

Report on Project Utkarsh - Pilot in 12 nodal schools, Udaipur District

(Dec'13-April'14)

प्रोजेक्ट उत्कर्ष

A Joint Initiative By

District Administration and
Education Department,
Udaipur.

&

Moinee® Foundation,
Jaipur

Messages



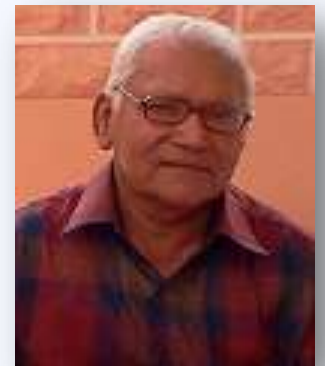
Quality Education" is the most vital key to the nation's sustainable development and we are all focused in enhancing quality in education. With the help of **Quiz Based Learning System**, we can, not only create, interactive and innovative environment for micro-learning but also can design roadmaps for continuous improvements. I hope this framework will motivate students for self learning.

I am thankful to all stakeholders to make the "**Project Utkarsh**" pilot project a grand success and looking forward to execute in large scale.

Ashutosh A.T. Pednekar, IAS
(Collector & DM, Udaipur, Rajasthan)

Self-study is one of the most effective way of improving your knowledge and aptitude. I hope Quiz Based Learning System will be useful tool in enriching your journey in becoming well educated citizen. "**Project Utkarsh**" is the best example of right execution of Quiz Based Learning System.

Govind Ram Thanvi
(Founder- Moinee Foundation)



Messages



The explosion of knowledge and the advancement technology have completely changed the whole paradigm of teaching and learning process. E-learning and quiz-learning are the means to satisfy the curiosity of our students in a joyful and playful manner. The success of "Project Utkarsh" is overwhelming.

Smt. Krishna Chouhan, DEO-I, Udaipur

Collaboration of technology with education will always lead to qualitative changes. "Project Utkarsh" is perfect model of it. Expansion of this project will set new benchmark of quality education at school level.

Shri Arvind Thanvi, Chief Mentor, Moinee Foundation



Technology is a significant driver behind change, and sometimes plays an important role in innovations in educational design and delivery. "Project Utkarsh" is a wonderful initiative to attract students towards simplified and adaptive learning.

Shri Bharat Mehta, DEO-II, Udaipur

E-learning has been continually evolving in the world around us and bringing out many new ways for students to cope with their most dreaded subjects. "Project Utkarsh" is a revolutionary step for excellence in education and the most important stakeholder Teachers and Students will feel empowered.

Shri Vijay Vyas, Director, Moinee Foundation



Contents

- **Introduction – Mission & Objectives**
- **Methodology & Execution Approach**
- **Project Utkarsh- Pilot @ Udaipur**
- **Schools Covered**
- **Team Structure**
- **Roadmap & Key Milestones**
- **Outcome of “Project Utkarsh”**
- **Technology Usage-Benefit Analysis**
- **Success Stories**
- **Feedback**
- **Conclusion**
- **Media Coverage**
- **Future Plan**
- **Picture Gallery**

Project Utkarsh

An initiative to support
right to QUALITY education

Introduction-Mission & Objectives

“Project Utkarsh” is a mission to bring qualitative and accountable change to mass school education through technology & Quiz Based Learning System.

KEY OBJECTIVES

Self-Learning

Create & provide self-learning study material and interactive tools to students.

Smart-Class

Allowing teachers to use these interactive tools for effective teaching and online assignments.

Performance Benchmarking

Capturing quantitative data to create qualitative performance bench marking of Students, Teachers as well as school.

Remote Monitoring

Every activity by Student & Teachers will be captured online and can be remotely monitored on web.

Infrastructure Improvement

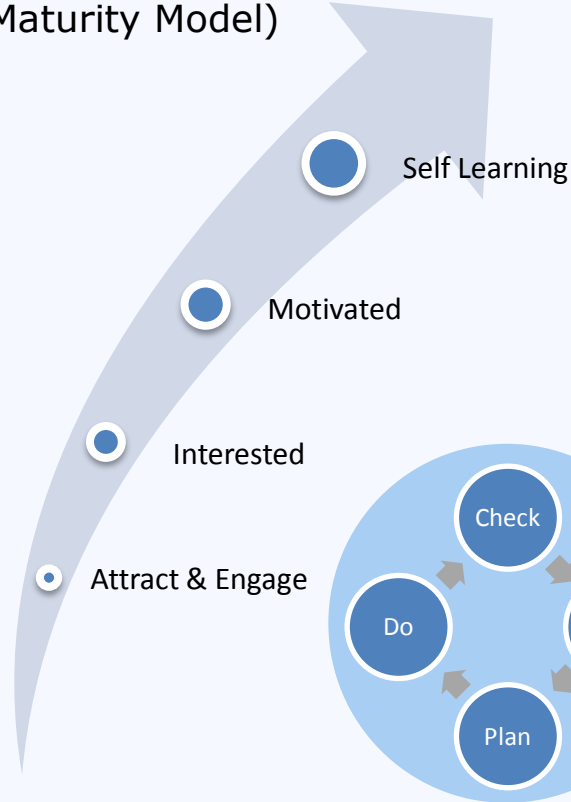
As a side effect, schools computer labs will get in good shape. Usage of Quiz Academy will confirm the functioning of lab.

