

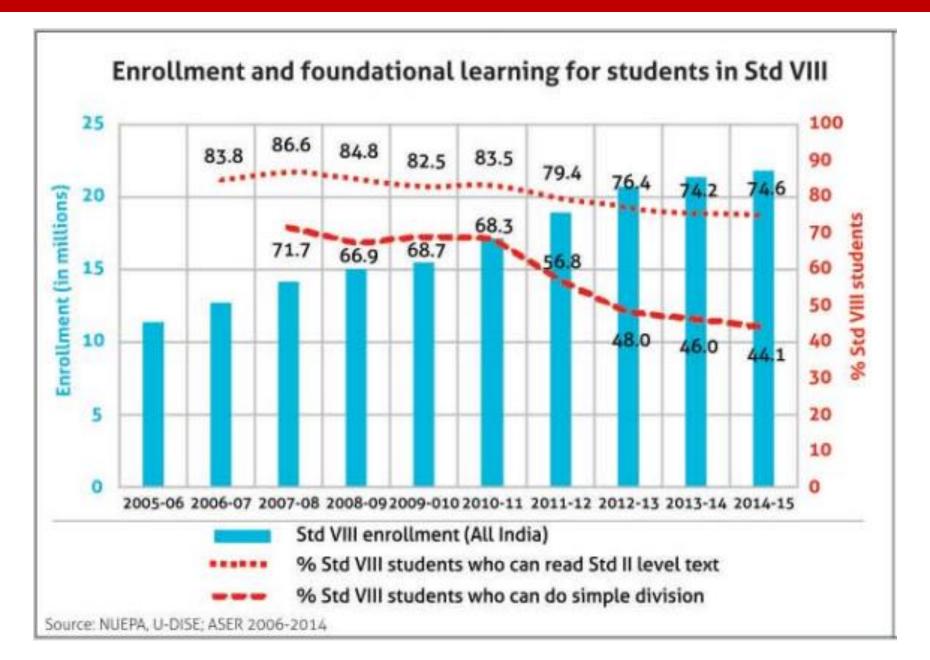
Study on access, transition and learning in secondary education

Main findings from a two-block study in Hardoi (Uttar Pradesh) and Sambalpur (Odisha)



New Delhi 25 January, 2018

Context



- To understand:
 - 1. Patterns in school provisioning, particularly at elementary and post-elementary stage
 - 2. Student learning outcomes at the end of elementary school (Std VIII)
 - 3. Transition into secondary school
 - 4. Student learning at the beginning of secondary school (Std IX)
- Study designed as a block-level census in two rural blocks each of Hardoi district, Uttar Pradesh and Sambalpur district, Odisha
 - Bawan and Sursa blocks covered in Hardoi district, Uttar Pradesh
 - Rairakhol and Naktideul blocks covered in Sambalpur district, Odisha

Patterns in school provisioning, particularly at elementary and postelementary stage

Phase 1: Mapping of educational institutions



Phase 2: School survey and baseline learning assessments

Assessing student learning

outcomes at the end of

elementary school (Std VIII)

- GPS mapping of all educational institutions (schools, colleges, tuition centres and vocational institutes) in rural villages of sampled blocks.
- Basic information collected on highest and lowest grade offered, school type.
- June July 2014

- Schools mapped in phase 1 and offering Std VIII selected for phase 2 survey.
- School survey done over two days and data collected on facilities, student enrolment and attendance etc.
- Baseline learning assessments conducted for all Std VIII students present in schools in Language (Hindi/Odia), English and Math
- October 2014 February 2015

Transition to secondary school and assessing student learning at the beginning of secondary (Std IX)

Phase 3: End line student tracking and learning assessments

- (Std VIII) students from phase 2 tracked to record enrolment status and HH information.
- End line learning assessments in Language (Hindi/Odia), English and Math administered to gauge change over time.
- Assessments conducted at the community level, on school holidays.
- October 2015 February 2016

