

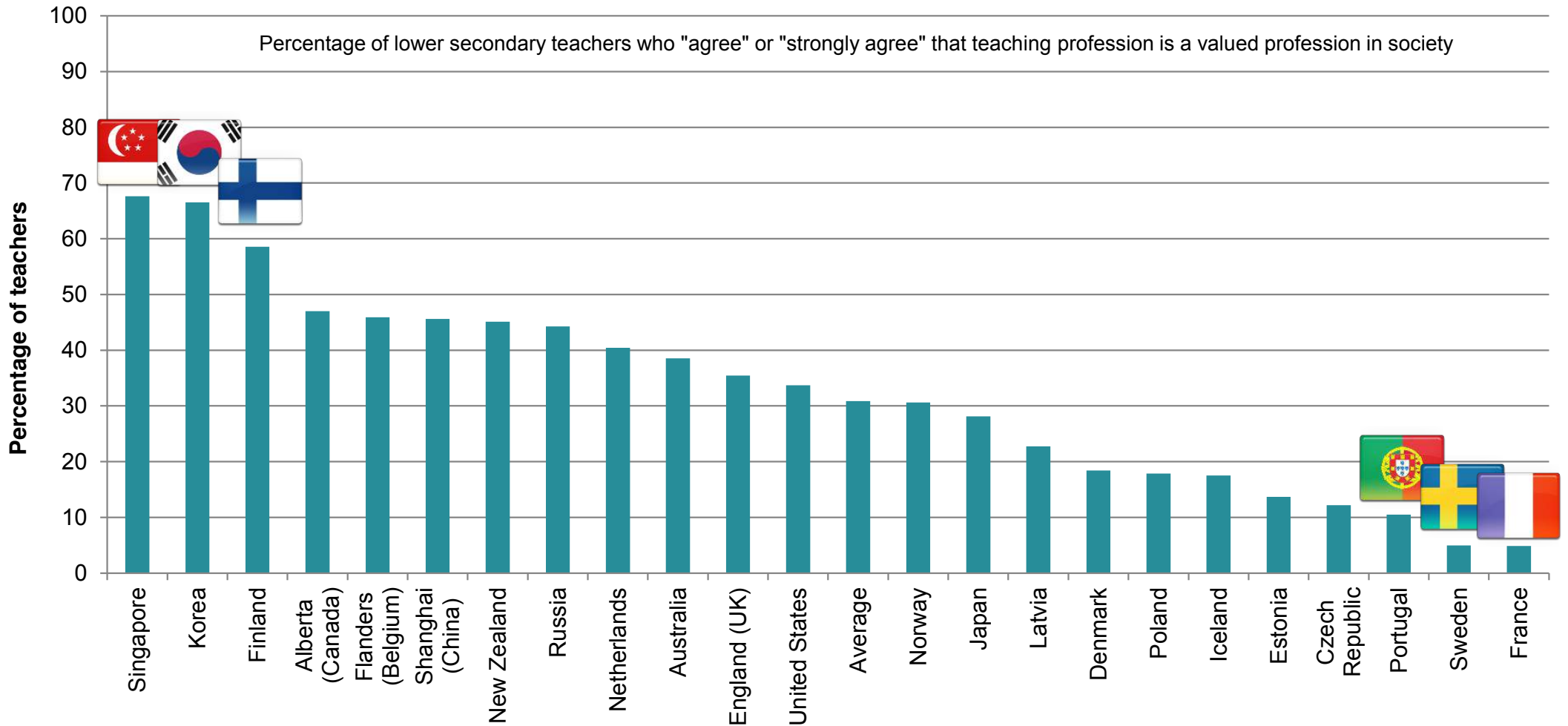


# Valuing our teachers and raising their status how communities can help

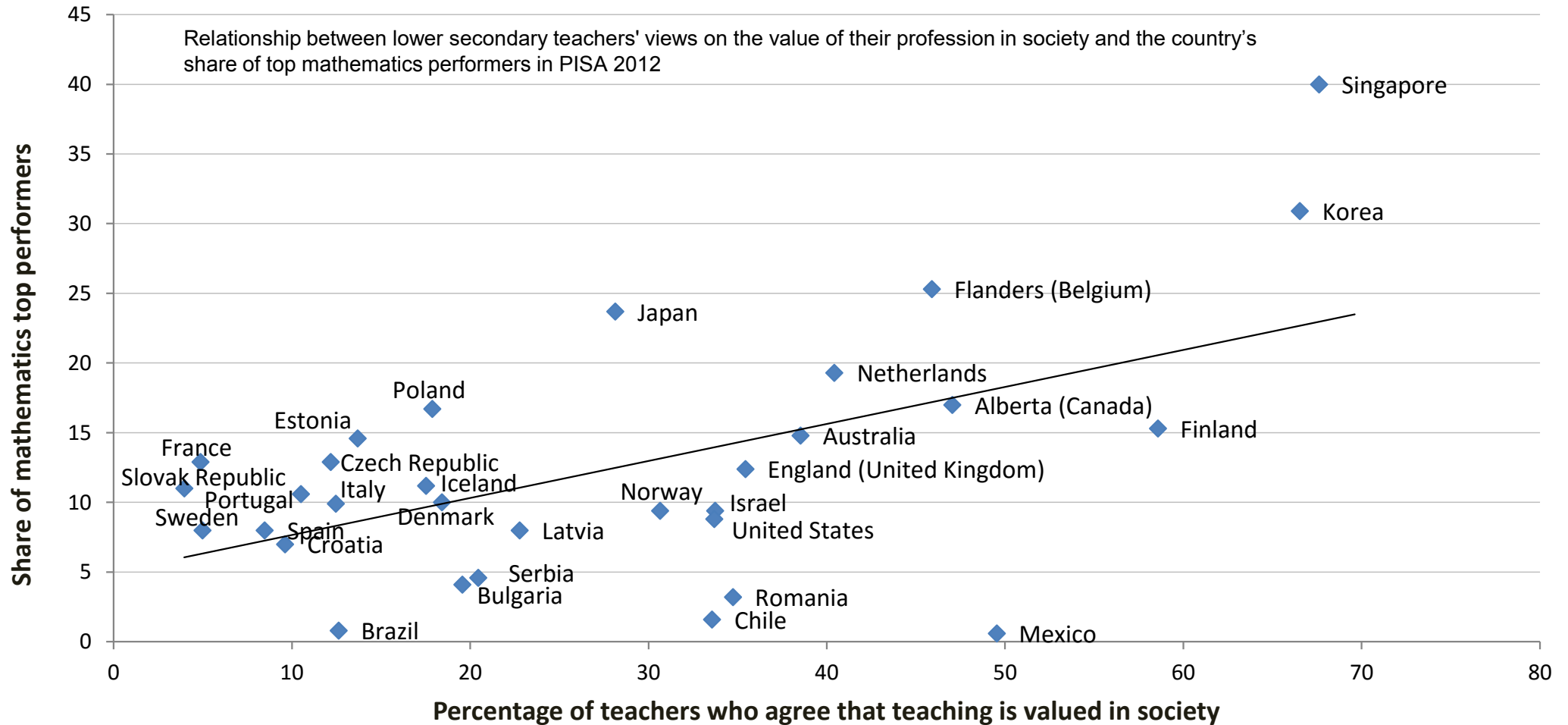
Andreas Schleicher  
ISTP, 22 March 2018

# Teachers perception of the value of teaching

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



# Countries where teachers believe their profession is valued show higher levels of excellence in learning outcomes (PISA)





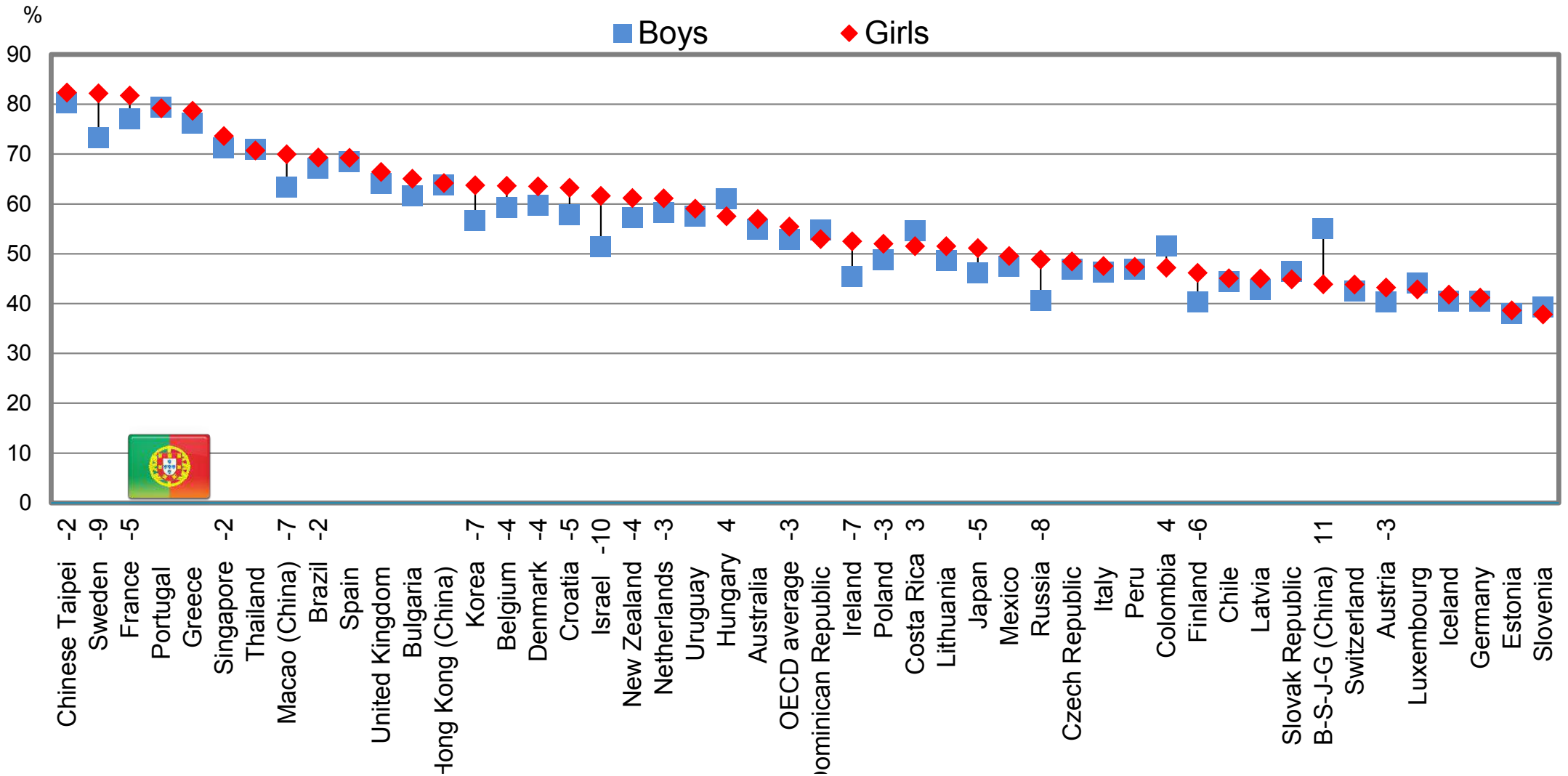
## **The post-truth world where reality becomes fungible**

- Virality seems privileged over quality in the distribution of information
- Truth and fact are losing currency

### **Scarcity of attention and abundance of information**

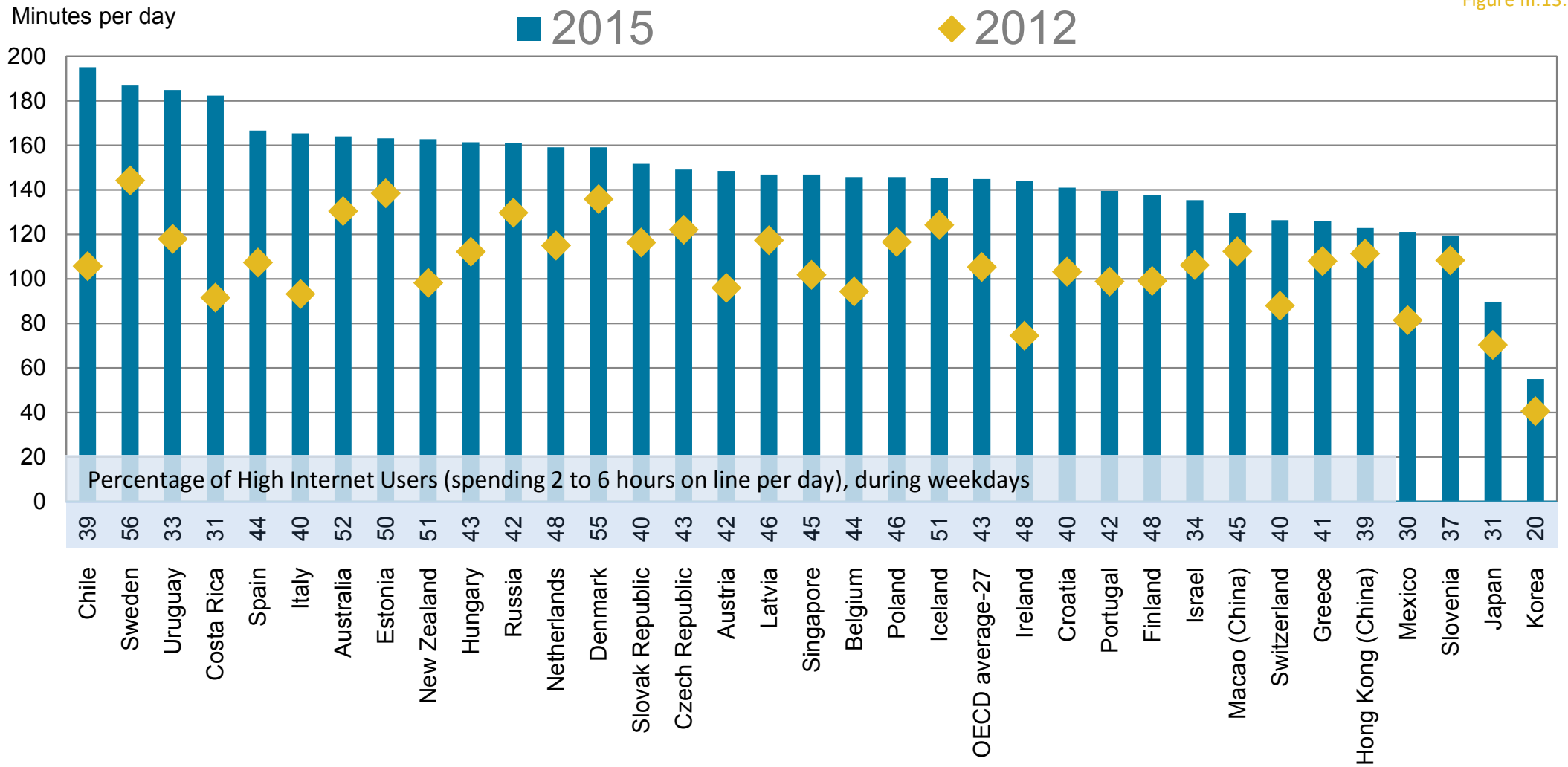
- Algorithms sort us into groups of like-minded individuals create echo chambers that amplify our views, leave us uninformed of opposing arguments, and polarise our societies