Increased Scientific Temperament

Usage and practice on computer/tablets will drastically enhance the scientific temperament of Students, Teachers and Administrators.

Methodology & Execution Approach

Stages of Rising (Maturity Model)



Re-assessment to measure the progress.

- Identify Improvement areas
- Focus practice to continue

Formal Practice in the Classroom as well as at home on Tablets.

- Use of QuizAcademy as Smart Class
- Play in the form of quizzes, KBC etc on Tablets & Laptops.

Initial Assessment

- Capture current level of knowledge and aptitude.
- Identify initial area of improvements

Engage With Students

- Play quizzes with them as smart-class.
- Allow students themselves to play quizzes on Tablet, PC.

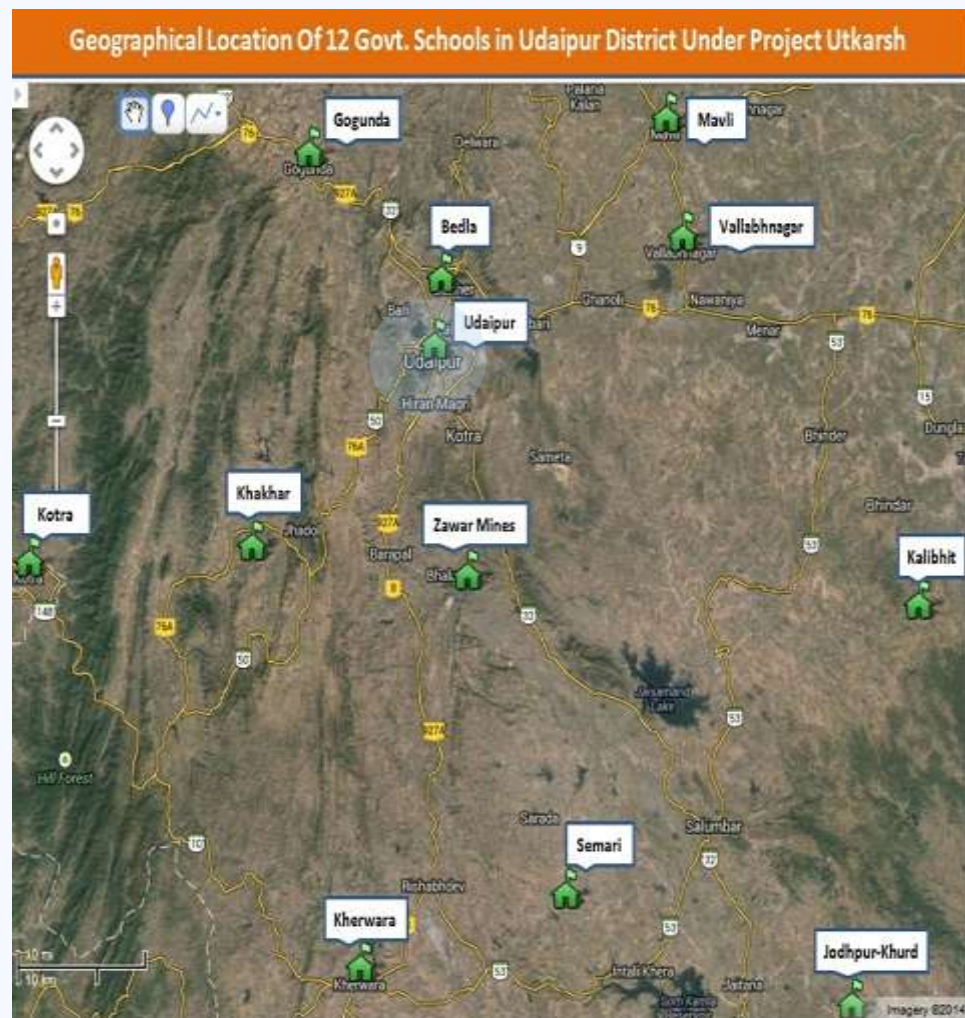
Project Utkarsh – Pilot at 12 Schools, Udaipur

(Dec'13-April'14)

- It is a joint initiative between Dept. of Education, Udaipur and Moinee Foundation, Jaipur. It was executed under the guidance of Mr. Ashutosh AT Pednekar, District Collector, Udaipur.
- As part of this pilot project, books of Class 9, Hindi Medium, Rajasthan Board have been converted in interactive quiz based system (Quiz Academy) and made available to students in Govt. Schools.
 - Quiz Academy is being used as self learning system where student can practice on TABLET, Desktop and even on internet using any device.
 - Quiz Academy is also being used as Smart-Class system by teachers for teaching and online activities & assessments.
- As part of the Pilot Project , 12 Nodal schools were selected.
 - Students of class 9 assessed for their current knowledge level.
 - Then, Quiz Academy implemented in schools.
 - Finally students re-assessed to observe the improvement.
- On successful pilot, “Project Utkarsh” will be formally implemented within the district and will be proposed for scaling at state level. As part of further scaling up, content for all classes will also be developed to increase the benefits to more and more students in the country.

