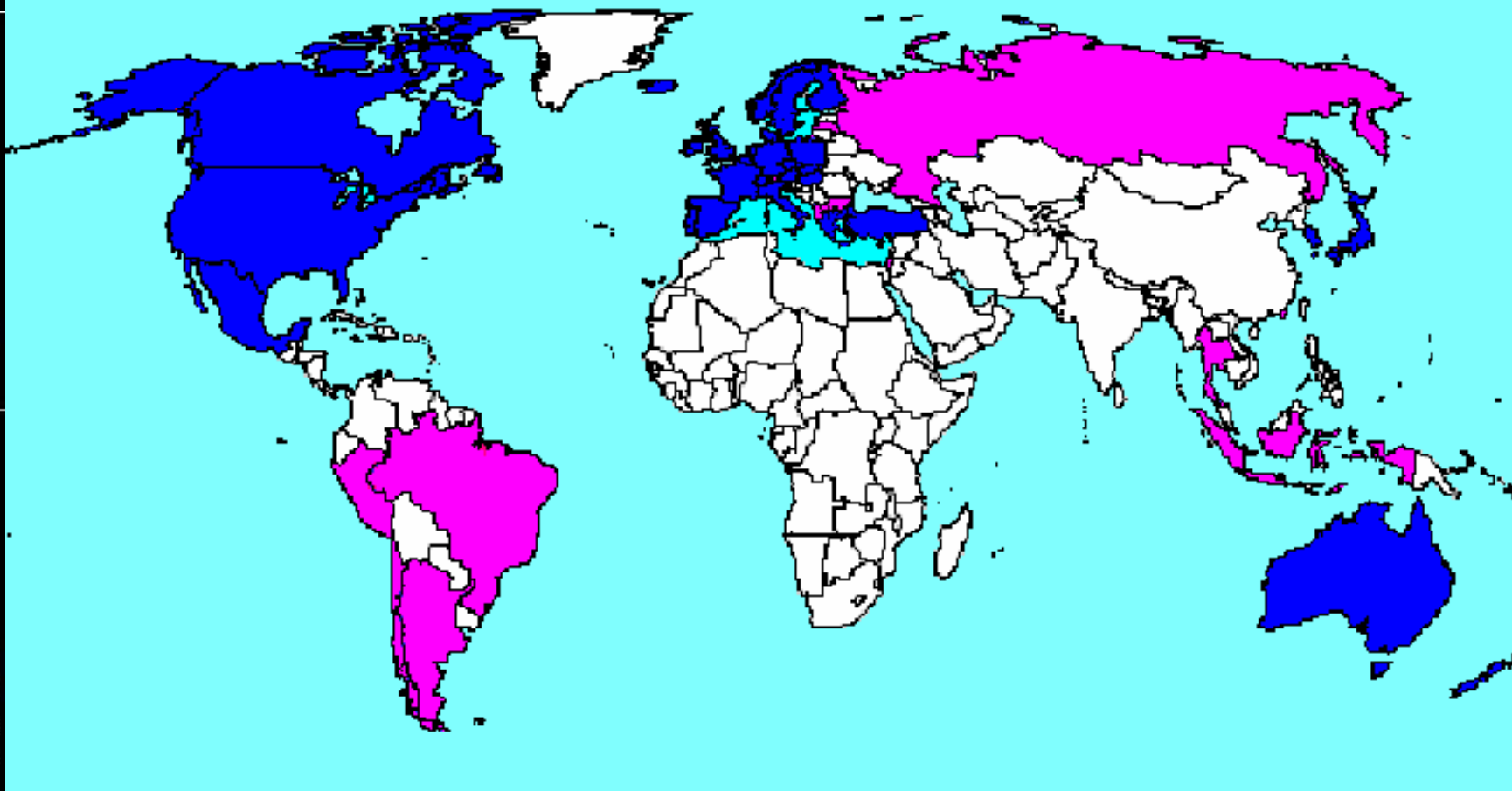




Organisation for Economic Cooperation and Development (OECD)

Where does Britain rank - International Public Service Rankings Education - OECD/PISA

Dr John Cresswell
OECD/Directorate for Education

PISA 2000 country participation



-  OECD Partner countries
-  OECD countries

PISA assessments

□ Reading literacy

- Using, interpreting and reflecting on written material.

□ Mathematical literacy

- Recognising problems that can be solved mathematically, representing them mathematically, solving them.

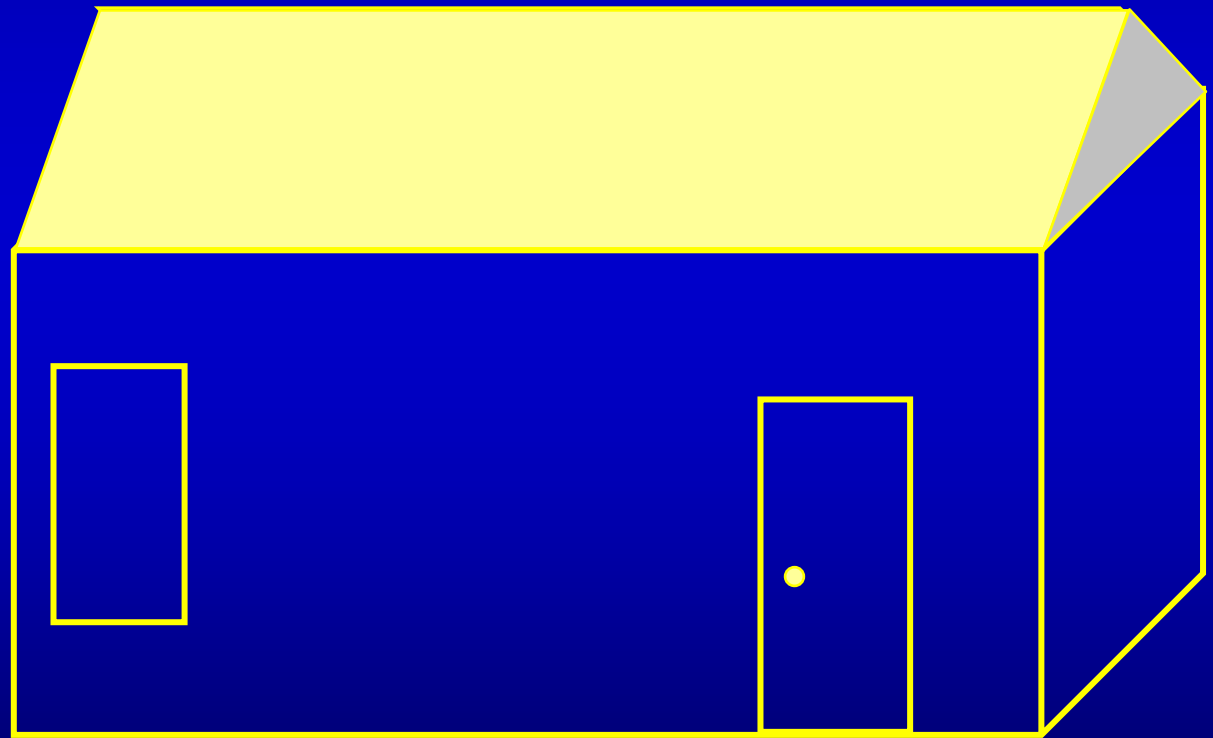
□ Scientific literacy

- Identifying scientific questions, recognising what counts as scientific evidence, using evidence to draw conclusions about the natural world.