# 15-year-olds feeling bad if not connected to the Internet (PISA)



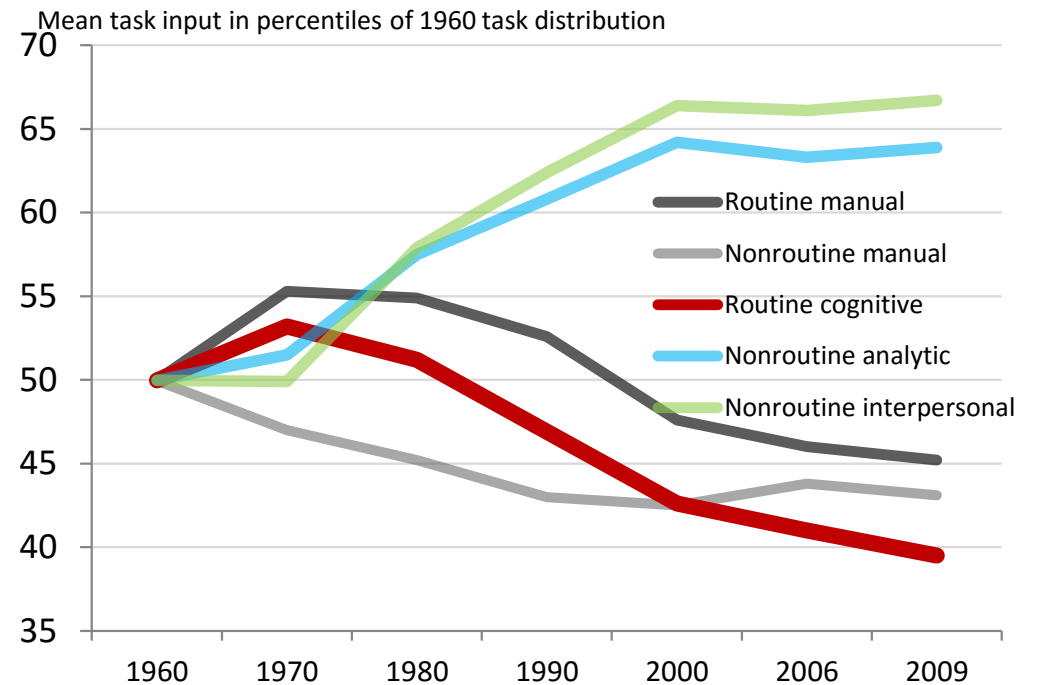
# Students are using more time online outside school on a typical school day (PISA)

Figure III.13.3



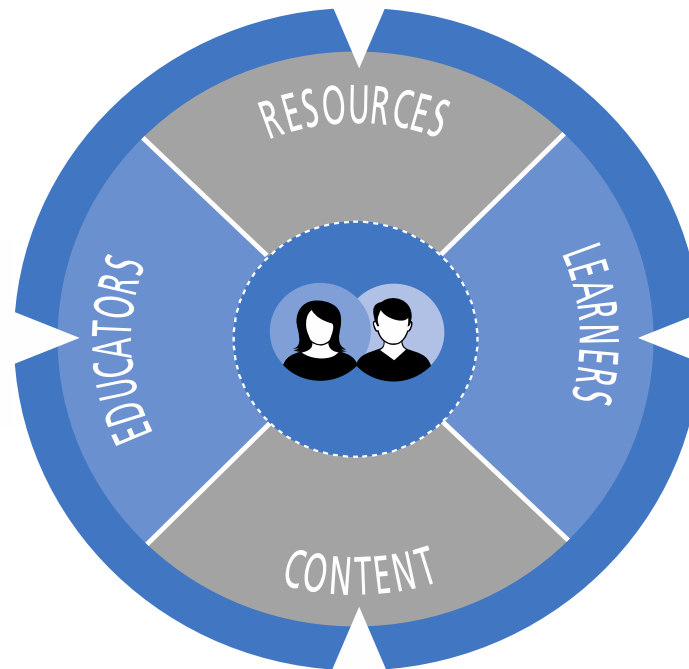


The kind of things that are easy to teach are now easy to automate, digitize or outsource



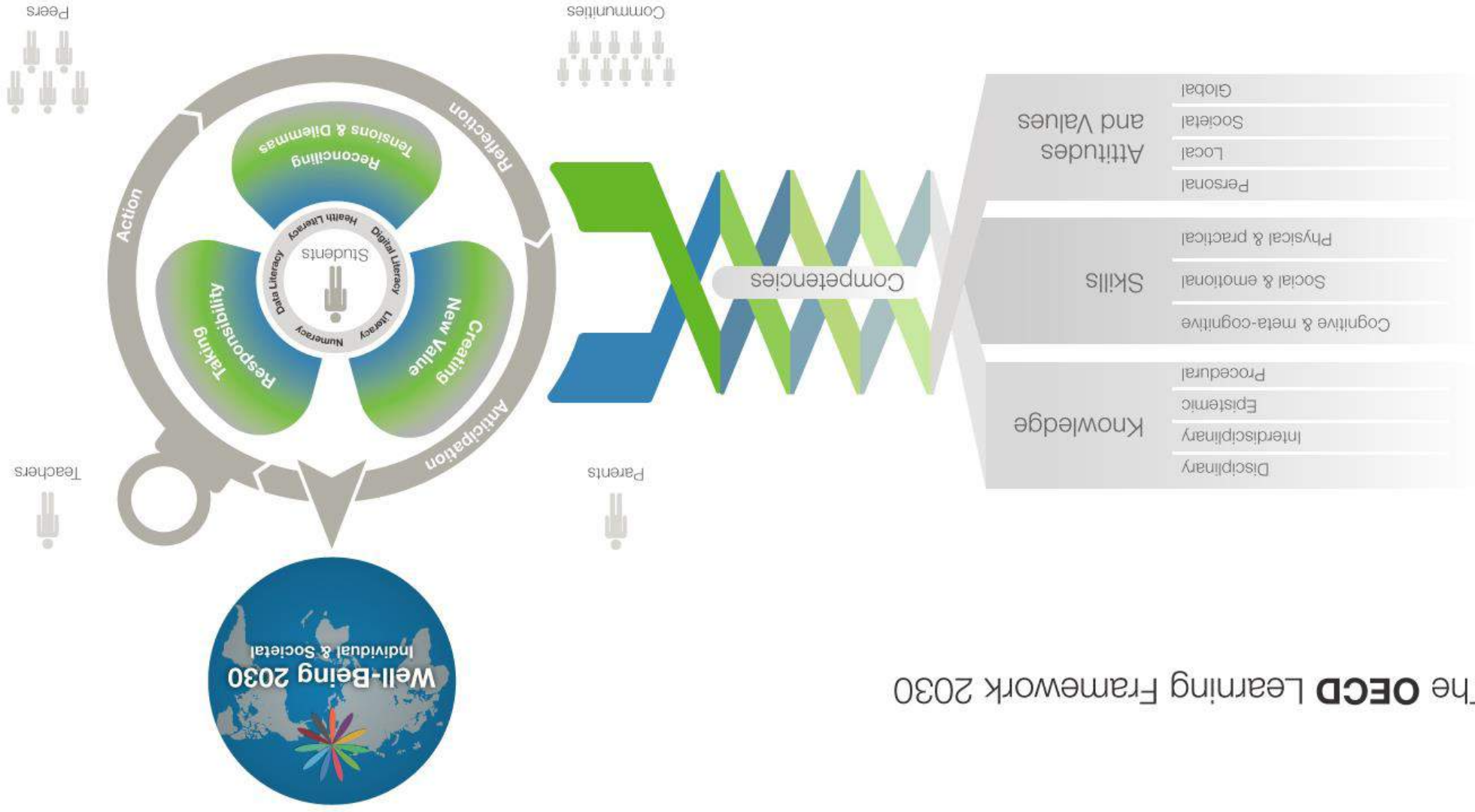
**When fast gets really fast, being slow to adapt makes you really slow**

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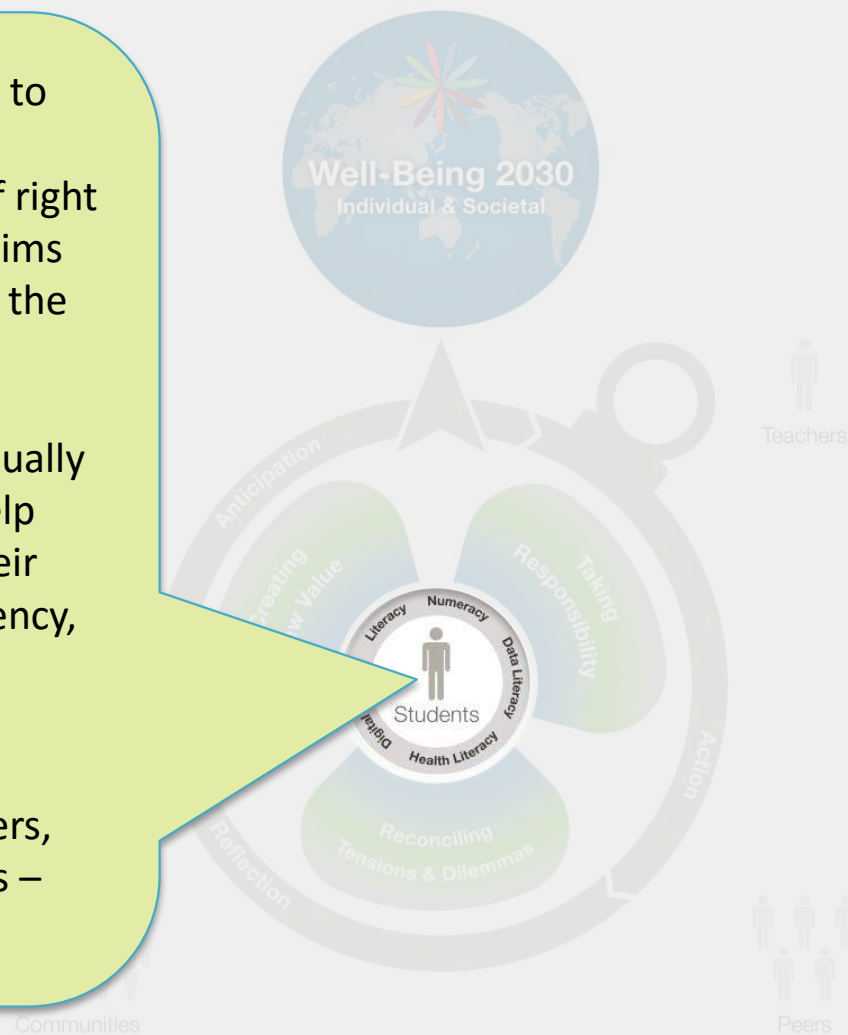


# The OECD Learning Framework 2030

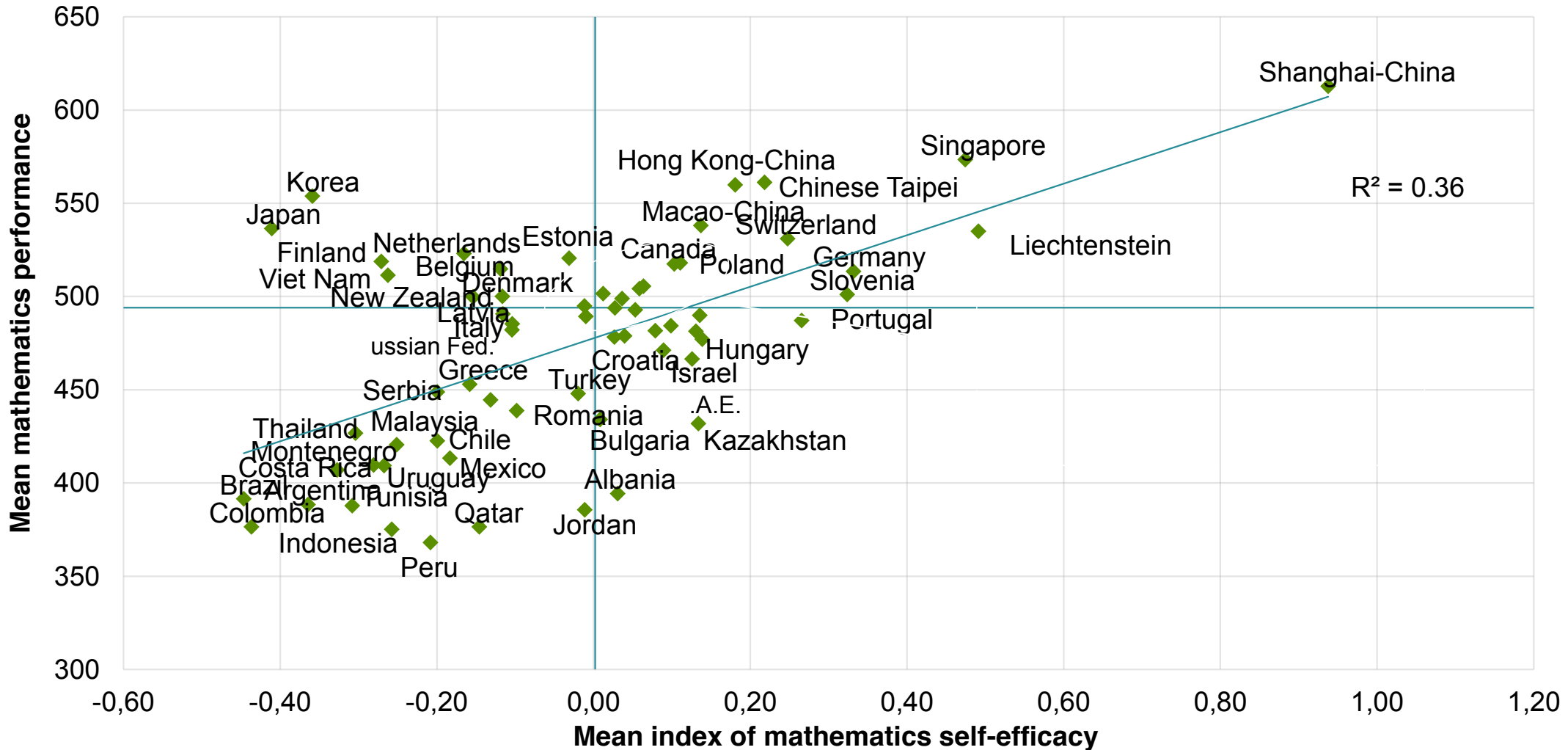


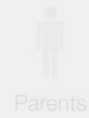
**Agency:** Young people will need to be innovative, responsible and aware. They will have a sense of right and wrong, sensitivity to the claims that others make and a grasp of the proper limits on individual and collective action.