Project Utkarsh Pilot – Schools Covered

S.No	Blocks	Name of school
1	Udaipur city	Govt. Girls Sec. School, Sector -4
2	Jhadol	Govt. Sec. School, Khakhad
3	Girva	Govt. Sr. Sec. School, Zawar-mines
4	Baddgaon	Govt. Sr. Sec. School, Bedla
5	Gudli-Mavali	Govt. Sr. Sec. School, Gudali
6	Gogunda	Govt. Sr. Sec. School, Gogunda
7	Kotra	Govt. Sr. Sec. School, Kotra
8	Bhinder	Govt. Sr. Sec. School, Vallabh Nagar
9	Lasadiya	Govt. Sr. Sec. School, Kalibhit
10	Salumber	Govt. Sec.School, Jodhpur-Khurd
11	Sarada	Govt. Girls Sec. School, Semari
12	Kherwara	Govt. Sr. Sec. School, Kherwara



Project Utkarsh Pilot – Team Structure

S.No.	Team	Member
1.	Governing Team	<ul style="list-style-type: none"> Shri Ashutosh A.T. Pedanekar (District Magistrate & Collector, Udaipur) Shri Arvind Thanvi (Chief Mentor-Moinee Foundation, Jaipur)
2.	Administrative Team	<ul style="list-style-type: none"> Smt. Krishna Chouhan (District Education Officer -Secondary, Udaipur-I) Shri Bharat Mehta (District Education Officer-Secondary , Udaipur-II) Shri Vijay Vyas (Director-Moinee Foundation, Jaipur)
3.	Advisory Team	<ul style="list-style-type: none"> Shri K.S. Vyas (Additional D.E.O. -Secondary, Udaipur-I) Mohammad Naeem Khan (Additional D.E.O. - Secondary, Udaipur-II) Smt. Hemlata Menariya (Additional D.E.O. - Academics, Udaipur) Shri Vinay Kumar Bissa (Software Engineer, Moinee Systems, Jaipur)
4.	Executive Team	<ul style="list-style-type: none"> Shri Vinod Mathur (Head Master- Govt. Model Sec. School, Udaipur) Shri Manish Kumar Sharma (Project Coordinator, Moinee Foundation, Jaipur)
5.	Supervisory Team	Smt. Snehlata Mogra, Shri Shantilal Vyas, Shri Suyash Chaturvedi, Smt. Kamallesh Jain, Smt. Leela Jain, Shri Amar Singh Kharwada, Shri Lokesh Bharti, Shri Pushpendra Sharma, Shri Devnarayan Joshi, Shri Kailashchandra Sharma, Shri Madhavlal Paliwal, Shri Madhusudan Vyas
6.	Subject-Expert Team	<ul style="list-style-type: none"> English - Satish Vyas, Taruna Soni, Ranjana Sharma Hindi - Vinod Bhanawat, Mannalal Meghwal, Balgopal Sharma Mathematics - Akshay Mehta, Dinesh Agarwal, Mukut Bihari Purohit, Rakesh Samariya Science - Somana Goyal, Pramila Shreemali, Vandana Singhavi Social Study - Chandrakanta Mantri, Leelashankar Vyas, Mahaveer Prasad Jain Sanskrit- Chandrakant Purohit, Brijbala Bhatnagar, Seeta Soni, Devendra Ameta
7.	Technology Partner	Moinee Systems Corporation Pvt. Ltd., Jaipur

Project Utkarsh Pilot – Roadmap & Key Milestones

1. MOU Signed-up between Education Department, Udaipur & Moinee Foundation Jaipur on 4th December, 2013 to implement Quiz Based Learning System in 12 Schools of 12 Blocks in Udaipur District.

कार्यालय जिला शिक्षा अधिकारी माध्यमिक प्रथम, उदयपुर
कमांक: जिशिअ-उदय/माप्र/निजी/2013-14/
दिनांक:
श्रीमान जिला कलक्टर महोदय
उदयपुर

विषय : Moinee Foundation के संबंध में।
प्रसंग: पूर्व में आयोजित बैठक में दिये निर्देशानुसार।

उपरोक्त विषयान्तर्गत आप द्वारा पूर्व में उक्त विषयान्तर्गत बैठक आयोजित की गई थी Right to Quality Education के संबंध में चयनित विद्यालय एवं विषय विशेषज्ञों की सूची निम्नानुसार प्रेषित है।

चयनित विद्यालयों की सूची

क्र.सं.	पंचायत समिति	विद्यालय का नाम	संस्थाप्रधान का नाम	मोबाईल नं.	विशेष विवरण
1	उदयपुर शहर	रामावि सेक्टर 4	महिपाल कश्यप	9413263079	शहरी विद्यालय
2	गिवा	उमावि जावरमाईन्स	लोकेश भारती	9309448209	दूरस्थ
3	बडगाव	उमावि बैदला	मधुसूदन व्यास	9414829418	विज्ञान वर्ग
4	मावली	राउमावि गुडली	सुरेश चतुर्वेदी	9636665525	Multi Faculty
5	गोगुन्दा	राउमावि गोगुन्दा	माधवलाल पालीवाल	9413812571	दूरस्थ विद्यालय
6	कोटडा	राउमावि कोटडा	कमलेश जैन का.राहक	9166617095	Multi Faculty
7	भीण्डर	राउमावि वल्लभनगर	पुष्पेन्द्रकुमार शर्मा	9413044946	दूरस्थ
8	लसाडिया	राउमावि कालीभित	कैलाशचन्द्र शर्मा का.वाहक	9783355921	ज जाति क्षेत्र
9	सलूमर	रामावि जोधपुरखुर्द	अमरसिंह खरवड	9414685112	

2. Teachers Orientation Workshop organized on 9th & 10th Dec, 2013 for 20 Subject Experts, 12 Head of Institutions and 12 Computer instructors by Moinee Foundation at DIET, Udaipur.