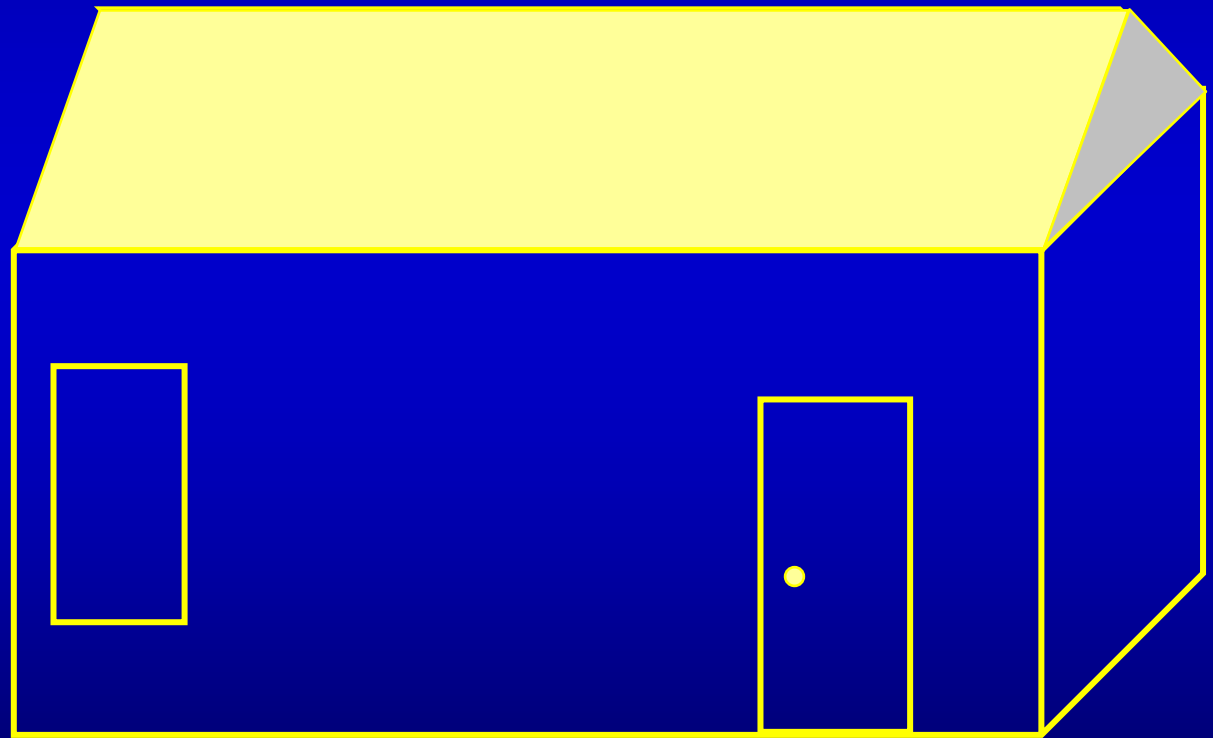
Development of assessments

- Frameworks by international experts
- Assessment materials
 - submitted by countries
 - developed by research consortium
 - screened for cultural bias
 - translated from English & French originals
 - trialled to check items working consistently in all countries
- Final tests
 - items shown in trial to be culturally biased removed
 - best items chosen for final tests
 - balanced to reflect framework
 - range of difficulties
 - range of item types (constructed response, multiple choice)

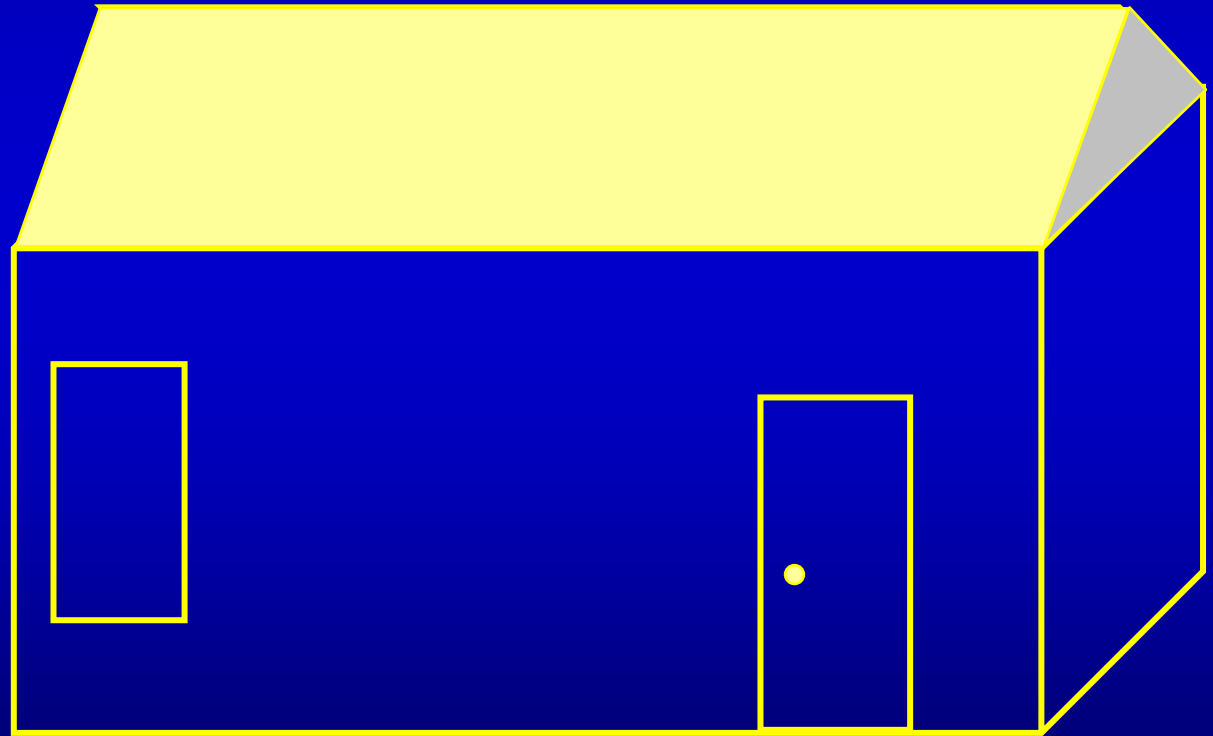
How do you stop heat escaping from the building?



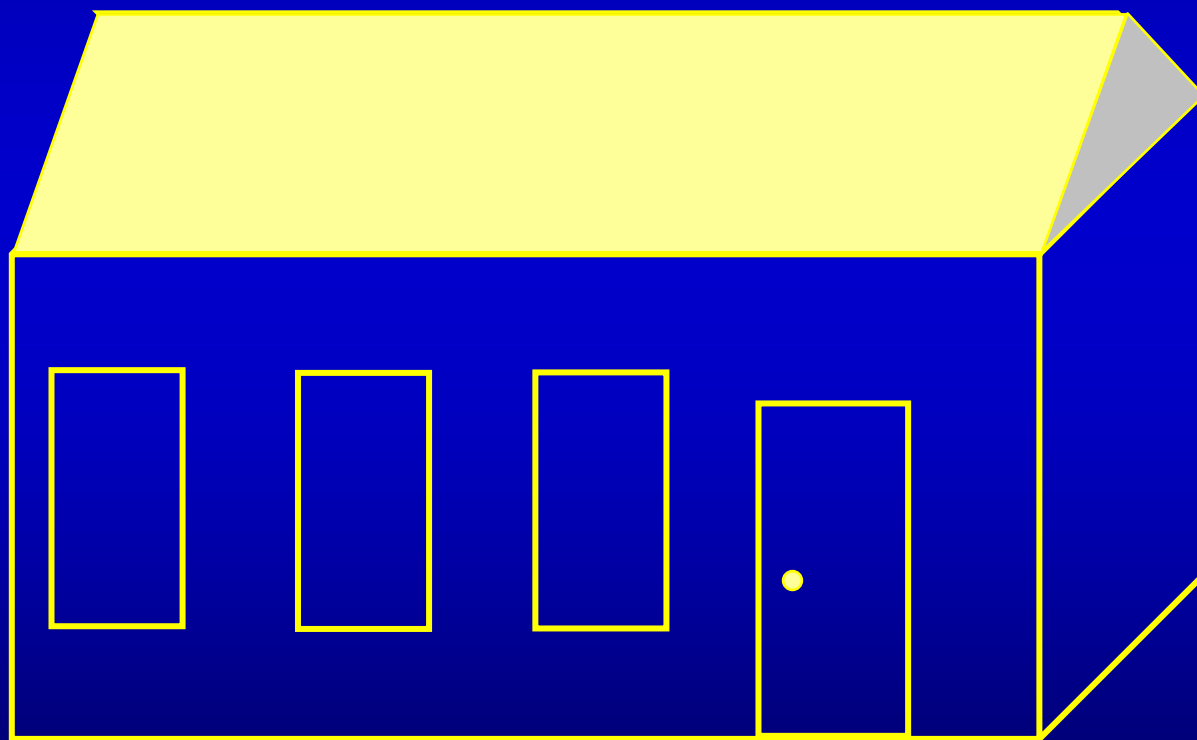
Answer: Put in more windows.



