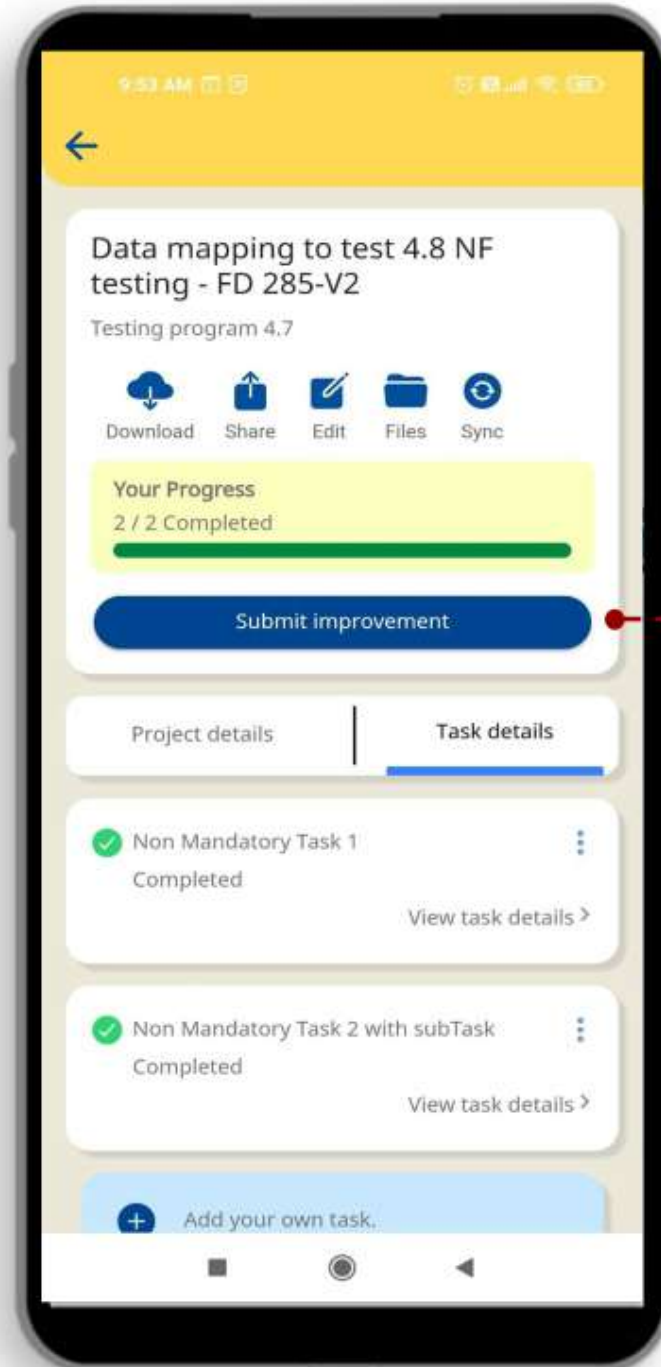


Accept the terms and conditions on the pop-up and click on 'Upload'



Add evidences to your task, type your remarks and click on 'Attach Files'

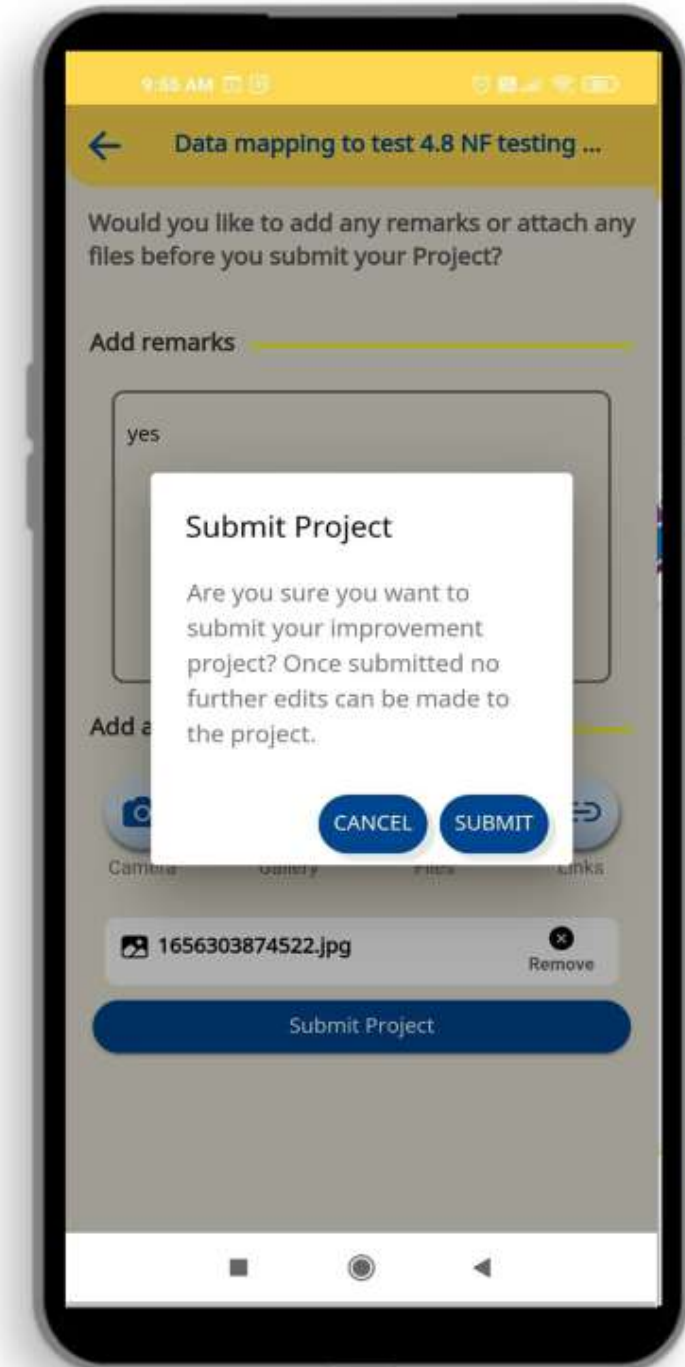
Add evidences at a Project Level



Once you have completed all your tasks, click on 'Submit Improvement'

