



India Mass Education Project

X36 Falcon's "Curiosity" project is a part of the Vivekanand education megaproject

- Our social division is working to ignite curiosity in children through design
- ✓ Education is one of our largest initiatives. Please visit :

http://www.nataraja.org.in/educatio n_megaproject.html Use Case

What are the Major problems within India's school system ?

1. Money is reaching our schools 6 -7 months late

This delay in funds arrival in schools is lowering the productivity of 192 million students and 5.23 million teachers across India

2. Very high dropout rates

- □ India currently has a shortage of 6,21,805 secondary schools
- About 39 % of children drop out of school after class V. Another 50 % + drop out by class VIII.
- In all upto 89 % of children drop out of school before class IX as there are not enough secondary schools to go to

3. Poor teacher quality

2007 NUEPA* data states that 46 % of India's teachers have not studied beyond class XII and 25 % have not studied beyond class X

4. Huge shortage of qualified teachers :

According to official estimates India has a huge shortage of qualified teachers :

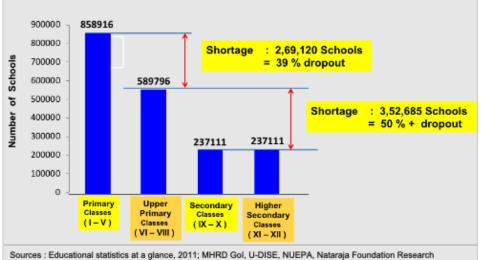
- Primary school (teacher shortage) : 9,07,585
- Secondary school (teacher shortage) : 1,06,905

These are official estimates. Actual shortages are much higher

5. Low quality teachers , leading to women's safety issues

- Teacher shortages are leading to the recruitment of poorly qualified people. This is adversely affecting students moral standards
- Neglect of teachers over the last 50 years is resulting in a rise in violent crimes against women in India





*. NUEPA 2007 by Arun C Mehta . The number of teachers then was 4.7 Million. Today in 2019 India has 5.23 Million teachers

6. Very poor learning outcomes

- ASER report 2019 states that on a national basis 56 % of class VIII students cannot do basic maths and 27 % of students cannot read
- 7. Lack of focus on secondary education & skills development
- Lack of focus has resulted in a huge shortage of 119 million skilled people across various industries

First we determined as to where Design interventions would be most effective within the school system



X36 Falcon's design team has identified <u>three major areas</u> that need immediate intervention so that learning outcomes could be improved :

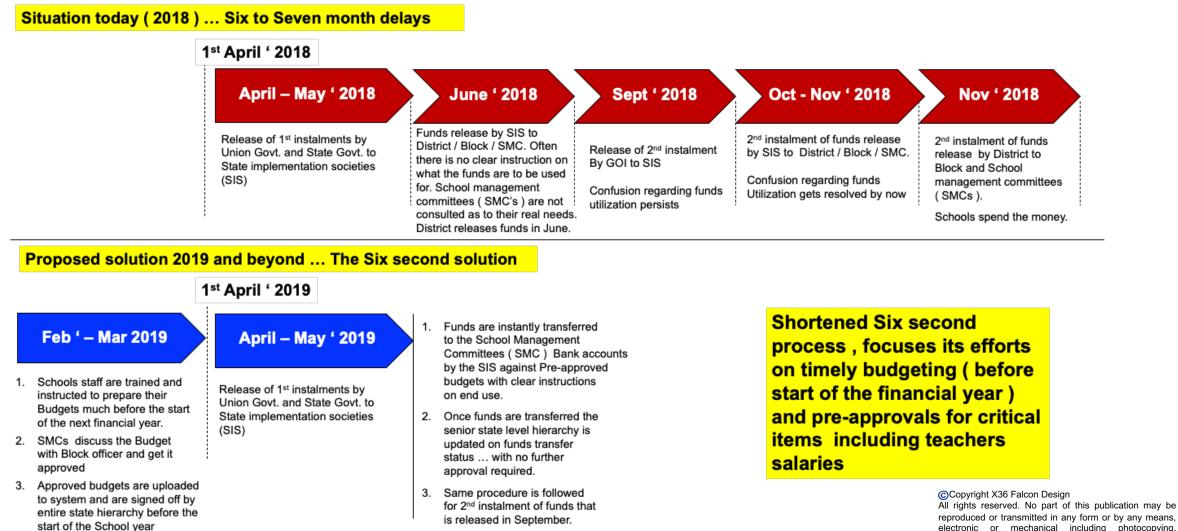
- 1. Improving the financial efficiency within India's school system, so that money reaches schools faster
- 2. Improving teacher quality, to improve learning outcomes
- 3. Reducing school dropout rates, by creating additional secondary school capacity at low cost

We have therefore designed two project based solutions that address the issues in the above three areas. Both these solutions make extensive use of IT systems and 4G Telecom technology.





Increasing Fund flow velocity to schools ... Current situation Vs. Proposed solution



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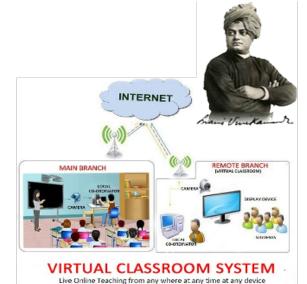
"Vivekanand school in a cloud " programme

- Basic idea <u>borrowed directly</u> from Prof. Sugata Mitra's work on the self organized learning environment (SOLE) project
- Over 6,21,805 locations across 29 states & 7 union territories will be part of the Vivekanand "<u>School in a</u> <u>cloud</u>" by 2023
- Pilot Project will run on <u>low unit cost</u> 4G / 5G advanced data networks
- Project differs from the SOLE in that it will also include secondary education + skills instructors who will create and deliver a joint course and visit all locations
- There will be special attention on moral principles including most importantly respect for Women
- □ Leadership training / the creation of a <u>strategic culture</u> across India's population will also be an important area of focus within the programme. Teaching students history is critical to strategic leadership training



Sugata Mitra's school in the cloud, Korakati, Sunderbans (West Bengal)





Picture courtsey : www.ibizztech.com



The Pilot Vivekananda " school in a cloud " will rapidly add secondary education and skills development capacity. Companies can contribute with their CSR programmes

Solution 2