The South African National Income Dynamics Study

Education Module – Wave 1 and 2

Nicola Branson, David Lam and Linda Zuze

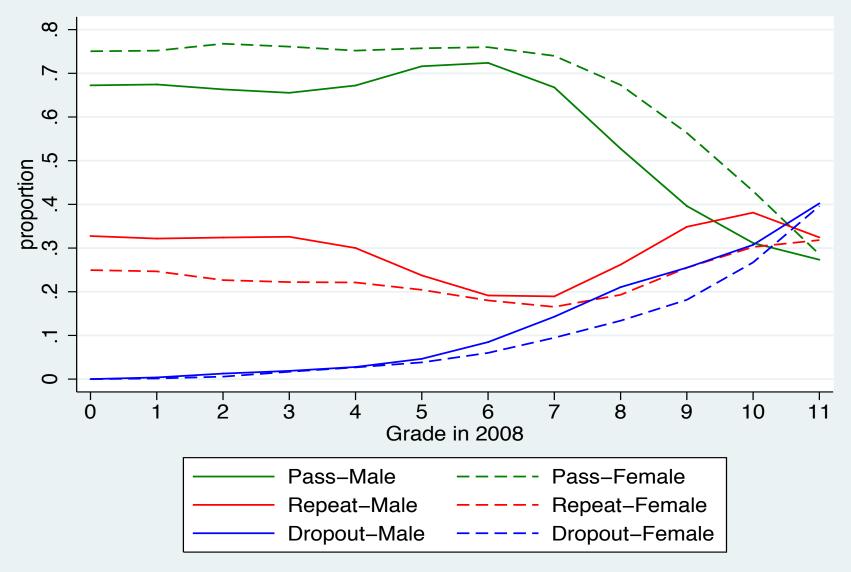
Education questions asked in NIDS

- Very detailed education section
- Panel allows us to
 - document progress through school at the individual level
 - Identify reasons for choices made (e.g. why dropped out of school)
- Questions addressed directly to individuals, or for children to their primary caregiver, not asked of the household respondent

Education questions asked in NIDS

- Asked about enrolment and the result passed, failed, withdrew - of each schooling year
- Plus, comprehensive history of repetition throughout schooling
- It is therefore possible to study transitions in and out of school and across grades
- Plus NIDS has in-depth questions of transitions from school to work

Progress through school – 2008 to 2010

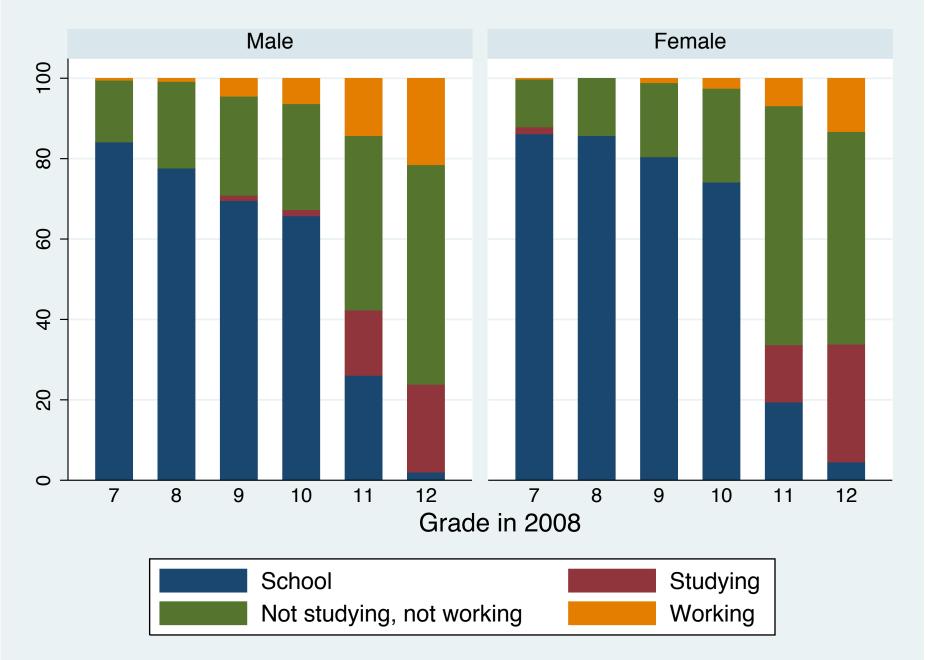


Transitions from school to work

	Grade in 2010					Post school	Not enrolle d/not workin	Employ -ed	n	
Grade in 2008	7	8	9	10	11	12		g		
Grade 7	0.6	15.0	69.5	0.0	0.0	0.0	0.9	13.5	0.4	473
Grade 8	0.0	1.9	14.4	65.3	0.0	0.0	0.0	17.9	0.4	441
Grade 9	0.0	0.0	4.9	27.1	42.6	0.0	0.7	21.8	3.0	402
Grade 10	0.0	0.0	0.0	4.8	24.8	40.3	0.8	24.9	4.5	453
Grade 11	0.0	0.0	0.0	0.0	5.1	17.2	15.1	52.4	10.1	444
Grade 12	0.0	0.0	0.0	0.0	0.0	3.2	25.4	53.8	17.6	375

