

Conclusions, cont.

- Is it really the effect of the program?
 - without randomized experiments we can never be sure
 - evidence supports the causal effect interpretation
 - certainly the effect of better education (whether because of the program or not)
- Policy conclusions
 - integrated education *does not hurt* anyone *if done well*
 - *quality education* is the key to good results
 - teacher training can be effective
- What now?
 - the original program is going through many changes (will achievements be preserved?)
 - reinforces the need for *quality education*
 - potential policy interventions: teacher training, school management, incentives

Conclusions

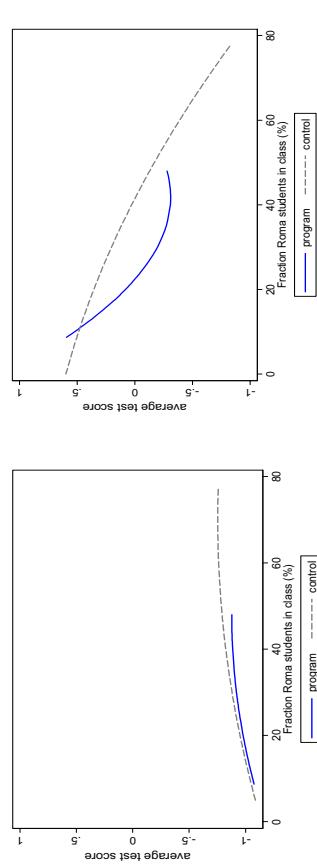
- The effect of the OOIH program is positive
 - on students' reading skills
 - on students' admission to secondary schools
 - on students' self-esteem, locus of control and coping
 - on non-Roma students' social distance from their Roma peers (smaller distance)
- The effects are not very large
 - but they are present in *all dimensions*
 - and they are positive for *all kinds of students (Roma and non-Roma, disadvantaged and non-disadvantaged)*
- The mechanisms are complex
 - student-centered education and student autonomy seem important
 - Program sometimes (but not always) breaks the negative effect of student composition

- in many cases results are strong only if fraction Roma stays below 30%
- inter-racial contact shown to always increase tolerance for non-Roma

Social distance and the ethnic composition of the class

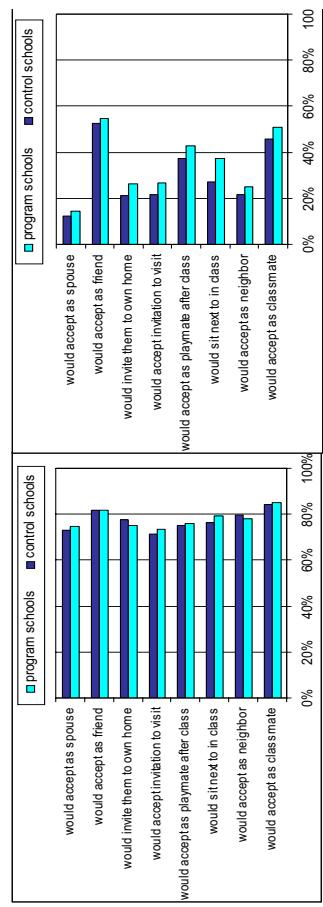
Social distance kept by Roma students

Social distance kept by non-Roma students



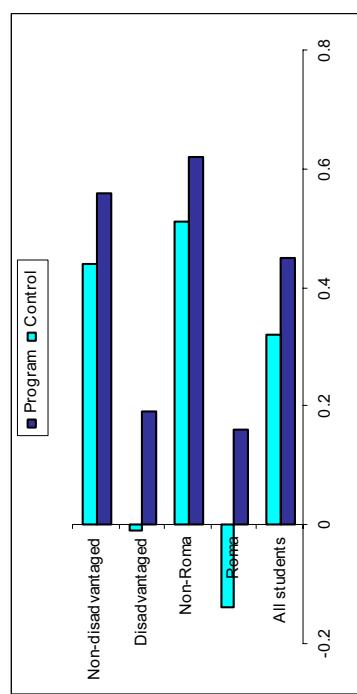
Social distance among ethnic groups

How much do the non-Roma accept the Roma?