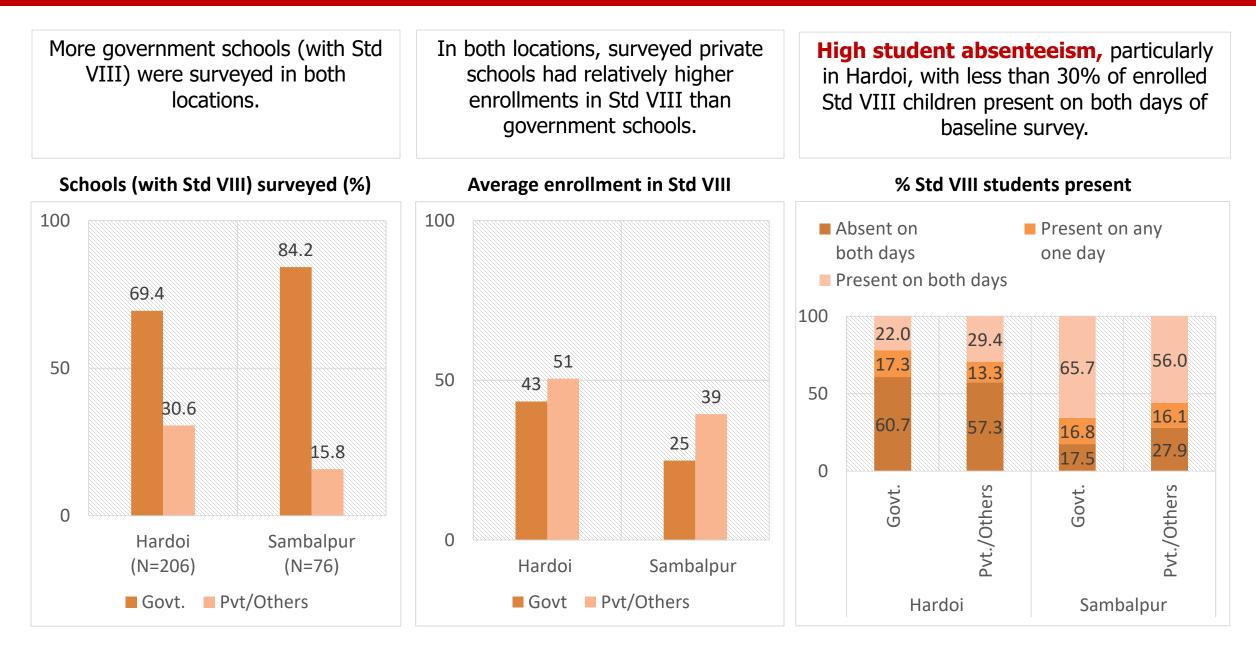
Data collection and sample

Study sites	Phase 1: GPS Mapping	Phase 2: Baseline school survey		Phase 3: End line survey		No. of children tested in baseline and end line assessments:	
	No. of villages surveyed	No. of schools surveyed at baseline	No. of children enrolled in Grade 8	Total children tracked	% children tracked as a proportion of children enrolled in grade 8	Language	Arithmetic
Total	592	282	11,264	9,868	87.6	3,123	3,713
Hardoi	207	206	9,187	7,939	86.4	1,932	2,467
Sambalpur	385	76	2,077	1,929	92.9	1,191	1,246

