PISA 2012

What makes schools and school systems successful

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The structure of the PISA assessment

2000	2003	2006	2009	2012
Reading	Reading	Reading	Reading	Reading
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics
Science	Science	Science	Science	Science
	Problem Solving		Digital Reading	Problem Solving, Financial literacy, Digital Math, Digital reading

Helen the Cyclist

Helen has just got a new bike. It has a speedometer which sits on the handlebar. The speedometer can tell Helen the distance she travels and her average speed for a trip.

Helen rode 6 km to her aunt's house. Her speedometer showed that she had averaged 18 km/h for the whole trip.

Which one of the following statements is correct?

A. It took Helen 20 minutes to get to her aunt's house.

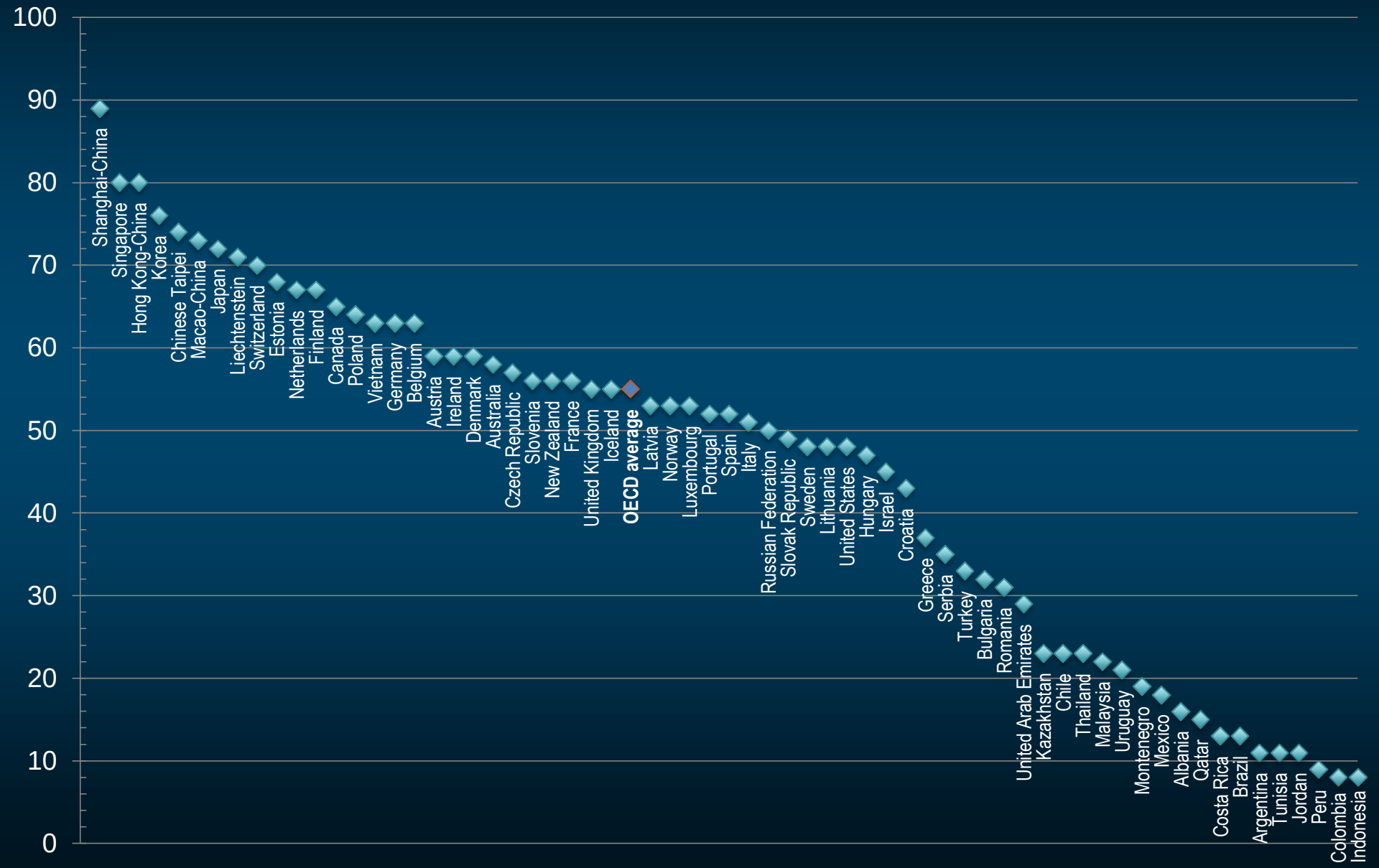
B. It took Helen 30 minutes to get to her aunt's house.

C. It took Helen 3 hours to get to her aunt's house.

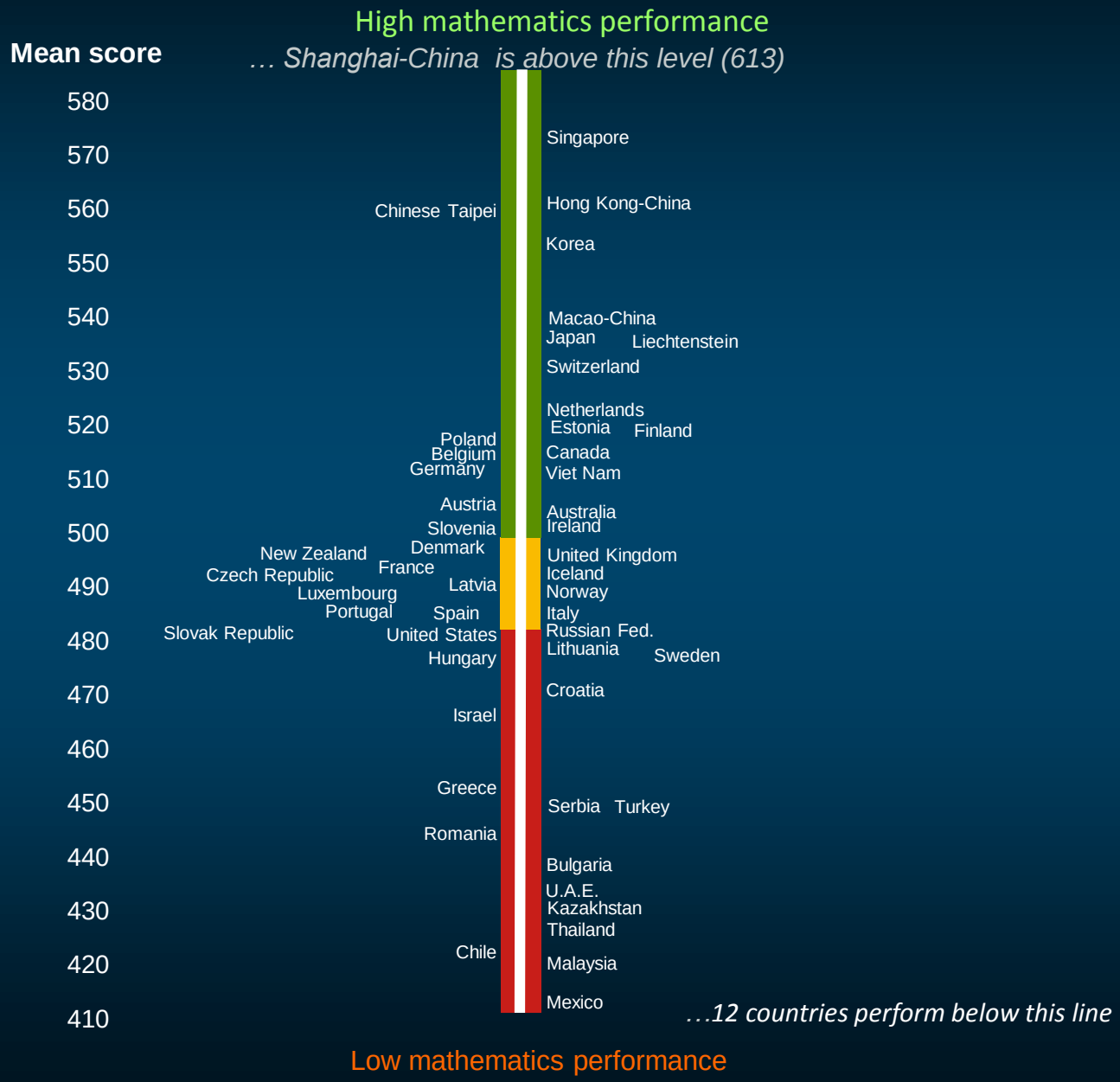
D. It is not possible to tell how long it took Helen to get to her aunt's house.