3. Hindi Medium 9th class content prepared by 20 Subject Experts of Udaipur District in one less than a month, which comprised of more than 2500 multiple choice questions of all subjects.



4. Content cleaned up, reviewed and uploaded on Quiz Academy Portal as well as converted in offline Tablet/Mobile & Desktop Application by Technical Team of Moinee Systems.

Project Utkarsh Pilot – Roadmap & Key Milestones (continue...)

5. “Project Utkarsh” officially launched by District Magistrate & Collector Shri Ashutosh A.T. Pednekar on 22nd January, 2014 at Guru Gobind Singh Govt. Senior Secondary School, Udaipur



6. First online assessment conducted between 28th Feb- 4th March, 2014 at various venues with participation of 350 students.

7. Regular Practice for 3 weeks, 2-3 hours offline-online on Quiz-Academy as Smart-Class by all schools between 8 March-25 March, 2014.



8. Second online assessment conducted between 28th Feb- 4th March, 2014 at various venues with participation of 427 students.



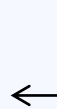


**Project Utkarsh in Action
(Students using QuizAcademy)**

Project Utkarsh Pilot – Roadmap & Key Milestones (continue...)

Facebook Page

<https://www.facebook.com/projectutkarsh>



Web-Portal

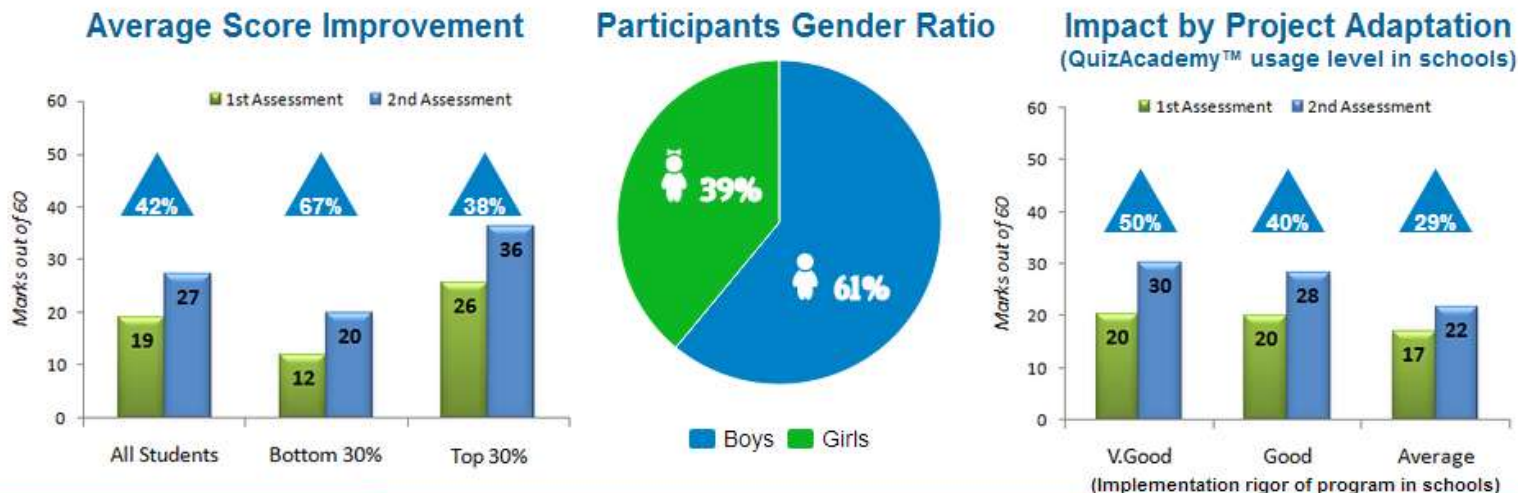
<http://www.moinee.org/projectutkarsh>



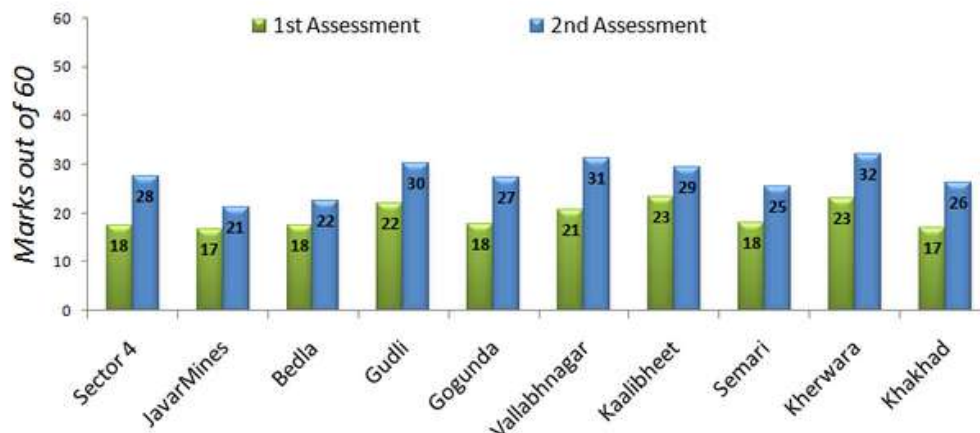
Project Utkarsh Pilot – Outcomes

1. Improvements in Performance

Outcomes of Project Utkarsh Pilot at 12 Rural and Tribal Schools of Udaipur District



Average Score Improvements across Schools



KEY FACTS:

42% Average Score Improved in district.