**Co-agency:** The interactive, mutually supportive relationships that help learners to progress towards their valued goals. To help enable agency, educators need to recognise learners' individuality, and also acknowledge the wider set of relationships – with their teachers, peers, families and communities – that influence their learning.



# Countries where students have stronger beliefs in their abilities perform better

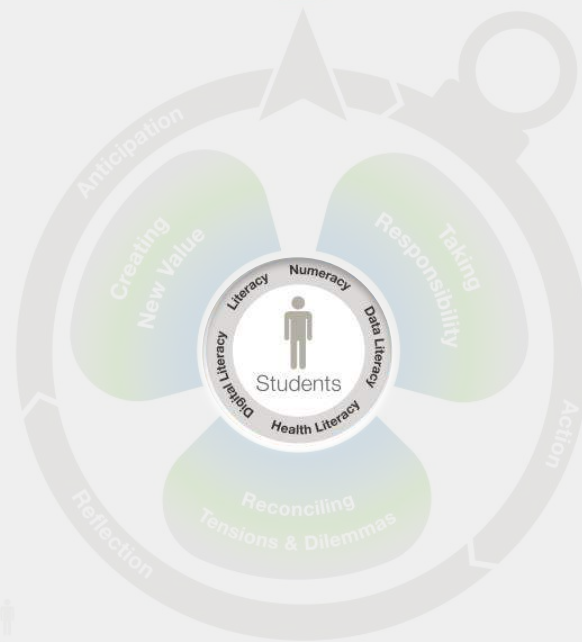




Parents



Teachers



Communities

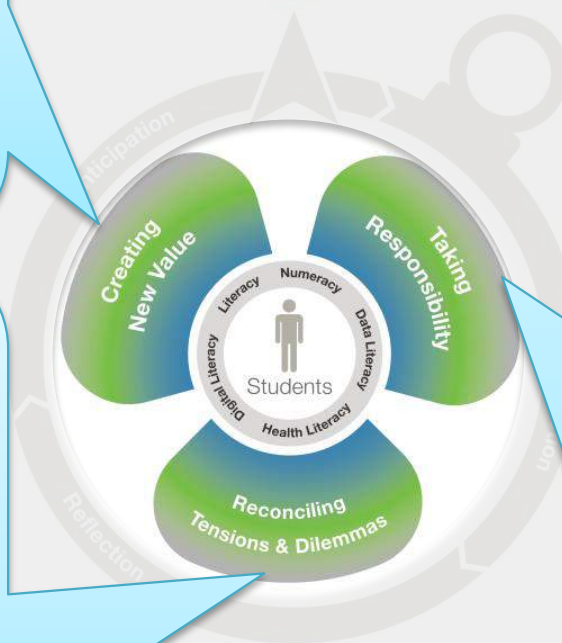


Peers



Creating new value connotes processes of creating, making, bringing into being and formulating; and outcomes that are innovative, fresh and original, contributing something of intrinsic positive worth. The constructs that underpin the competence are creativity/ creative thinking/ inventive thinking, curiosity, global mind-set, ...

In a structurally imbalanced world, the imperative of reconciling diverse perspectives and interests, in local settings with sometimes global implications, will require young people to become adept in handling tensions, dilemmas and trade-offs. Underlying constructs are empathy, resilience/stress resistance trust, ...



Dealing with novelty, change, diversity and ambiguity assumes that individuals can think for themselves and work with others. This suggests a sense of responsibility, and moral and intellectual maturity, with which a person can reflect upon and evaluate their actions in the light of their experiences and personal and societal goals; what they have been taught and told; and what is right or wrong

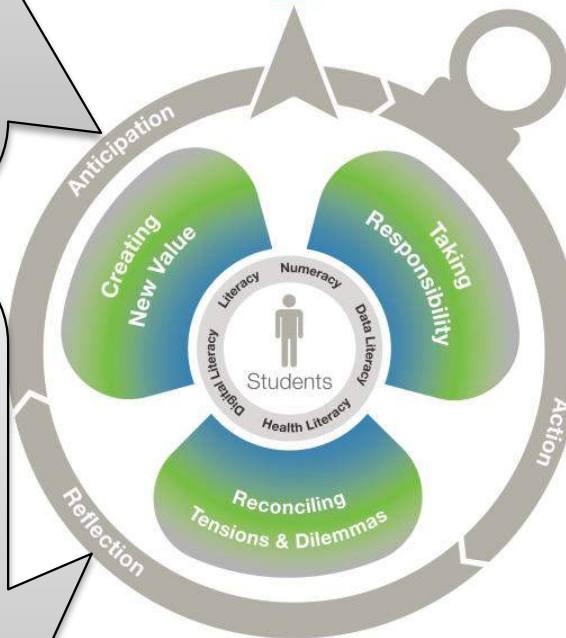
Underlying constructs include critical thinking skills, meta-learning skills (including learning to learn skills), mindfulness, problem solving skills, responsibility, ...



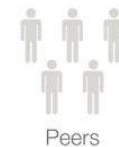
## Implications for pedagogy

Anticipation mobilises cognitive skills, such as analytical or critical thinking, to foresee what may be needed in the future or how actions taken today might have consequences for the future

Reflective practice is the ability to take a critical stance when deciding, choosing and acting, by stepping back from what is known or assumed and looking at a situation from other, different perspectives

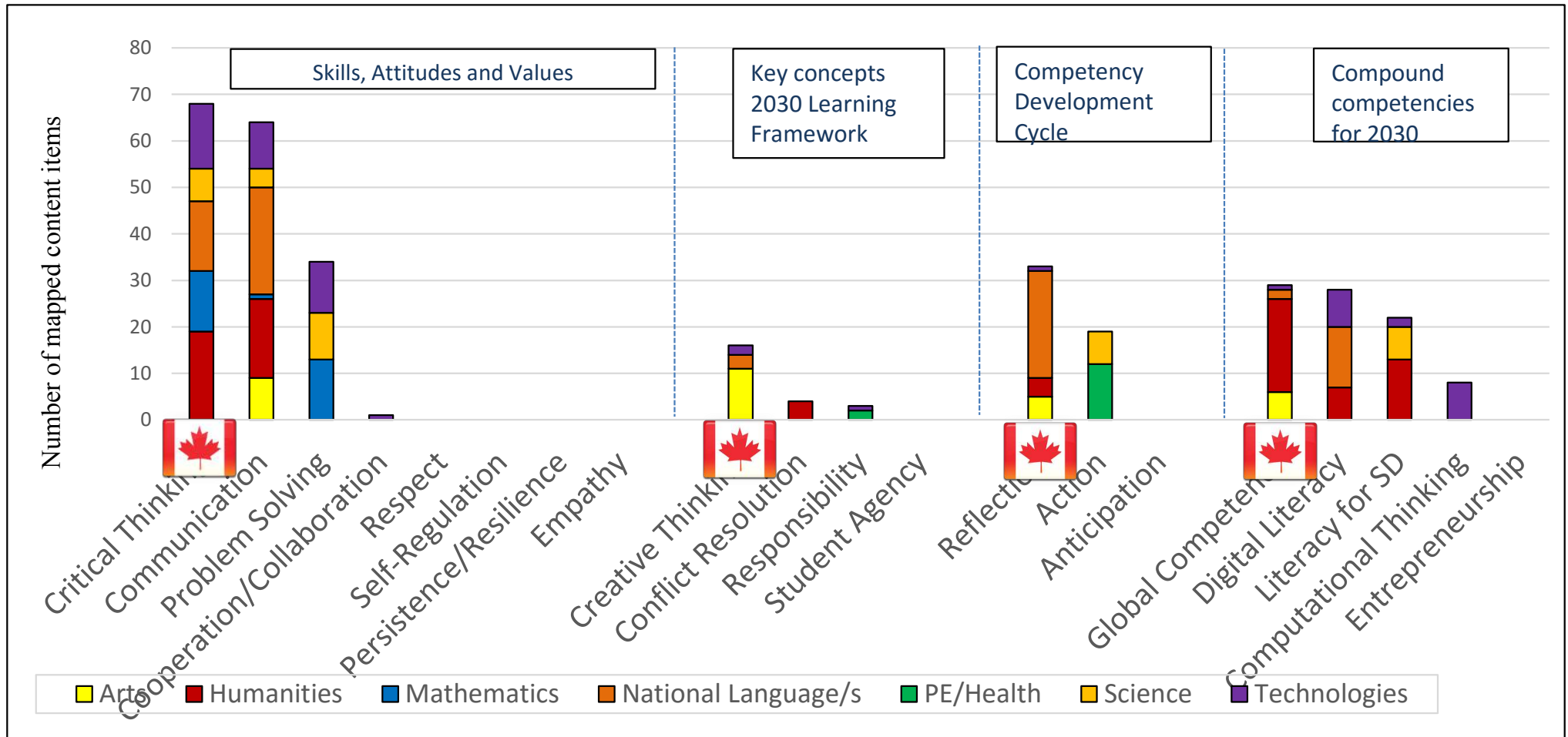


Both reflective practice and anticipation contribute to the willingness to take responsible actions



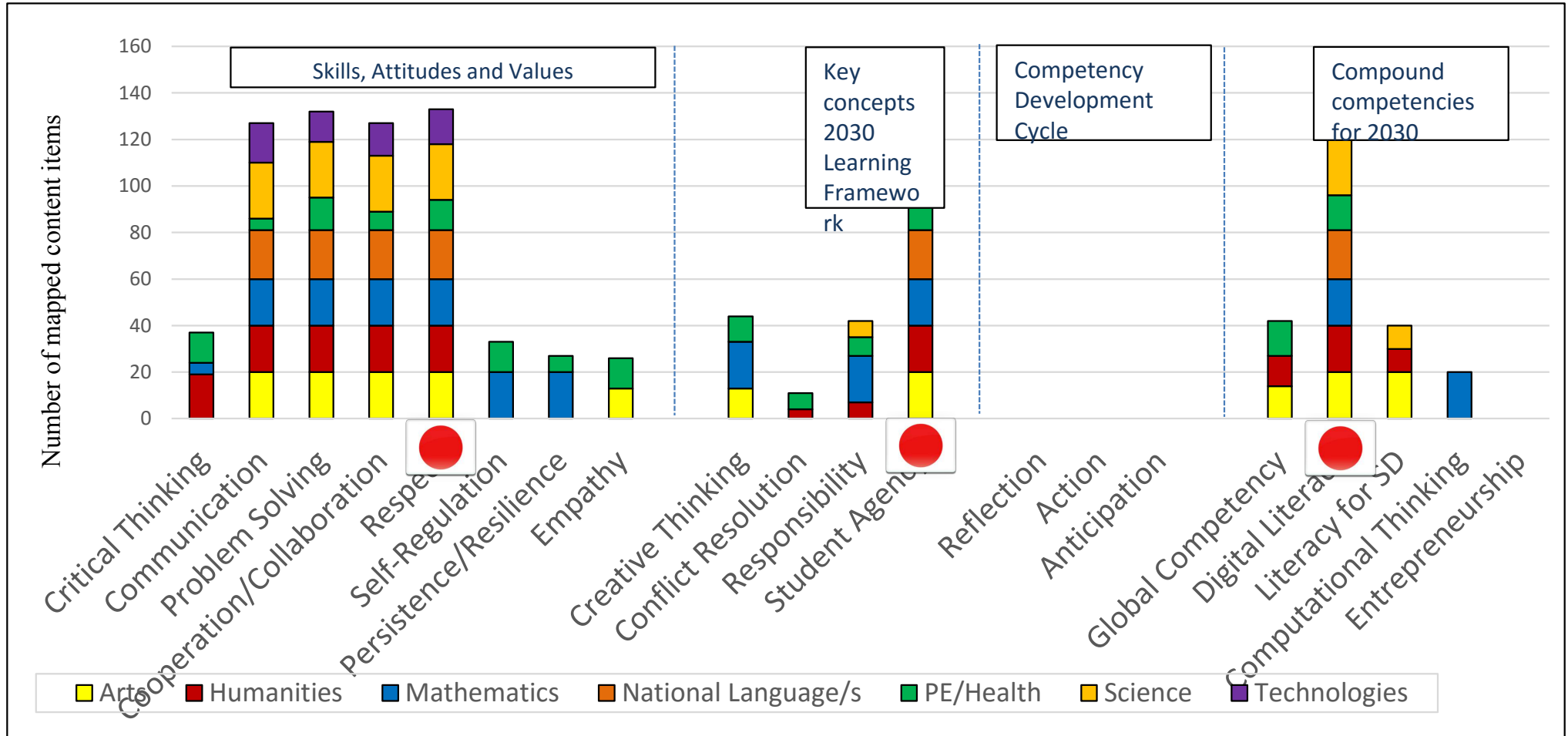
# Current curricula and 2030 aspirations

Preliminary findings of curriculum content mapping (lower secondary; Ontario, Canada)