PISA 2012 Sample Question

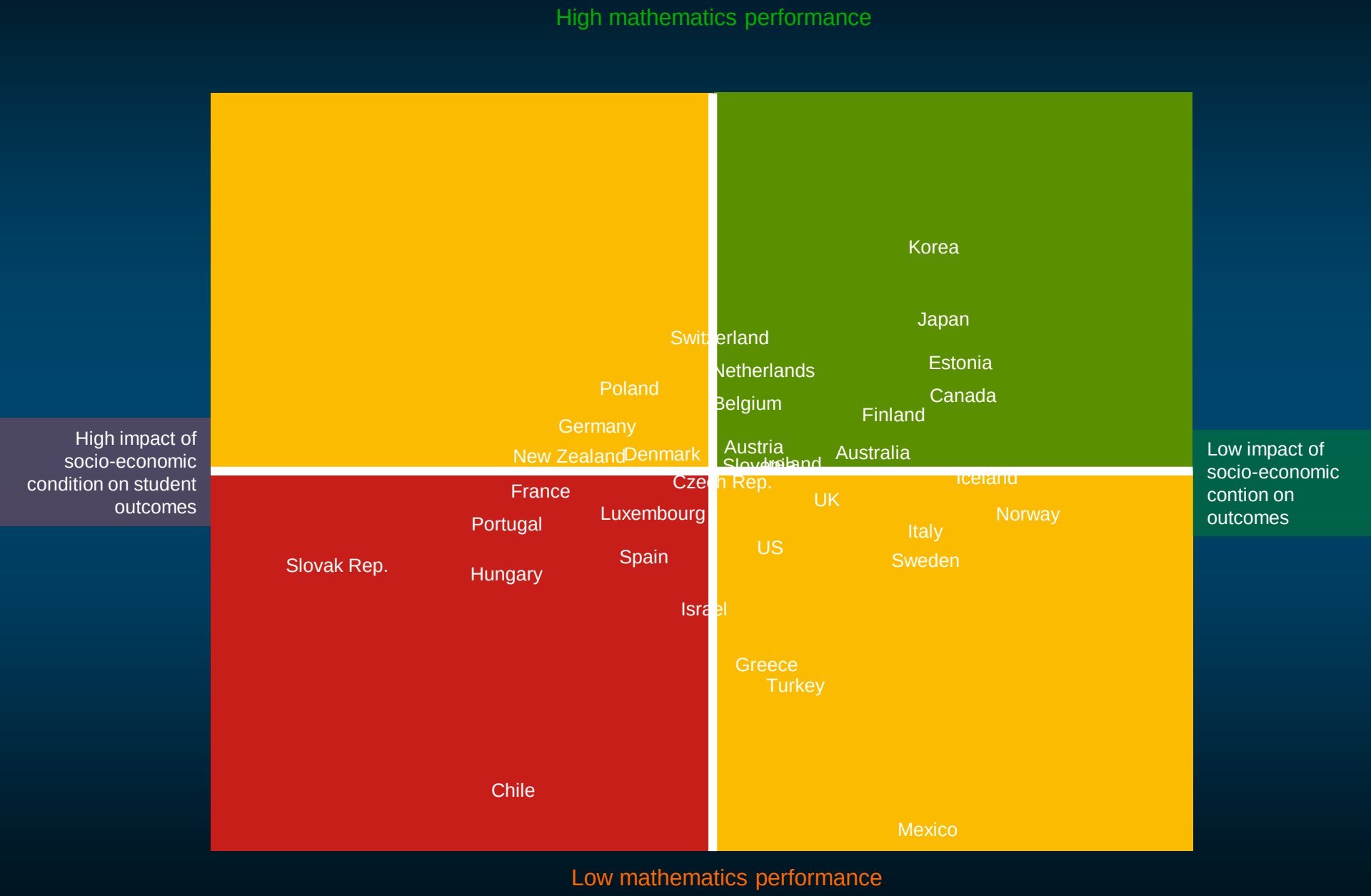
Percent of 15-year-olds who scored Level 3 or Above



Mean performance in mathematics – PISA 2012

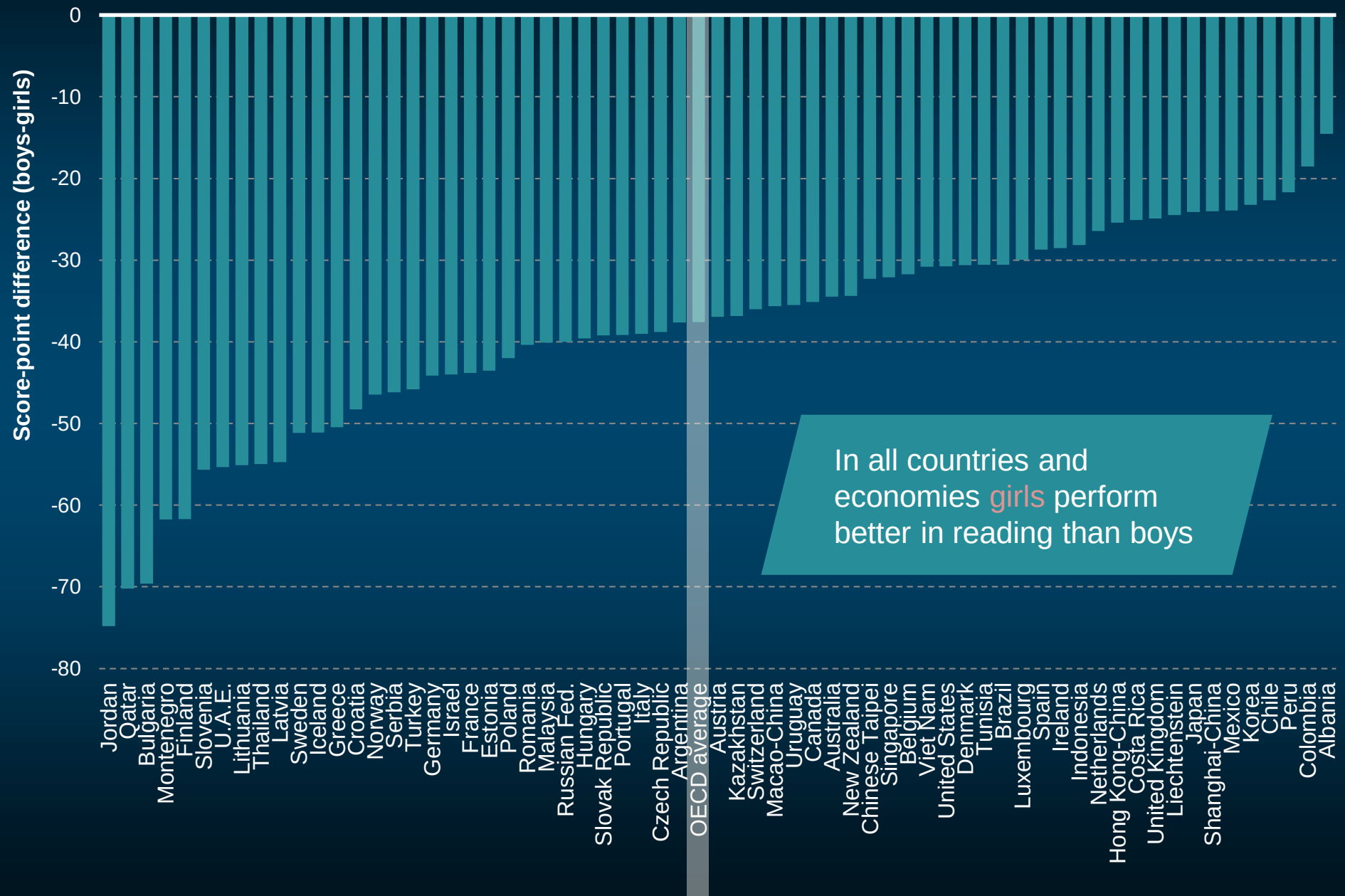


Performance and equity: a tradeoff ?