Coping

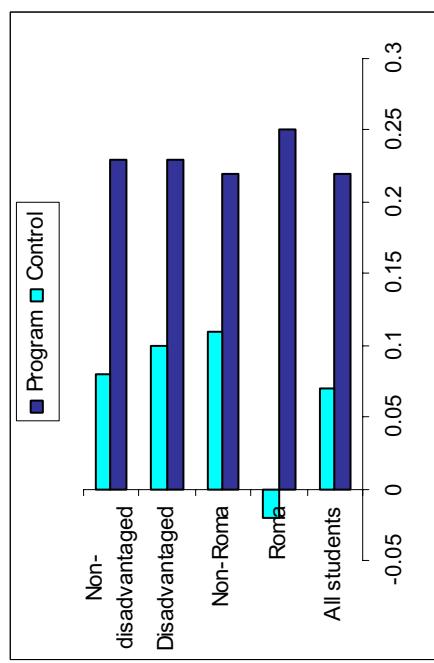
Standardized Coping test results, grade 8



Note: 0 is the national average, lower than the sample average

Locus of control

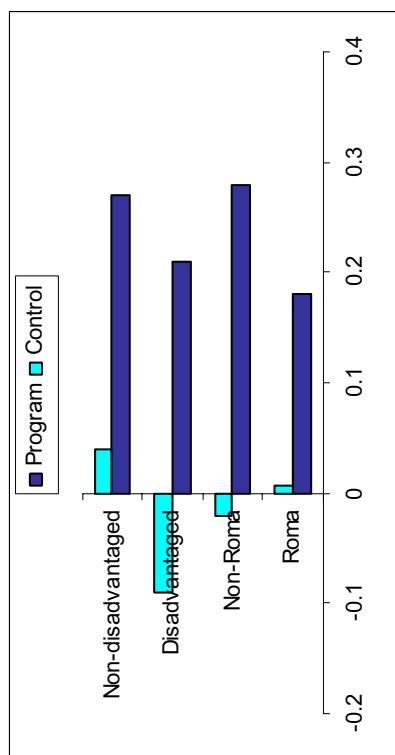
Standardized Rotter Locus of Control test results, grade 8



Note: 0 is the national average, lower than the sample average

Self esteem

Standardized positive self-esteem test results, grade 8



Note: 0 is the national average, lower than the sample average

"Non-cognitive skills"

- Self-esteem

- measurement: adopted and standardized Harter-SPPC test (4 components /exterior, school performance, good behavior, social functioning/ plus general, aggregated into one score)

- Locus of control

- the extent to which people think they can influence their own destiny
- measurement: adopted and standardized Rotter test

- Coping

- the extent to which people can go on w/o lasting negative consequences after some difficult situations even if the problem remains
- measurement: standardized test of our own

- These traits are

- as important as cognitive skills (in labor market success and avoiding deviant behavior)
- can be influenced in adolescence (as opposed to cognitive skills)

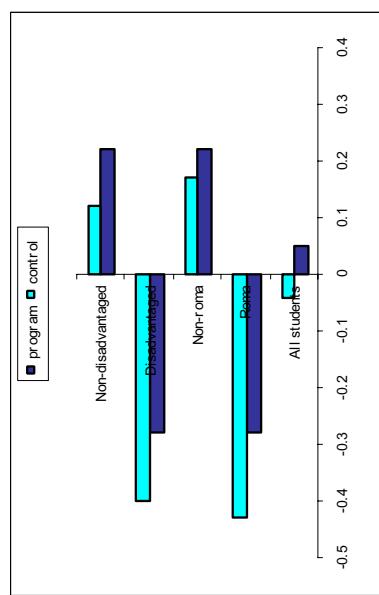
Admission to secondary schools (with maturity at end)