# Current curricula and 2030 aspirations

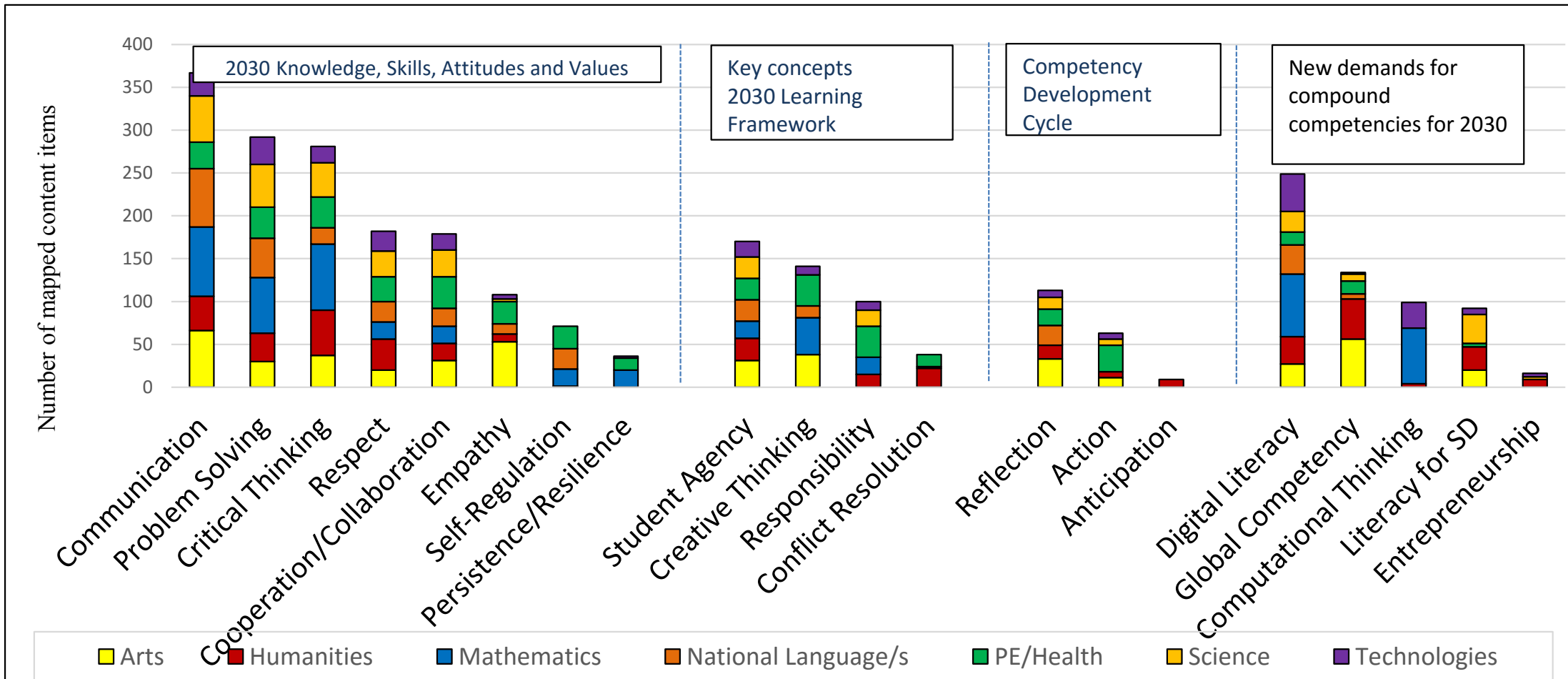
Preliminary findings of curriculum content mapping (lower secondary; Japan)





# Current curricula and 2030 aspirations (country average)

## Preliminary findings of curriculum content mapping (lower secondary)



# Learning time and science performance

Figure II.6.23

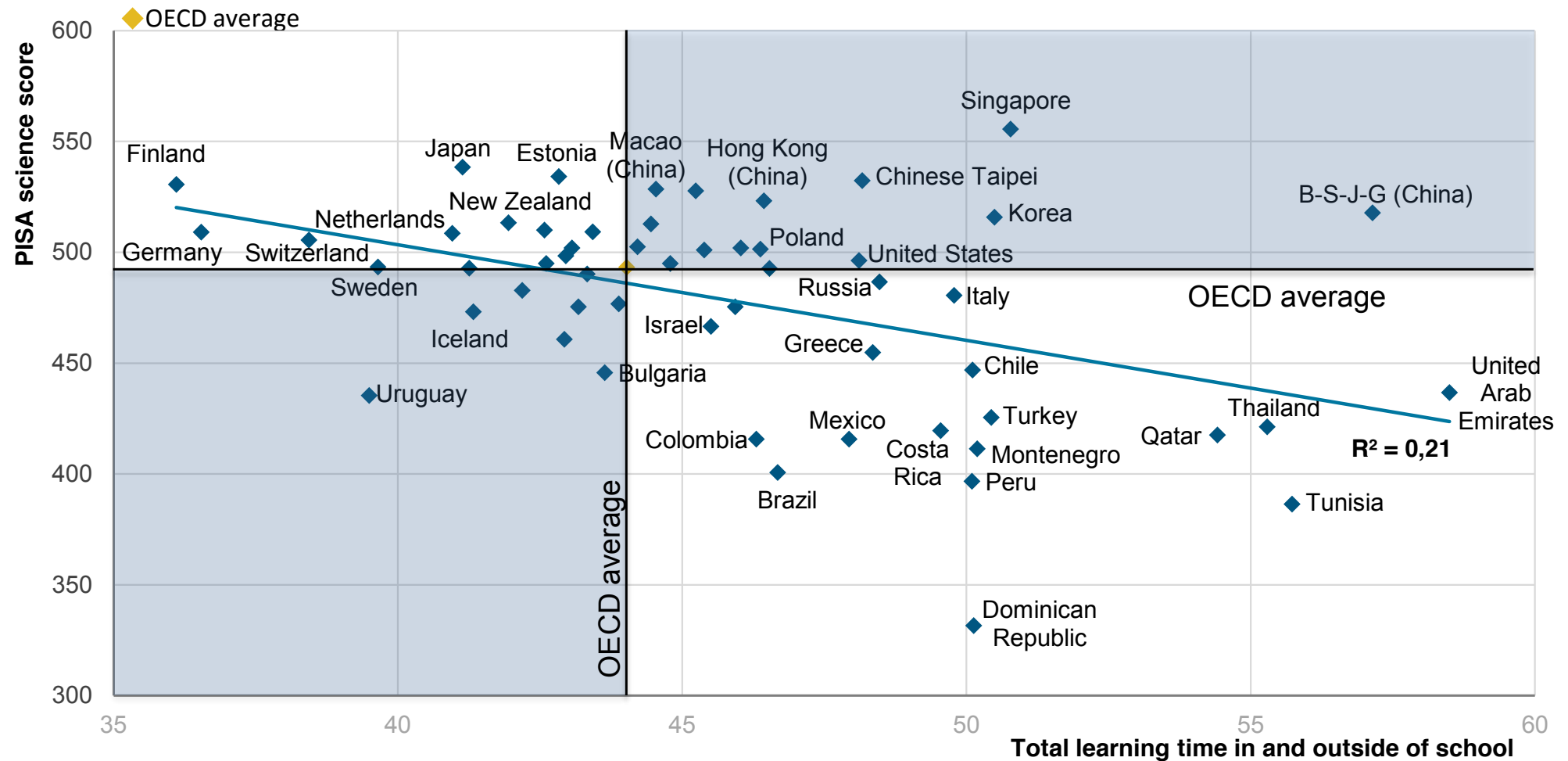
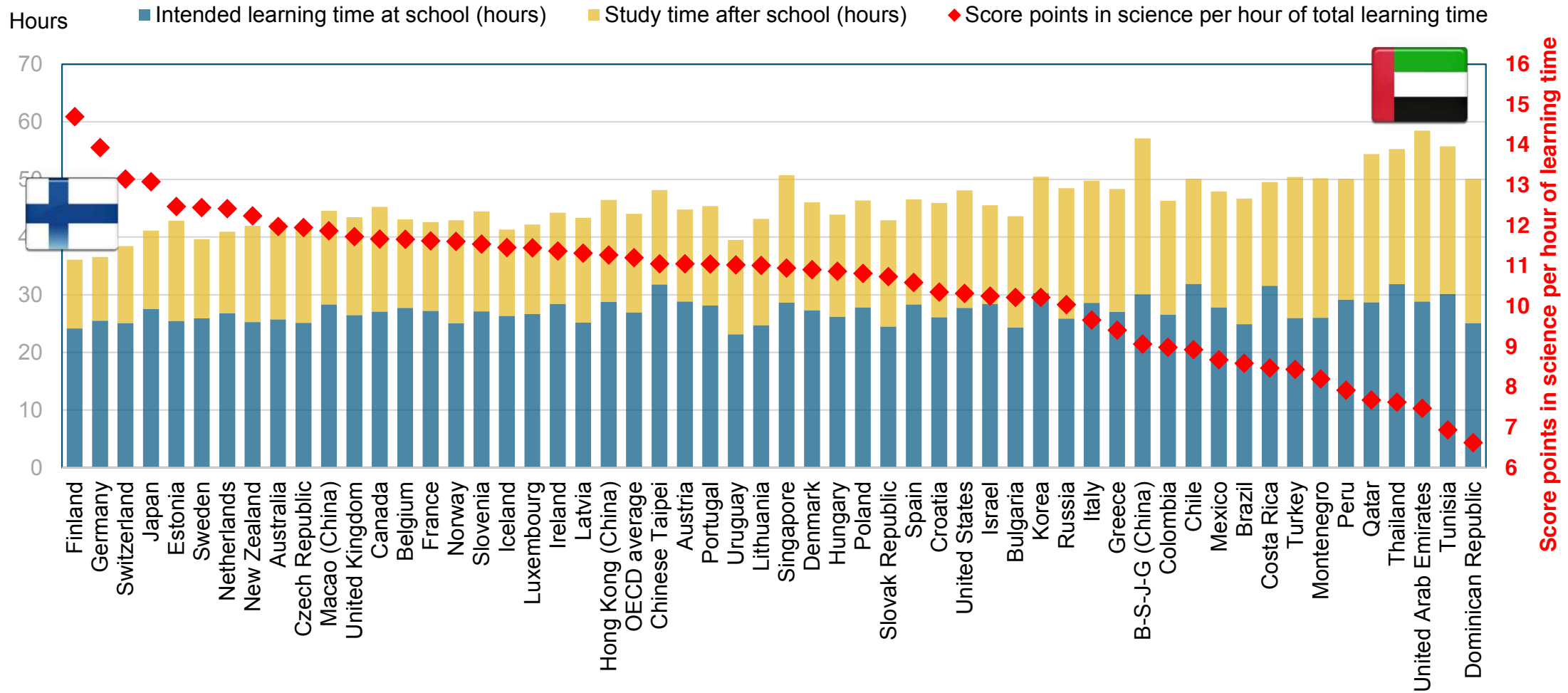
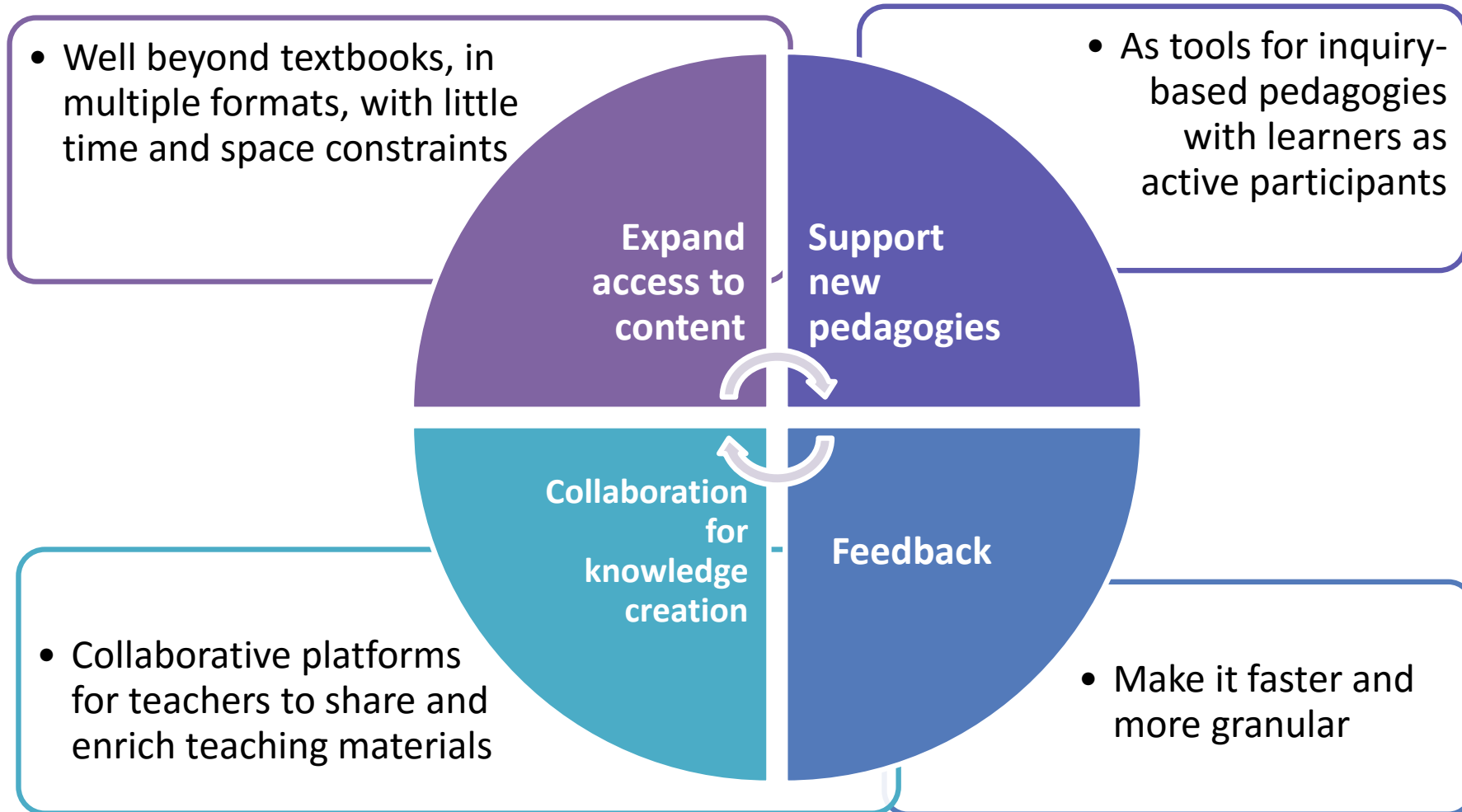