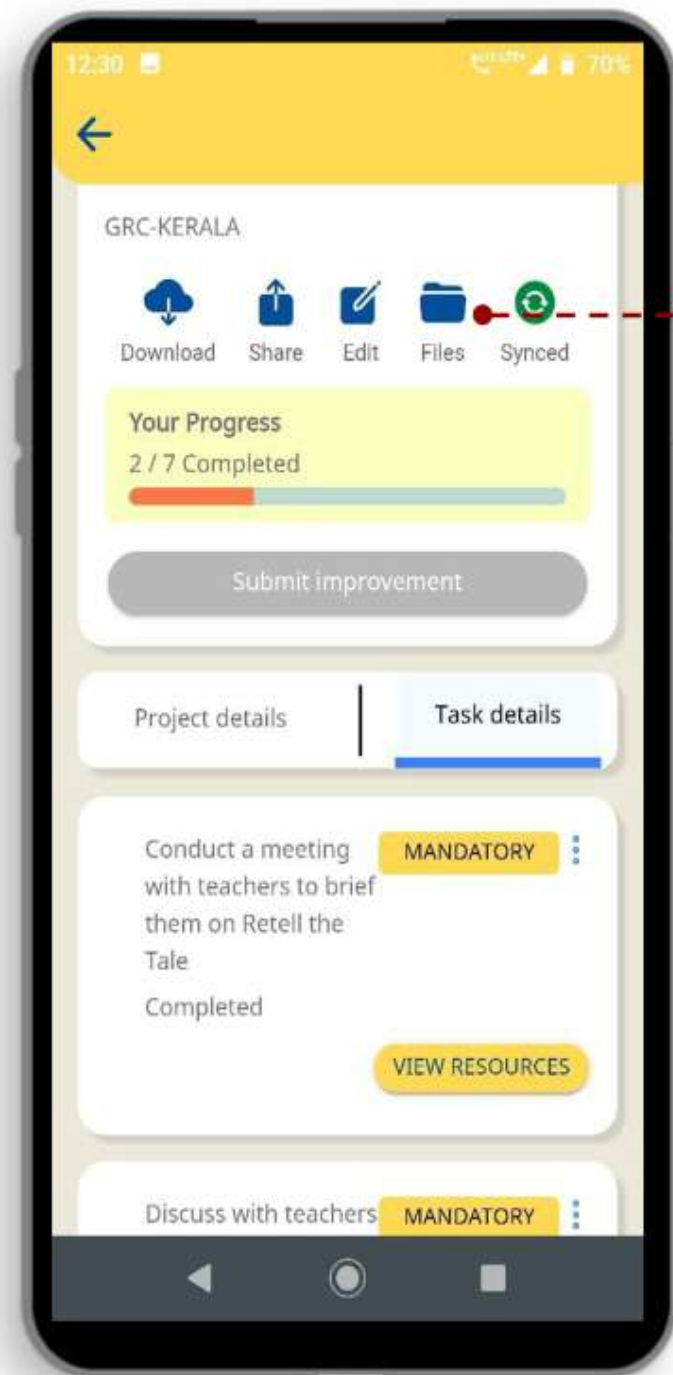


Before submitting the project, you will be prompted to add evidences one final time, then click on 'Submit Project'. You can choose to attach evidence or proceed without it



Click on 'Submit'. You will not be able to make edits to the project after submission

View Files

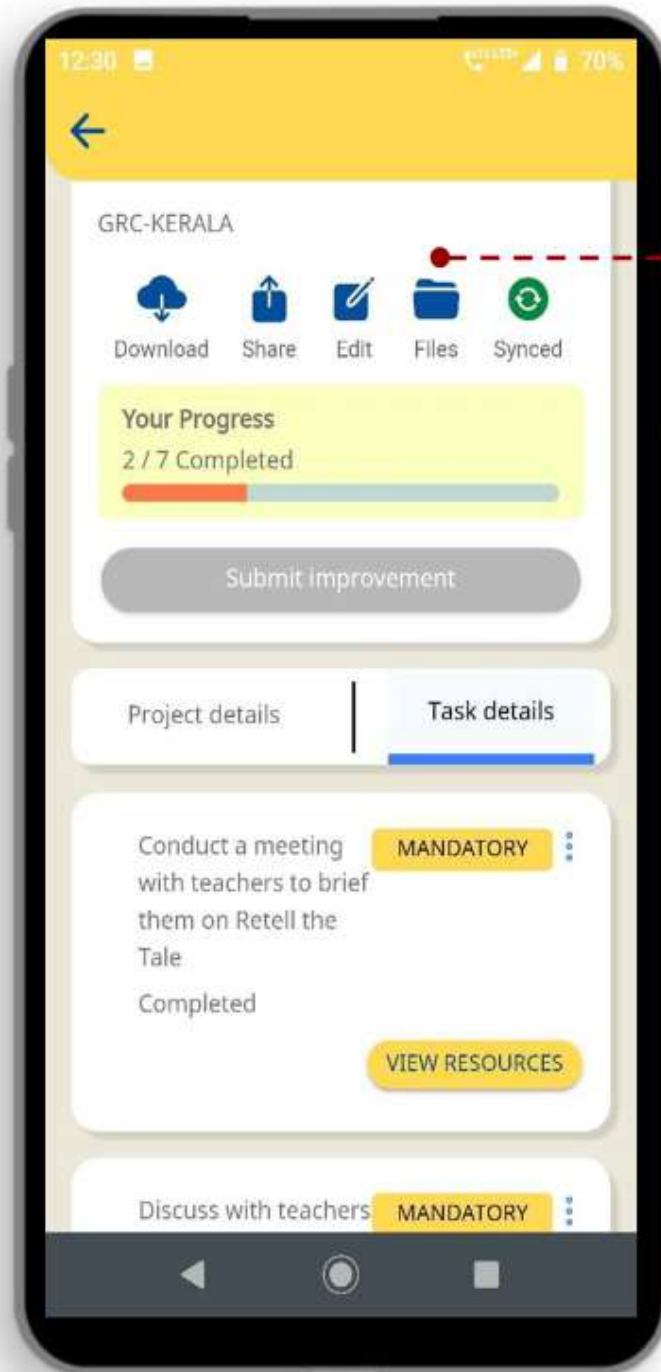


In the Project Panel, click on 'Files'