100% Computer Labs are used for study.

260 Computers and Tablets used for daily practice

15000 No of Quizzes played in 2 weeks practice

681 Students of class 9 are enrolled on QuizAcademy

428 Students worked on online practice assignment

2500 Multiple Choice Questions Created for class-9

QuizAcademy™.org

Quiz Based Learning System

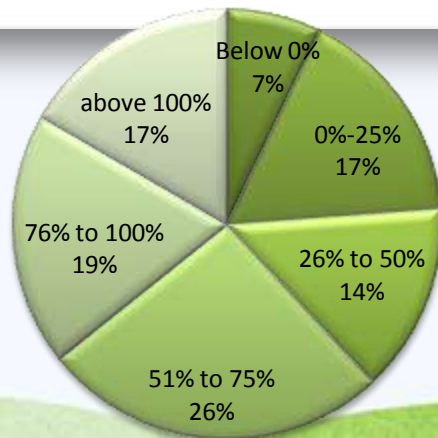
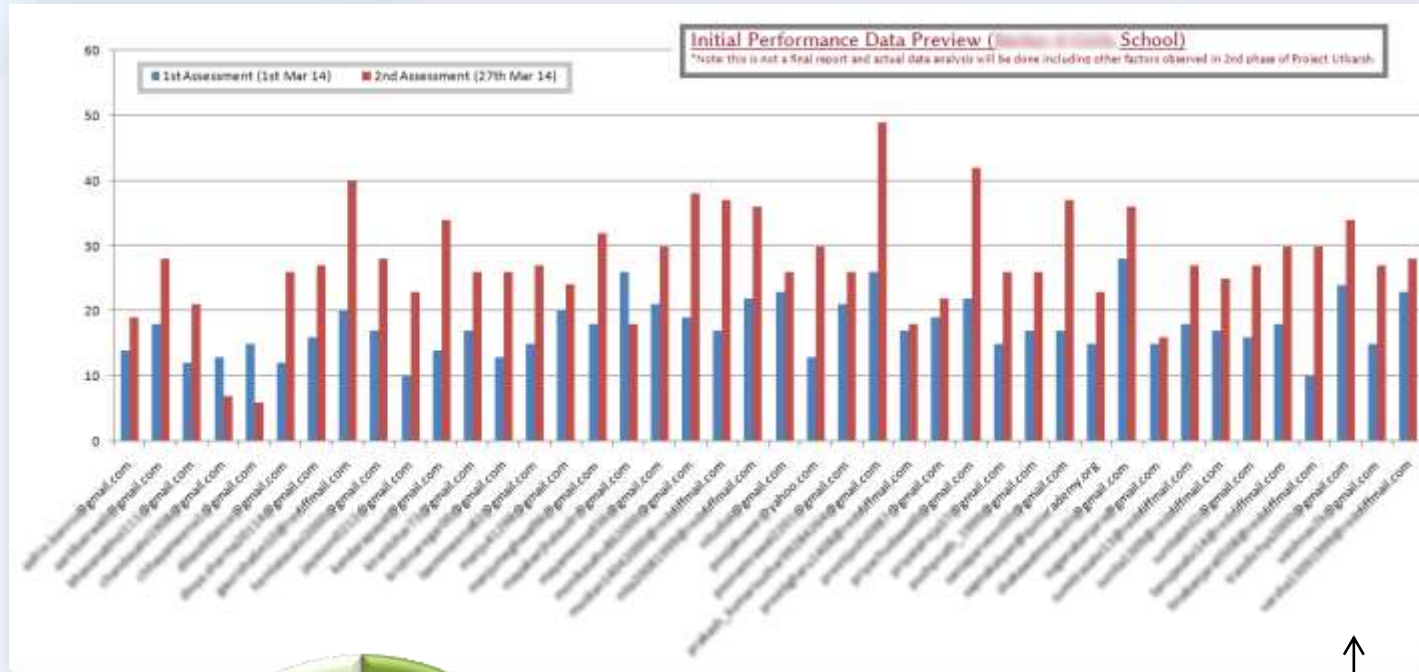
**Technology That Works
Everywhere!!**

App

App

Project Utkarsh Pilot – Outcomes (continue...)

2. Performance Analysis of every student



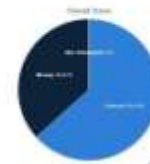
Class Level Report
(for all student)

Grouping at Class Level
(for all student)

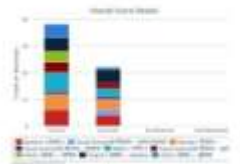
Individual Report
(for each student)



Overall Score Analysis.