Figure II.6.23

# Learning time and science performance (PISA)



# Technology can amplify innovative teaching

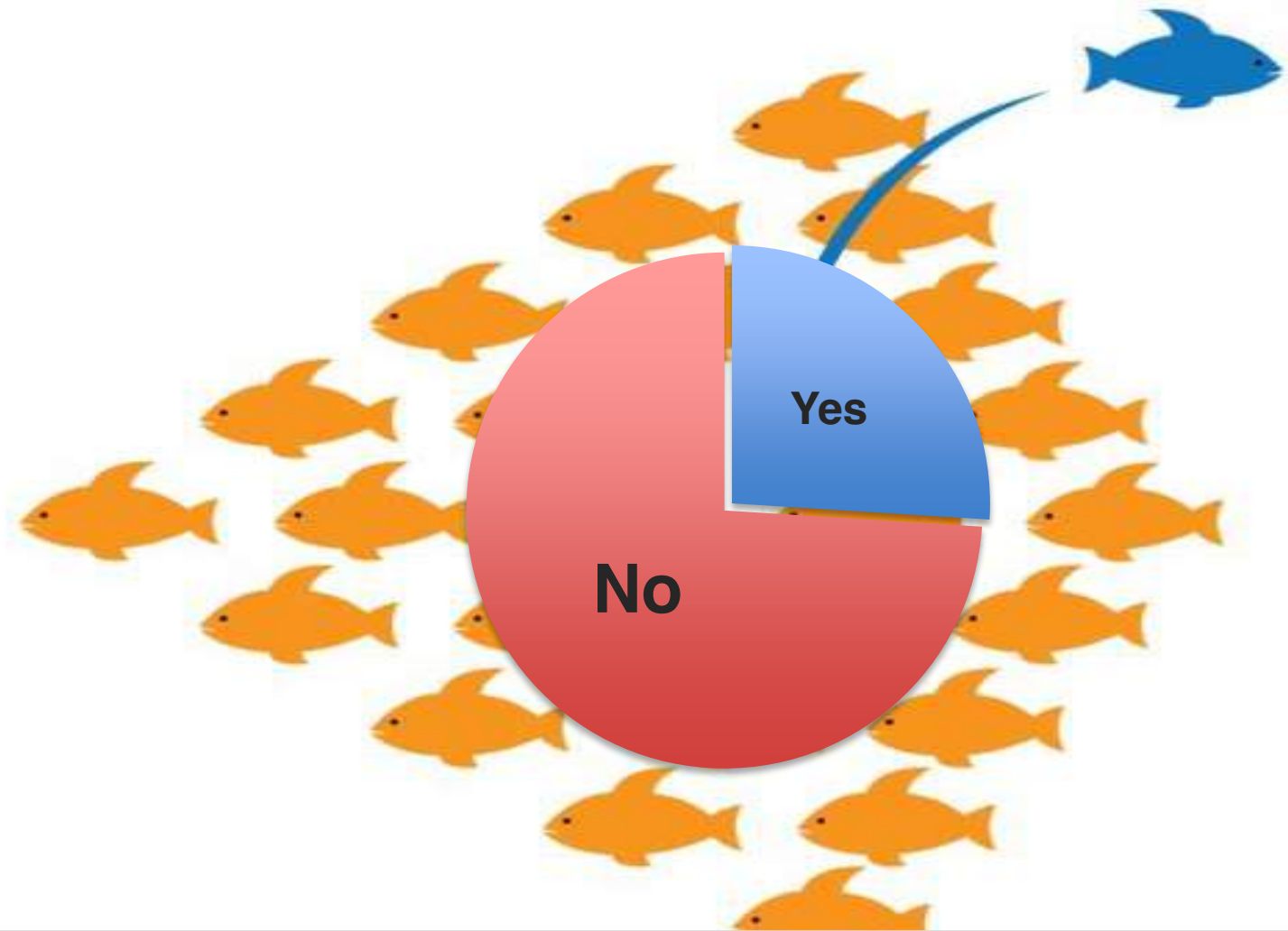


# Technology in schools and digital skills still don't square

Relationship between students' skills in reading and computer use at school (average across OECD countries)



Source: Figure 6.5



**If I am more innovative in my teaching  
I will be rewarded (country average)**

# Some lessons

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- Rigor, focus and coherence
- Remain true to the disciplines
  - but aim at interdisciplinary learning and the capacity of students to see problems through multiple lenses
  - Balance knowledge of disciplines and knowledge about disciplines
- Focus on areas with the highest transfer value
  - Requiring a theory of action for how this transfer value occurs
- Authenticity
  - Thematic, problem-based, project-based, co-creation in conversation
- Some things are caught not taught
  - Immersive learning propositions



**What teachers say  
and what teachers do**





**96% of teachers: My role as a teacher is to facilitate students own inquiry**



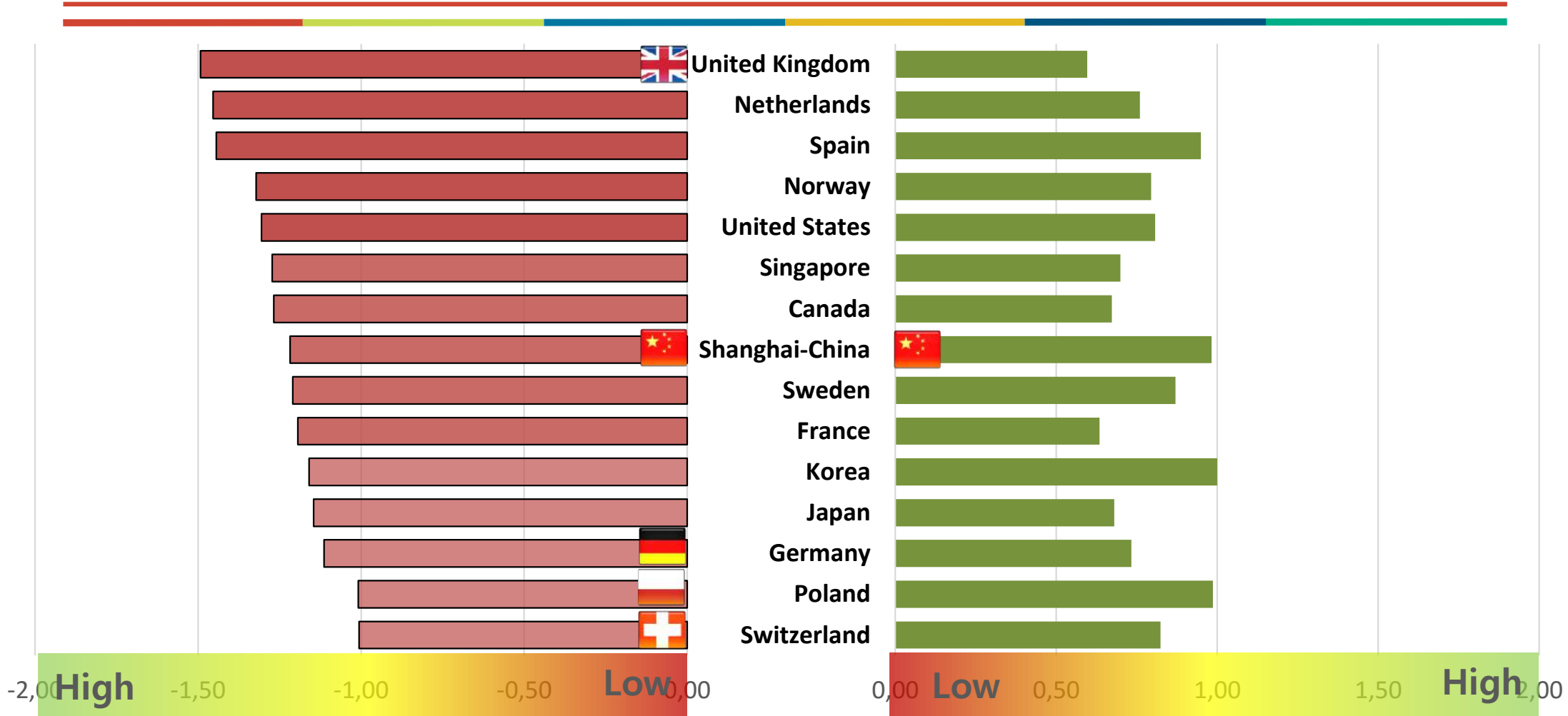
**86%: Students learn best  
by findings solutions on their own**



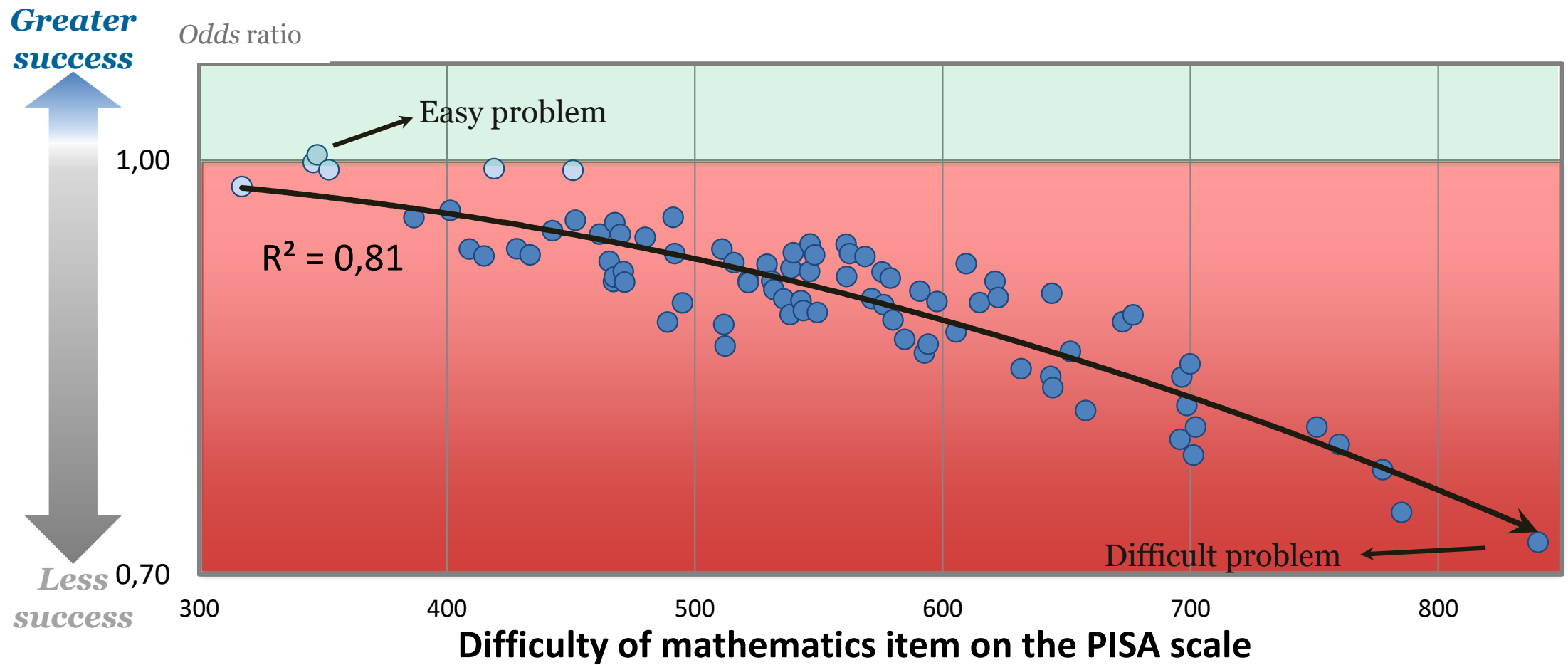
**74%: Thinking and reasoning is more important than curriculum content**

Prevalence of **memorisation**  
rehearsal, routine exercises, drill and  
practice and/or repetition

Prevalence of **elaboration**  
reasoning, deep learning, intrinsic  
motivation, critical thinking,  
creativity, non-routine problems

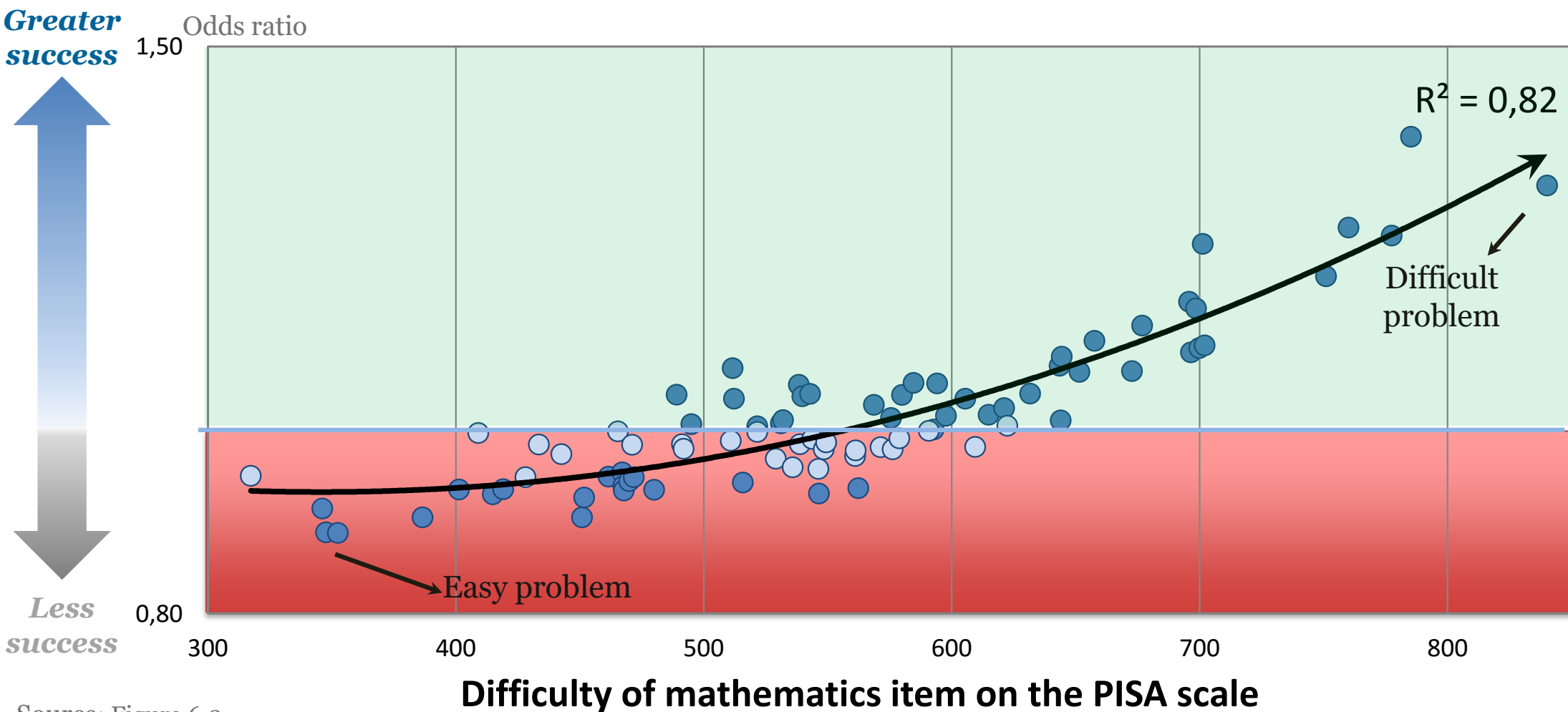


# Memorisation is less useful as problems become more difficult (OECD average)



Source: Figure 4.3

# Elaboration strategies are more useful as problems become more difficult (*OECD average*)



Source: Figure 6.2

# What policy can do

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- Create a more level playing field for educational innovation
- Open up systems
  - Create an innovation-friendly climate so transformative ideas can bloom at the grassroots level
  - Foster innovation within the system and create opportunities for outside innovations to enter the system
- Make great ideas real
  - Strengthen professional autonomy and a collaborative culture where great ideas are shared, refined and borrowed, and where access to funding and non-financial support lifts those ideas into action.
  - Build incentives and signals that strengthen visibility and demand for what demonstrably works