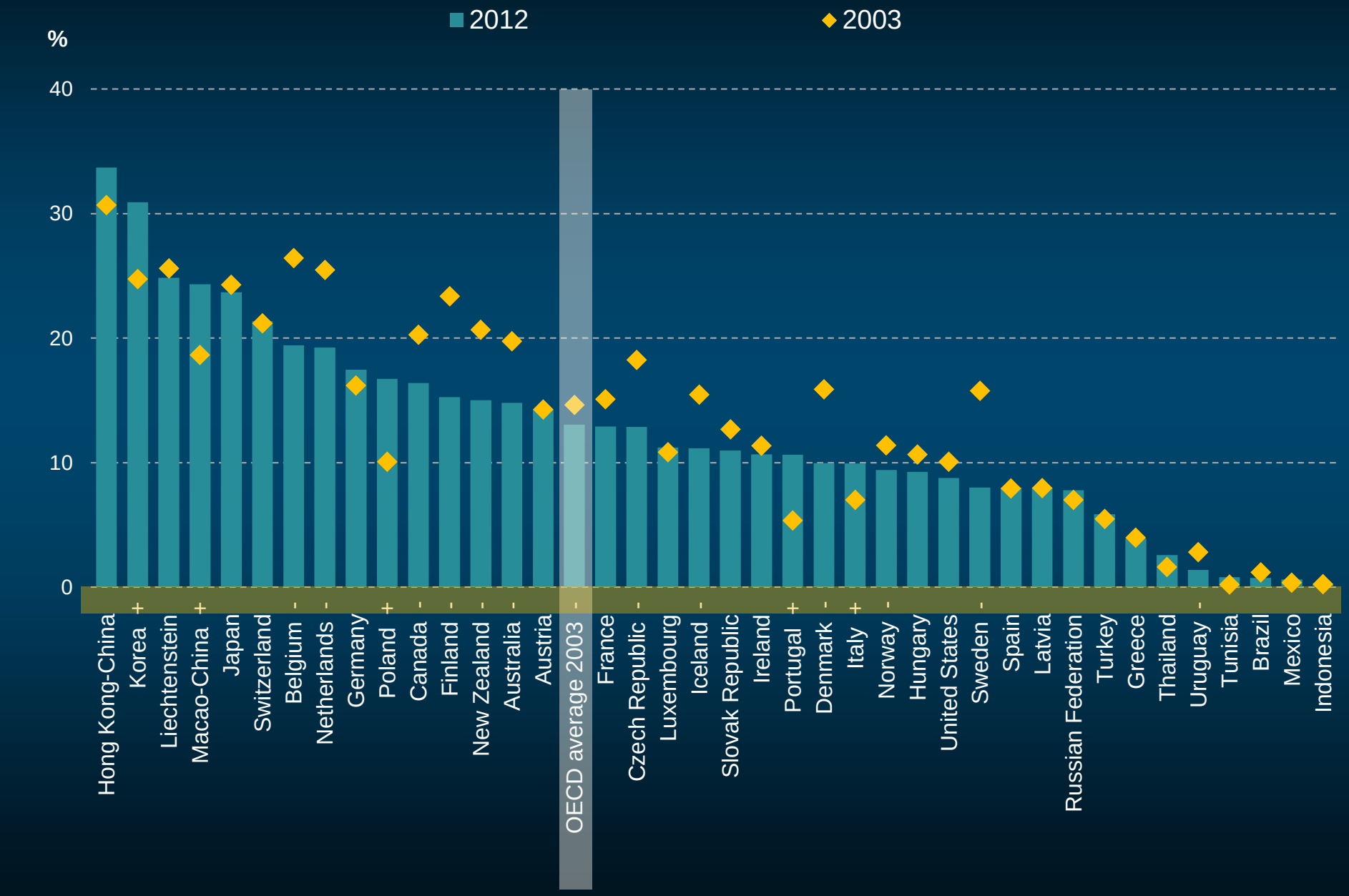


Gender differences in reading performance

Fig I.4.12



Percentage of top performers in mathematics in 2003 and 2012

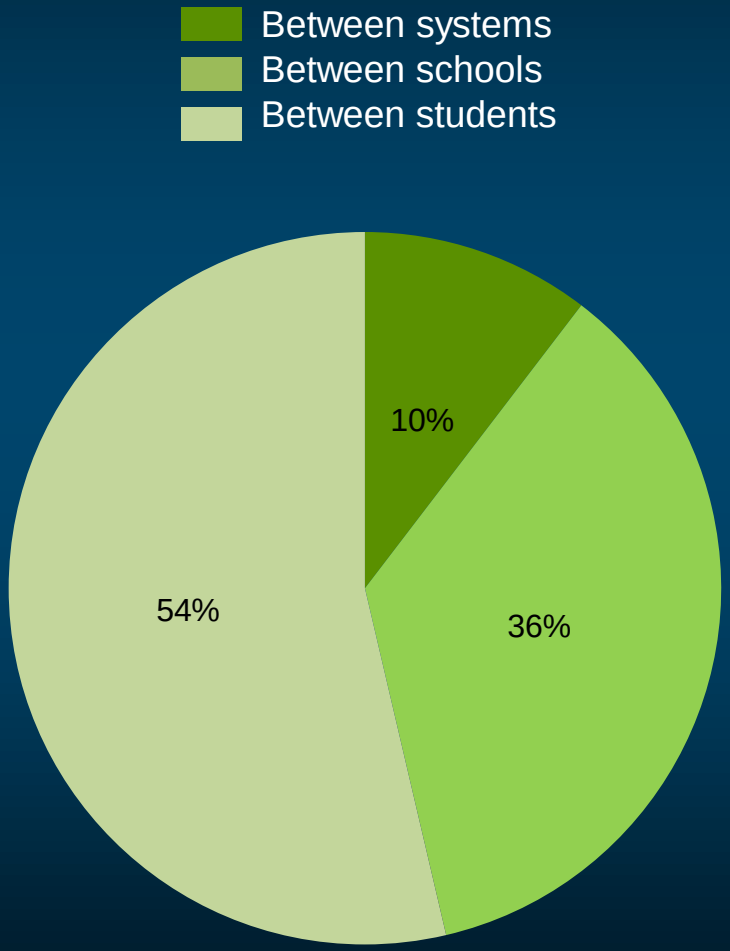


What makes schools and school systems successful?