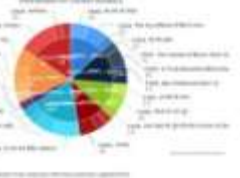


Overall Score



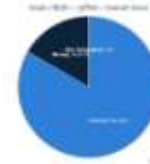
Distribution of Answers

Food for Thought

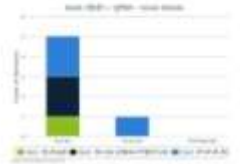


REMEMBER: This is where you are right now, but you can choose and plan to be wherever you want to be.

Hindi (हिन्दी) - कृत्तिका - Score Analysis



Hindi (हिन्दी) - कृत्तिका Overall Score



Distribution of Answers

Project Utkarsh Pilot – Outcomes (continue...)

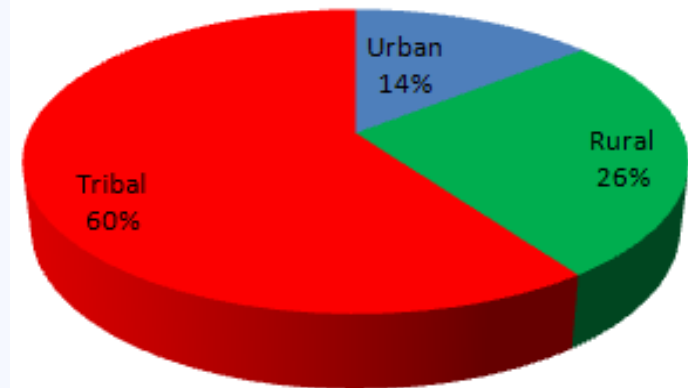
3. High Students Participation

- Out of 961 students enrolled in class 9 of these 12 schools, 681 are enrolled on QuizAcademy and more than that has been participating in daily smart classes run in the schools.

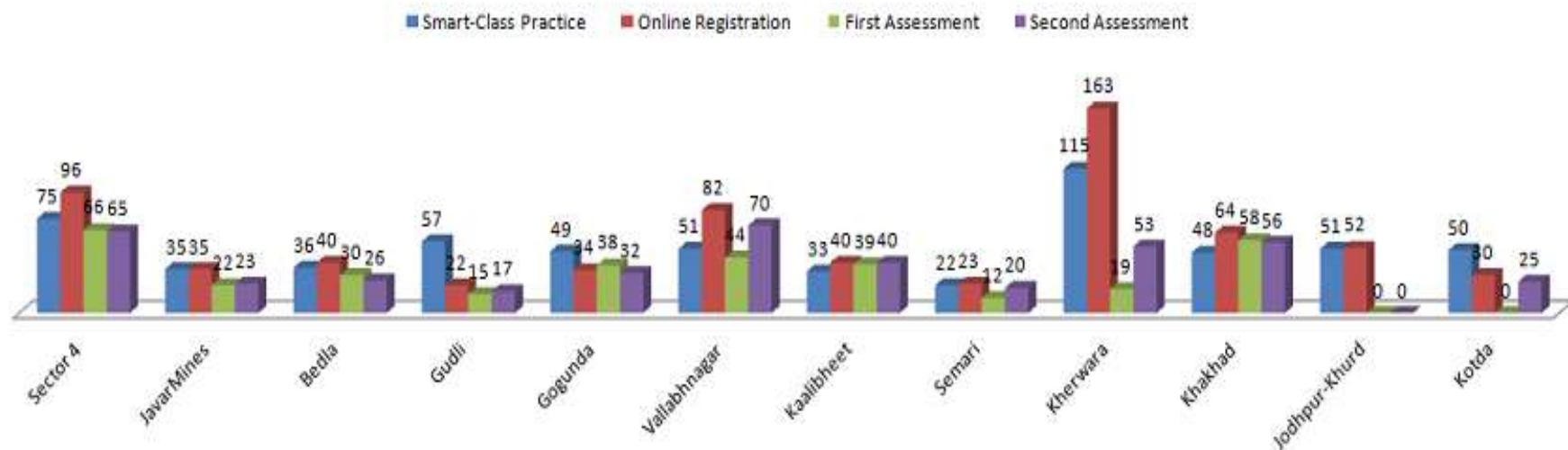
Few observation:

- *Increased trend seen in attendance.*
- *increased trend in completing online practice assignments.*
- *Increased interest by students as well as teachers.*

Area-Wise



School-wise



Project Utkarsh Pilot – Outcomes (continue...)

4. Improvements observed in 12 schools infrastructure

S. No.	Parameter	Before Pilot	After Pilot
1	No. of Schools with working Computer Lab	2	12
2	No. of Working Computers	34	91
3	No. of Schools with Internet Connectivity	2	7
4	No. of Schools with Projector Facility	2	12
5	No. of Schools with Power Back-up	2	7
6	No. of Schools with Project Suitability	3	9

5. Social Audit of Tablets & Laptop Distribution

138 Tablets & 32 Laptops were used for offline and online practice which has indirectly indicated the usage of Tablets and Laptops distributed by State Government.

6. Drastic Improvement in Scientific Temperament of Students & Teachers

681 Students have first time created their Email ID and most of the students had first time access to computer, internet and online test.