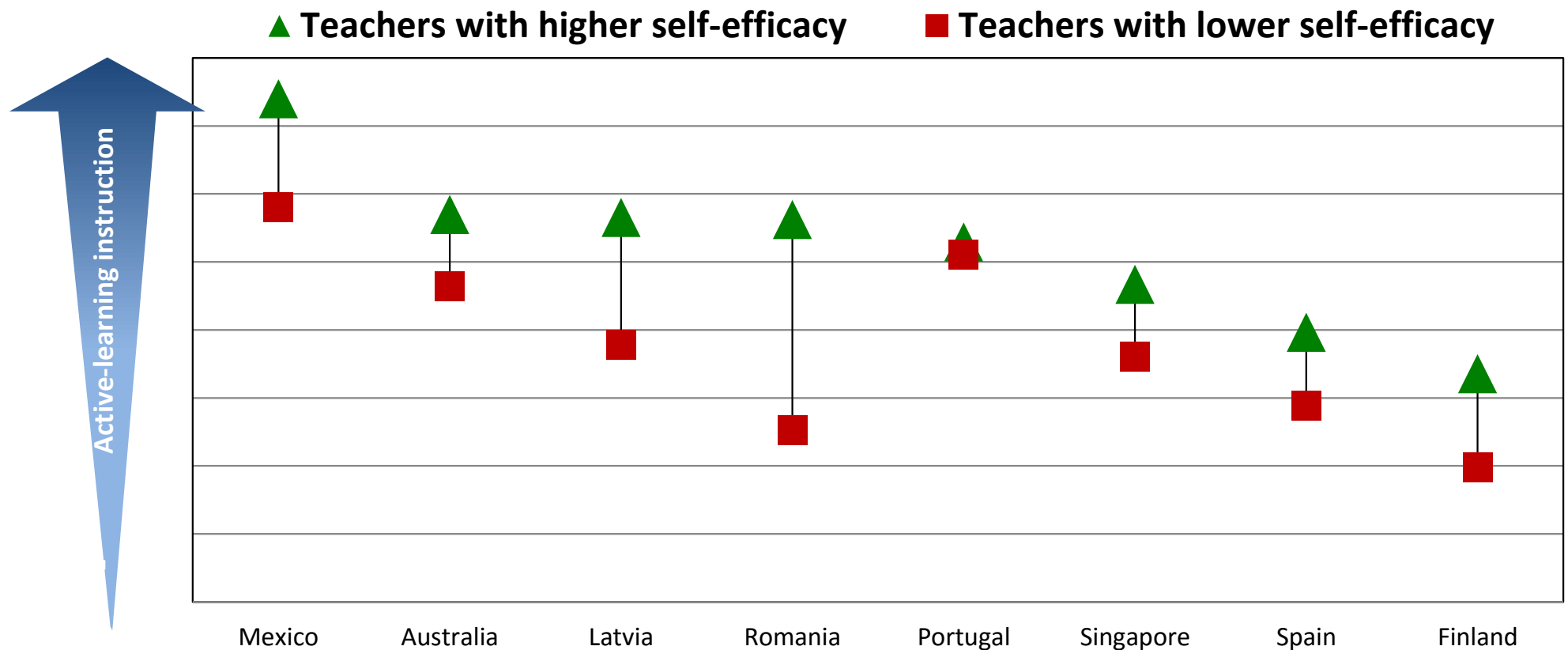
# What policy can do

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- Recognise that technology can amplify great teaching
  - But great technology will never replace poor teaching
- The road of educational reform is littered with good ideas that were poorly implemented
  - Focus on how to design, implement, scale and spread good ideas
  - Focus on how to use the people, the spaces, the time and the technology innovatively
- Increase relevance and quality of innovation
  - and the speed from idea to impact
- Build teachers' capacity and provide more room for entrepreneurship
  - Even where good knowledge exists, many educators just don't believe that the problems they face can be solved by evidence and science.



# Active learning instruction is predicted by teachers' self-efficacy





Theme 3

# Teachers' well-being, confidence and efficacy

## Growing expectations on teachers

Be experts on their discipline and experts on how students learn

- Some evidence that well-being factors impact motivation, self-efficacy and job commitment
- Attrition a growing issue, with high costs
- Growing teacher shortages

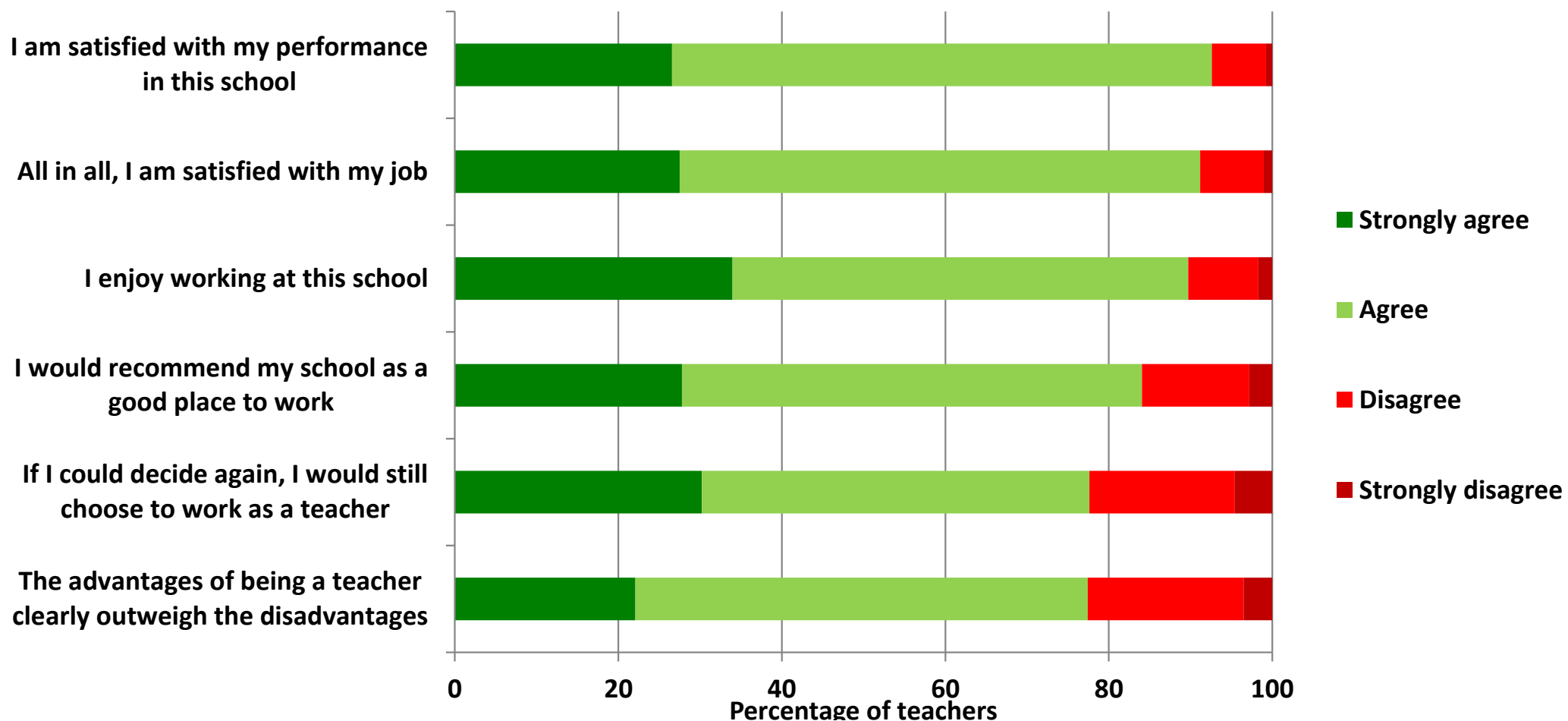
Respond to individual differences with broad pedagogical repertoire

Provide continual assessment with formative feedback

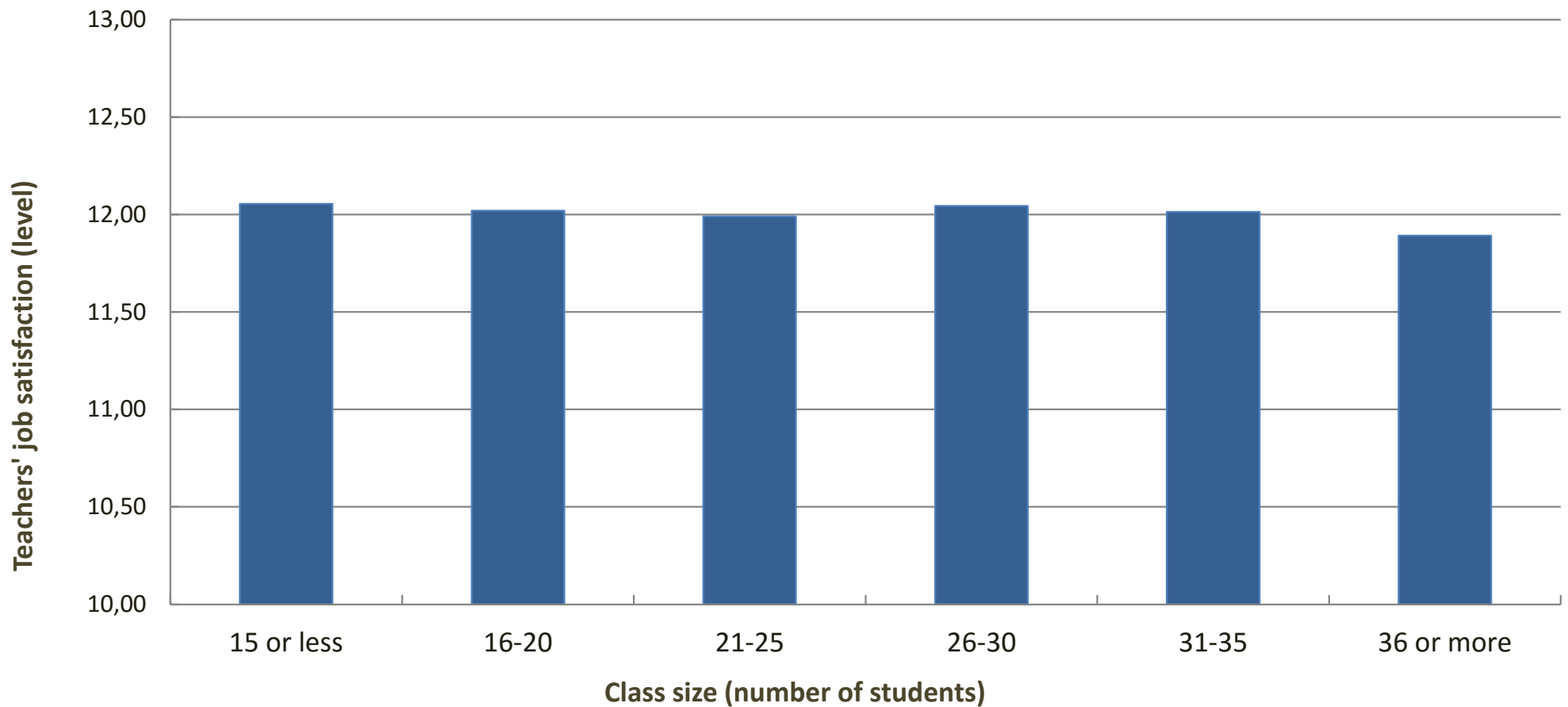
Be demanding for every student with a high level of cognitive activation