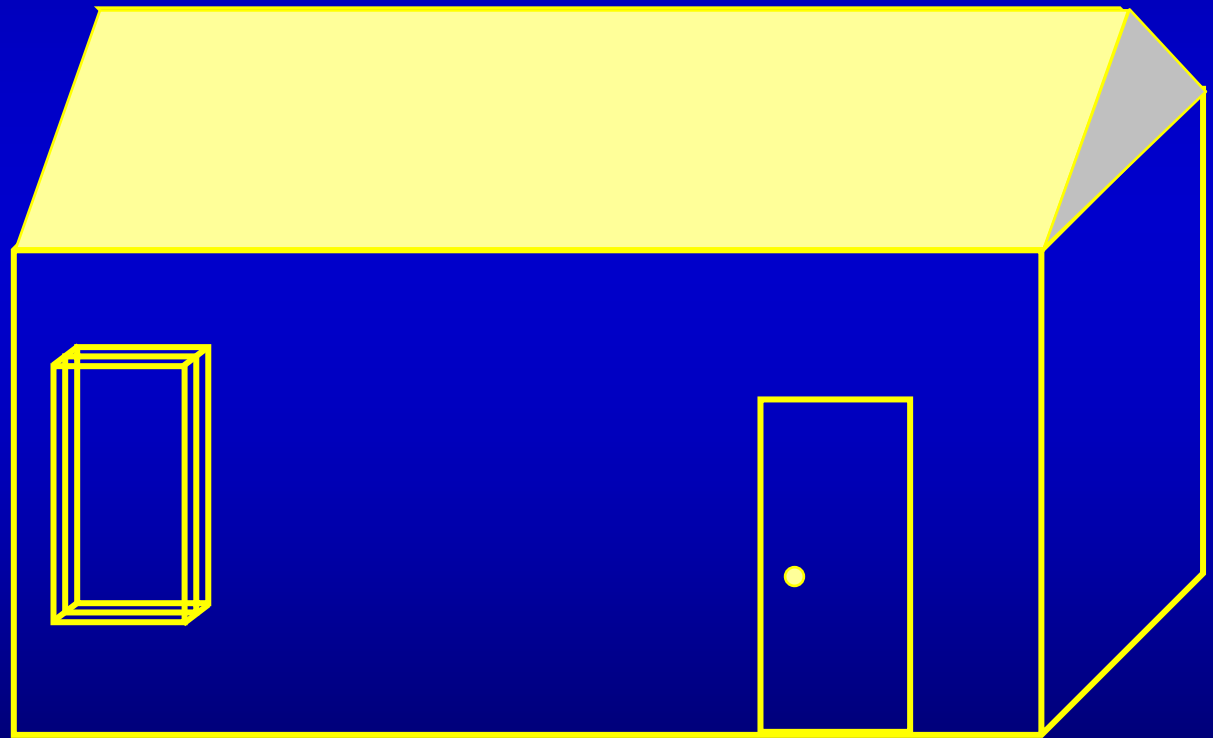
1. Some countries marked it **Incorrect**
2. Some countries marked it **Correct**
3. Other countries thought it was a **Stupid question**



Marked Incorrect in temperate countries

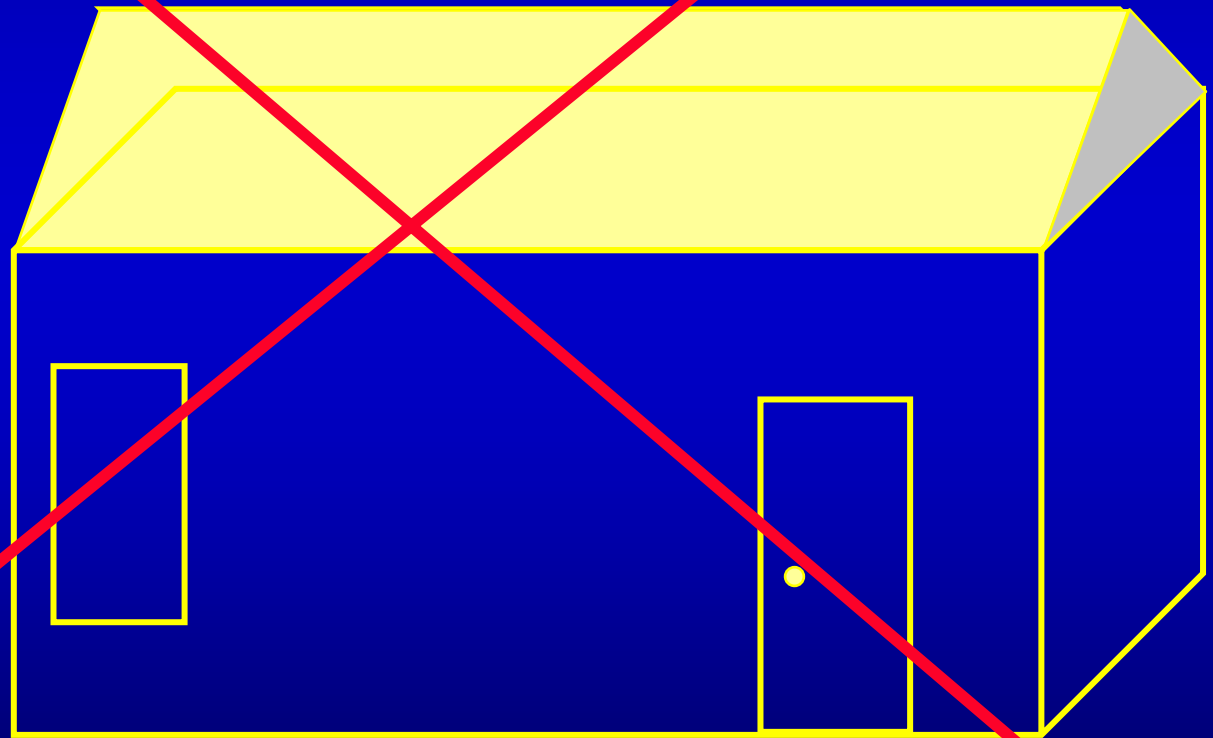


Marked Correct in very cold countries



They thought it was a stupid question in hot countries!

Why would you want to keep heat in?