Admission rates (%) after having finished grade 8

	Program	Control	Diff
All students	69	60	+9
Roma	49	37	+12
Non-Roma	77	70	+7
Disadvantaged (HH)	44	40	+4
Not disadvantaged (non-HH)	78	68	+10

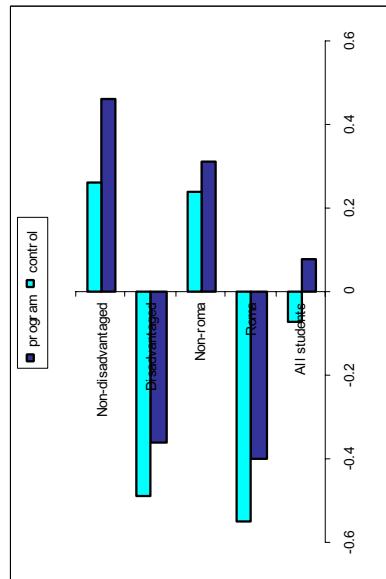
Reading skills

Standardized reading skills, grade 8



Reading skills

Standardized reading skills, grade 4



Student-teacher relationship, student autonomy

In program schools:

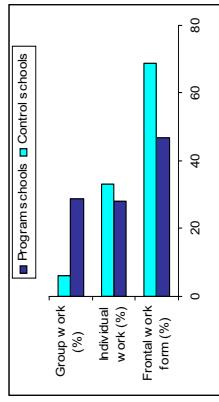
- Student-teacher relationship more personal
 - Student-student relationship more cooperative
 - Student autonomy higher

Distribution of classes observed (%)

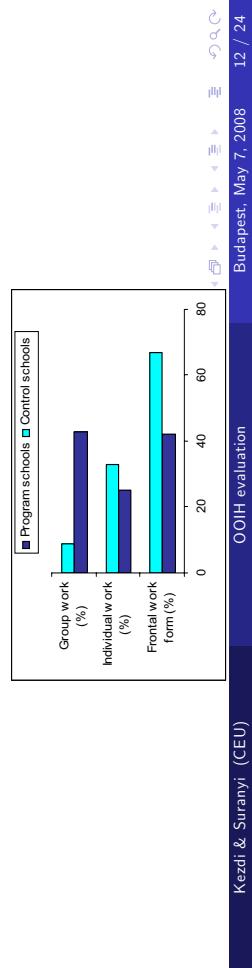
	Grade 3			Grade 7		
	P	C	diff	P	C	diff
S-T relationship: personal contact	54	35	+19	39	26	+13
S-S rel: cooperation med. or high	95	46	+49	82	34	+48
Student autonomy: medium or high	54	40	+14	47	33	+14