Ensure that students feel valued and included and learning is collaborative

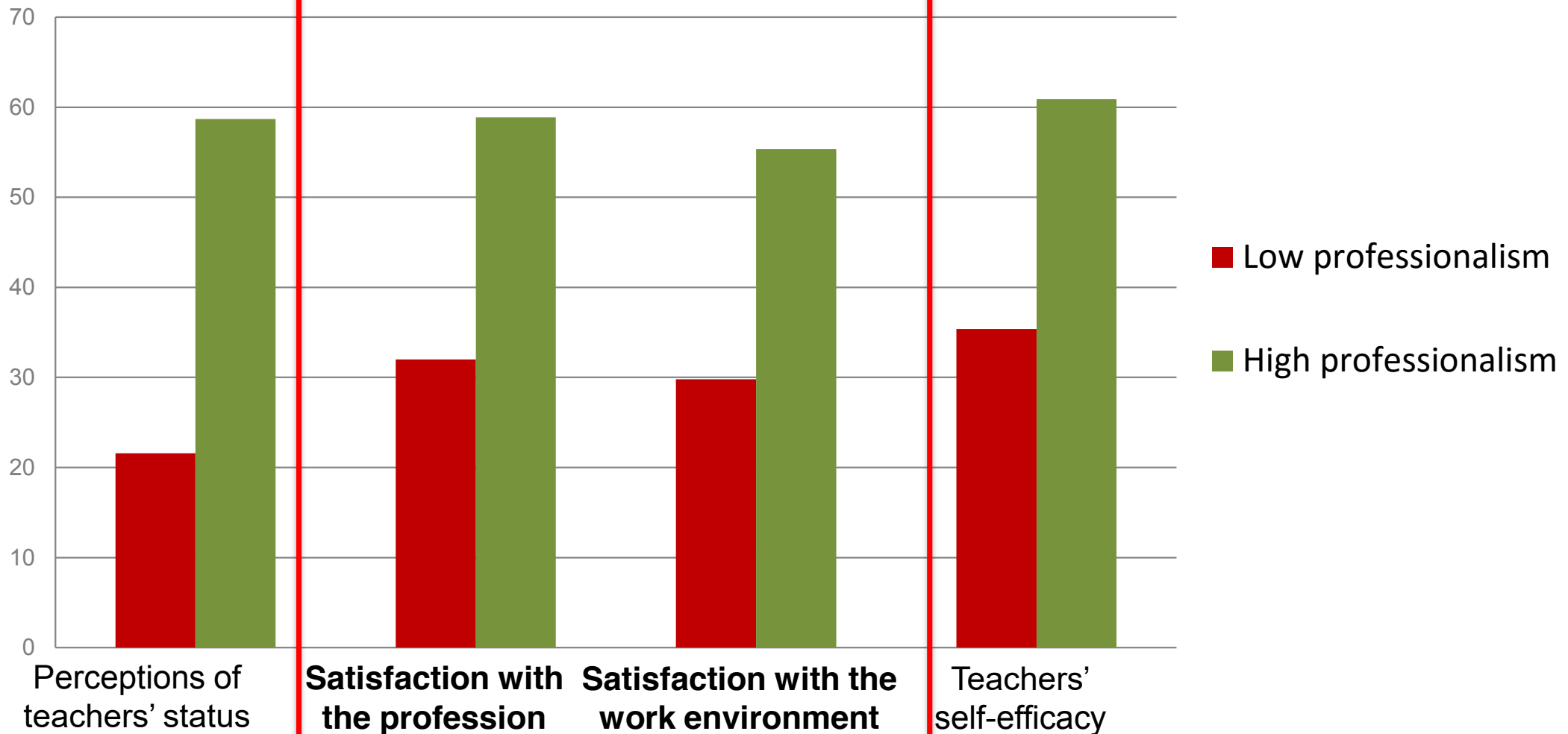
# Teachers' job satisfaction



# Teachers' job satisfaction and class size



# Teacher job satisfaction and professionalism

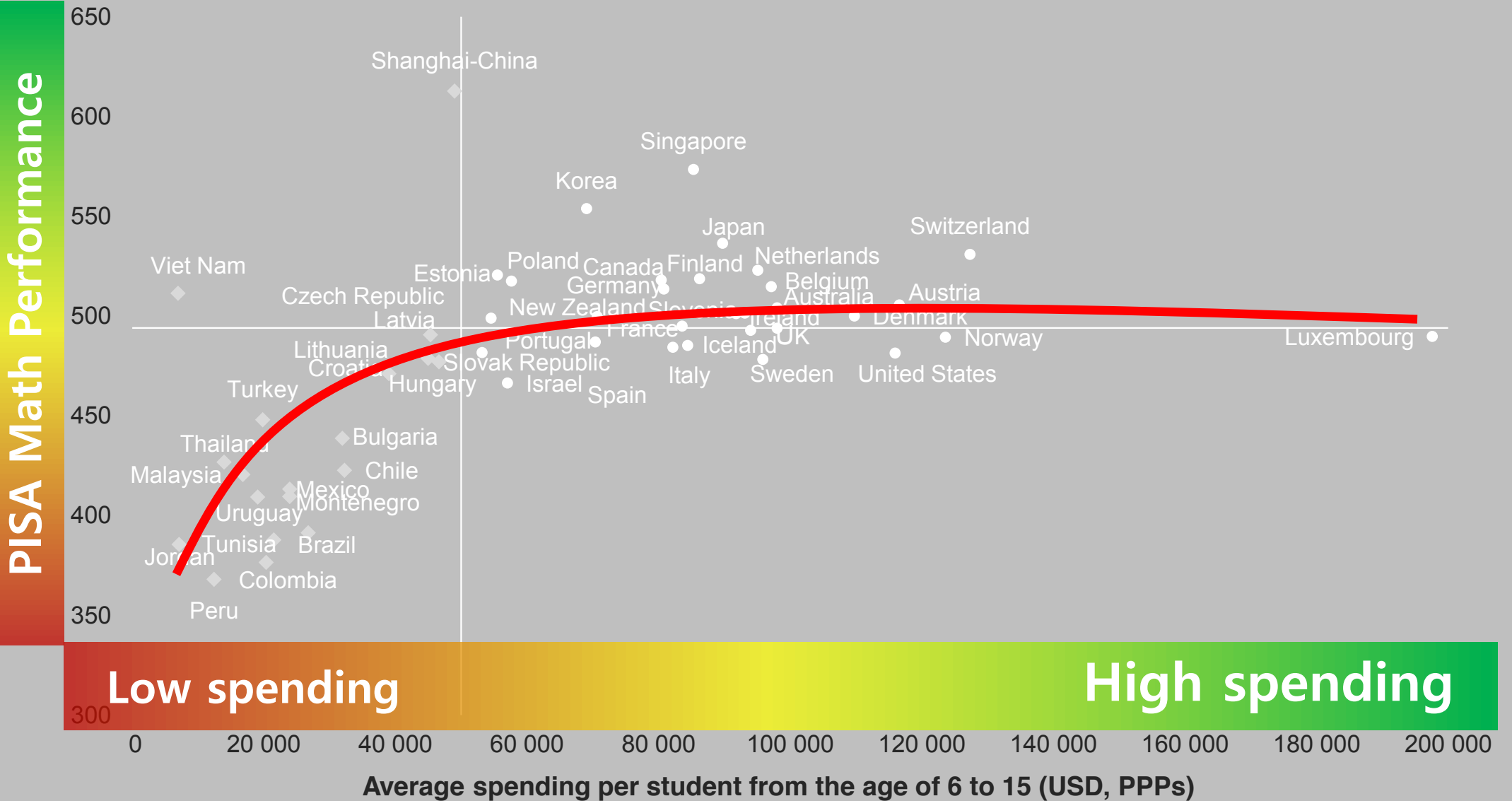


# Professionalism

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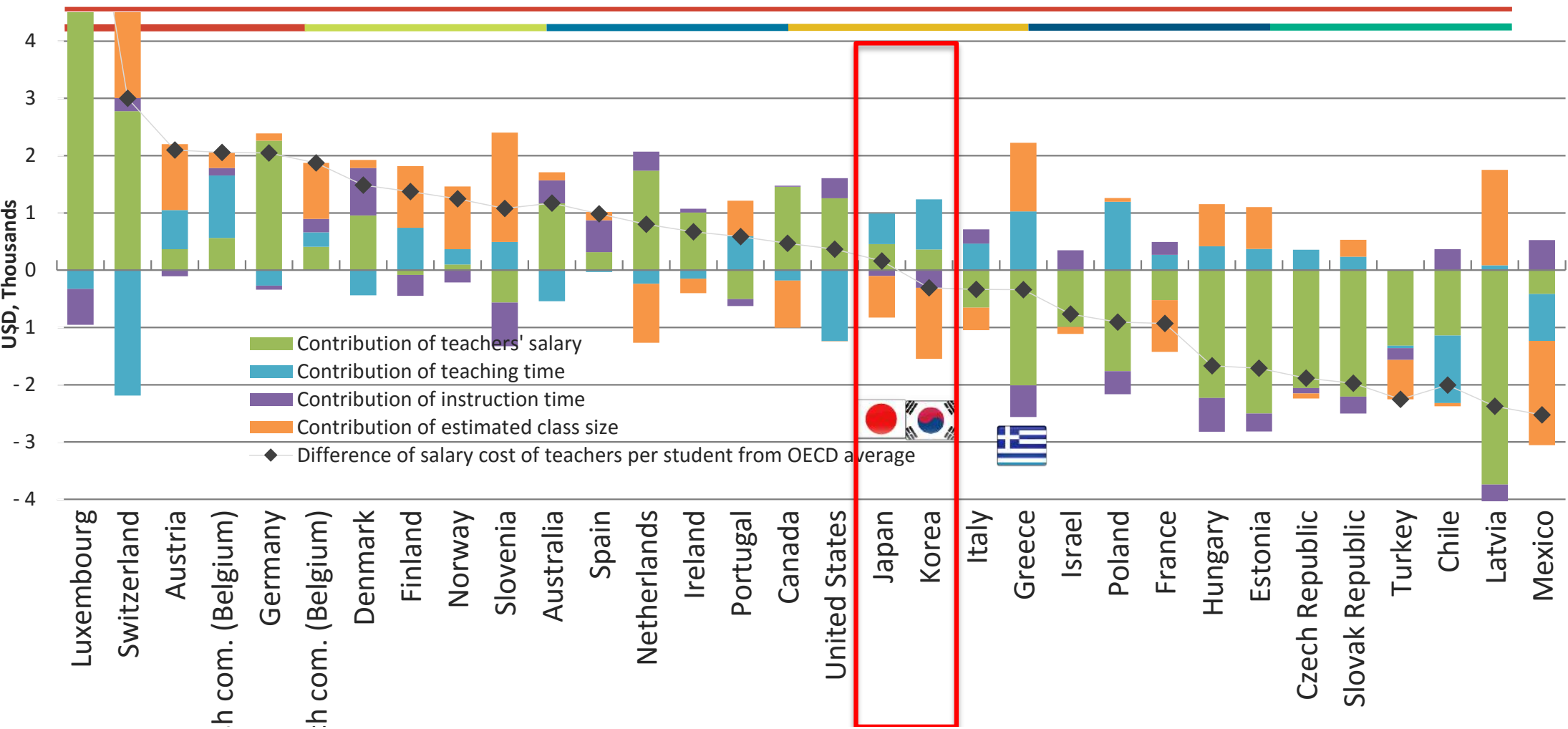
# Spending per student and learning outcomes





# Countries spend their money differently

Contribution of various factors to salary cost of teachers per student in public institutions, lower secondary education (2015)





Session 1

# Schools at the centre of communities

Powerful learning environments are constantly creating synergies and finding new ways to enhance professional, social and cultural capital with others. They do that with families and communities, with higher education, with other schools and learning environments, and with businesses.

# Schools and communities: a virtuous relationship

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Schools can become partners in serving the needs of local communities, especially in disadvantaged communities

**Successful schools draw on the resources and support of their communities**

Schools engage parents and families in learning, and also draw on resources of local enterprises, community organisations, social services, and sports and cultural institutions, such as museums, theatres or libraries



Extracurricular activities that enrich communities in sports, social care and volunteering

Service learning

**Schools are vital to the social health of their local communities**

Research projects offer innovative answers to the needs of local enterprises, while enhancing entrepreneurialism among students and providing real-world experiences.

# Science competitions offered at school, by schools' socio-economic profile

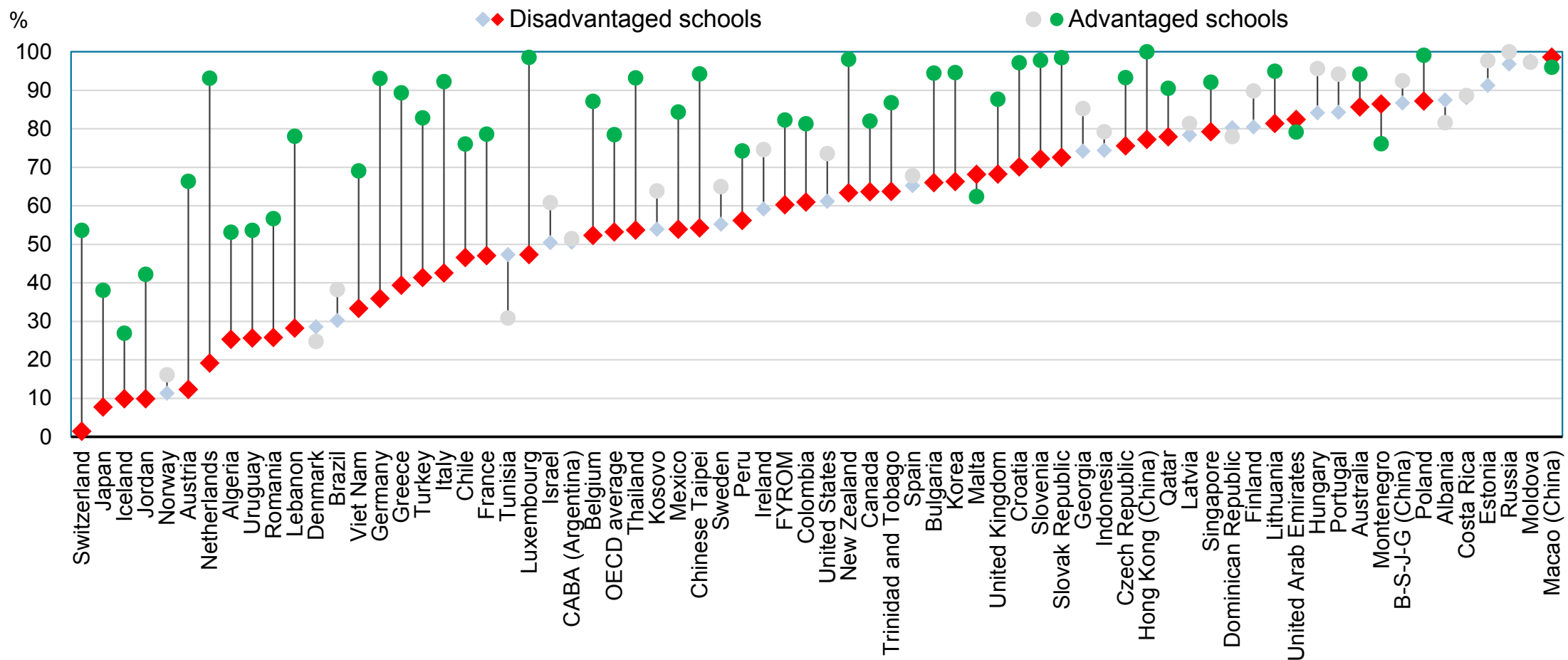
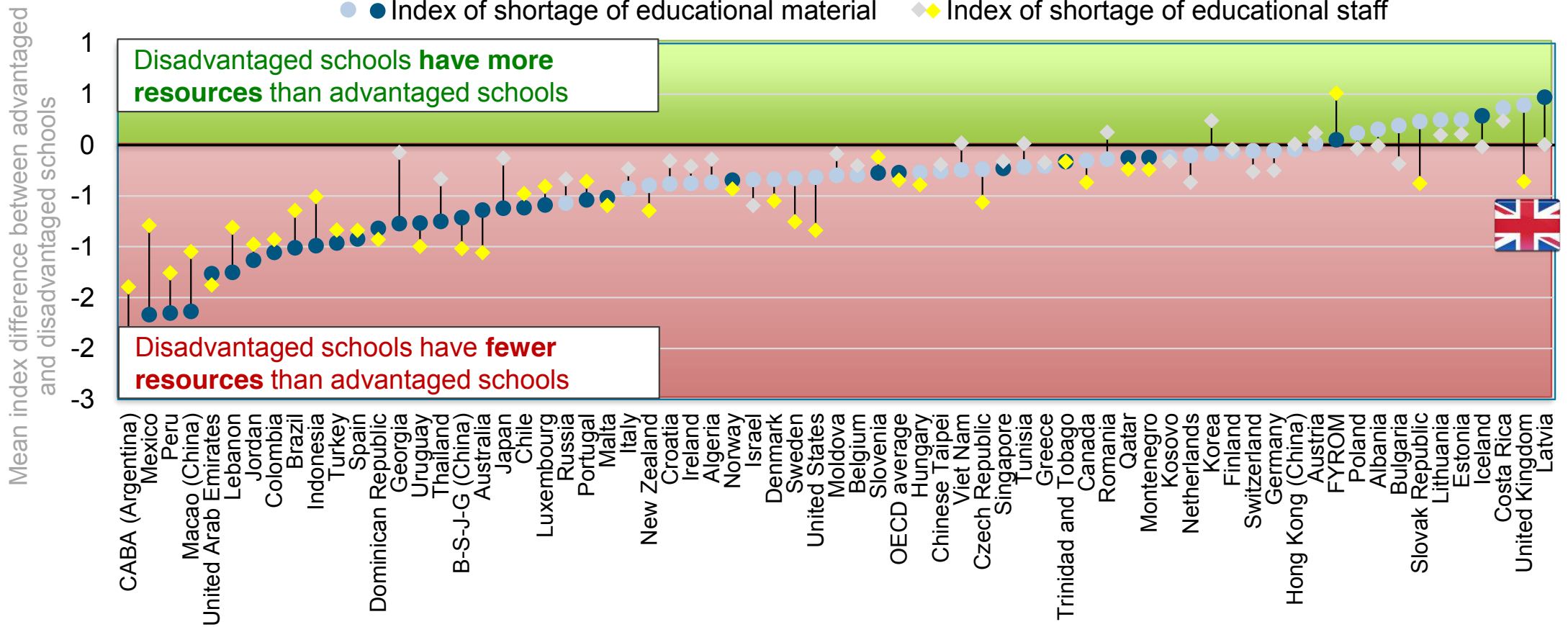