PISA sampling requirements

- Population: all 15-year-olds in school
- Sample
 - minimum of 150 schools per country
 - two random samples: schools and replacement schools
 - if school declines, replacement school is invited
 - stringent requirements set by countries (85% of selected schools, 80% of selected students within schools)

Key features of PISA 2000 assessment

□ Information collected

- each student
 - 2 hours on paper-and-pencil tasks (subset of all questions)
 - $\frac{1}{2}$ hour for questionnaire on background, learning habits, learning environment, engagement and motivation
- school principals
 - questionnaire (school demography, learning environment quality)

□ Sample

- 175,000 students
- 32 participating countries

PISA provides four key benchmarks for the quality of education systems

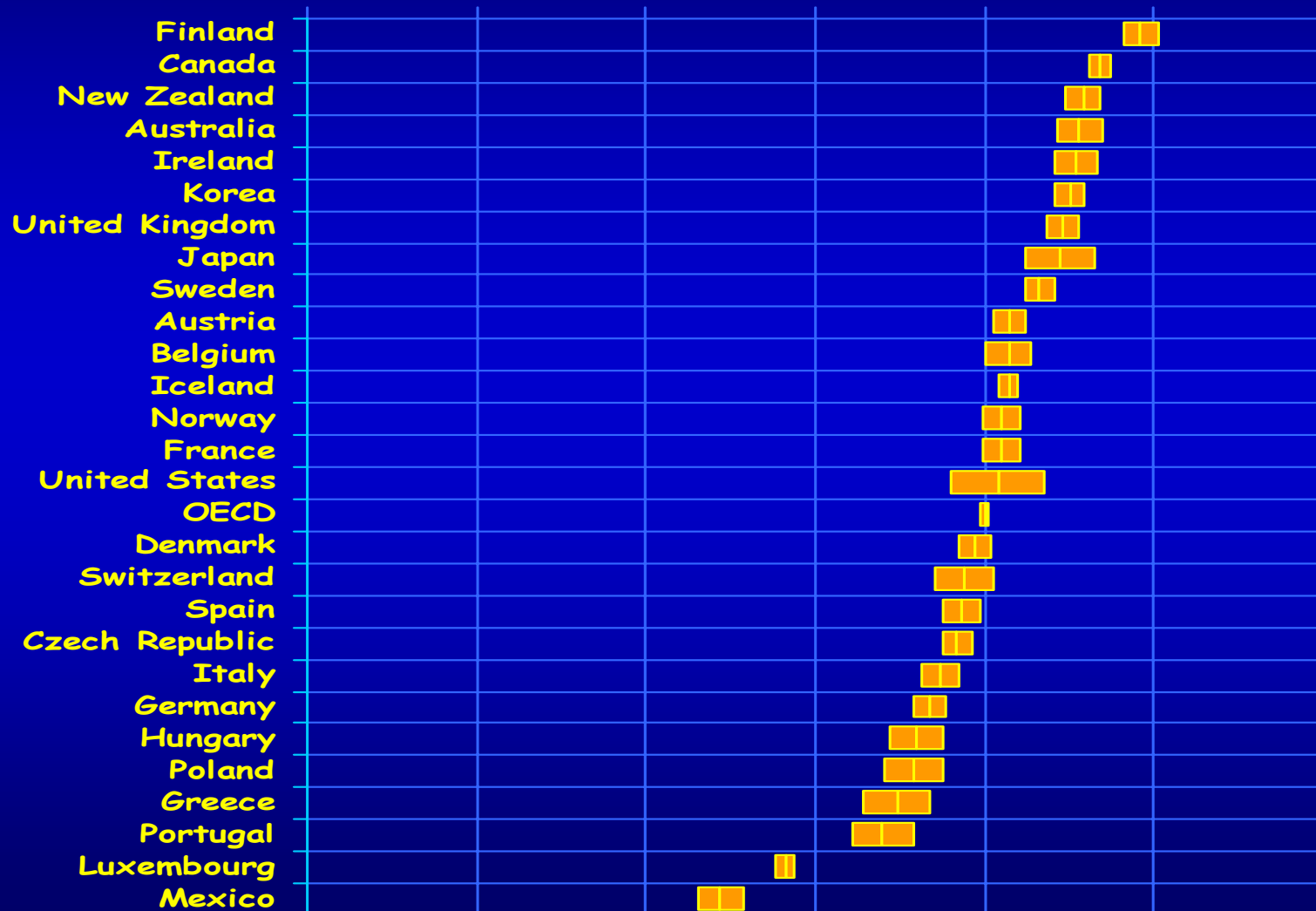
1. Overall performance of education systems
2. Equity in the distribution of learning opportunities
3. Consistency of performance standards across schools
4. Gender differences

Results from PISA 2000 Reading

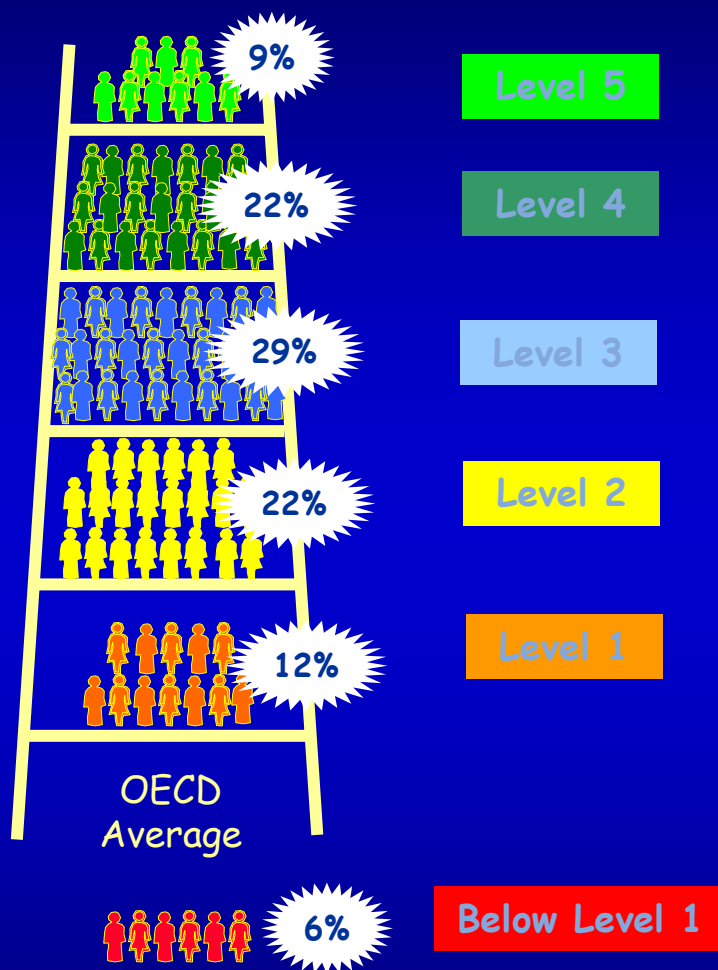
Country	Mean	SE
Finland	546	(3.5)
Canada	534	(2.4)
New Zealand	529	(3.6)
Australia	528	(1.6)
Ireland	527	(2.4)
Korea	525	(2.4)
United Kingdom	523	(2.6)
Japan	522	(2.7)
Sweden	516	(2.5)
Belgium	507	(4.0)
Austria	507	(5.0)
Iceland	507	(1.5)
Norway	505	(3.2)
France	505	(2.9)
United States	504	(5.2)
Denmark	497	(3.3)
Switzerland	494	(2.8)
Spain	493	(2.8)
Czech Republic	492	(4.5)
Italy	487	(4.5)
Germany	484	(2.7)
Hungary	480	(2.2)
Poland	479	(4.3)
Greece	474	(2.6)
Portugal	470	(7.1)
Luxembourg	441	(2.0)
Mexico	422	(0.6)