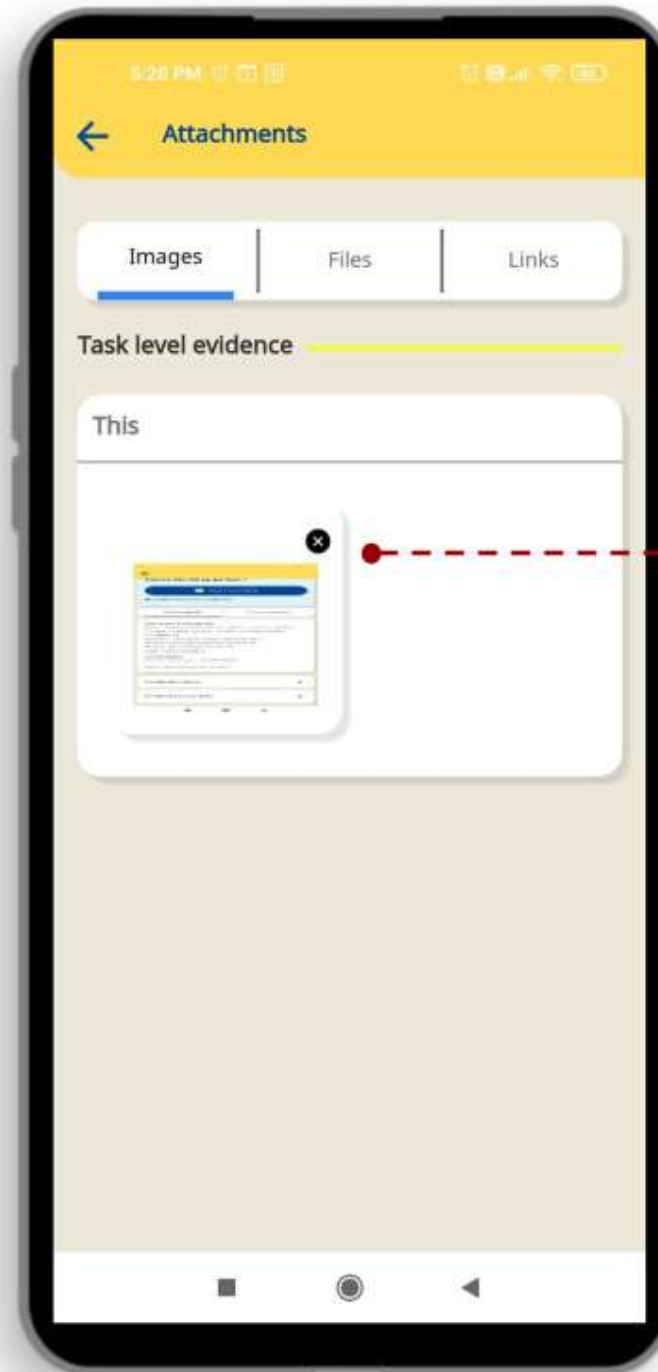


You can now view any Images, Files or Links that you have attached to your task or project

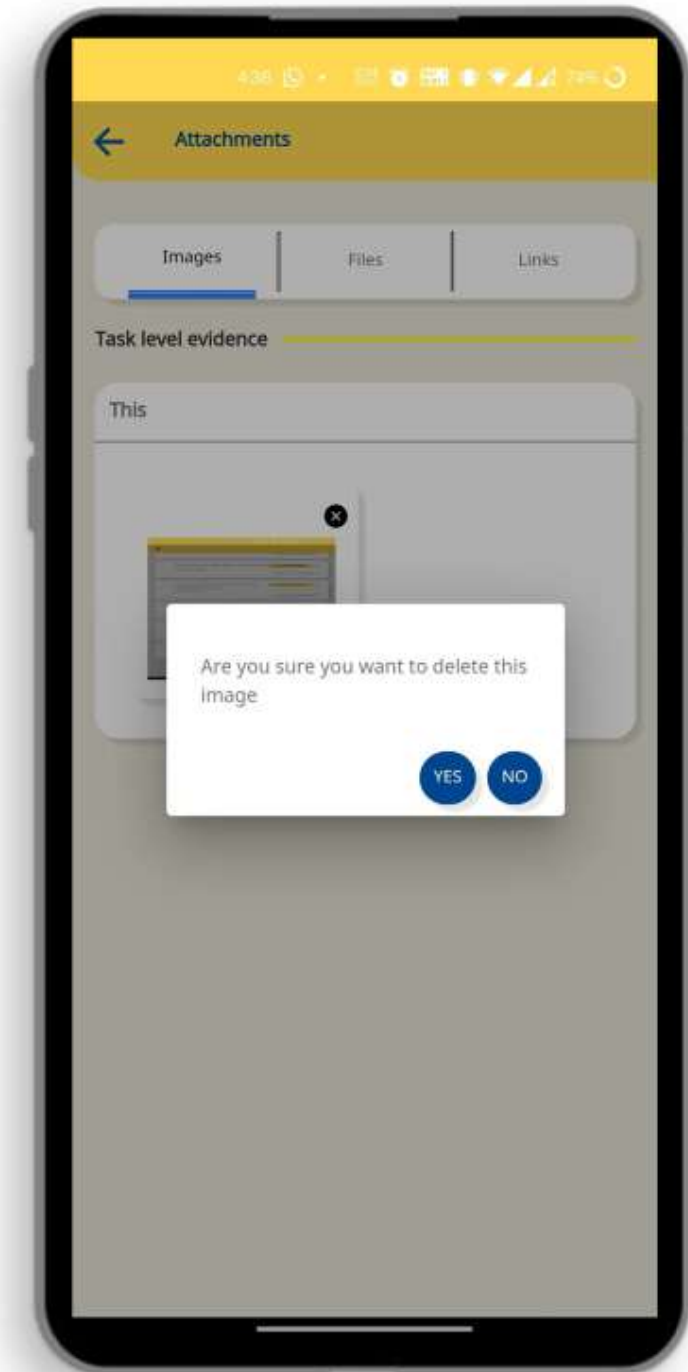
Delete Files after attachment



In the Project Panel, click on 'Files'