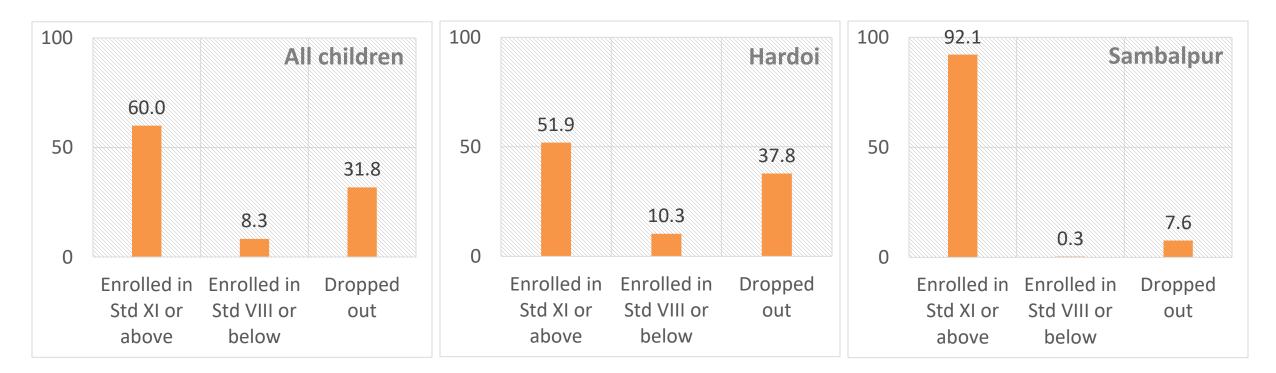
FINDINGS

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Background: Elementary schools and Std VIII students surveyed at baseline

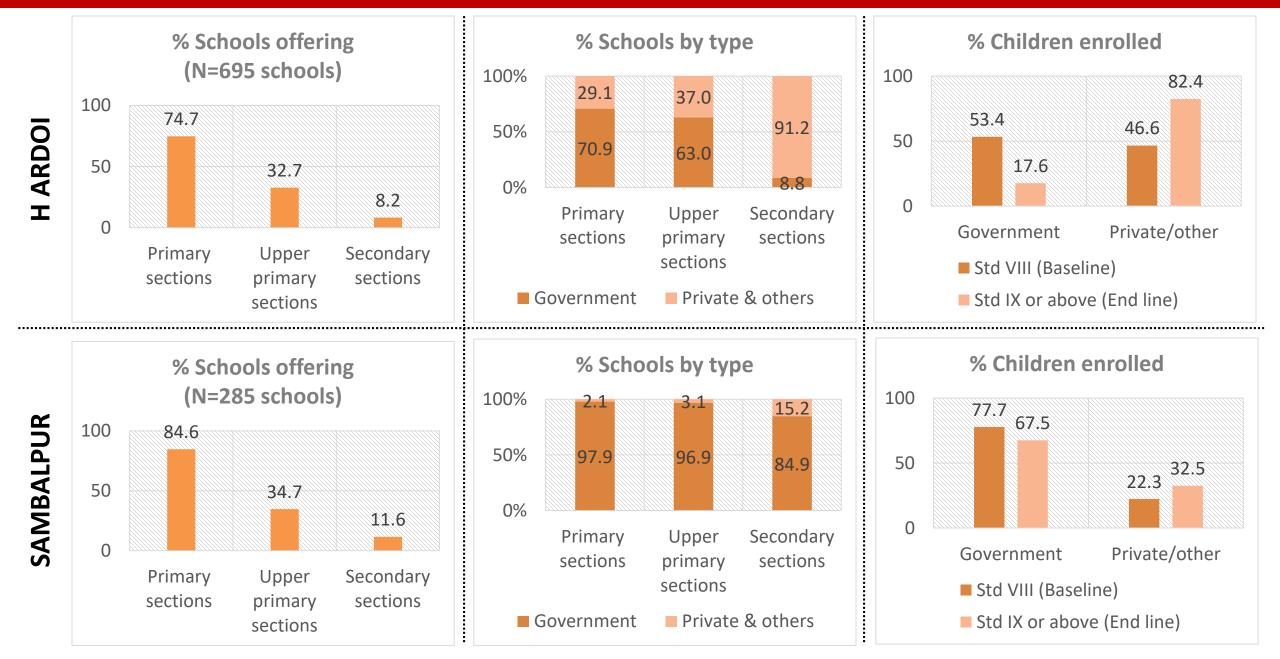


Major variations in post-Std VIIII transition trends between locations



- In Hardoi, close to 40% children dropped out after Std VIII (in Year 2). This proportion is less than 10% in Sambalpur.
- Progress is not necessarily linear, that is from Std VIII to Std IX. Unexpected transitions more visible among the cohort in Hardoi (10.3%). Transition in Sambalpur on the other hand is higher and in the expected direction - over 90% children transition to secondary school after Std VIII.

