



# Pisa Results and the Future Perspective

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FOR THE NEXT GENERATION  
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# KNOWLEDGE – POWER – TECHNOLOGY

## FROM

Hidden

Quill

Private

One truth

Transmitting

Elitist

Maintaining

National

## TO

Open

Wikipedia

Shared

Competing ideas

Critical thinking

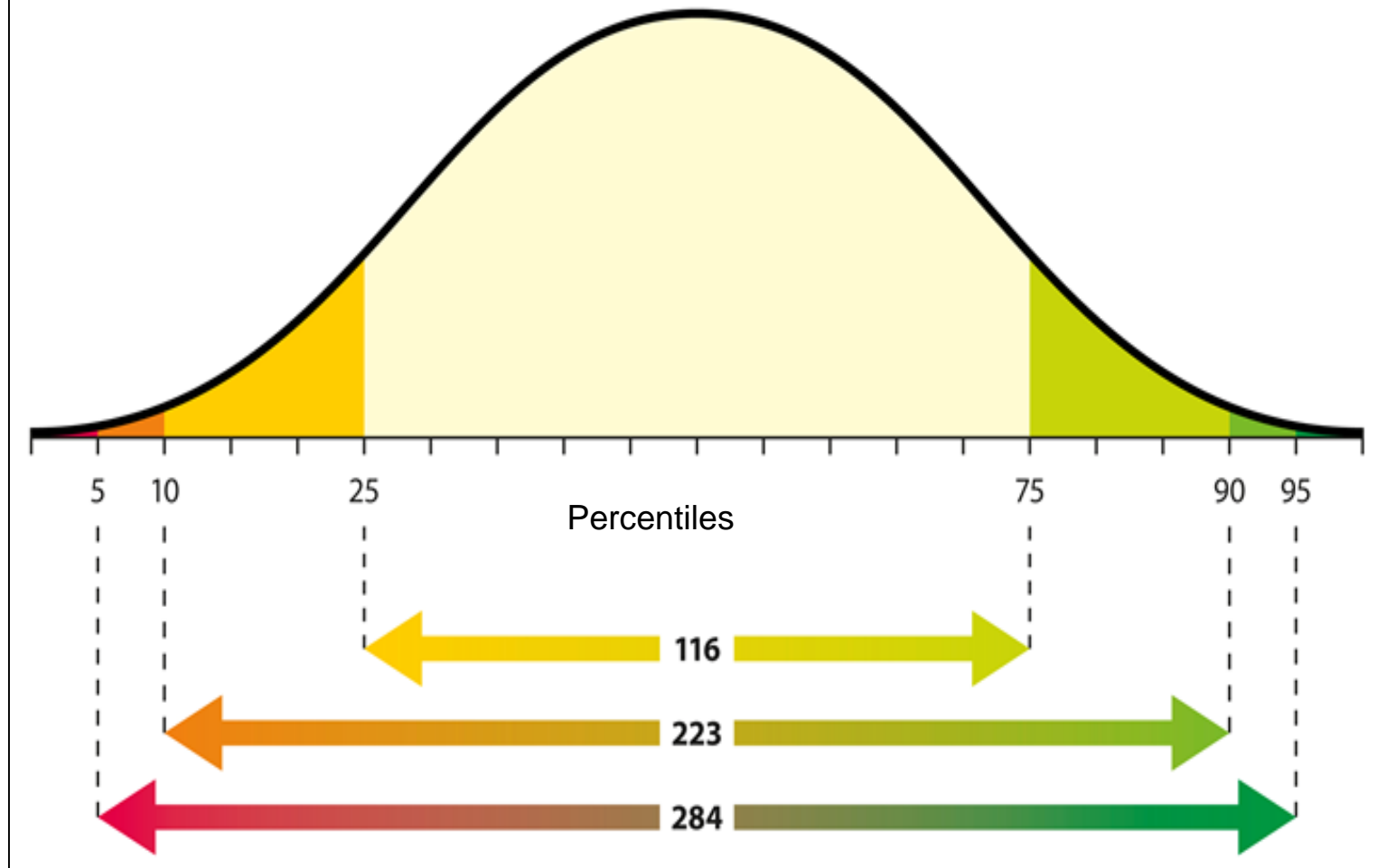
Democratic

Revising

Global



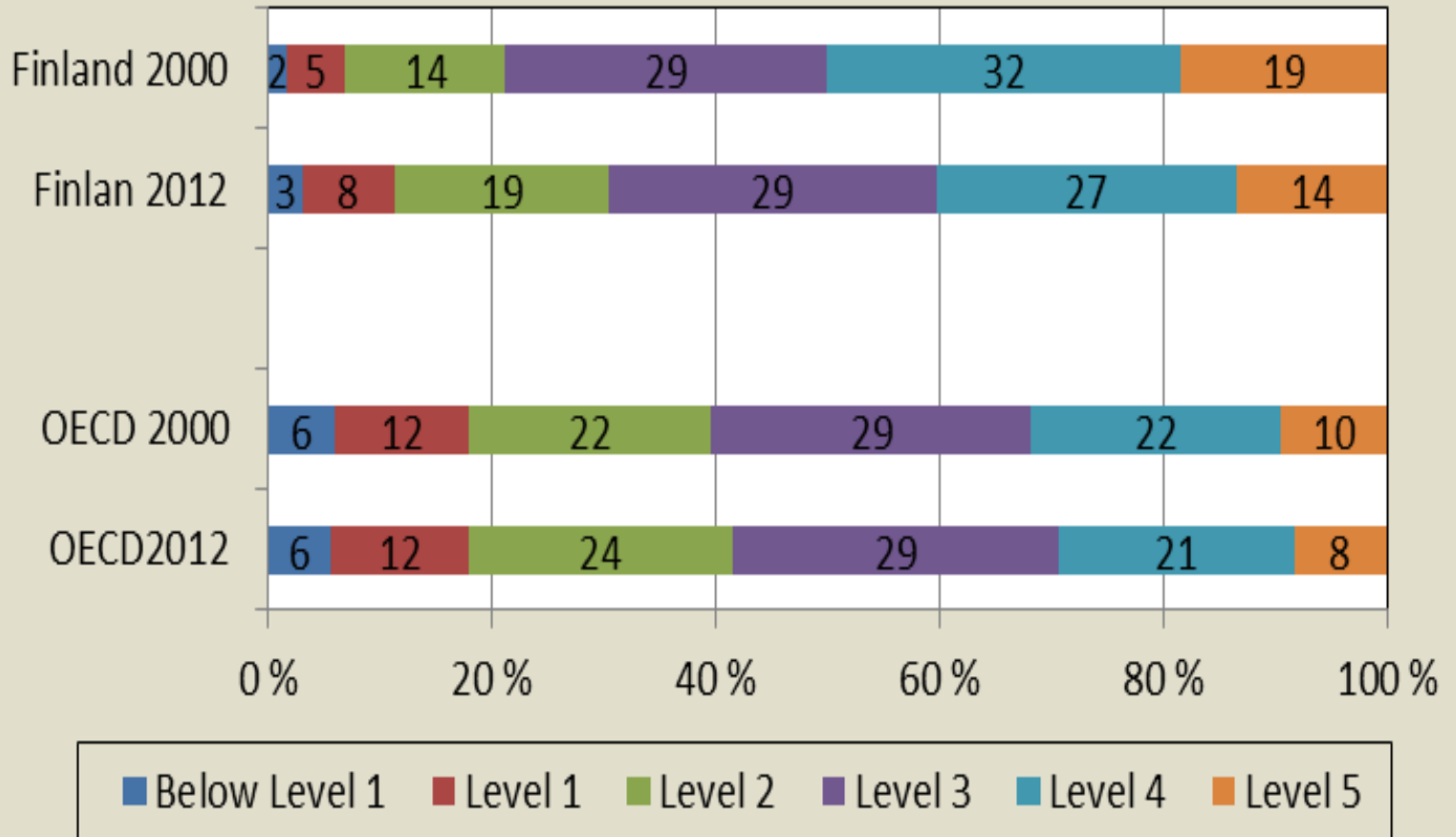
Distribution of reading scale points,  
Finland, PISA 2009