Click on the cross 'x' icon on the top right corner of the image to remove it

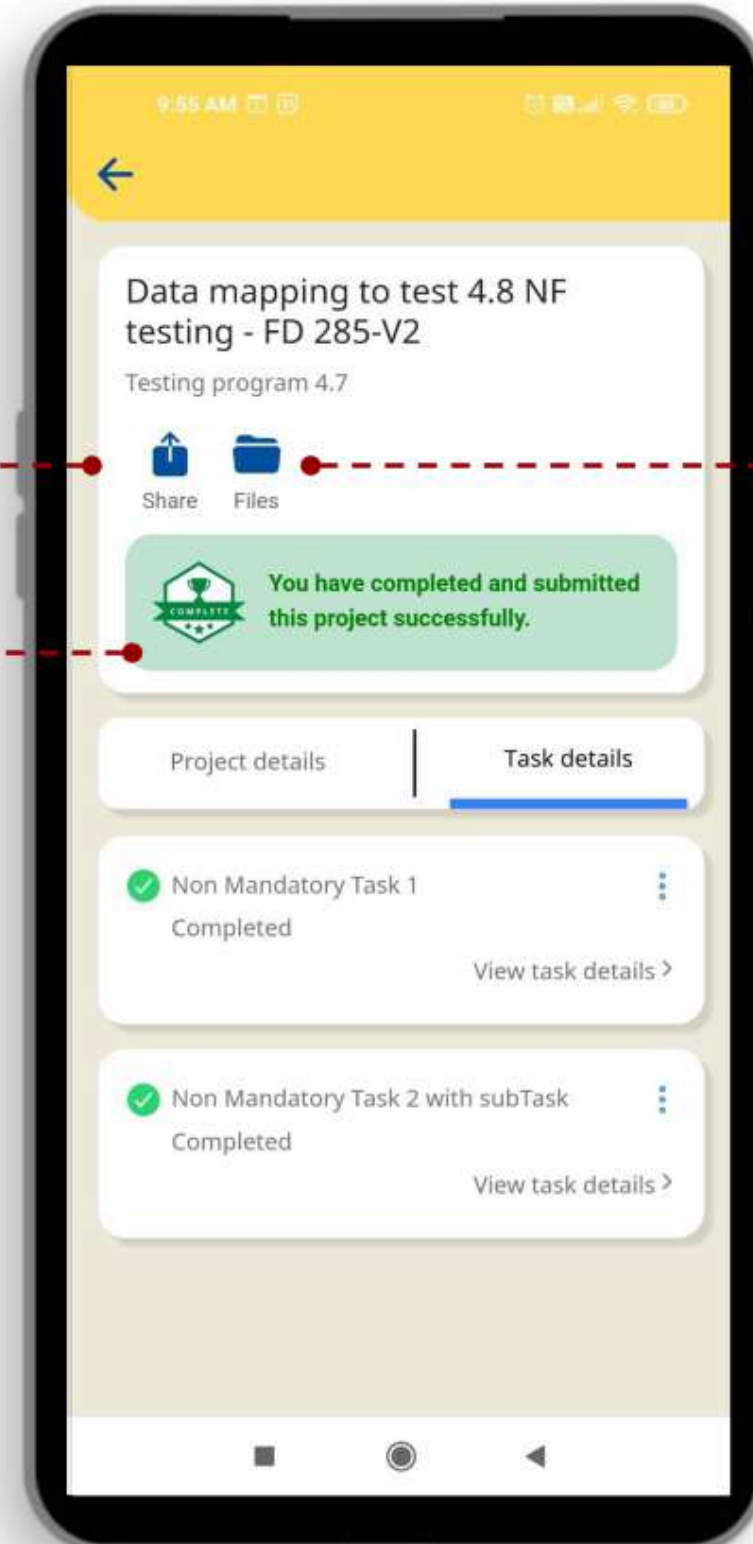


Click on 'yes' to delete the attachment

Submitted Project

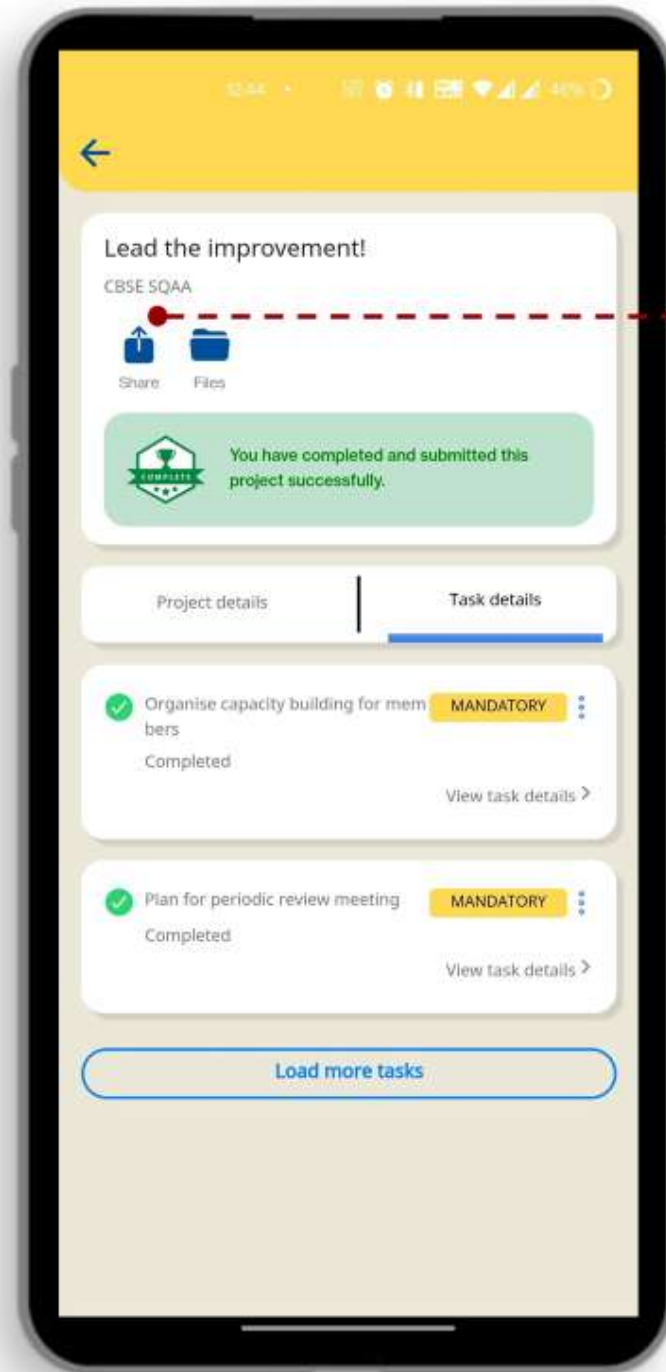
You can share your project with using the **share option**

Once you submit your project, you see a submission text on the screen.

