Early school leaving in the Netherlands
Policy and research

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We use the case of research on early school leaving in the Netherlands to explore facilitators and use of evidence informed policy.
Problem statement

Lisbon European Council (2000):
Halve the year 2000 number of school dropouts by 2012

Extensive policy in the Netherlands organized by ‘projectdirectie voortijdig schoolverlaten’ within the Ministry of Education

→ National target: halve the number of new early school leavers from 71.000 in 2002 to 35.000 in 2012 (and 25.000 in 2016)
  Note: denominator = all students in a given year

→ EU based target: 8% early school leavers by 2020
  Note: denominator = all people younger than 23 years old

→ This presentation:

Dutch policy on early school leaving, and its effectiveness

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Outline

A. What happened in the Netherlands?
   → Policy, effectiveness and lessons for evidence informed policy

   1. National registration
   2. Regional accountability
   3. School accountability (monetary incentives for schools)
   4. Qualification Law (increased compulsory education age)

B. Accounting for economic influences in school dropout
Dropout prevention
Improved registration

How do you know whether they left school (without diploma)?
→ Registration of students is the start of policy making
Basis Register Onderwijs Nummer (BRON)

→ Data set of *all* Dutch students at secondary education
→ Started in school year 2004/2005
→ Includes postcode of pupil, school number (‘brin’), parental information (e.g., one-parent family), social situation (e.g., living in poor area)
→ Can be matched with data from Statistics Netherlands and municipal registration (‘Gemeentelijke Basis Administratie’)

→ Registration in BRON on October 1.

    Early school leaver = A student younger than 23 who does not have a higher secondary diploma and is not enrolled in school on October 1, *while he/she was last year*

→ Note: still a lot of discussion on the definition, but at least a very good start

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These national data can be used for research and policy

Clear facilitator for evidence informed policy!

Lesson 1 for evidence informed policy: We need data, and preferably data which can be matched to existing databases
We show, however, that data inaccuracy exists after a school-age of 18, suggesting a poor follow-up of post-compulsory students enrolled in secondary education but with retention in grade

– e.g. because of a lower sense of urgency to research or a bad connection with the student and/or parents;

Due to the lack of inaccurate data:

The data issues make evidence informed policy for this subgroup difficult!

→ there is, basically, no convincing evidence for this group!

Lesson 2 for evidence informed policy:

We need **accurate** data
Outline

A. What happened in the Netherlands? -- Policy and effectiveness

1. National registration
2. Regional accountability
3. School accountability
4. Qualification Law

B. Accounting for economic influences in school dropout
Dropout prevention in the Netherlands (total budget of 313 million euro in 2008)

Regional accountability

→ 39 regions to coordinate dropout prevention measures
→ Regions can select policy measures out of a list suggested by the Ministry of education (‘the covenant’)

→ Chosen ‘covenant items’ are published on the website
Dropout prevention
Regional accountability

Regional accountability: the ‘convenant’

Preventive Measures
Mentoring & Coaching
Care & Advisory Teams
Smoothing Transition
Extended School

Curative Measures
EVC or Dual Tracks
Frequent Intakes

Dropout prevention policy

Compulsory Education
Registration & Communication
Reporting Truants ("verzuimloket")
Apprenticeships

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Which of the prevention measures go along with lower dropout?

Quantile regression controlling for regional fixed effects, a time trend, student and parental characteristics, neighborhood characteristics, and school type

<table>
<thead>
<tr>
<th>Impact of dropout prevention</th>
<th>0.25 quantile</th>
<th>0.5 quantile</th>
<th>0.75 quantile</th>
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<tr>
<td>Number of implemented prevention items</td>
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<td>Optimal track or profession</td>
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<td>Apprenticeship</td>
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<td>Reporting truants</td>
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<tr>
<td>Time fixed effects</td>
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<tr>
<td>Region fixed effects</td>
<td>Yes</td>
<td>Yes</td>
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</tr>
</tbody>
</table>
We reported our finding to the ministry, who made the following observations:

1. Too many tables! What is the outcome now?

Lesson 3 for evidence informed policy:
Present your research in a comprehensive way
We reported our finding to the ministry, who made the following observations:

2. These are correlations, not causal effects

Lesson 4 for evidence informed policy:
Researchers can be triggered by policy makers with research experience

Unfortunately, we could not distinguish a proper control group

Lesson 5 for evidence informed policy:
Make sure that policy is designed in such a way that a control group can be defined
Driven by this observation and to narrow the gap between research and policy, we started with a ‘Master on Evidence Based Policy and Evaluation’ (www.dtpa.nl).

- Last wave 15 participants, this wave 10 participants
- Extremely fruitful for both participants and researchers!
Outline

A. What happened in the Netherlands? -- Policy and effectiveness

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2. Regional accountability
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4. Qualification Law

B. Accounting for economic influences in school dropout
Monetary incentive for school of 2,500 euro per dropout less in comparison to base year 2005-2006

Note that the incentive is unfair if
- Some schools had dropout prevention schemes before 2005
- Background characteristics of the students differ

We tested the latter for the difference in school dropout between Amsterdam and Rotterdam; and for disadvantaged municipalities in Flevoland (e.g. Almere and Lelystad)

Conclusion:
If not properly accounted for the student characteristics, the monetary incentives are unfair.
Dropout prevention
school accountability

→ We reported our finding to the ministry, which has changed the rule.

Lesson 6 for evidence informed policy:
Policy makers need to be open for research evidence
Outline

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B. Accounting for economic influences in school dropout
Qualification law (2007):

- Students have to obtain a ‘starter qualification’ (= higher secondary diploma)

- In practice: increase in compulsory education age for vwo and mbo students
Thanks to qualification law:

Decrease of early school leaving by 2.52 percentage points, but effect is mainly driven by non-liable pupils leaving school (i.e., groenpluk)

Policy has adverse and unexpected effects

Lesson 7 for evidence informed policy: Complex situations and incentives of different actors do not always allow for proper ex ante evaluation
Outline

A. What happened in the Netherlands? -- Policy and effectiveness

1. National registration
2. Naming and shaming
3. Regional accountability
4. School accountability
5. Qualification Law

B. Accounting for economic influences in school dropout
Some economic and education characteristics significantly correlate to national early school leaving rates (Eurostat data from 2004-2011):

- the higher the GDP → the lower esl
- the higher GDP growth → the lower esl
- the higher youth unemployment → higher esl
- educational funding as percentage of GDP → no significant correlation
- higher compulsory education age → lower esl
- more grade retentions → higher esl
- higher minimum wage → lower esl
- ability grouping → no significant correlation
Policy versus economy

Early school leaving rate (left figure) is heavily influenced by the economic cycle.

→ We ‘removed’ economic influences, institutional differences and population differences from the gross figure (based on Eurostat data)
→ Result (right figure): ‘net’ policy effect

Figure 3: Naming and shaming based on policy influences
Conclusion

There is much to learn from early school leaving policy in the Netherlands:

1. Make sure that policy can be evaluated. Do not implement a policy in all schools at the same time, but allow for an experimental and evidence based set-up!

2. Introduce data systems that can combine data from different sources

3. Make sure that policy makers have some experience with research.


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