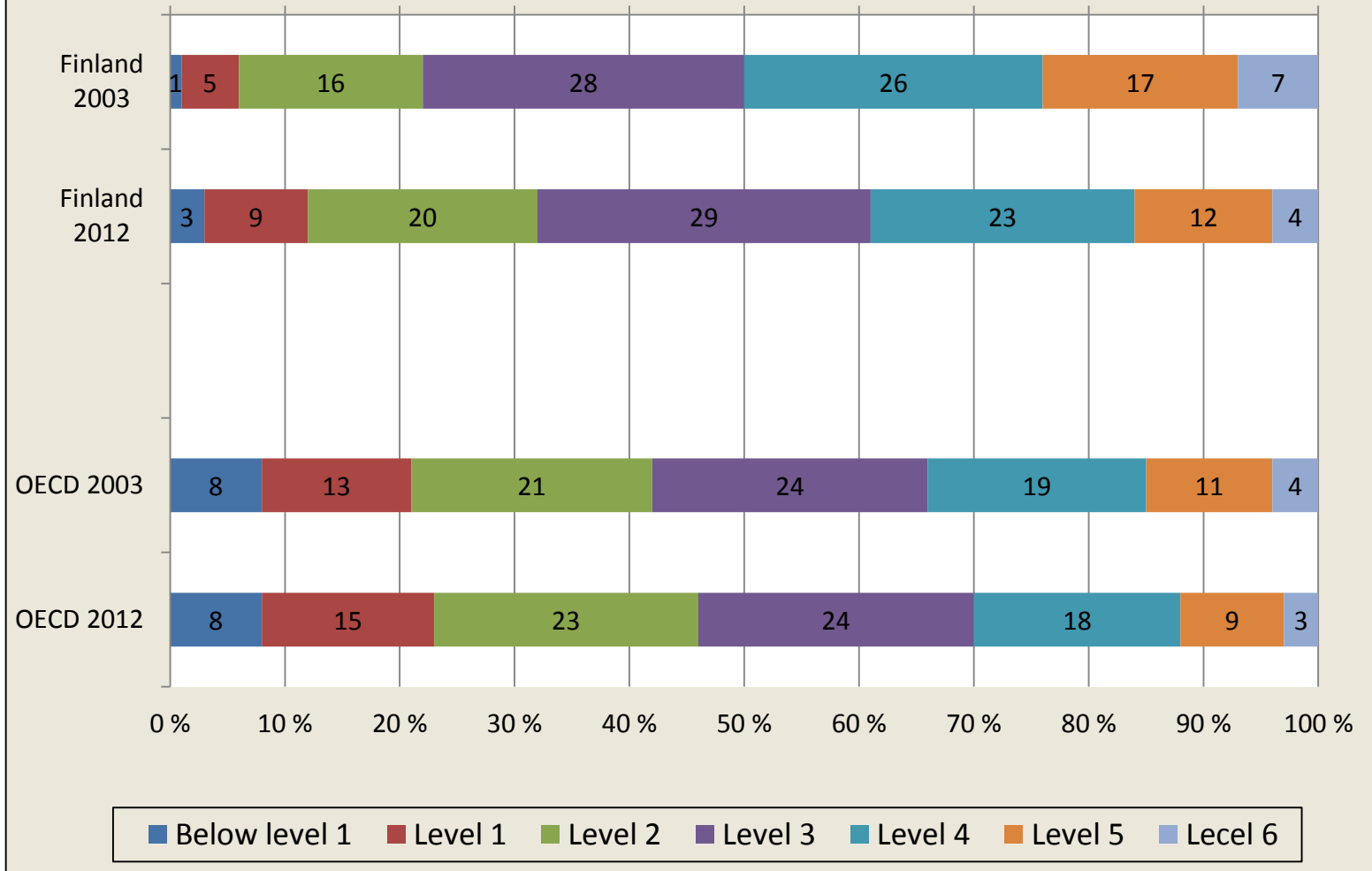
**DIFERENCES BETWEEN PERCENTILES**



## STUDENTS AT EACH LEVEL OF READING PROFICIENCY (%)



STUDENTS AT EACH LEVEL OF MATHEMATICS PROFICIENCY (%)



# SCHOOL AND TECHNOLOGY

- School, work and world as learning environments
- Learning to learn, critical thinking, ethics
- Growing gap between school and youth culture?
- Meaningfulness of school-type learning
- Teacher's role changes – professional skills
- School as a community
- Educational leadership
- Openness, transparency, interaction



# LIFELONG AND LIFEWIDE LEARNING

- Recognizing learning needs
- Recognizing learning opportunities
- Passion for learning, meaningfulness
- Individualized and contextual learning; personal learning career
- Guidance and counselling; support, preventing risks
- Interactive learning; active learner, supportive teacher
- People with low basic skills and low motivation?



# The dialectics of formalisation and informalisation

**Informalisation**

**making formal learning more nonformal / informal**  
**- discussion, narrative**

Nonformal learning

- organized learning outside the formal learning system: workplace, politics, "third sector"

Informal learning

- Non-intentional learning in everyday life

(EC Communication on Lifelong Learning 2001, 32-33; Tuschling & Engermann 2006.)

Formal learning

- institutions (school, day care, university, teachers' in-service education.)

**formalisation**

**recognition of prior learning**  
**- proofs, portfolios, web logs etc**