7. Remote Monitoring of smart class usage and online activities & tests.

QuizAcademy System allowed all schools participation and activities to be observed real-time. This brought the accountability to whole project without any subjective bias.

Facts & Figures

12	Block's of Udaipur District were geographically covered.
2500	Questions Created by 20 subject-experts in 30 days
260	Systems were successfully installed with Quiz Academy App and used for regular online-offline practice.
100%	Functioning Labs from 25% at starting of Project.
681	Students of class 9 were enrolled on quizacademy.org
15000	No. of Quizzes played in Just Two Weeks with average of 1000 quizzes per day.
428	Students worked on online practice assignment.
23%	Increase in student's participation from 1 st assessment to 2 nd assessment.
42%	Average Score Improvement in 2 nd assessment.
67%	Average Score Improvement in bottom 30% students.
38%	Average Score Improvement in top 30% students.
39%	Girls participants in online assessment.
60%	Students from Tribal Area

Technology Usage – Benefit Analysis

(QuizAcademy™ - Technology Backbone for Project Utkarsh)

Usage	Benefit
QuizAcademy used As Smart-Class to Practice in the Classroom	<ul style="list-style-type: none"> •Interactive and playful nature of QuizAcademy. •Students are very much attracted. •Very high level of participation by students. •During the free time, students have shown high interest in doing activities in Smart-class.
QuizAcademy used for online Class Assignment By Teachers	<ul style="list-style-type: none"> •Teachers can create assignment from existing databank, assign it to class and track it online for the whole calls. •It's a huge time-saver and increases effectiveness.
QuizAcademy used for online Tests/Assessments	<ul style="list-style-type: none"> •Similar to Assignment, teachers can create and plan tests. •Students get detailed report get to see where they need to improve
QuizAcademy used online for practice, assignments and Tests/Assessments	<ul style="list-style-type: none"> • Online reports are available in real-time. •Reports can be analyzed at individual, class, school and district level.
QuizAcademy used beyond class on Tablets, Laptops and Smart-phones at Students home.	<ul style="list-style-type: none"> •Students can practice without internet by playing quizzes on offline version on android phone/Tablets and Laptop/PC. •Empowers students in using it anywhere on his own.
More positive side-effects	<ul style="list-style-type: none"> •School computer lab, internet, projector, generator etc. becomes fully functional as it gets tracked online. • Teachers & Students becomes computer literate out of interest.

Success Stories

1. Govt. Girls Secondary School Sector 4, Hiran-Magari, Udaipur

This school is situated in urban area but the ICT infrastructure was not up to the mark at the time of commencement. The computer lab was not functioning. There was no internet facility and power back-up. Due to the Project, Computer Lab became fully functional with Broadband Internet connection, power back-up and Projector Facility. School has been most consistent in regular practice as smart class, assignment completion. It is the first school of Pilot, which has independently conducted online test.

2. Govt. Sr. Secondary School, Kalibheet

This school is situated tribal area of Udaipur surrounded by hills. There is no smooth basic infrastructure like Roads, Electricity etc. in this village but school took this project as a mission and delivered excellent results. Students participation was extremely enthusiastic. They used to come on vacation also for practice on computers. Only school which has 100% participation in online assignment completion and online assessment. Support of staff members was tremendous.

3. Govt. Sr. Secondary School, Zavar-Mines

This School is also in Tribal area. Though there were board exams, festivals etc. but students excitement was at peak. As per the feedback from their Principal, students rushed to computer labs for smart class after prayers. Attendance was drastically improved. First time, students were motivated for self learning. There is continuous demand for extension of program for 10th class.

Feedback (Students)

हमारे विद्यालय में सुविचार
 12-काम्युटर
 रखे हैं। हमें रोज जग्या
 है। हमारे सार कम रोज पर
 है। और सार कम 2-घंटे रोज
 के पढ़ते हैं। सार हमारी स्कूल
 10 वी में भी रही पर पढ़ना
विद्यालय

ना बहालता हो जीना
का ज्ञान हुआ जीजीवन
बदलना हमारे लिए उपयोगी
या गरीबी को भ्रष्टाचार के लिए सबेरे
एक नया रास्ता।