Ranking of mean reading scores - PISA 2000

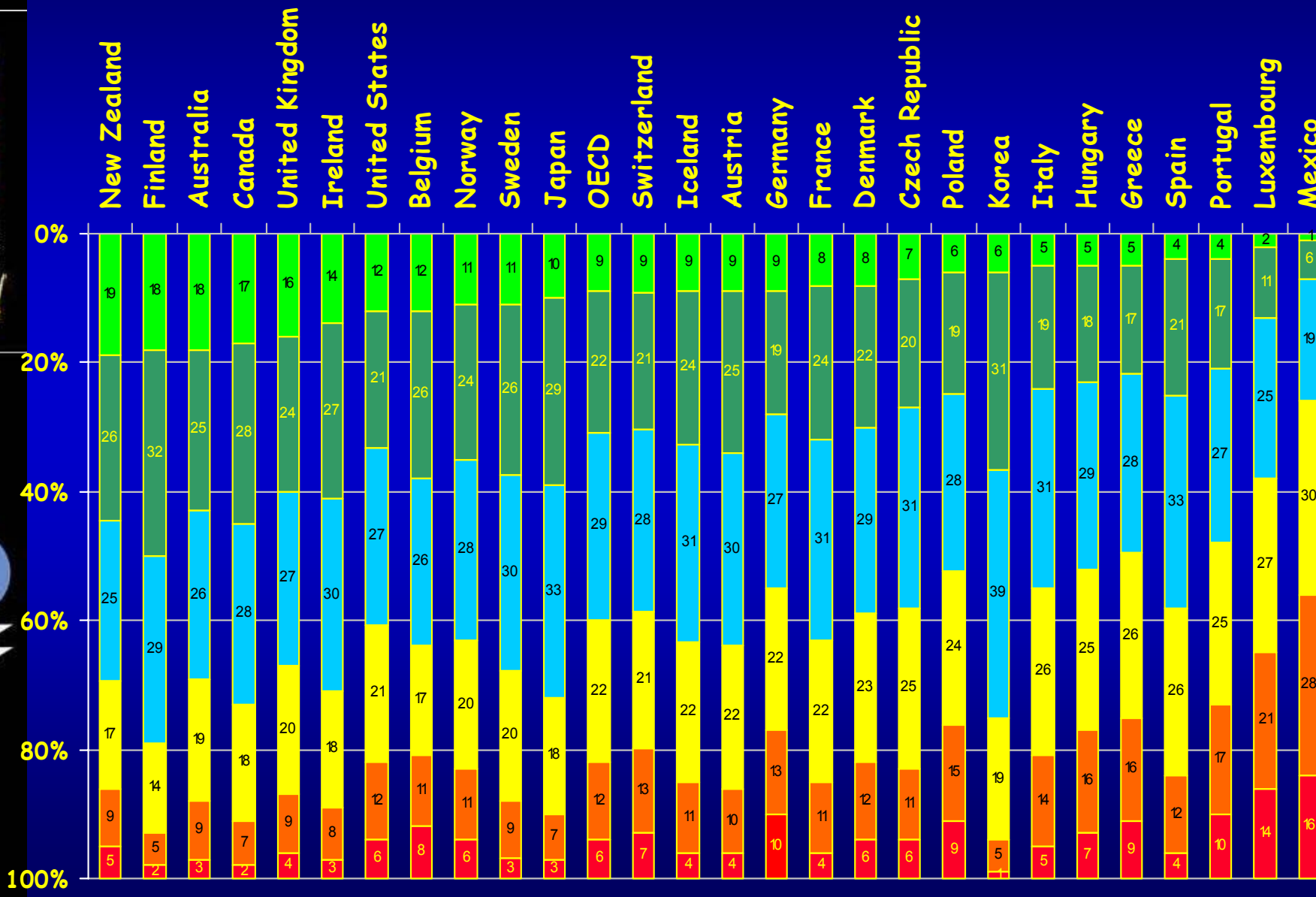
300 350 400 450 500 550 600



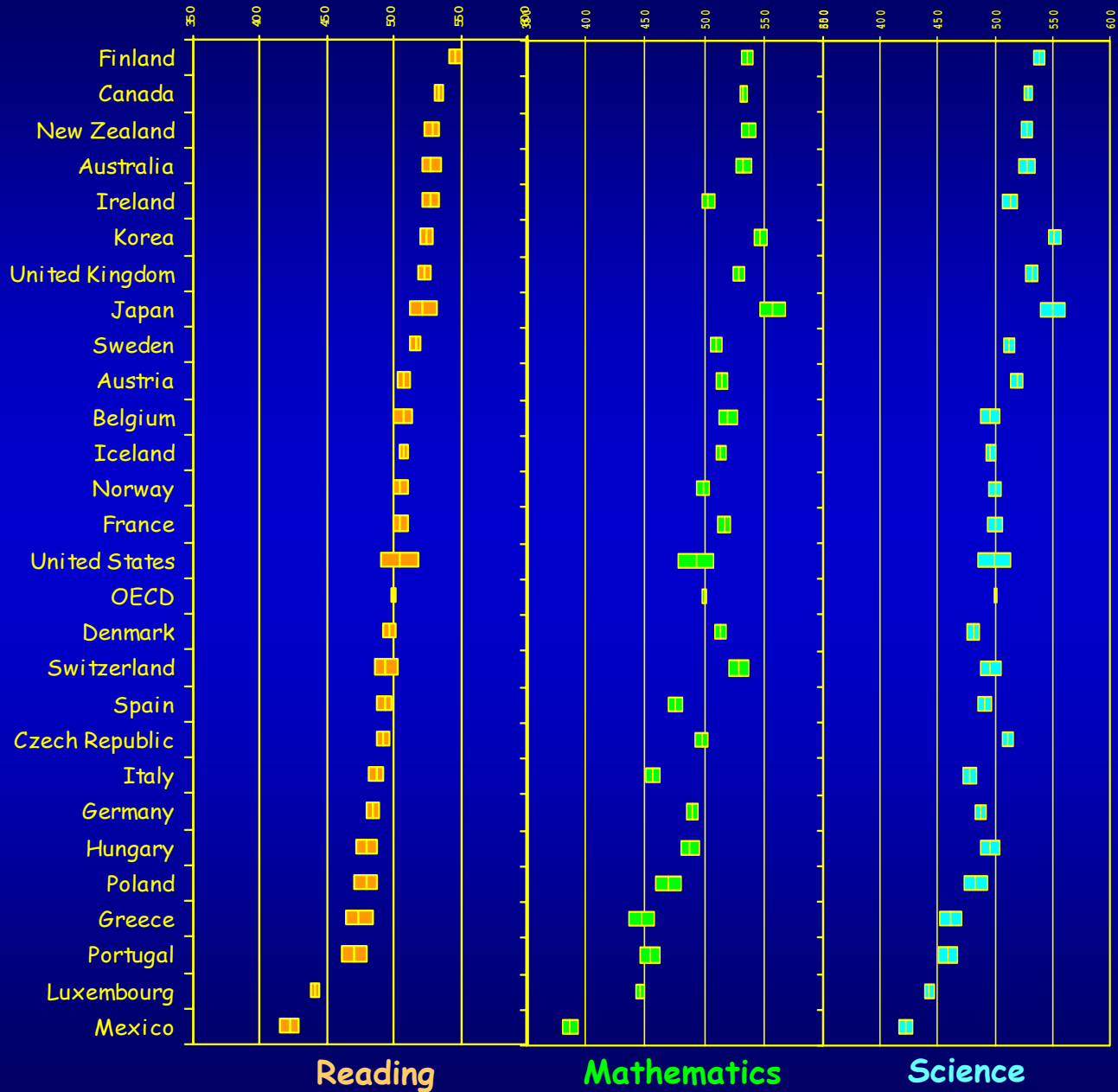
What students can do in reading