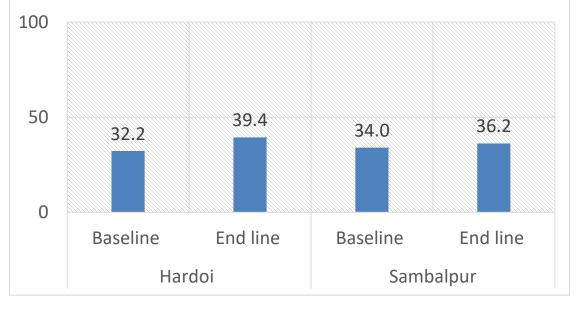
School transition post Std VIII mirrors provisioning trends in secondary



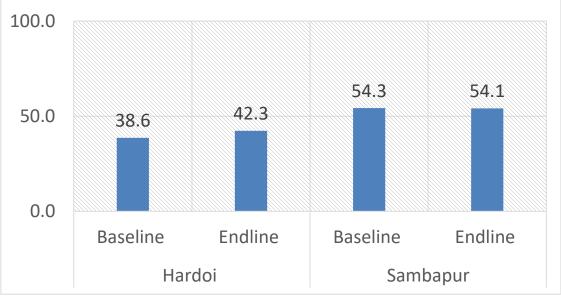
Learning levels in secondary grades fall short of curriculum expectations

In language (Hindi/Odia), written assessments tested children's proficiency on reading comprehension tasks, simple vocabulary and grammar. In arithmetic, written assessments included questions on numeric operation, word problems, fractions and decimals, geometry and mensuration. Learning assessment tools created after extensive textbook review and multiple rounds of pilot. Included tasks from Std IV to Std VIII level.

Mean percentage scores in language written assessment for children in secondary grades at end line



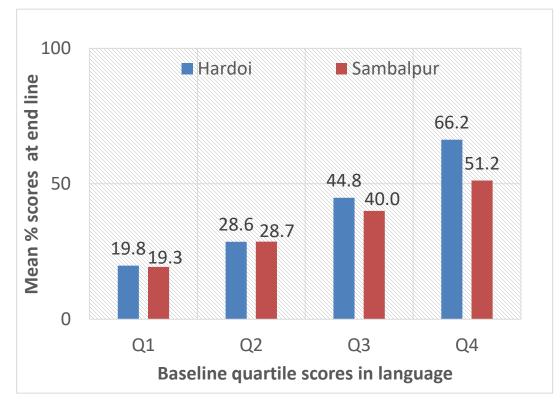
Mean percentage scores in arithmetic written assessment for children in secondary grades at end line



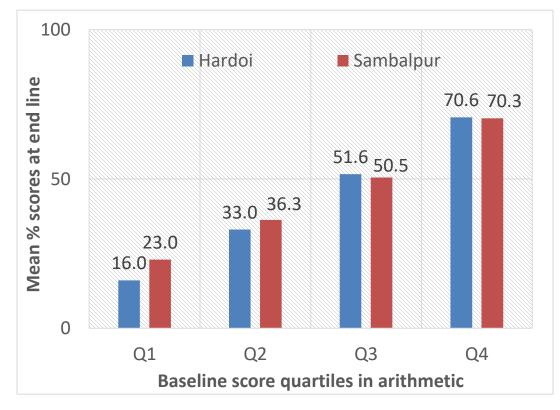
Students in secondary grades do not have similar levels of learning

In both locations and in both tests, there are major variations in student learning levels in secondary grades. Such diversity of learning levels in classrooms is bound to make the teaching-learning processes much more challenging for teachers and schools.