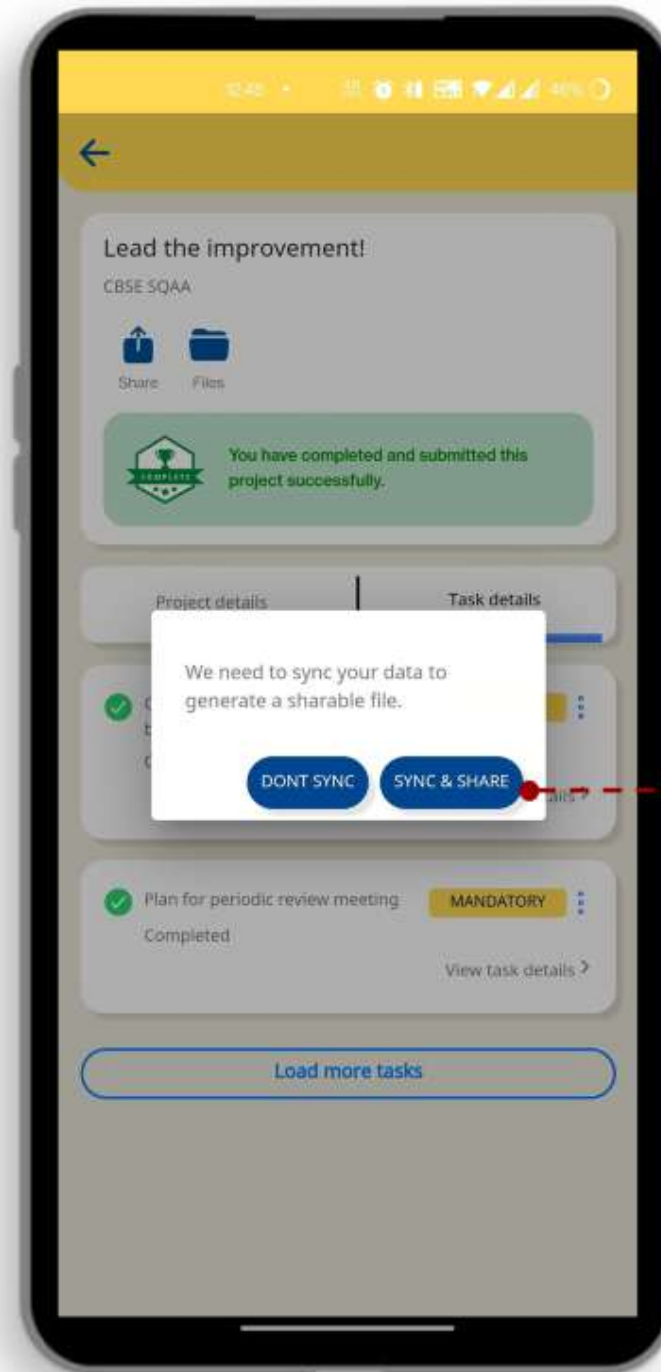


You can view the evidence attached in the project from **files option**

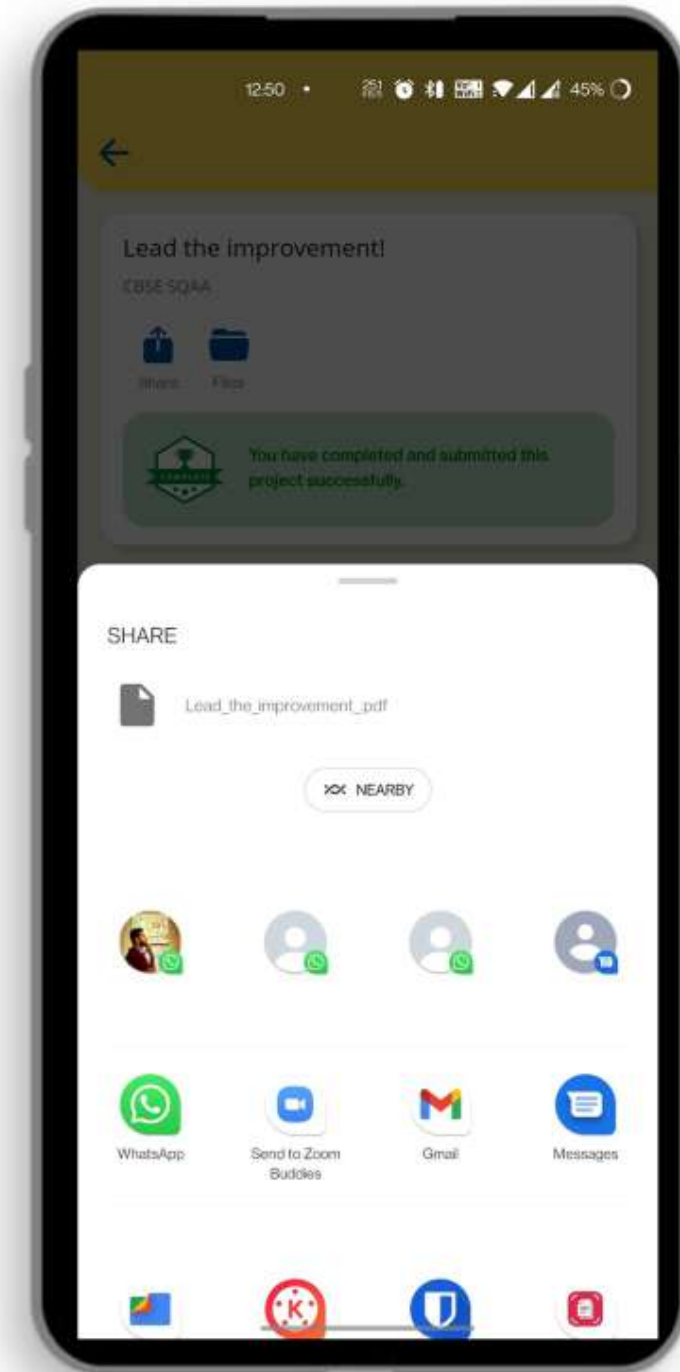
Share Project as PDF



In the Project Panel, click on 'Share'

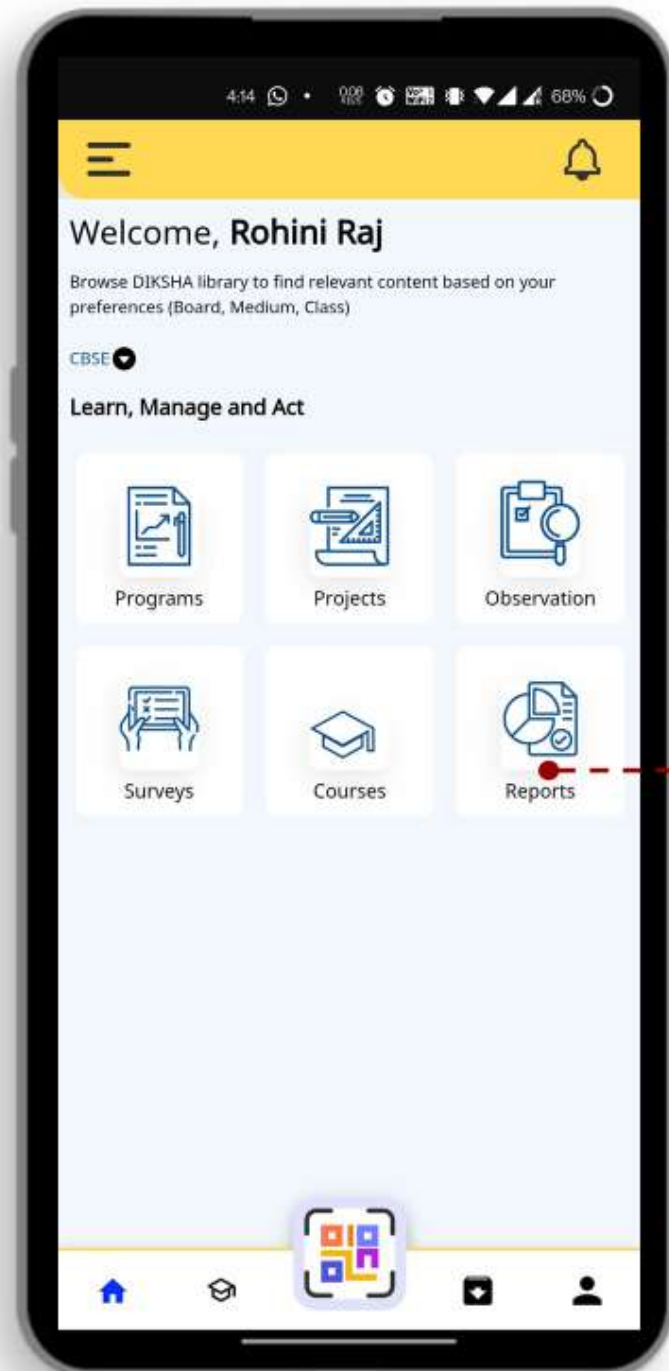


Click on 'Sync and Share' to sync your project progress while sharing the project as pdf