Ranking of percentage of students at each proficiency level in reading

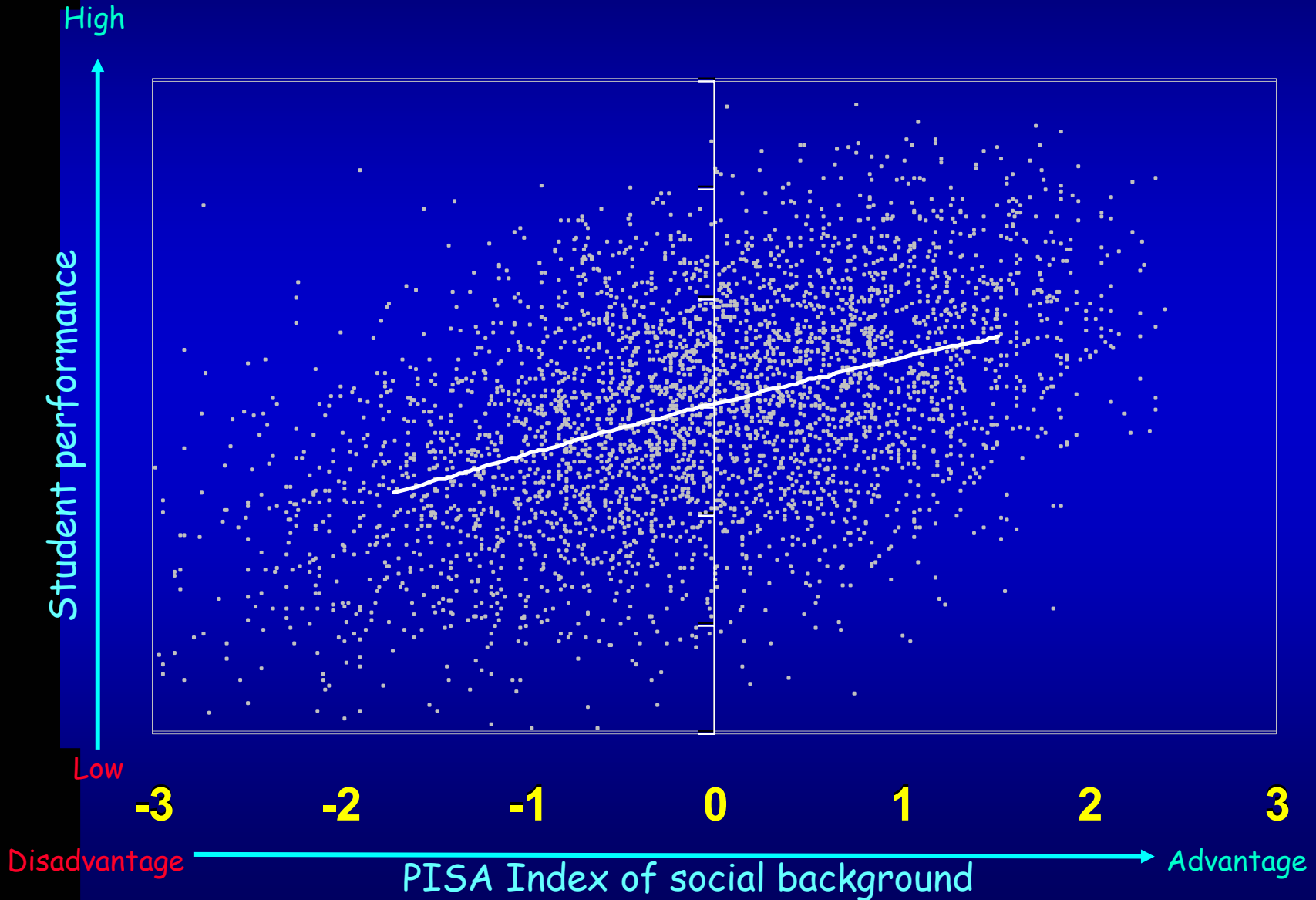


Rankings in all domains

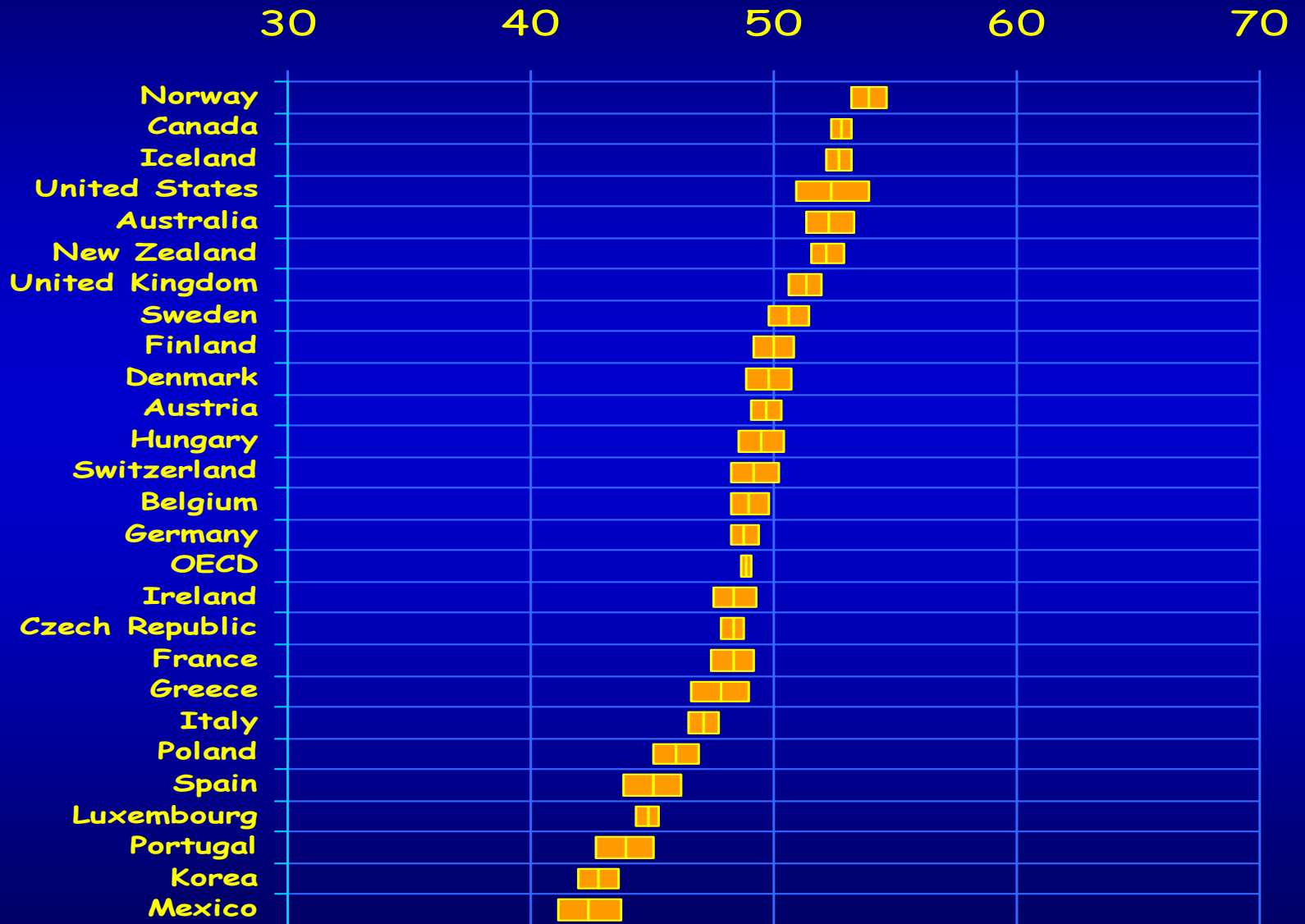


Social background and student performance