Forms of activity

In program schools, group activities (cooperative) are more frequent
Grade 3

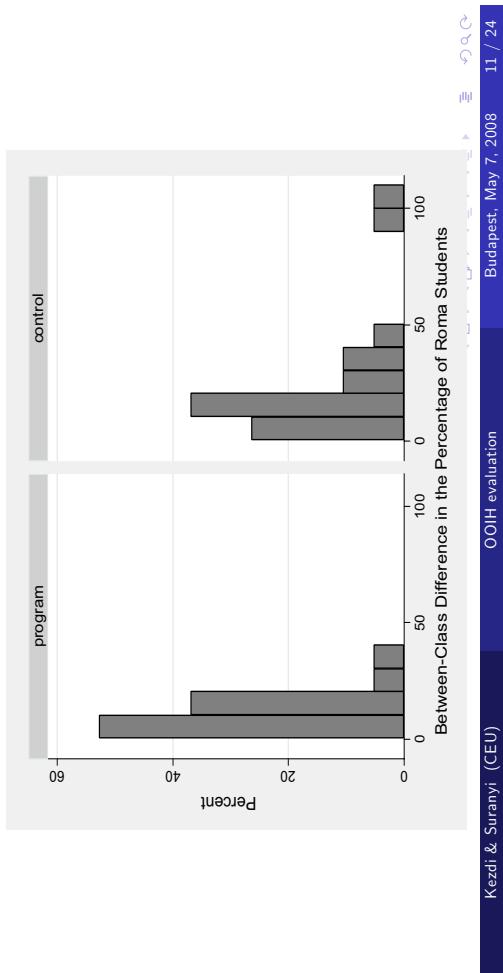


Grade 7



Integrated education

In program schools, across-group differences within same grade are small in terms of ethnic composition. Such differences are large in quite a few control schools.



Results to be presented

- Schools
 - ethnic integration
 - some on teaching methods and classroom dynamics
- Student results
 - reading tests
 - secondary school admission
 - self-esteem, locus of control, coping
 - social distance to other ethnic group
- Student results and student composition in class
 - results of Roma and non-Roma by fraction of Roma students

- Simple comparisons presented only

- regression estimates and restricted sample estimates show similar results (somewhat weaker for reading tests)

Measurement of ethnic identity

- Assessed by parents
 - "Please indicate which of the following characterizes the ethnic/national identity of your child. Feel free to indicate multiple categories. My child is
 - Hungarian, non-Roma; Hungarian, Roma; Hungarian, partly Roma; Non-Hungarian, Roma; Romanian; Slovak;..."

Fraction of Roma students from parents' declaration versus schoolteachers' estimates

Estimates		Grade 4		Grade 8	
		P	C	P	C
Fraction Roma, parental declaration (%)		35	35	27	29
Fraction Roma, schoolteacher estimates (%)		34	36	27	33
Missing parental declaration (%)		25	28	27	32

Measurement

Three waves of data collection

① 2004/5: "input measurement"

- students: cognitive and non-cognitive skills, grades, etc.
- schools: class composition, participation in other programs etc.

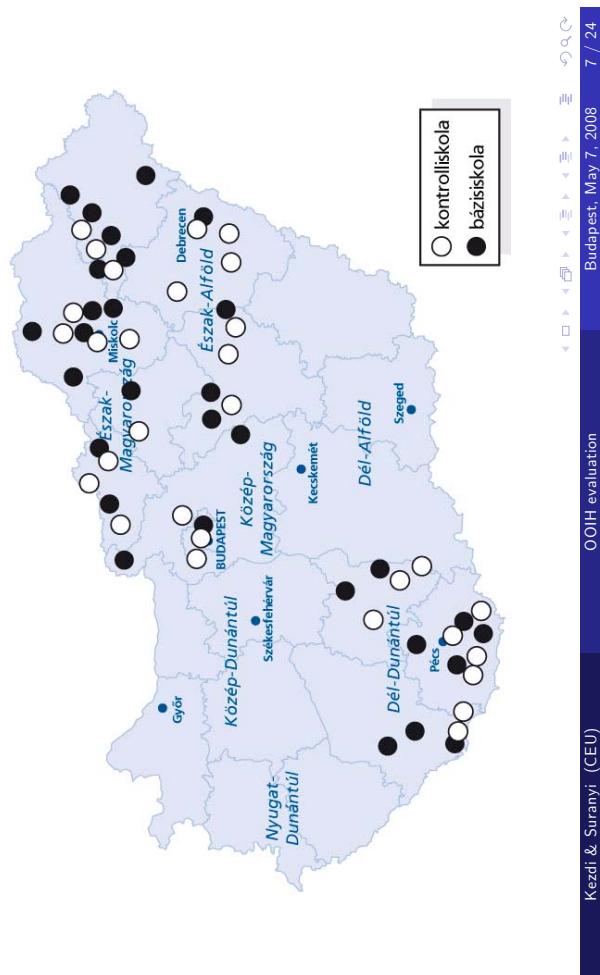
② 2005/6:

- students: family background (questionnaire to parents)
- classroom observations

③ 2006/7: "outcome measurement"