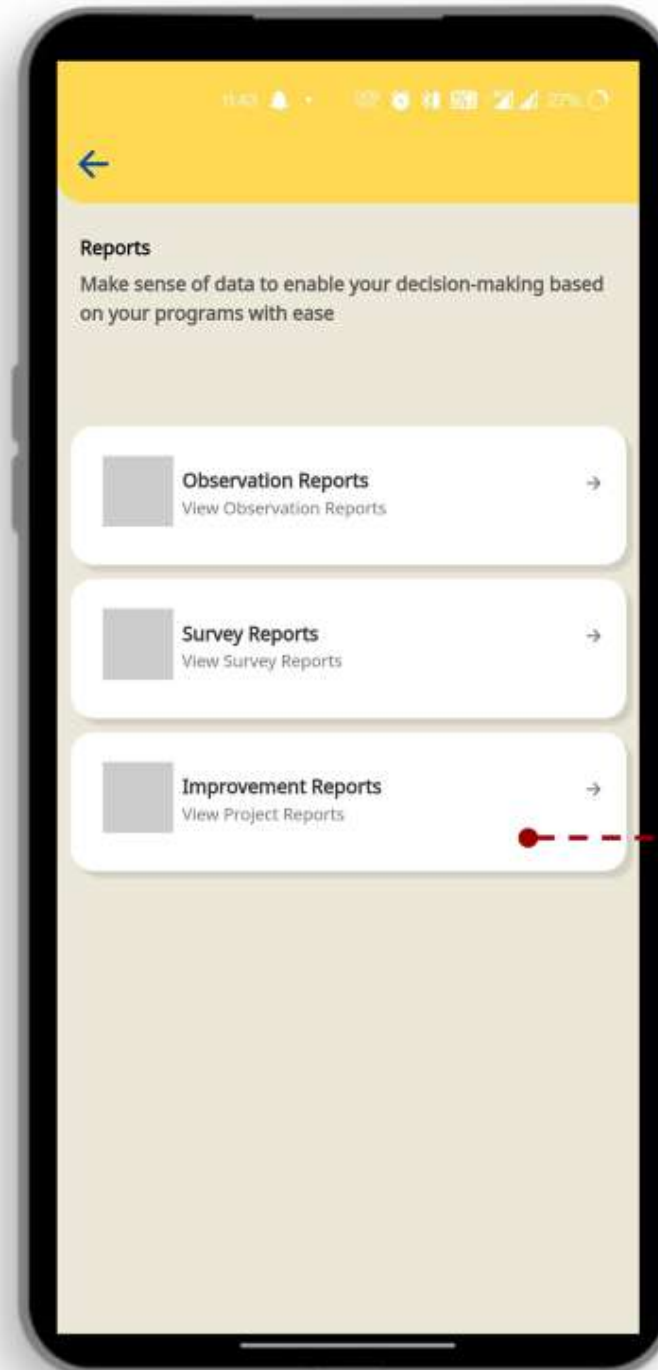


Share your project pdf

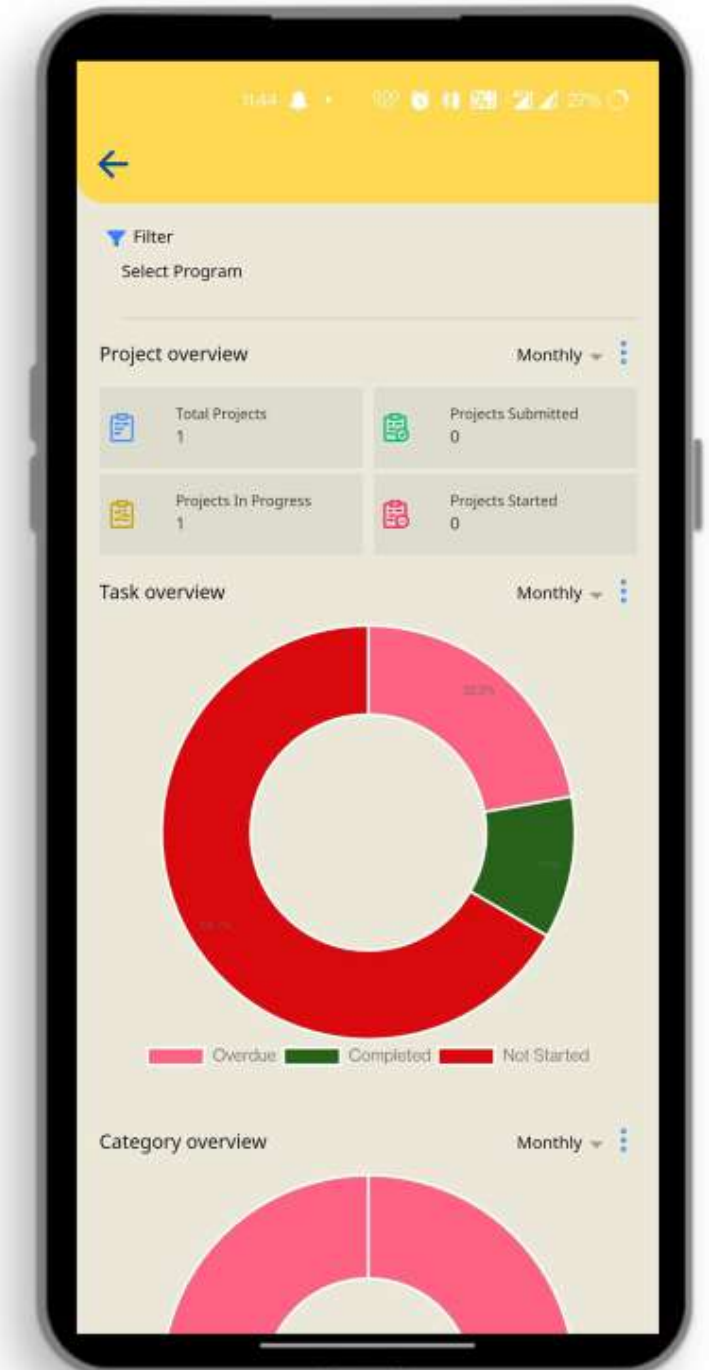
View Project Report



Click on 'Reports tile in the Home Page



Click on 'Improvement Reports'

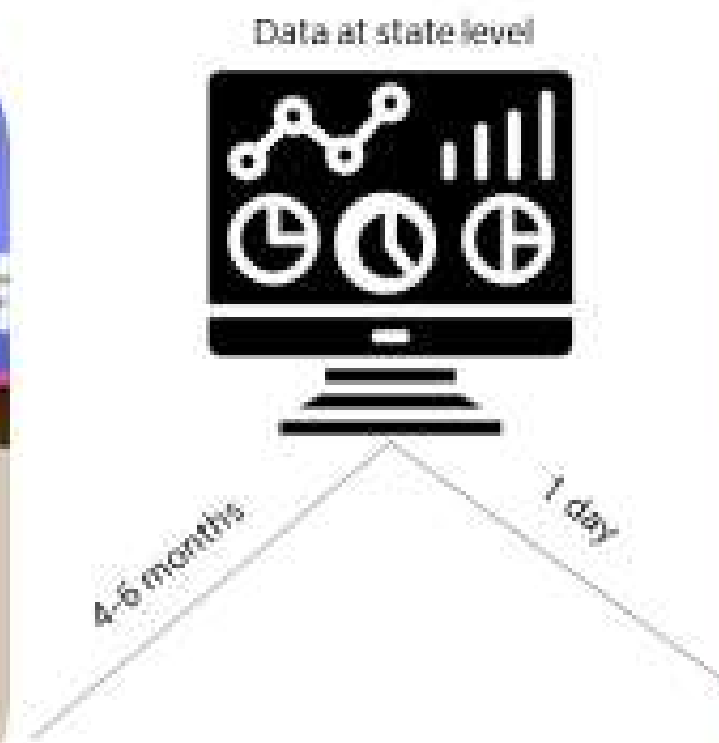


You can now see a consolidated report of all your projects

SARAL

Simplifying Assessments for Schools

Data Collection in physical format is a cumbersome process..