Figure I.6.14

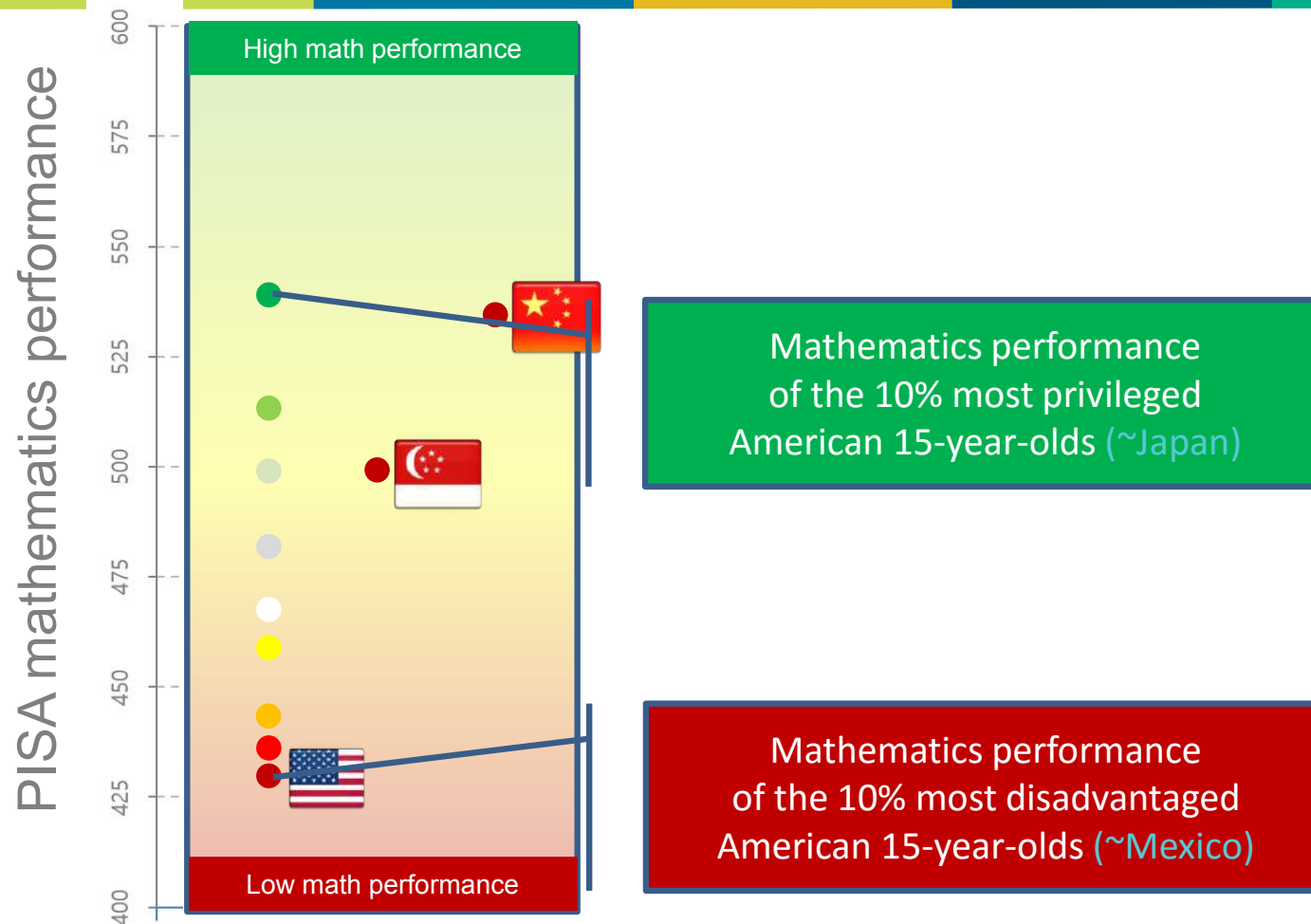
# Differences in educational resources

## between advantaged and disadvantaged schools



# Poverty need not be destiny:

PISA math performance by decile of social background



**What can policy do?**

Engaging parents and stakeholders

Manage/consolidate school network

Formula-based approaches to school financing

Financial incentives for schools



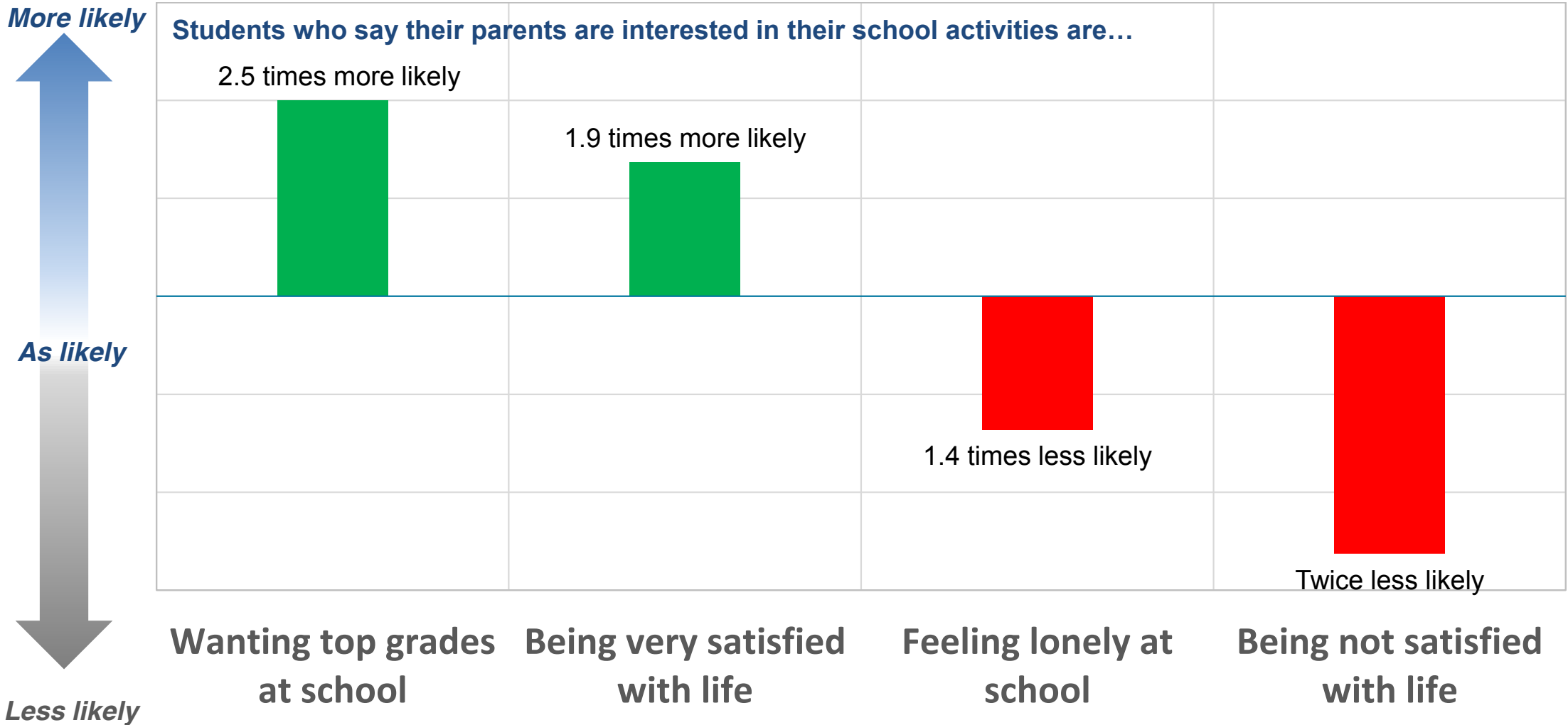
Assistance for disadvantaged parents



Foster collaboration /pairing among schools

Admission policies, controlled choice

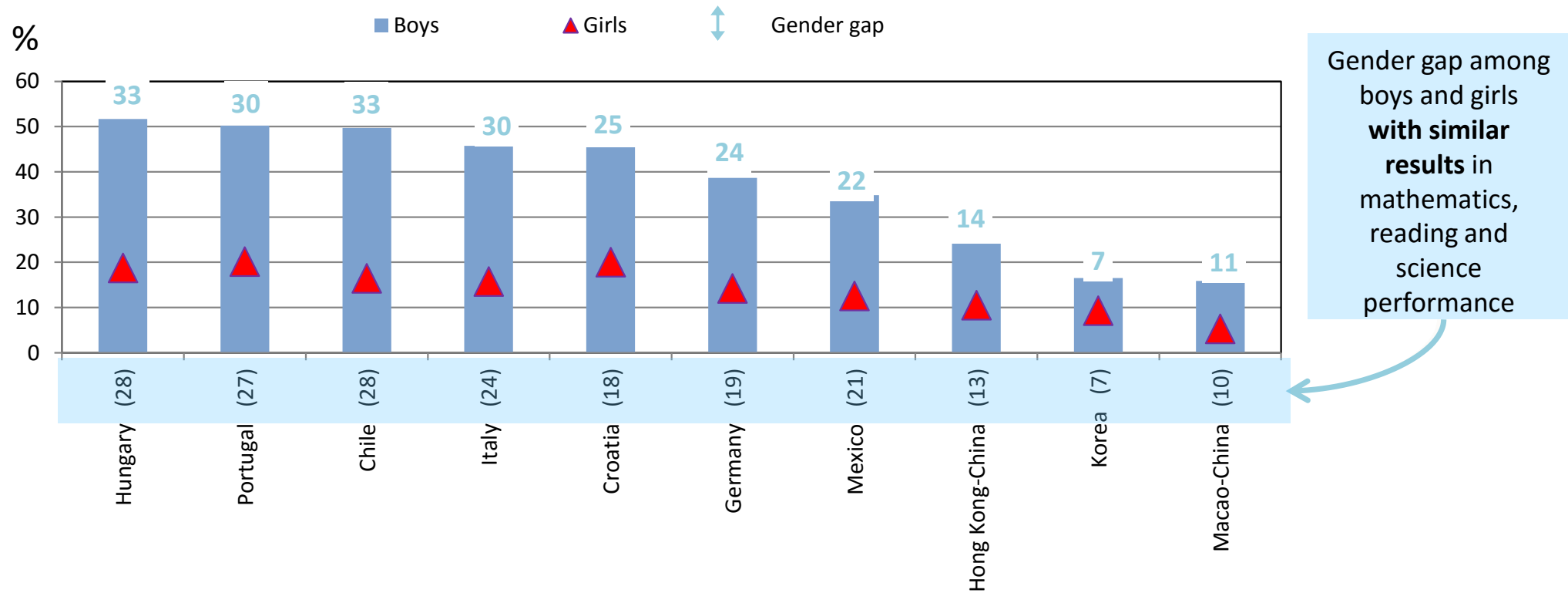
# Parents' interest in their child's activities at school and well-being (average)





# Parents are more likely to expect their sons, rather than their daughters, to enter a STEM career – even when boys and girls perform equally well in school

Percentage of students whose parents expect that they will work in STEM occupations



STEM stands for science, technology, engineering and mathematics.

Source: Figure 5.1 (PISA 2012, ABC of gender equality)





What is holding change back?

# What is holding change back?

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- **Scale and reach of the sector**
  - Everyone has participated, so everyone has an opinion
- **Everyone has a stake**
  - Everyone supports reform – except for their own children
  - Those who promote reforms often change their mind when they understand what change actually entails
- **Education has a highly visible presence**
  - There is no reform by stealth
- **The frogs don't clear the swamp**
  - The loss of privilege is pervasive simply because of the extent of vested interests in maintaining the status quo.

# What is holding change back?

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- You can lose an election but you don't win one over education
  - Complexity and length of reform trajectory that extend electoral cycles
  - A substantial gap between the time when the cost of reform is incurred, and the time when benefits materialise
- Asymmetry of costs and benefits of educational reform
  - Reform is easy to derail by vocal interest groups
  - Costs are certain, benefits not
- Provider capture
  - Teachers often command greater public trust than politicians
  - Even when parents have a poor opinion of the education system, they will generally view the school of their children and its teachers positively

# What is holding change back?

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- **Absence of supportive ecosystems**
  - Lack of an education industry that pushes innovation and absorbs risks
  - A research sector that is disengaged from the real needs of real people and real classrooms
- **Absence of systematic reform evaluation**
- **Lack of leadership capacity**
  - Limited career structures

# Effective governance...

## Focuses on processes, not structures

- Number of levels and power at each are not what make or break a good system, but rather the strength of the alignment across the system, the involvement of actors and the processes underlying governance and reform.

## Is flexible and able to adapt to change and unexpected events

- Strengthening a system's ability to learn from feedback is fundamental

## Works through building capacity, stakeholder involvement and open dialogue

- Involvement of more stakeholders only works when there is a strategic vision and a set of processes to harness their ideas and input

## Requires a whole-of-system approach

- Aligning policies, roles and responsibilities to improve efficiency and reduce potential overlap

## Harnesses evidence and research to inform policy and reform

- A strong knowledge system combines data, research findings and expert practitioner knowledge. The key is knowing what to use, when, why and how.

# What can policy do?

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Strive for consensus without compromising drive for improvement

- Acknowledge divergent interests and provide mechanisms for institutionalized consultation
- Build effective partnerships

Engage teachers not just in implementation of reform but in their design

Use and evaluate pilots

- Policy experimentation can help build consensus on implementation and can prove powerful in testing out policy initiatives and – by virtue of their temporary nature and limited scope – overcoming fears and resistance by specific groups of stakeholders

Back reforms with sustainable capacity

Time implementation carefully



# Thank you

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