Variation in mathematics performance between systems, schools and students

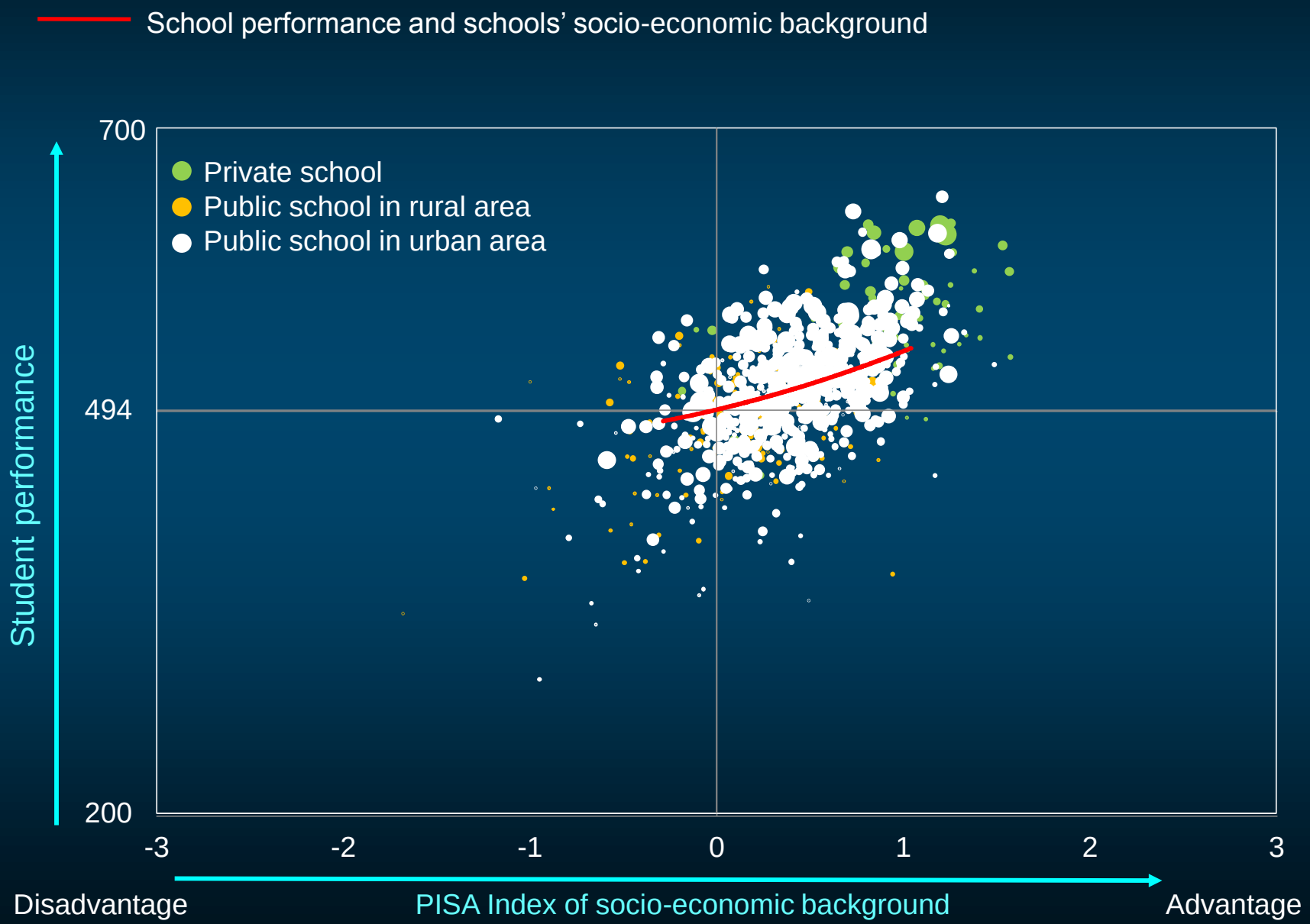
Fig IV.1.2

Variation in mathematics performance attributable to differences:

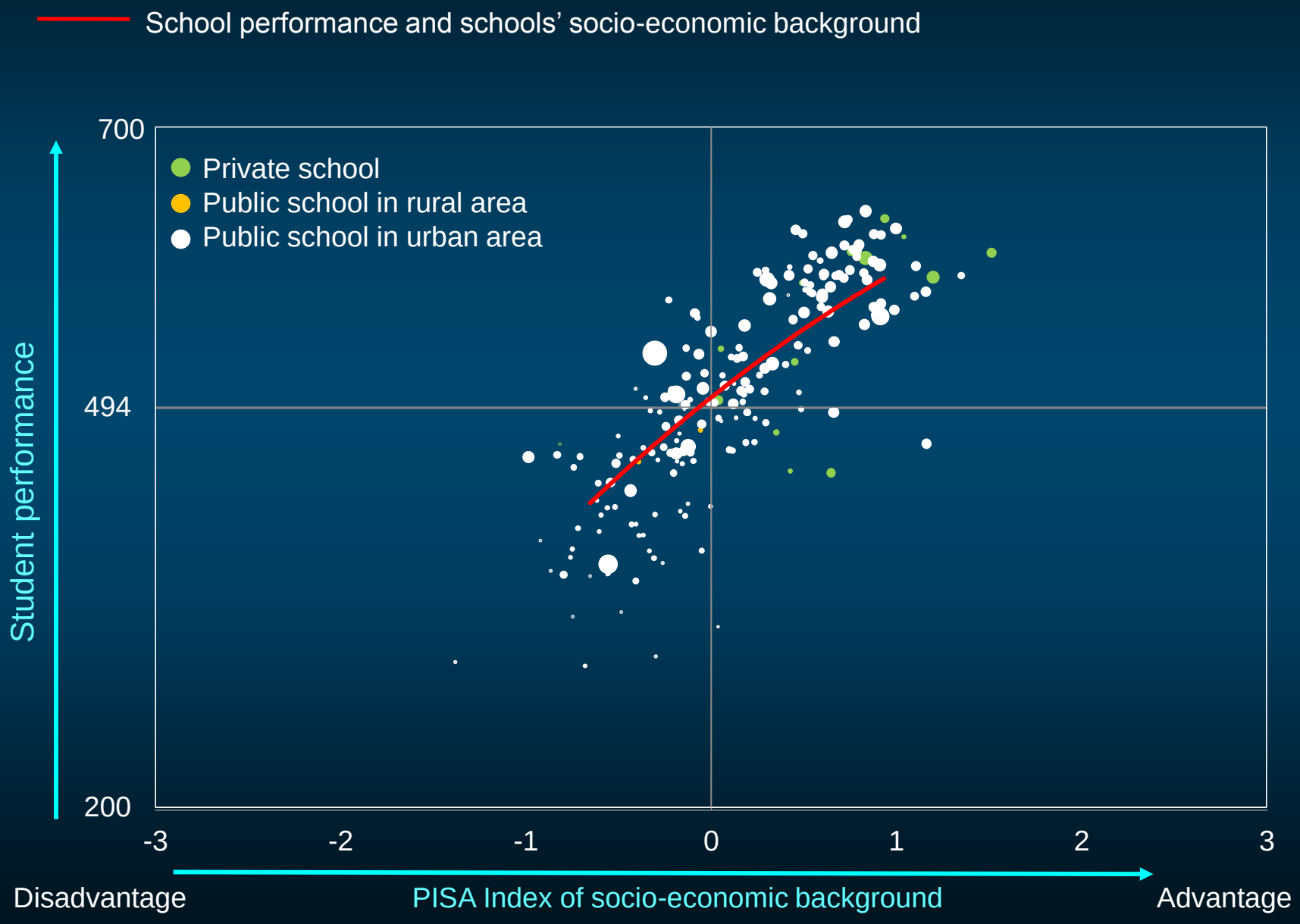


OECD countries

School performance and socio-economic background: Canada

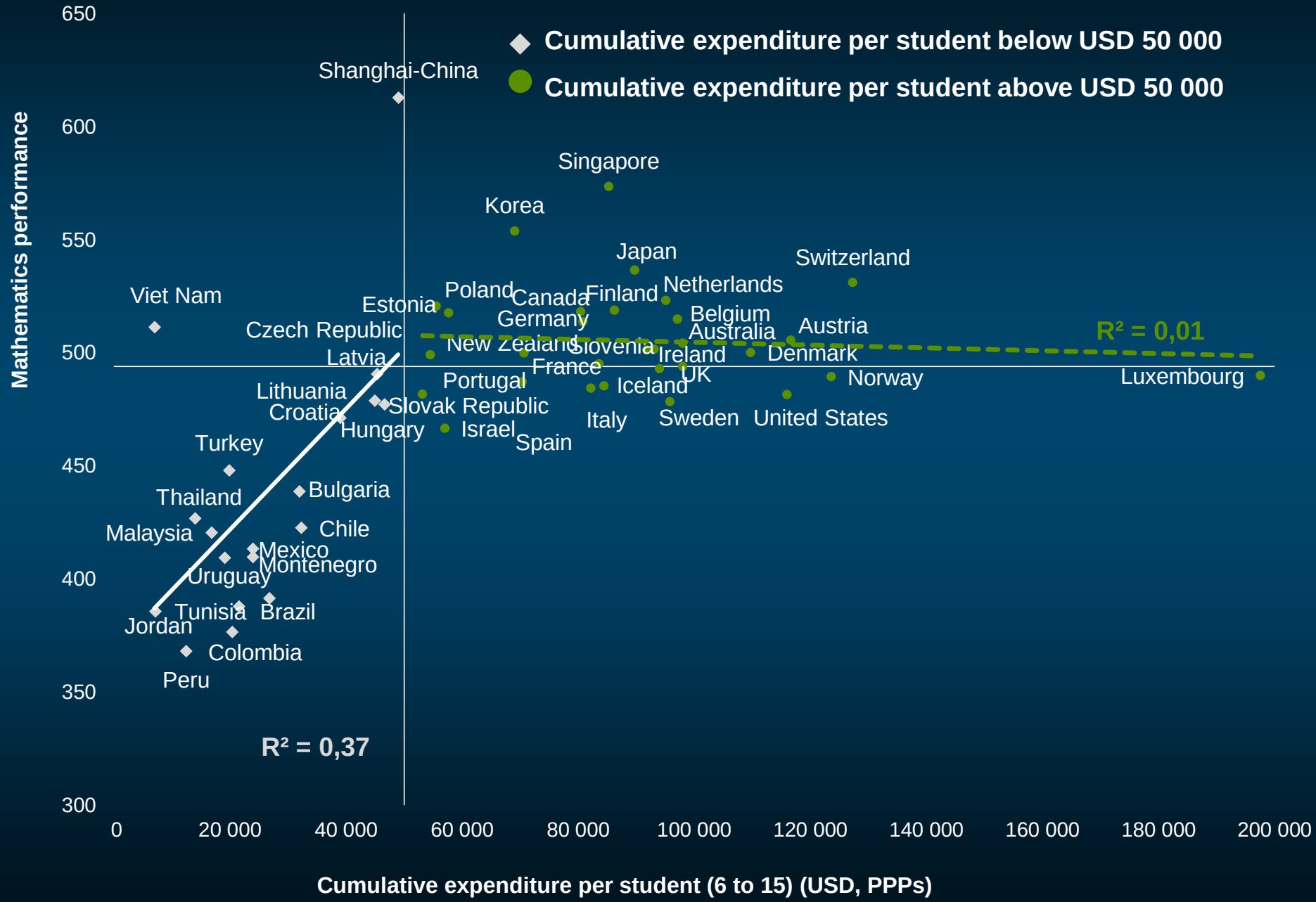


School performance and socio-economic background: Germany



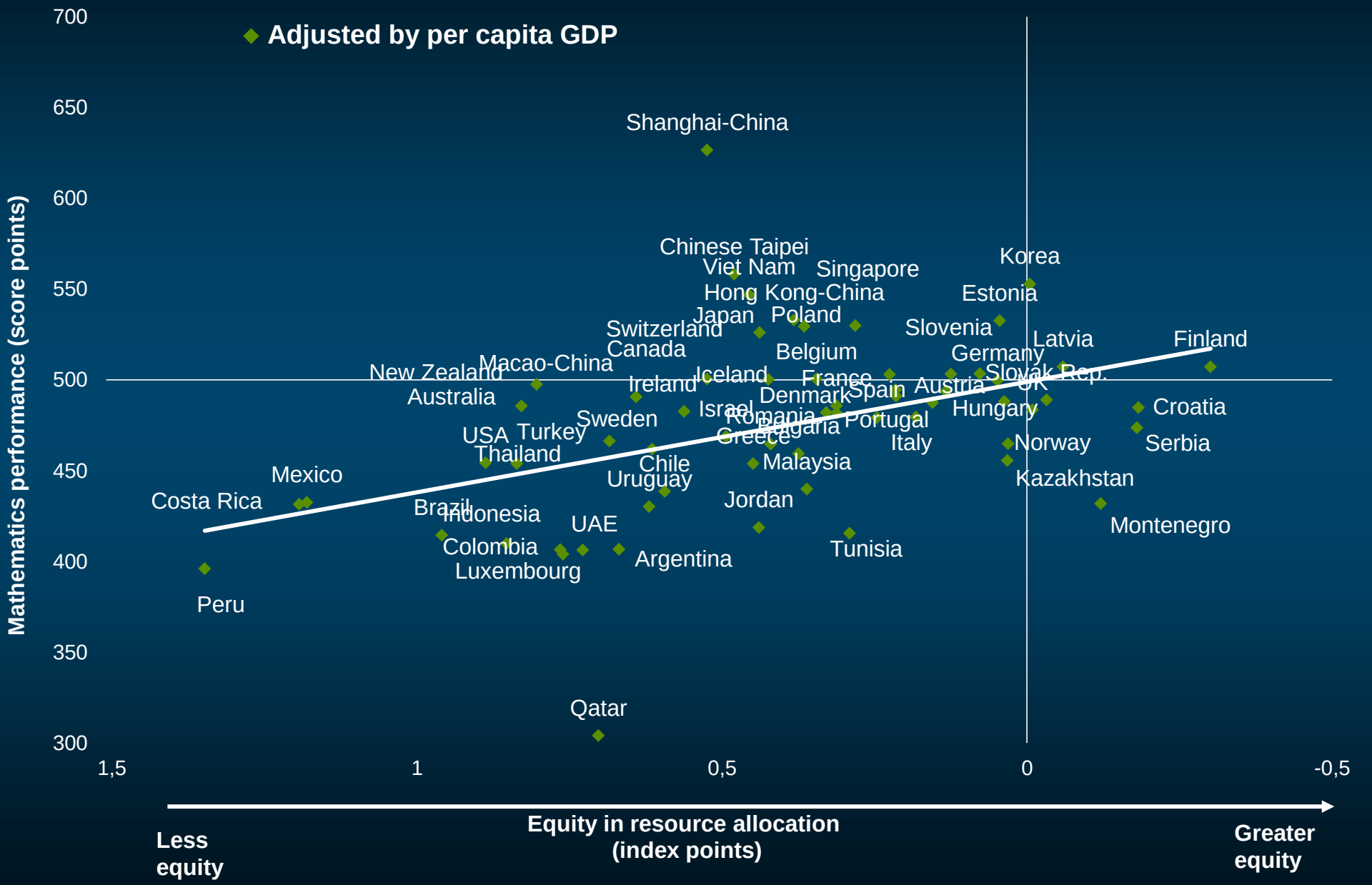
Cumulative expenditure per student (6 to 15) and maths performance in PISA 2012

Fig IV.1.8



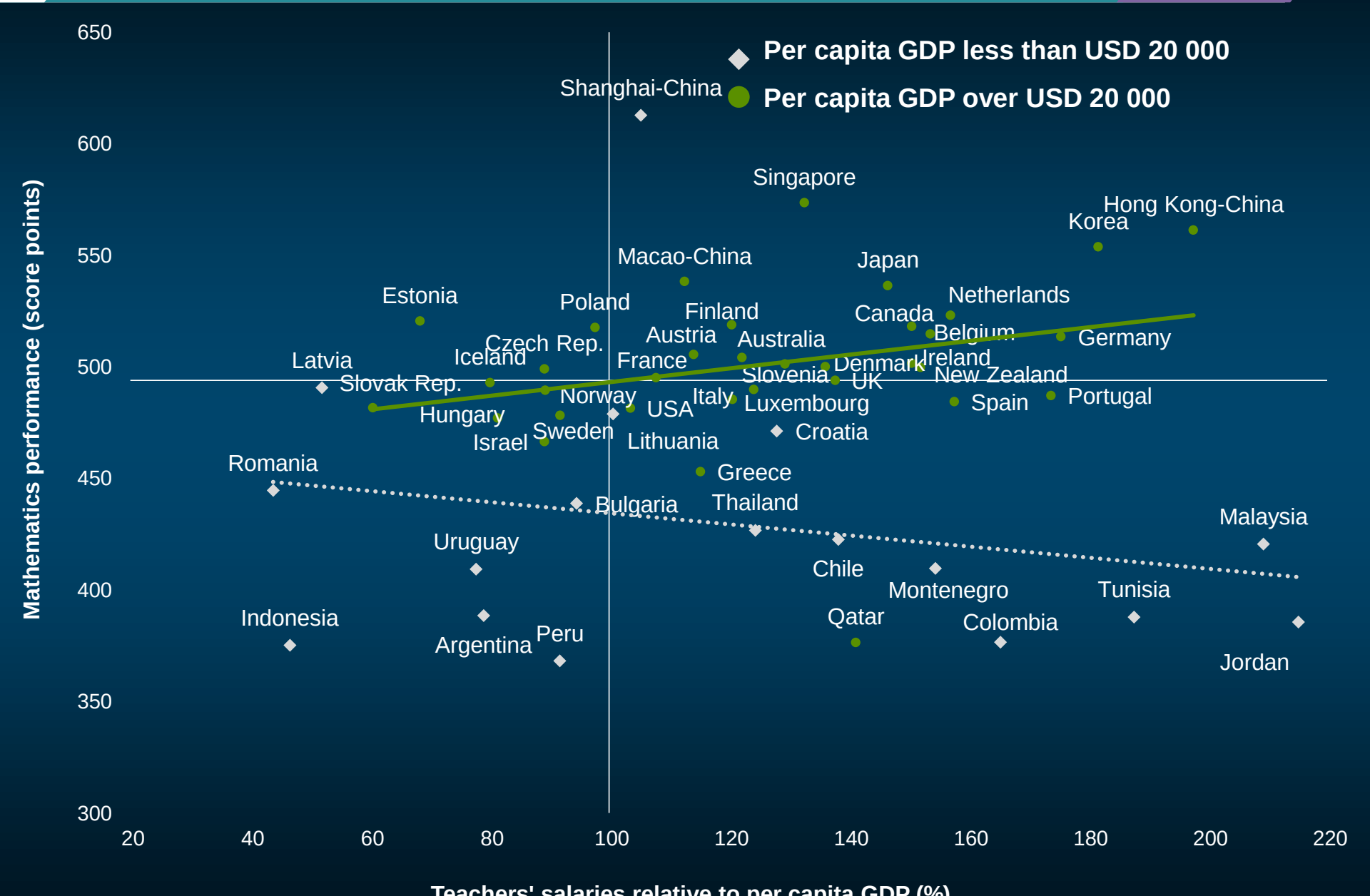
Countries with better performance in mathematics tend to allocate educational resources more equitably