LANGUAGE WRITTEN TEST



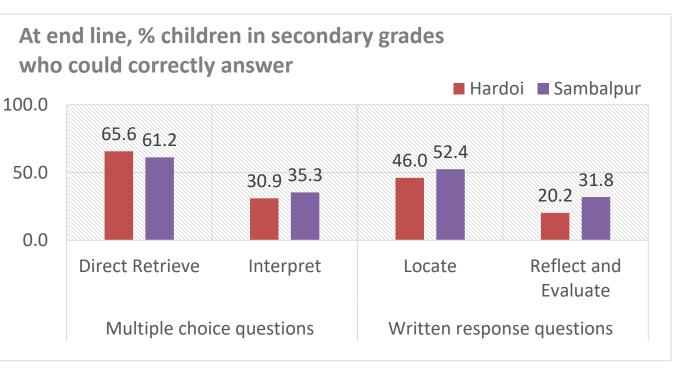
ARITHMETIC WRITTEN TEST



Students unable to do simple reading comprehension tasks

Q 1.	नन्ना को ''नख़रैलू'' नाम किसने दिया?					
	a) माँ ने					
	b) जयन्त फूफा ने					
	c) नानाजी ने					
	d) अशोक चाचा ने 📃					
	e) उत्तर पता नहीं					
Q 7.	नन्ना ने चाट के लिए मना किया था पर उस	ने आइसक्रीम की माँग क्यों की?				
	a) क्योंकि नन्ना को चाट से ज़्यादा आइसक्रीम पसंद थी।					
	b) क्योंकि नन्ना को सबक मिला कि सब चीज़ें माँगने से ही मिलती हैं।					
	c) क्योंकि सब चाट खा रहे थे और नन्ना सबसे अलग चीज़ खाना चाहता था। 📃					
	d) क्योंकि नन्ना को एहसास हो गया था कि कोई उसकी खुशामद नहीं करेगा।					
	e) उत्तर पता नहीं					
Q 3.	Q 3. नन्ना नखरे नहीं करना चाहता था फिर भी हमेशा नखरे करता था। यह बात कहानी के किस वाक्य र साबित होती है? वह वाक्य कहानी में से खोजकर लिखें।					
ਤ	त्तर					
Q 8.	क्या पिकनिक पर नन्ना के साथ जो हुआ वा	र सही हुआ? हाँ या नहीं और क्यों?				

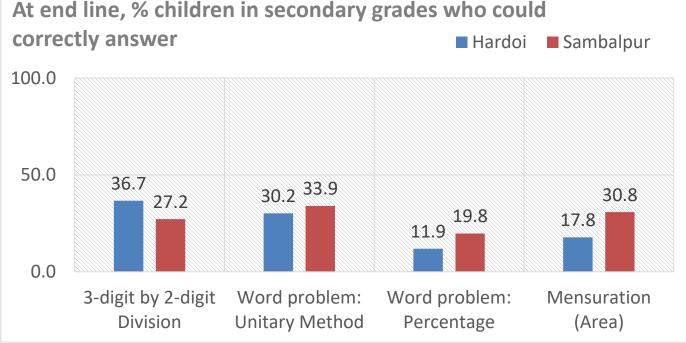
उत्तर

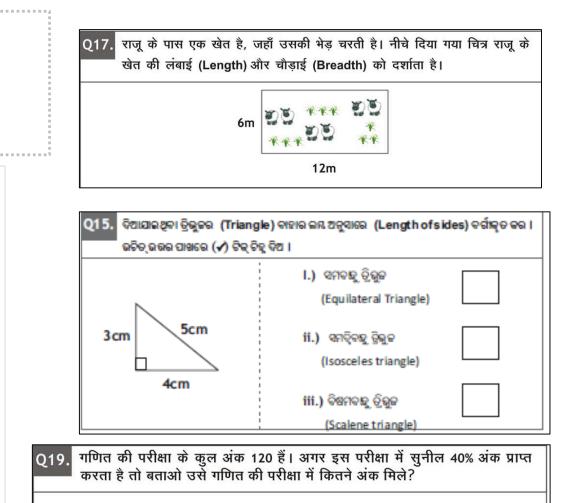


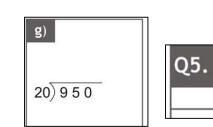
- Despite testing concepts from two to three grades below, students have very low levels of learning in language tests.
- Ability to answer comprehension questions (multiple choice and written) that require interpretive thinking is lacking. These skills are important for students in higher grades and life.

Arithmetic levels very low

- Children's ability in solving key arithmetic questions is low despite eight years in school.
- About 6 in every 10 students in Hardoi and Sambalpur respectively could not solve a simple 3 by 2-digit division.