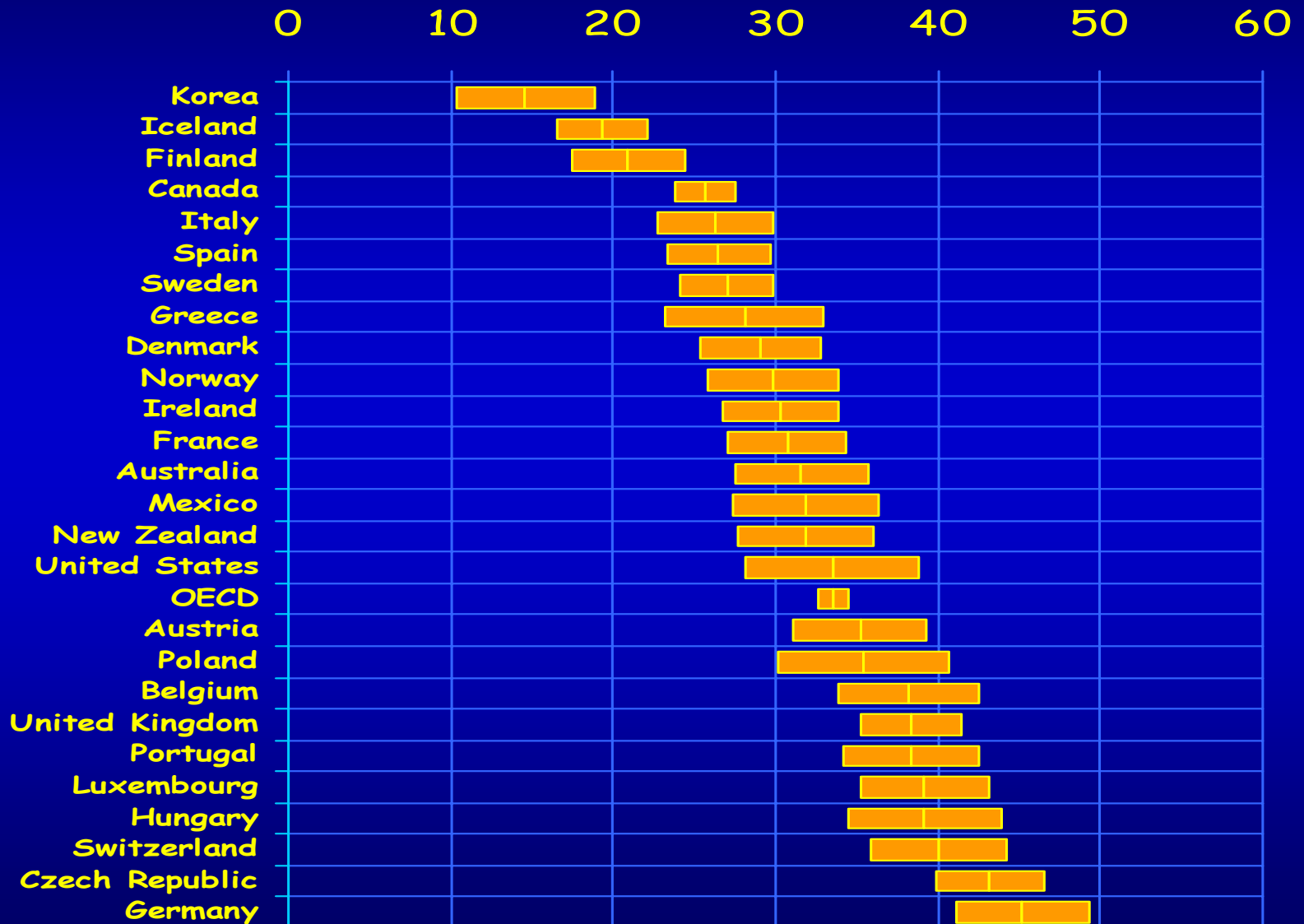
19



Ranking of socioeconomic background - PISA 2000



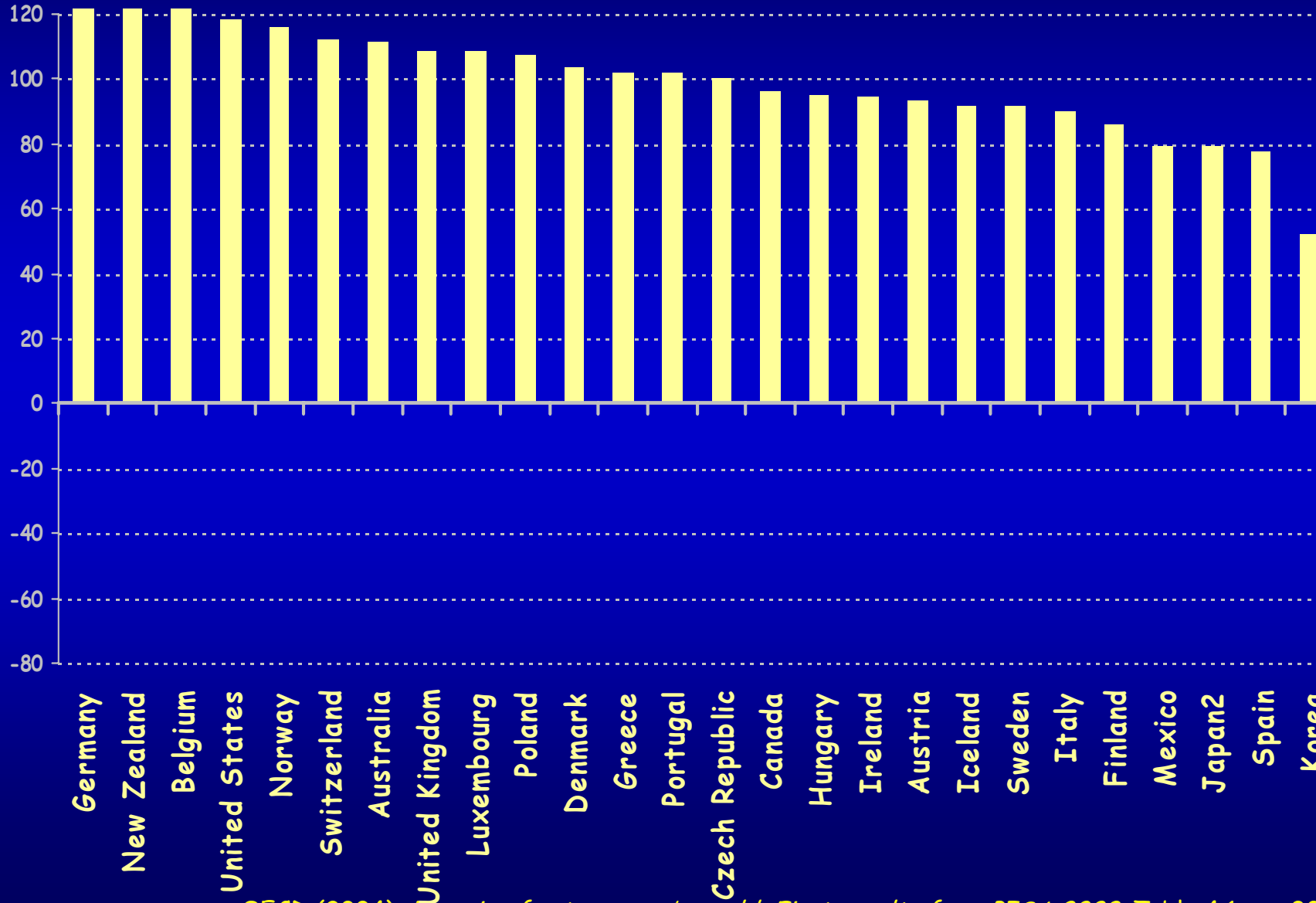
Ranking of effect of socioeconomic background - PISA 2000