Fig IV.1.11



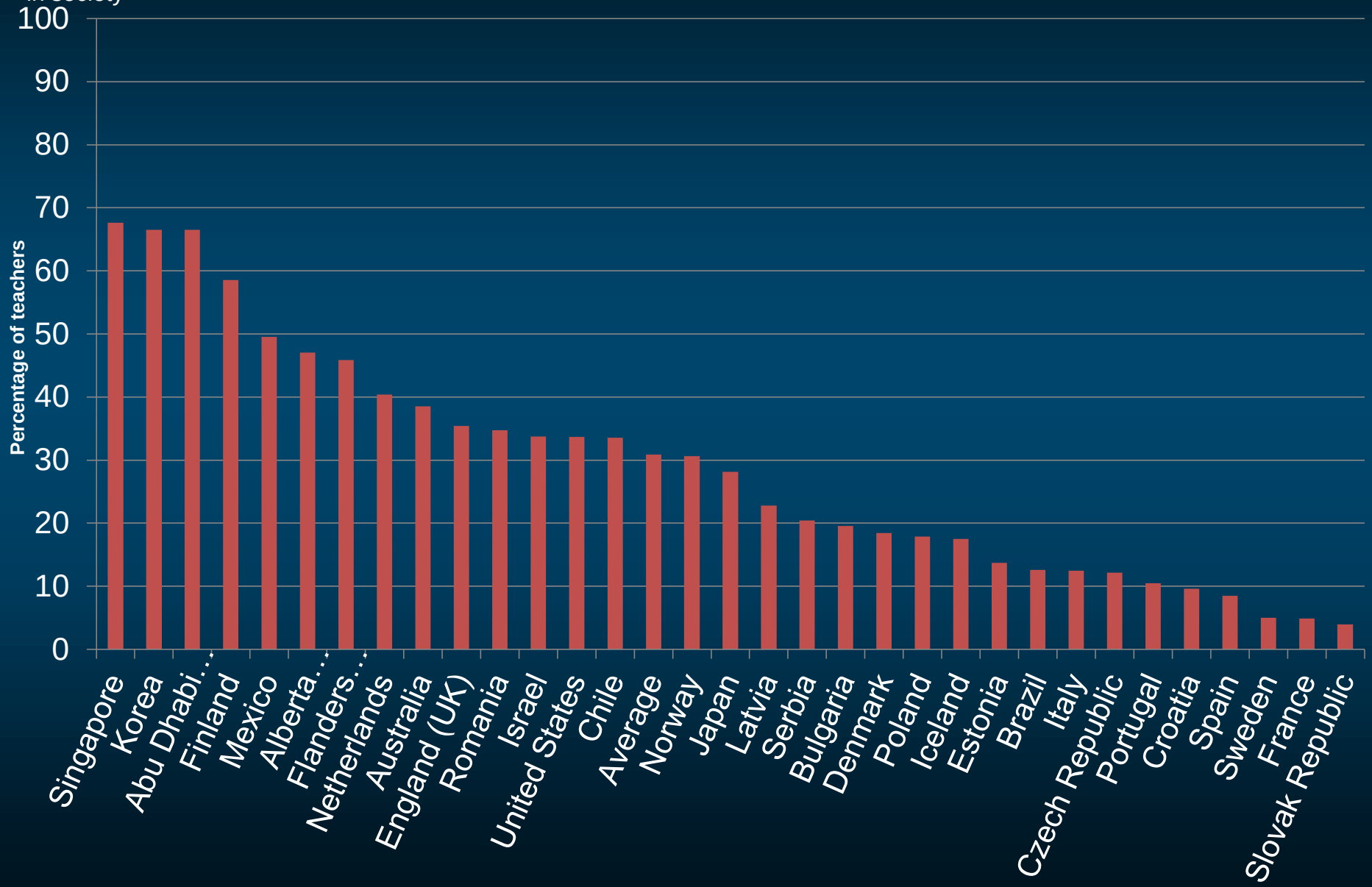
Among high-income countries high-performers pay teachers more

Fig IV.1.10



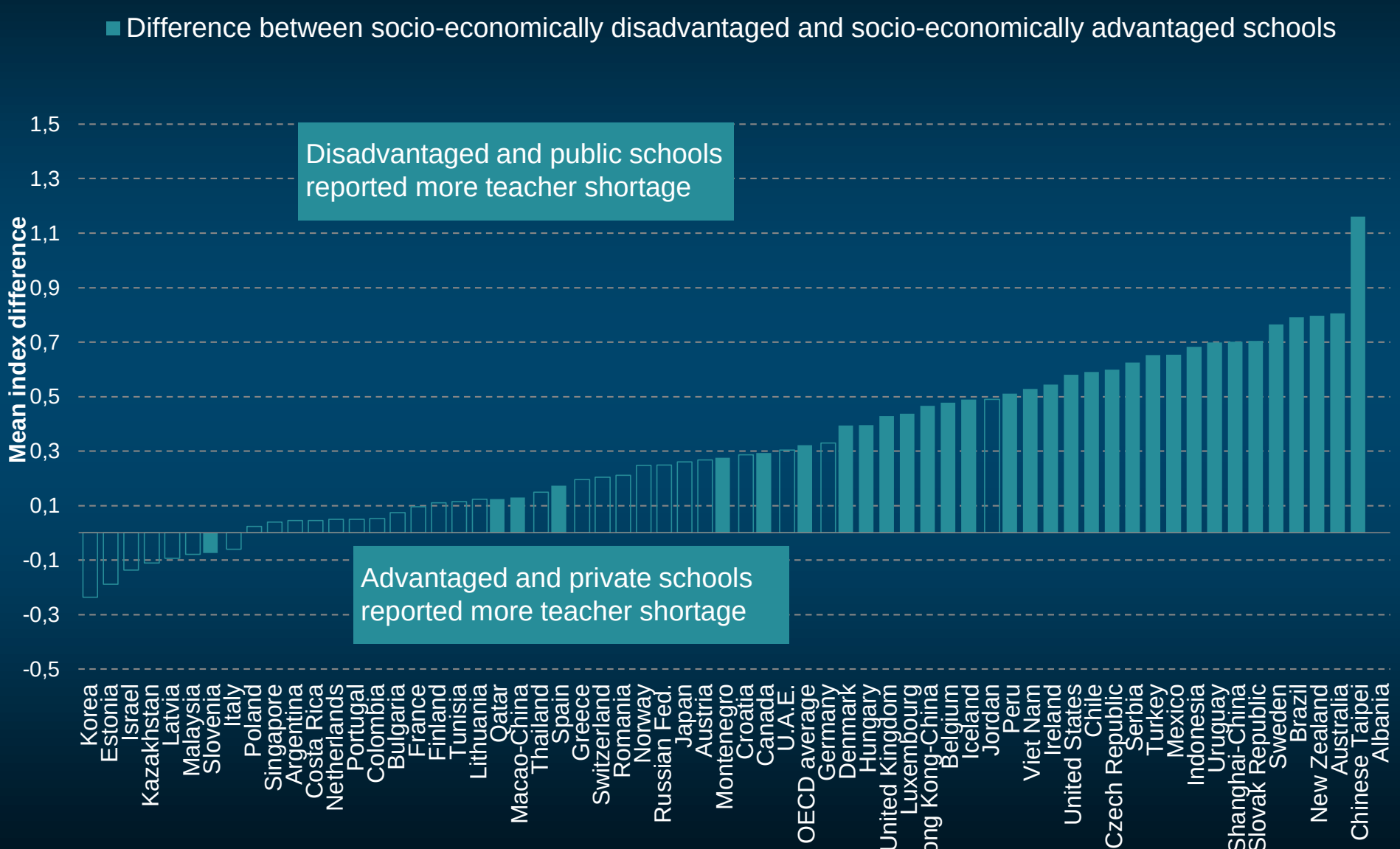
Teachers' perceptions of the value of teaching