Transitions from school to work

Cuada in	Grade in 2010					Post school	Not enrolle d/not workin	Employ -ed	n	
Grade in 2008	7	8	9	10	11	12		g		
Grade 7	0.6	15.0	69.5	0.0	0.0	0.0	0.9	13.5	0.4	473
Grade 8	0.0	1.9	14.4	65.3	0.0	0.0	0.0	17.9	0.4	441
Grade 9	0.0	0.0	4.9	27.1	42.6	0.0	0.7	21.8	3.0	402
Grade 10	0.0	0.0	0.0	4.8	24.8	40.3	0.8	24.9	4.5	453
Grade 11	0.0	0.0	0.0	0.0	5.1	17.2	15.1	52.4	10.1	444
Grade 12	0.0	0.0	0.0	0.0	0.0	3.2	25.4	53.8	17.6	375



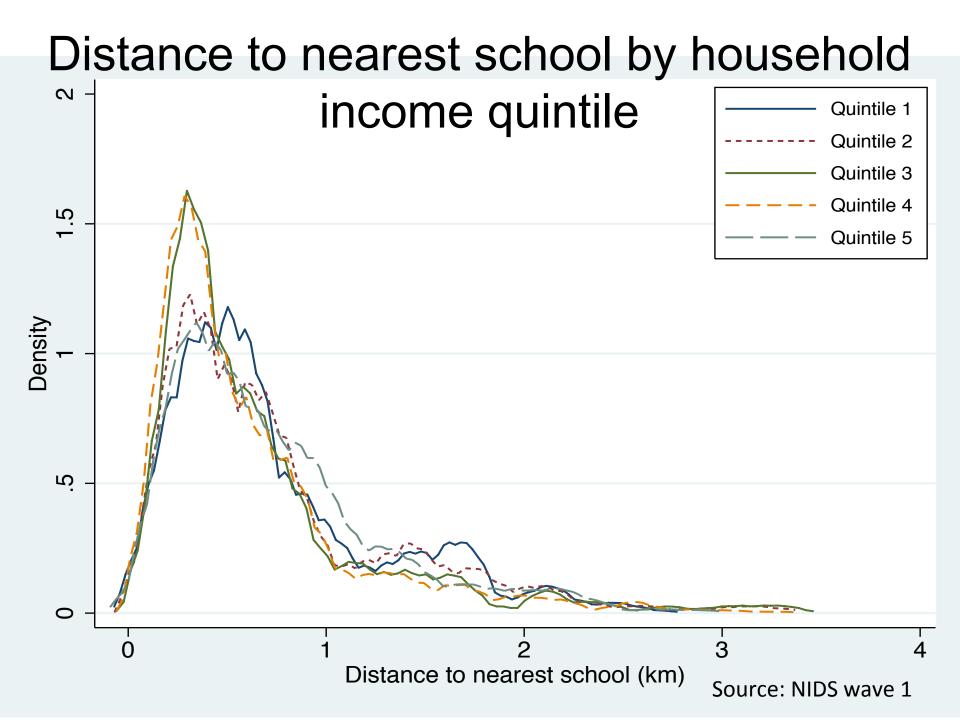
Administrative data in NIDS

Wave 1 schools

Information on Schools in NIDS

• Have information on:

the school the individual attends
 plus all schools in their neighbourhood



Access to schools

- Most individuals have access to a school within 1km of their household
- Majority attend a school within a 2km radius of their household
- Higher income quintile learners have a wider number and range of schools
- For respondents who don't go to closest school:
 > Pick schools in higher quintiles
 > Hence less likely to be no-fee schools
 - Schools with lower pupil to teacher ratios

Education funding

- The National Norms and Standards for School Funding (NNSSF) assigns all schools a quintile ranking
- Schools allocated non-personnel expenditure budgets based on their quintile ranking
- Schools in quintiles 1 and 2 were made 'no fee schools' in 2007

Concerns around funding allocation

- School quintile status is based on the school's neighbourhood characteristics and may not accurately reflect the characteristics of the learner population
- 2. Schools in the first 3, even 4, quintiles are very similar
- 3. Allocation of non-personnel expenditures only, but personnel expenditure not allocated redistributively
- 4. 'No-fee' policies may unintentionally exacerbate the two-tier education system

How well targeted are the school quintiles?