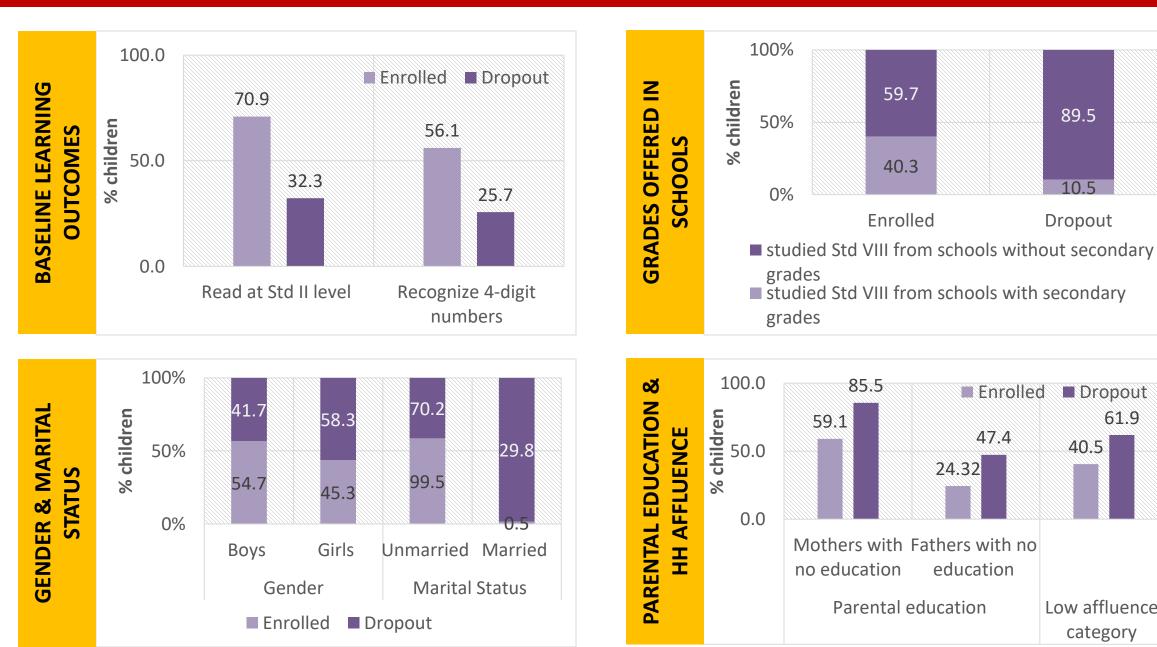






एक किसान एक क्यारी में 6 पौधे लगाता है। 138 पौधे लगाने के लिए उसे कितनी क्यारियाँ बनानी पड़ेंगी?

What factors affect school continuation after Std VIII?



89.5

10.5

Dropout

Dropout

Low affluence

category

40.5

61.9

Summary of findings

- Much of the government school provisioning in surveyed blocks is concentrated at primary and upper-primary levels. At the secondary school stage, private provisioning increases substantially in both locations.
 Trends in Hardoi are particularly startling with over-dependence on private secondary schools.
- Considerable student absenteeism witnessed in Std VIII classrooms during baseline survey, although with major differences between the study sites. Regular attendance is one of the many requirements for ensuring continuous teaching-learning.
- Much higher proportions of students in Hardoi dropped out in study compared to Sambalpur. Several factors like prior learning levels, number of grades offered in school, gender, marital status, parental education and household affluence influence children's school continuation post Std VIII.
- Learning levels at the end of elementary school (Std VIII) are below expected levels. Students entering secondary schools have low levels of learning in language and arithmetic concepts taught in primary and upper primary grades. Important to ensure that students are proficient in these skills given the demands of curriculum in high school.

Implications of findings and recommendations

- If the Rashtriya Madhyamik Shiksha Abhiyaan (2009) goal of achieving universal access to secondary education is to be met, school provisioning at the secondary stage should be increased
 - This has clear implications for access to post-elementary education for children from disadvantaged backgrounds. Our data indicates that children from schools providing continuous education in both elementary and secondary grades, were less likely to drop out.
- Findings confirm that all factors being equal, children's prior learning levels are an important predictor of their continuation into secondary as well as later learning outcomes
 - It is therefore imperative that efforts to improve children's learning levels begin much earlier in their educational trajectories in order to, both improve transition from elementary to secondary education as well as ensure minimum levels of ability in language and arithmetic.

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