Percentage of lower secondary teachers who "agree" or "strongly agree" that teaching profession is a valued profession in society



Teacher shortage is more of concern in disadvantaged schools

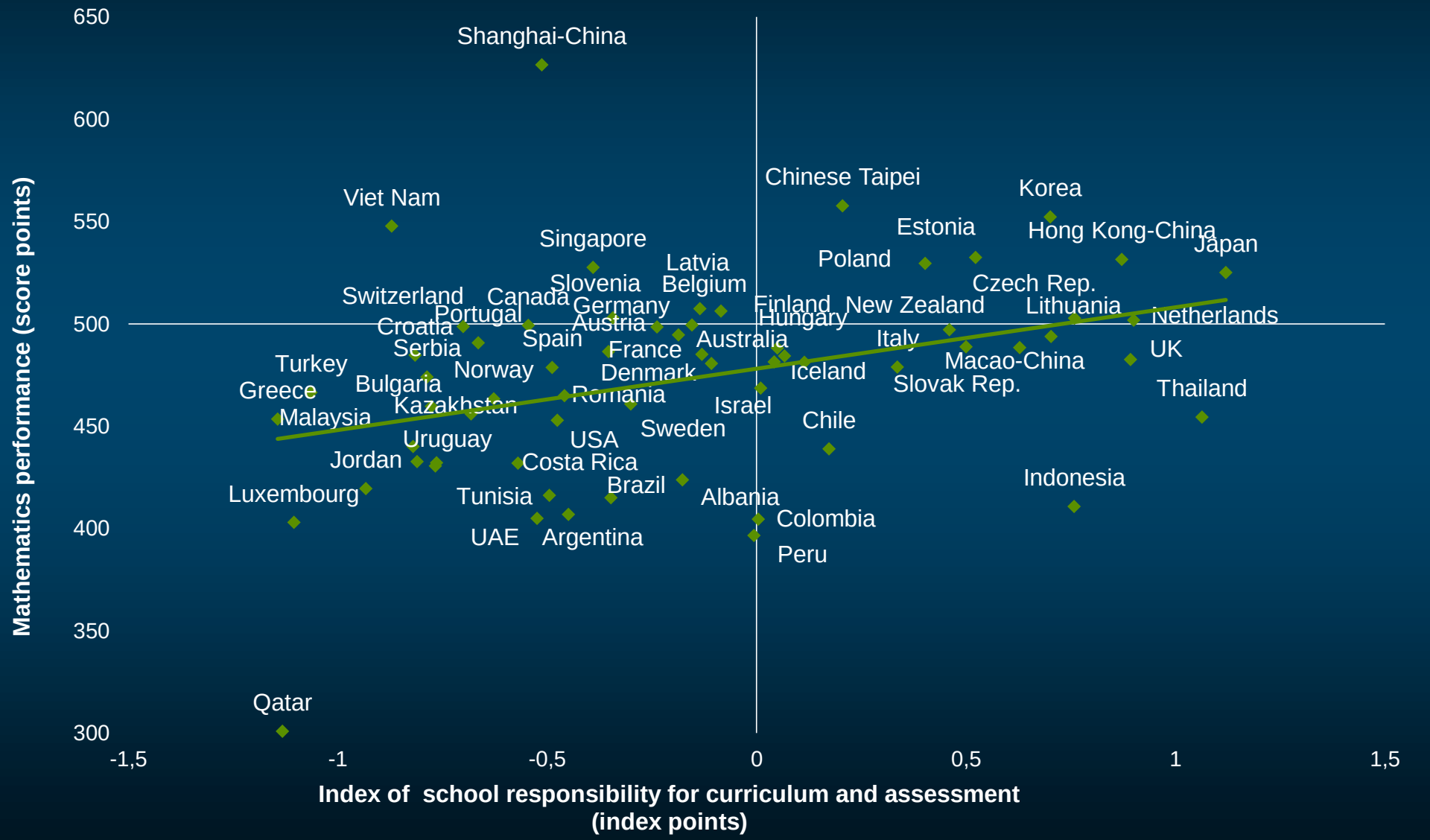
Fig IV.3.5



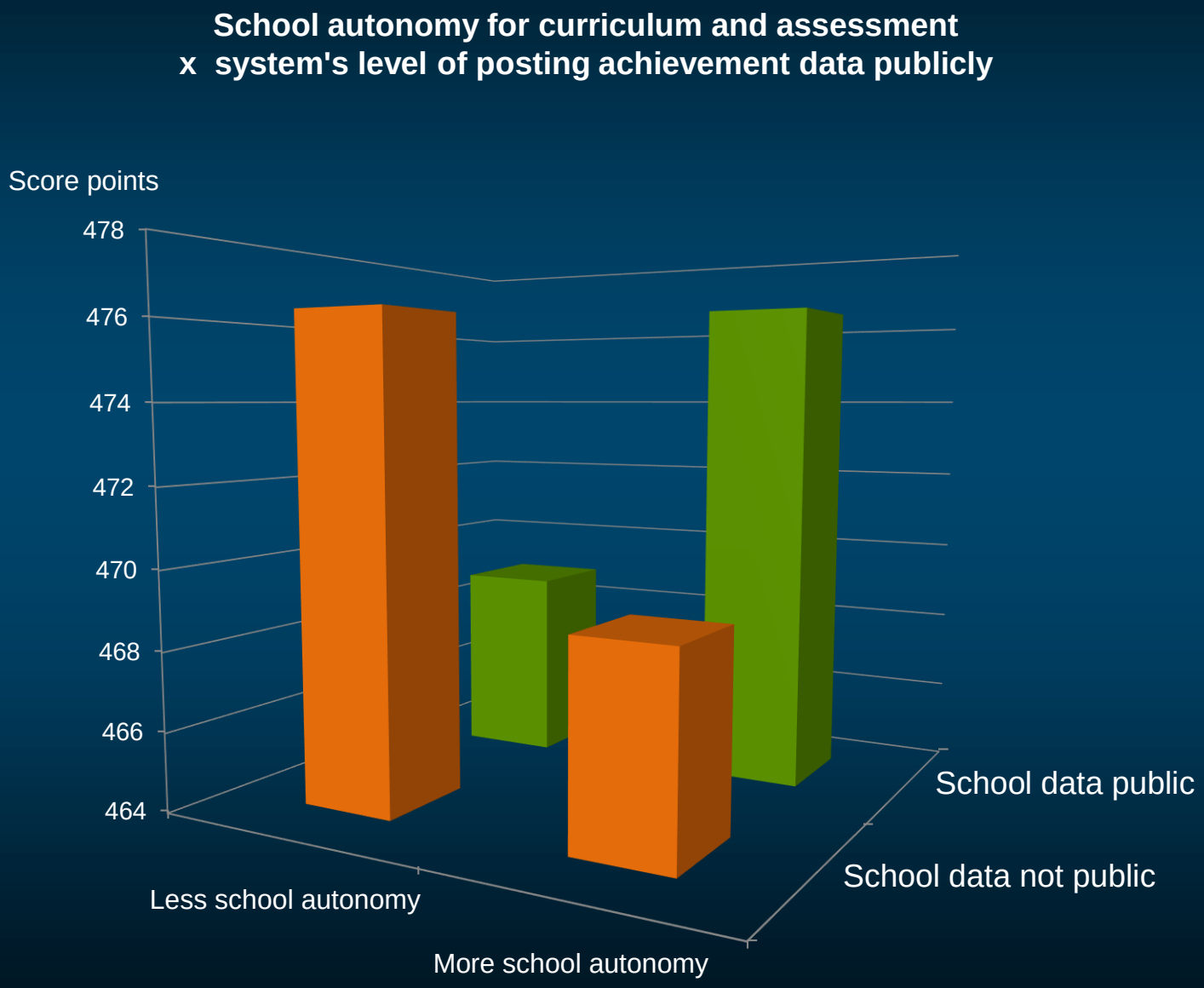
B

Countries that grant schools autonomy over curricula and assessments tend to perform better in mathematics