	School quintile						
	1	2	3	4	5		
	Mean	Mean	Mean	Mean	Mean		
Learner population characteristics:							
Mother's education	6.87	7.69	8.23	9.05	11.27		
Father's education	6.33	7.08	7.68	8.74	10.80		
Urban	18%	20%	53%	77%	96%		
Household income quintile	2.02	2.16	2.40	2.78	3.86		
Household size	6.65	6.24	6.64	5.92	5.26		
% of household adults employed	26%	24%	28%	38%	53%		

Source: NIDS wave 1

How distinct are learner characteristics between quintiles?

	School quintile						
	1	1 2 3 4					
	Mean	Mean	Mean	Mean	Mean		
Learner population characteristics:							
Mother's education	6.87	7.69	8.23	9.05	11.27		
Father's education	6.33	7.08	7.68	8.74	10.80		
Urban	18%	20%	53%	77%	96%		
Household income quintile	2.02	2.16	2.40	2.78	3.86		
Household size	6.65	6.24	6.64	5.92	5.26		
% of household adults							
employed	26%	24%	28%	38%	53%		

How distinct are school characteristics between quintiles?

	School quintile									
	1	1 2 3 4 5								
	Mean	Mean	Mean	Mean	Mean					
No fee school	98%	100%	0	0	0					
Pupil-teacher ratio Number of learners	34	34	35	38	30					
2008	636	545	795	890	767					

Comparison of outcomes by school quintile

	School quintile category					
	1-2 No fee schools	3-4	p-value: 1-2	5		
	Mean	Mean	3-4	Mean		
Ever repeated (before 2008)	38%	34%	0.029	20%		
Number of repetitions	1.7	1.6	0.124	1.3		
Outcome between 2008 and 2010:						
Passed	60%	61%	0.395	74%		
Repeated	29%	28%	0.290	17%		
Dropped out	11%	11%	0.847	9%		

Source: NIDS wave 1

Summary of main findings

- Most learners have access to a school in their neighbourhood and the majority attend this school
- School quintile system fairly accurate in targetting the poorest neighbourhoods and learners
- Characteristics of school learner population by quintile not remarkably different –except quintile 5
- Outcomes of learners between 2008 and 2010 across the lower quintile schools similar

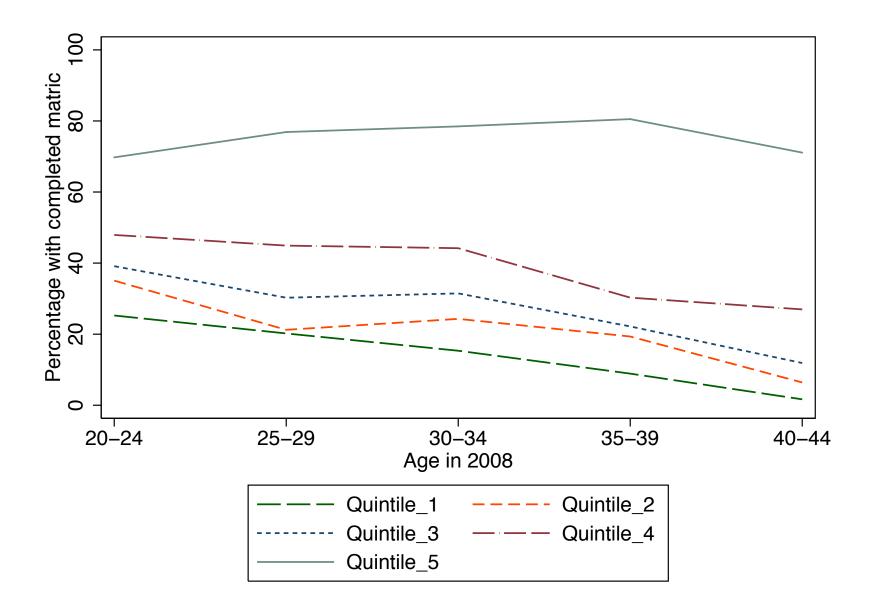
Thank you

Transition Errors

- 21% of sample have implausible transitions
 - 7.6% progress >1 grade per year
 - 3% progress without successfully completing the previous grade
 - 12.8% remain in the same grade although they completed it in the previous year
 - 4.5% regress a grade

Sample Sizes and Attrition

			All	Complete education module only		
-	Wave 1	Wave 2	Attrition rate	Wave 2	Attrition rate	
Grade 0-12 in 2008	8217	7011	14.68%	6598	19.70%	
Grade 0-7 in 2008	5160	4449	13.78%	4282	17.02%	
Grade 8-12 in 2008	3057	2562	16.19%	2316	24.24%	



Success in Coding Schools

			Last
	School in	School in	School
	2008	2007	attended
Number of valid school responses	8,344	2,796	12,980
Number coded	7,497	2,395	8,706
Coding rate	90%	86%	67%