..Saral App provides the 'Speed and structure'









VIDYA SAMIKSHA KENDA


Harnessing power of open source to improve governance & Program Outcomes




← → ↻ 🏠 🔒 <https://vsk.ndear.gov.in/#/dashboard> 🔊 ⭐ ⚙️ ⌘ 🗑️ 👤 ⋮

🇮🇳 भारत सरकार | Government of India A- A A+

-  NISHTHA
-  DIKSHA - ETB
-  Micro-Improvements
-  PM POSHAN
-  NAS
-  UDISE+
-  PGI
-  NIPUN Bharat









Ministry of Education
Government of India



NDEAR VIDYA SAMIKSHA KENDRA

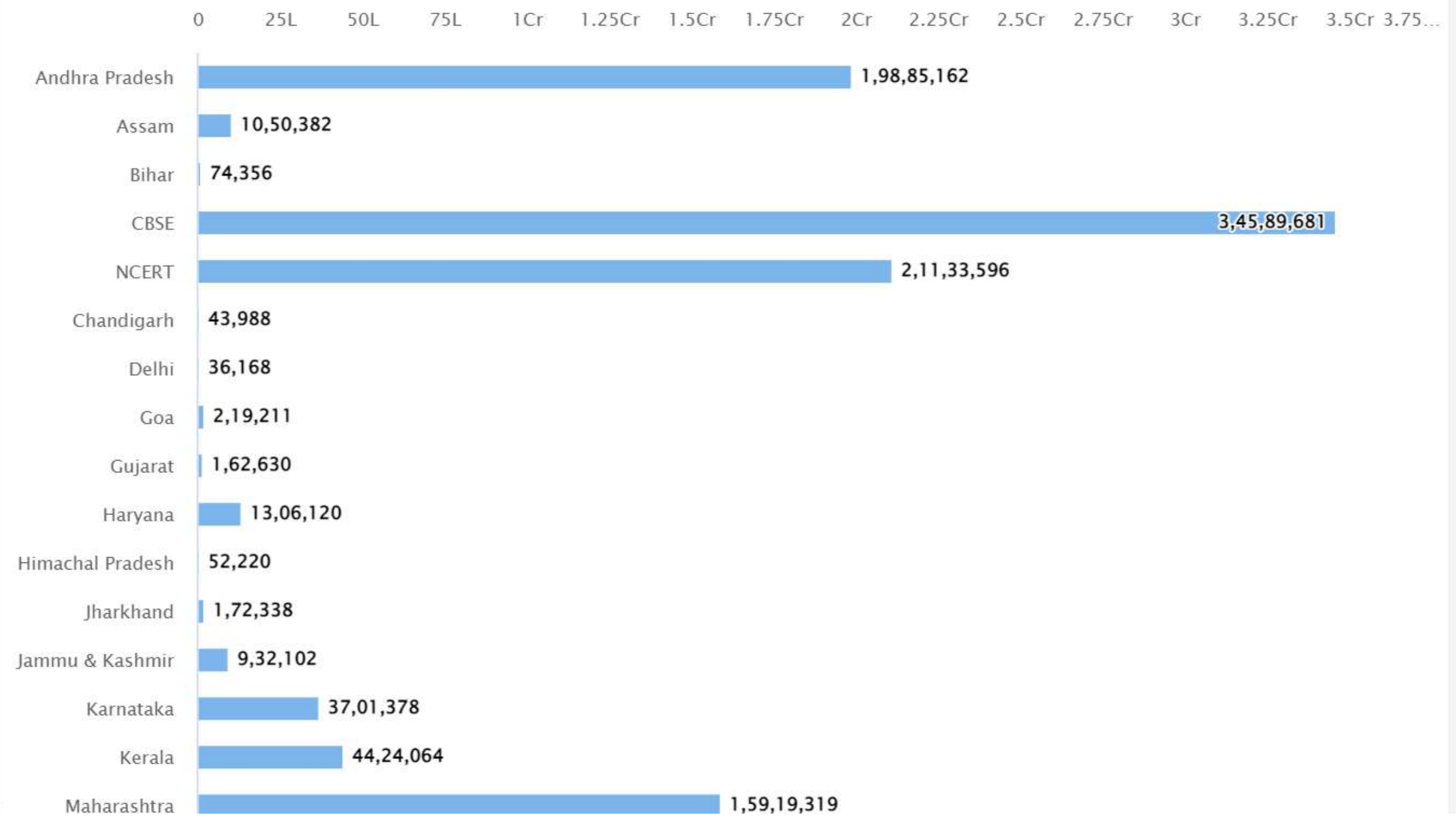
Dashboard

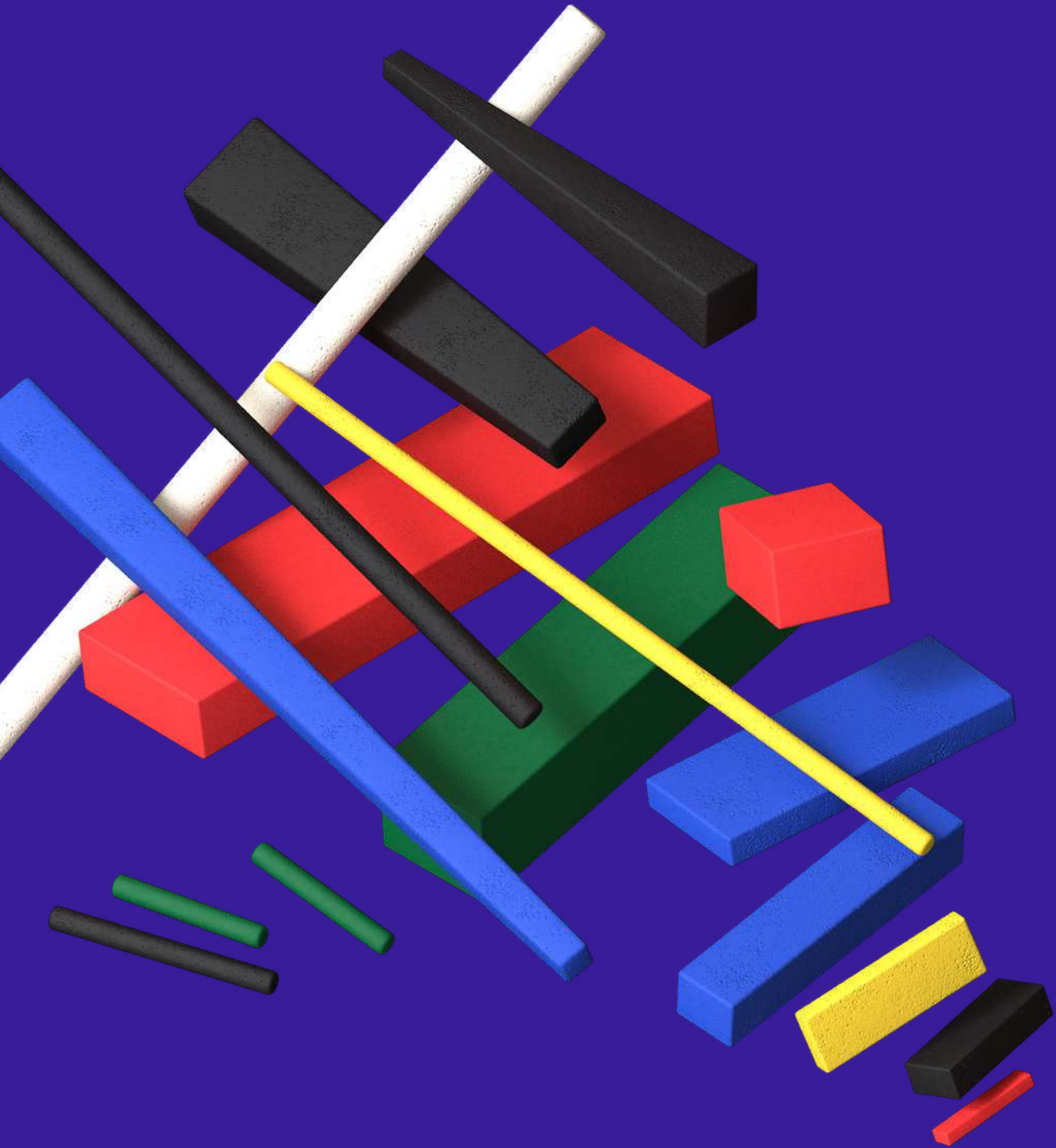
<div style="text-align: center;">  <p>NISHTHA</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">57.4L</p> <p>Total Teachers Participated</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">3.96K</p> <p>Total Courses Launched</p> <p style="border: 1px solid #ccc; border-radius: 15px; padding: 5px; display: inline-block;">Access dashboard →</p> </div>	<div style="text-align: center;">  <p>DIKSHA - ETB & eContent</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">2.8L</p> <p>Total Content</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">6.5K</p> <p>Total ETBs</p> <p style="border: 1px solid #ccc; border-radius: 15px; padding: 5px; display: inline-block;">Access dashboard →</p> </div>	<div style="text-align: center;">  <p>Micro-Improvements</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">8</p> <p>Total States/UTs Participating</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">57.2K</p> <p>Total Micro-Improvement Projects</p> <p style="border: 1px solid #ccc; border-radius: 15px; padding: 5px; display: inline-block;">Access dashboard →</p> </div>
<div style="text-align: center;">  <p>PM POSHAN</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">3 01</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">17</p> </div>	<div style="text-align: center;">  <p>National Achievement Survey (NAS)</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">1 21</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">34 01</p> </div>	<div style="text-align: center;">  <p>UDISE+</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">15 11</p> <p style="font-size: 1.2em; font-weight: bold; color: #0056b3;">071</p> </div>