Fig IV.1.15

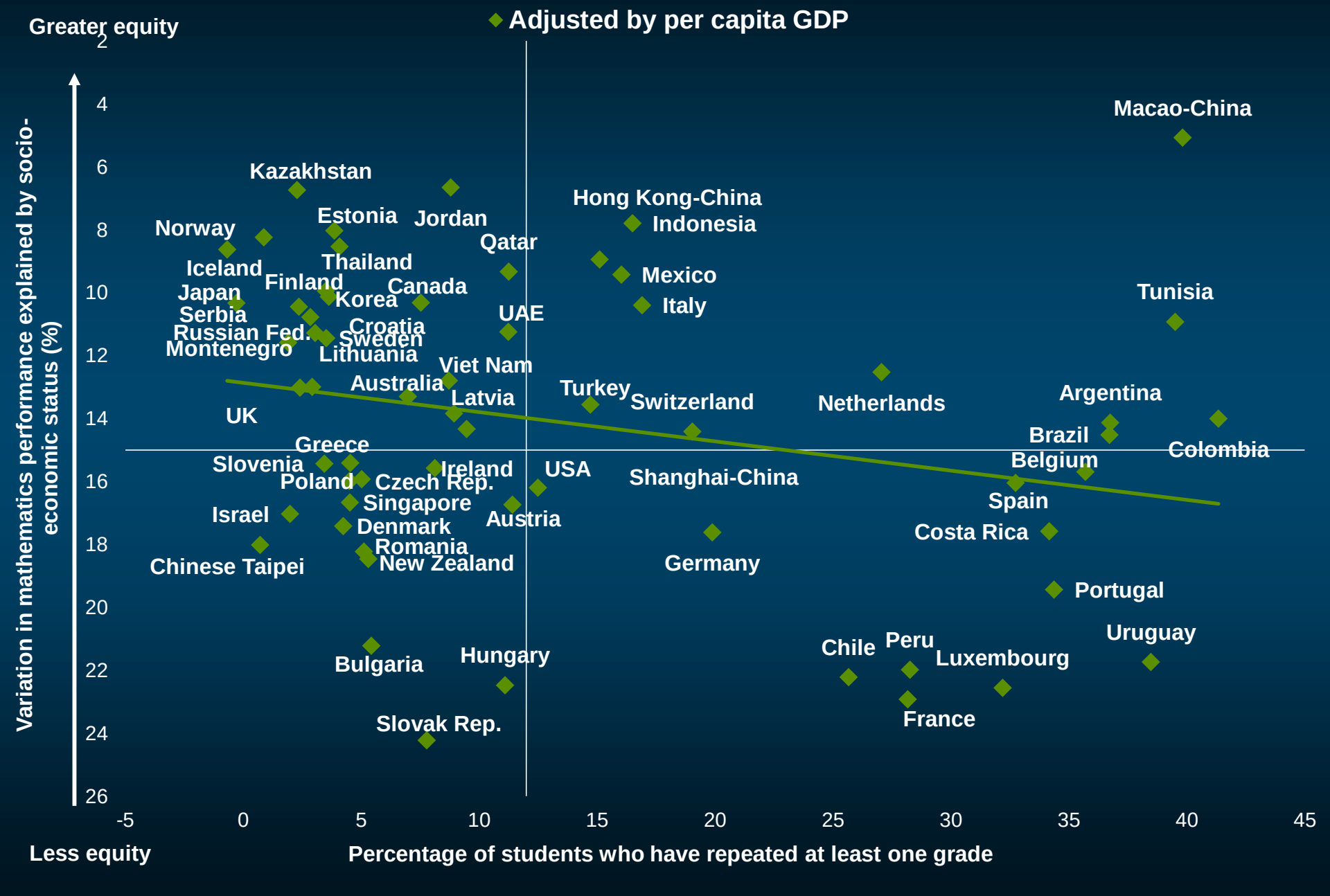


Schools with more autonomy perform better than schools with less autonomy in systems with more accountability arrangements



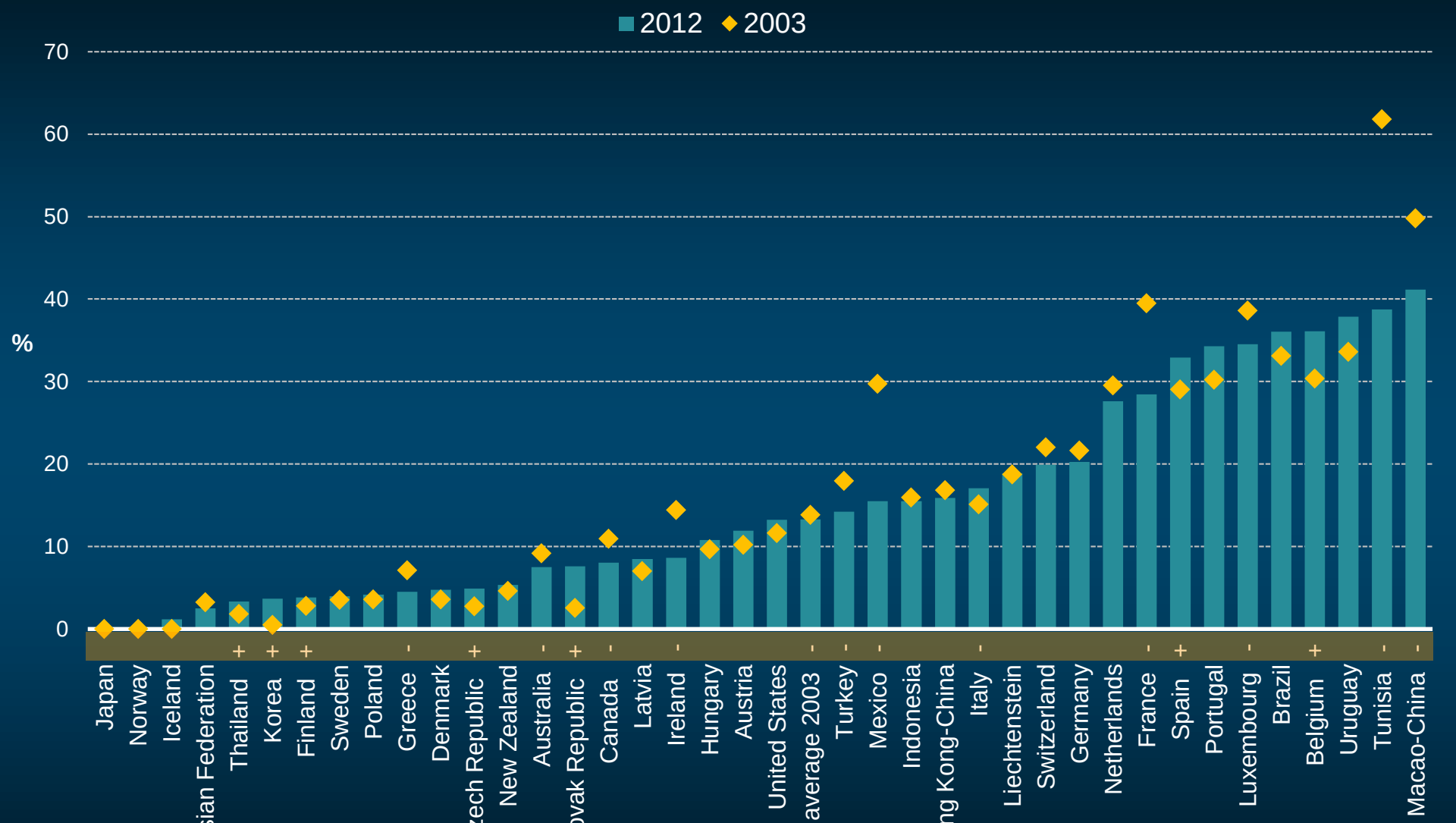
Grade repetition is negatively related to equity

Fig IV.1.4



Percentage of repeaters in 2003 and 2012

Tab IV.2.18



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- All national and international publications
- The complete micro-level database

Thank you !

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