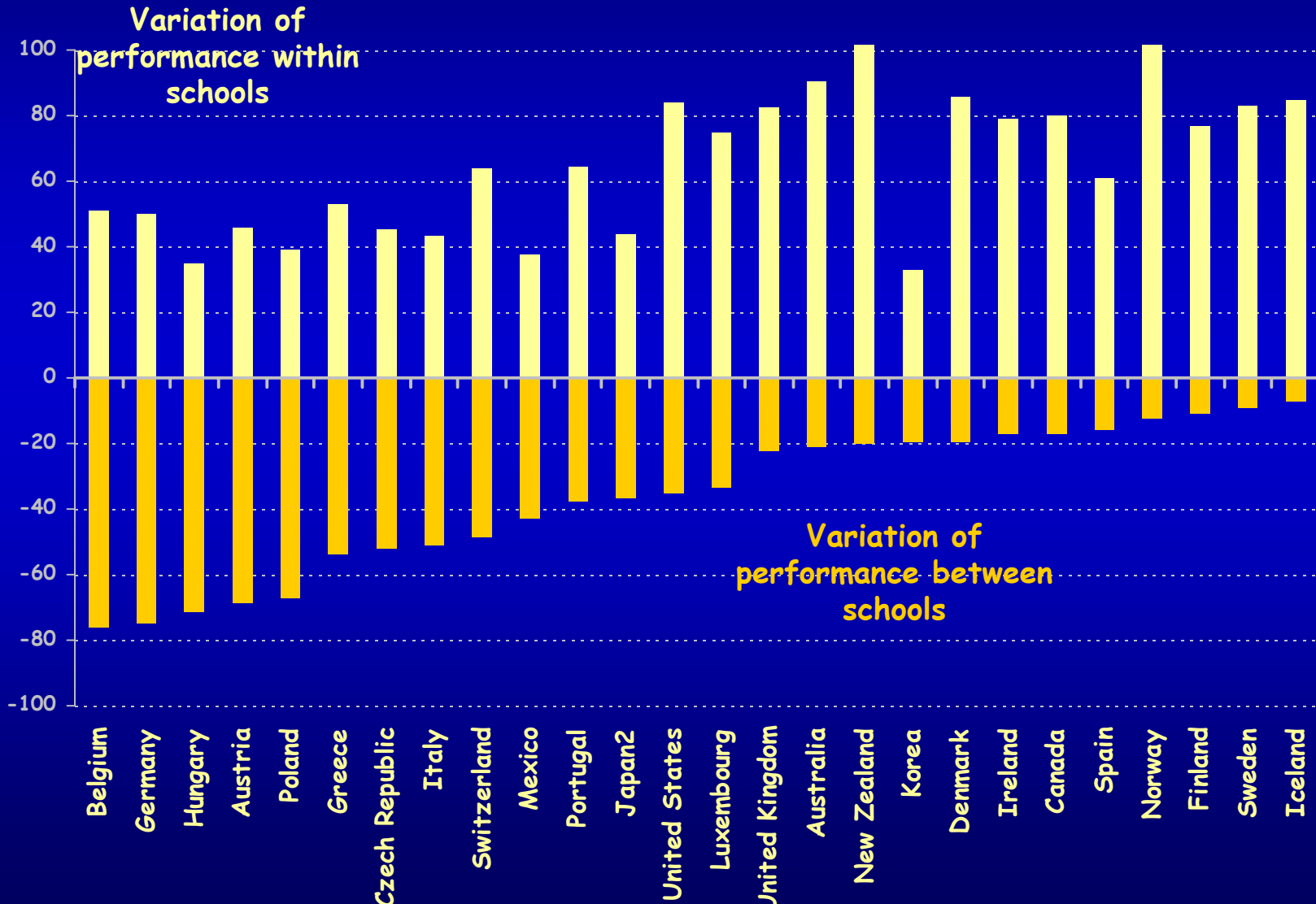
Ensuring consistent performance
standards across schools

Between and within-school variation in
performance

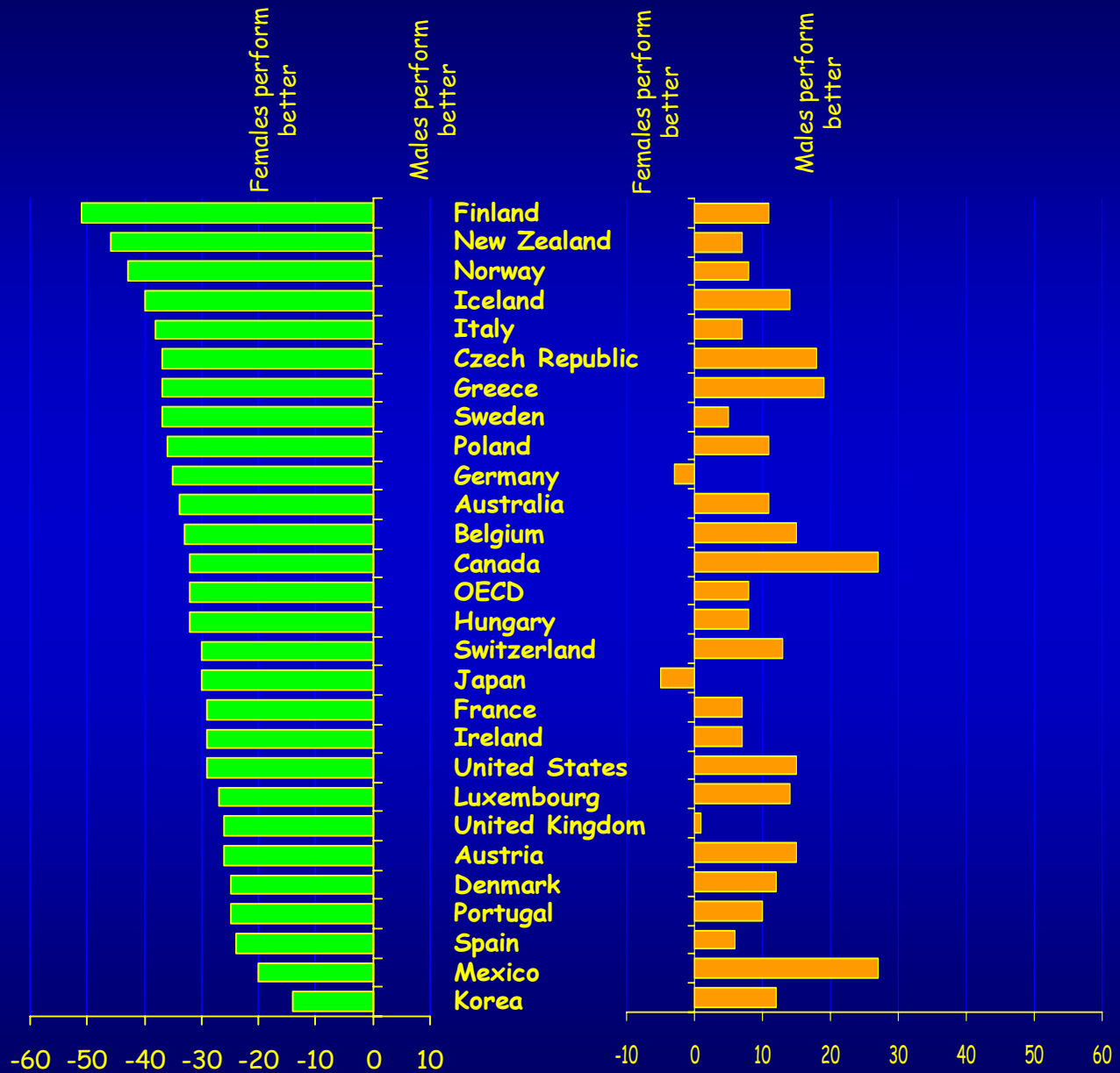
Variation in student performance



Variation in student performance in reading



Gender differences - PISA 2000



Further information

- www.pisa.oecd.org
 - All national and international publications
 - The complete database
- email: pisa@oecd.org
- john.cresswell@oecd.org