http://vsk.ndear.gov.in/

- NISHTHA
- DIKSHA - ETB**
- Micro-Improvements
- PM POSHAN
- NAS
- UDISE+
- PGI
- NIPUN Bharat

Total No of Learning Sessions (App and Portal)

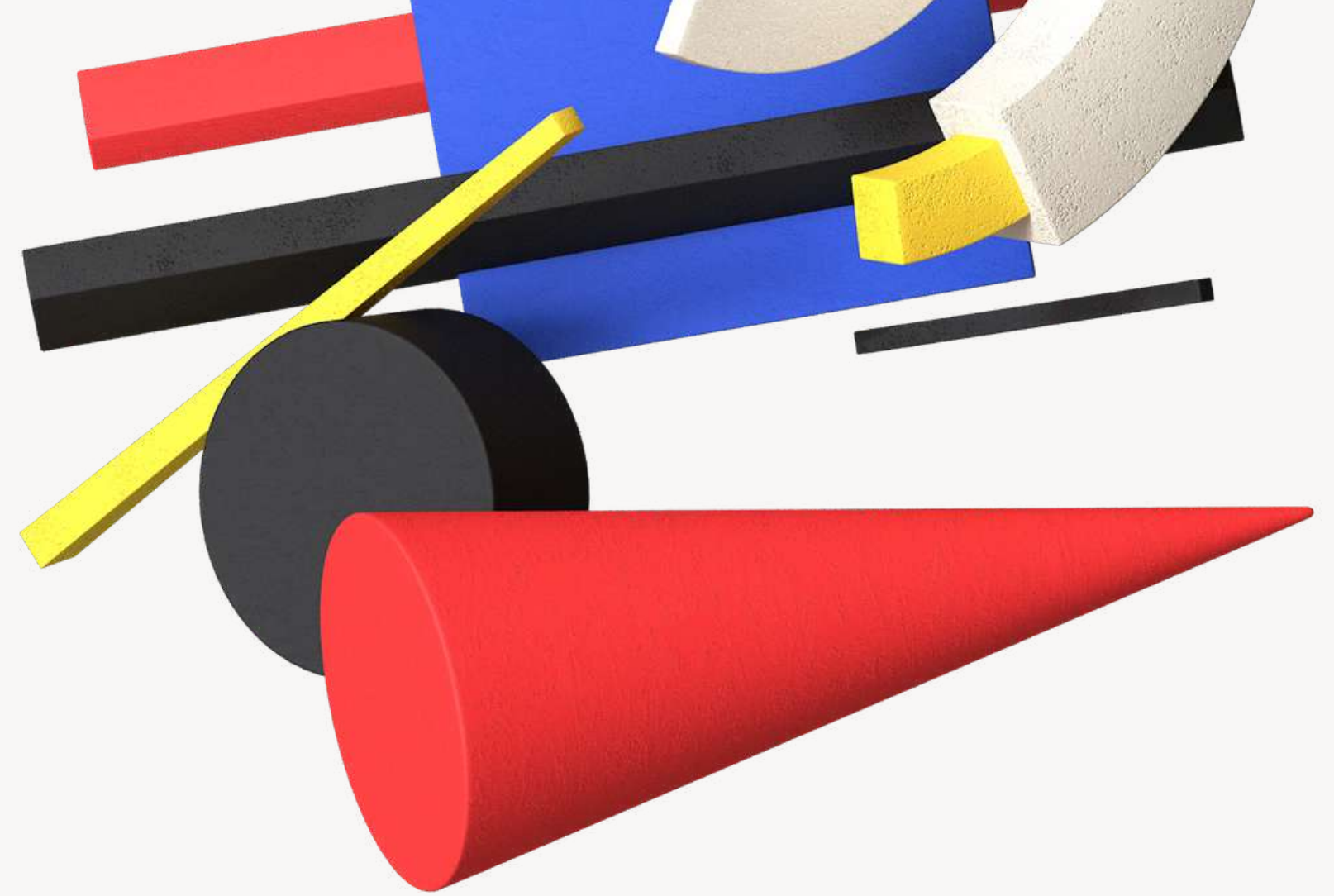




What's the
Future like?

Benefits for Teachers

Interactive tech will empower educators



Create lessons with mixed media

Educators can truly create lessons with mixed media and gamified elements (AR/VR/MR)

Faster feedback

Teachers can offer instant feedback and guidance using non-conventional mode.

Flexible teaching strategies

Teachers are able to adapt to the learning styles of different students

Benefits for Students

How interactive tech
will transform learning



Enhanced engagement

Students can be more active in their learning thanks to quizzes, games, polls, video content, and other media.

Student-led learning

Everyone can learn at their own pace, helping students understand their strengths and weaknesses.

Fun, engaging lessons

Subjects that students usually deem boring can become more interesting.

**Technology will never
replace great teachers,
but in the hands of
great teachers, it's
transformational.**

George Couros





**Do you have any
questions?**

PMU@teamdiksha.org