7/9 8

बदलना
KAL

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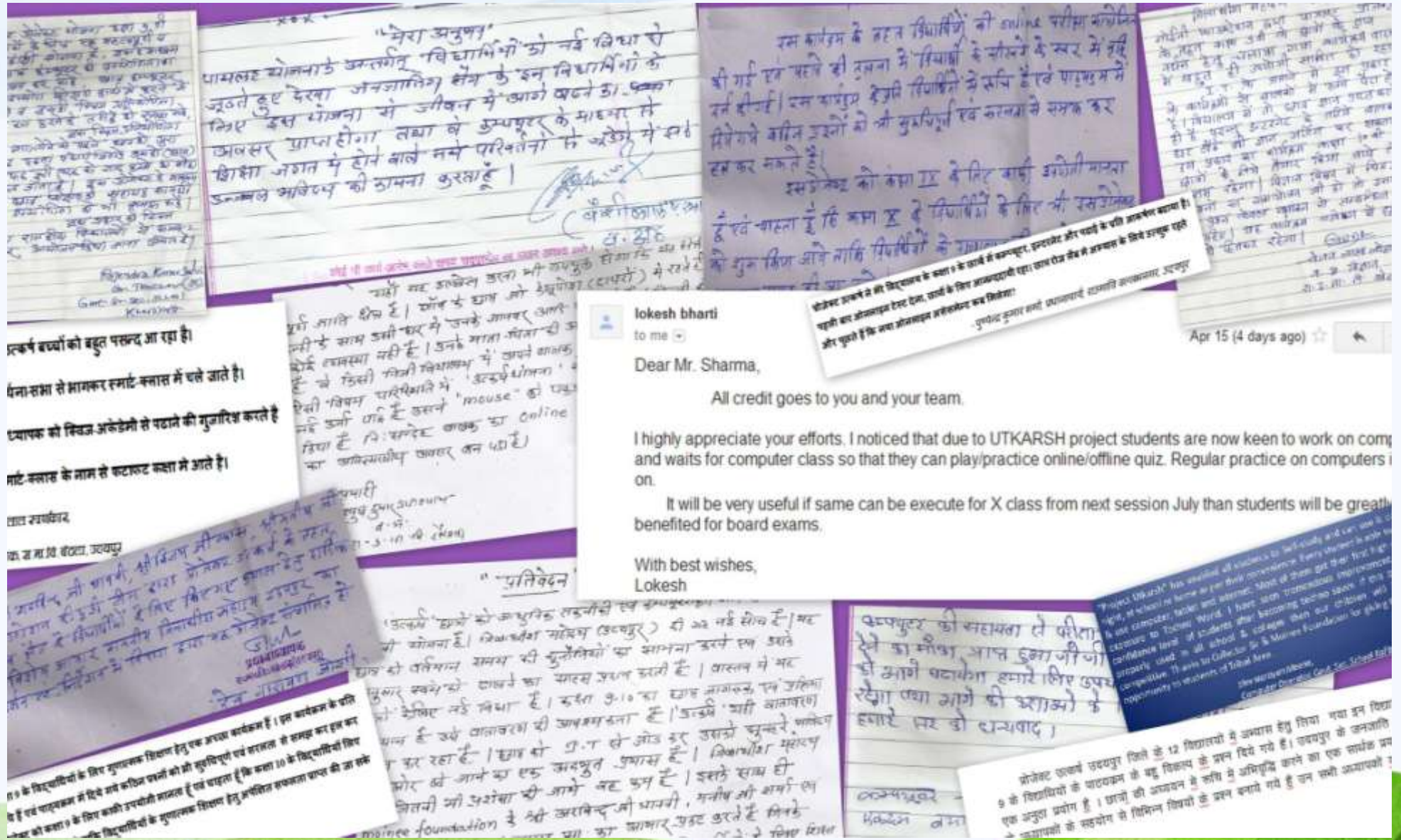
सर मैं बोज प्रेटिक करती हूँ, 2012-
Gicademy से पढ़ने का बहुत मजा आ
रहा है, और सर जमे 10 वीं में भी
Gicademy में पढ़ना है और प्रोजेक्टर
से पढ़ना अच्छा लगता है।

विमानि पालीताल
मदले विद्यालय

Self Assessment (project Utkarsh), Date-04-04-2014					
Service	Hardware (Laptop)	Quality of IT Content	Will you contribute to site?	Feedback	Signature
off line	Tablet pc	YES	YES	Medium Level	अजय सिंह
off line	Tablet pc	YES	YES	Medium Level	जायु राम
off line	Tablet pc	YES	YES	Medium Level	अरवि सिंह
off line	Tablet pc	YES	YES	Medium Level	मोक्ष कुमार
off line	Tablet pc	YES	YES	Medium Level	कुमुदराज
off line	Tablet pc	YES	YES	Medium Level	महाराज
off line	Tablet pc	YES	YES	Medium Level	शैलेश
off line	Tablet pc	YES	YES	Medium Level	गिरिजा
off line	Tablet pc	YES	YES	Medium Level	अनिल कुमार
off line	Tablet pc	YES	YES	Medium Level	पौनराज
off line	Tablet pc	YES	YES	Medium Level	नरेश्वर

[illegible]

Feedback (Teachers)



Conclusion

- Pilot @ Udaipur District for Project Utkarsh has been effective and successful in term of Students Participation, Performance Improvement Teachers Receptiveness, Quality Enhancement and Infrastructure Improvement.
- Students Performance has significantly improved.
- Use of Quiz Academy as smart-class has been most innovative outcome.
- Scientific Temperament of Teachers and Students has extremely improved.
- Better utilization of Tablets & Laptops (issued by State Govt.) has become possible.
- There is huge demand of adoption in 10th & Higher Classes by Teachers and Students .
- Acceptability of Quiz Based Learning System in Tribal & Rural Area is very high.
- Tremendous improvement in Students attendance and participative learning has been observed.
- Project Utkarsh can be executed with normal infrastructure and minimum human resources.
- Monitoring of Students has become very smooth.
- Expansion of this concept in other schools and classes will lead to qualitative improvement in school education .

उत्कर्ष



Future Plan

- Content Creation on Quiz Based format for all classes in Hindi & English Medium (Primarily 9-12 Class then 6-8 class).
- Step by step expansion of “Project Utkarsh” starting with 200 Govt. Schools of Udaipur District, then covering all schools of Udaipur District and finally at State-level.