- students: ethnic identity (from parents), cognitive and non-cognitive skills etc., grades, further education (admissions)

Geographic distribution of the matched sample



Characteristics of the matched sample

Student composition, measured in 2006

	<i>Program</i>	<i>Control</i>	<i>National</i>	<i>Program</i>	<i>Control</i>	<i>National</i>
	<i>Grade 3</i>	<i>Grade 7</i>		<i>Grade 3</i>	<i>Grade 7</i>	
Number of students with information	810	909	91,349	757	897	92,588
Fraction girls (%)	47	48	50	49	50	49
Welfare eligible (%)	37	37	19	31	35	20
Eligible for free meal in school (%)	59	60	28	10	8	4
Eligible for free school books (%)	73	83	57	66	78	52
Average family size	4.9	5.0	4.5	4.7	4.8	4.4
Fraction with father in family (%)	78	76	83	76	73	79
Mother uneducated (8 grades or less, %)	43	43	21	40	40	19
Father uneducated (8 grades or less, %)	35	35	16	32	29	13
Fraction with working mother (%)	41	42	66	52	51	73
Fraction with working father (%)	64	64	84	69	65	80
Avg. size of apartment (square meter capita)	19.0	19.0	n.a.	20.8	20.5	n.a.
Average monthly spending (HUF '000)	109	110	n.a.	120	115	n.a.
Fraction who think poor (%)	38	38	17	29	29	14
Fraction who were not on holiday (%)	41	41	21	28	31	18
Fraction without a car (%)	46	48	27	44	43	27
0 to 50 books at home (%)	35	35	16	29	27	12

Control group selection here

Matching at school level

- 60 schools: 30 program schools and 30 control schools
- matched sample: every program school has a matched control pair
 - within same region and village/town type
 - propensity score matching using many pre-program characteristics (student composition, competence test results, some evidence on Roma students etc.)
 - checked with sociologists with local knowledge
- Student sample
 - all students who were in grade 1 or 5 in 2003/4
 - followed them through grade 4 and 8, respectively

Evaluation methodology

- The basic question
 - Results of participants (schools, students) after the program
 - Compared to the results they would have achieved without the program
 - comparison to control group
- Non-experimental evaluation
 - Control group: schools matched to the program schools
 - Methods of comparison:
 - simple comparison of mean outcomes
"P" (program schools) versus "C" (control schools)
 - regression estimates controlled for family background and earlier outcome measures (and social desirability)
 - comparison in a selected sample of schools that were not integrating before the program
- This presentation shows results from the simple comparisons
 - the more complicated methods yield very similar results

Evaluation questions

① Effects on schools

- integrated education
- education methods, classroom management
- student behavior

② Effects on students

- grades, further education, competence (reading tests)
- self esteem, locus of control
- social anxiety, social dominance orientation
- prejudice, social distance across ethnic groups (Roma versus non-Roma)

- Results are published in Hungarian in a recent volume
<http://www.sulinovadatbank.hu/letoltes.php?id=19439>

- Under translation into English by the Roma Education Fund

The OOIH program

- National Integrated Education Network (Országos Oktatási Integrációs Hálózat, OOIH)

- organized by the Hungarian Government
- the evaluated program started in fall 2003
- in 45 primary schools a.k.a. "bázis schools"
- grandfathered, starting with those in grades 1 and 5 in 2003/4
- Goal: integrated and quality education of Roma/disadvantaged students

- participating schools have sizeable Roma/disadvantaged minority
- integration required across and within groups
- financial support: equipment, physical environment, etc.
- educational support: intensive training in modern methods, consulting, etc.
- multiple elements, freedom of choice for schools
- emphasis on schools (as opposed to individual teachers)
- monitoring (by young Roma)

RESULTS FROM A SUCCESSFUL SCHOOL INTEGRATION PROGRAM: Evaluation of the OOIH program, Hungary, 2005–2007

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Budapest, May 7, 2008