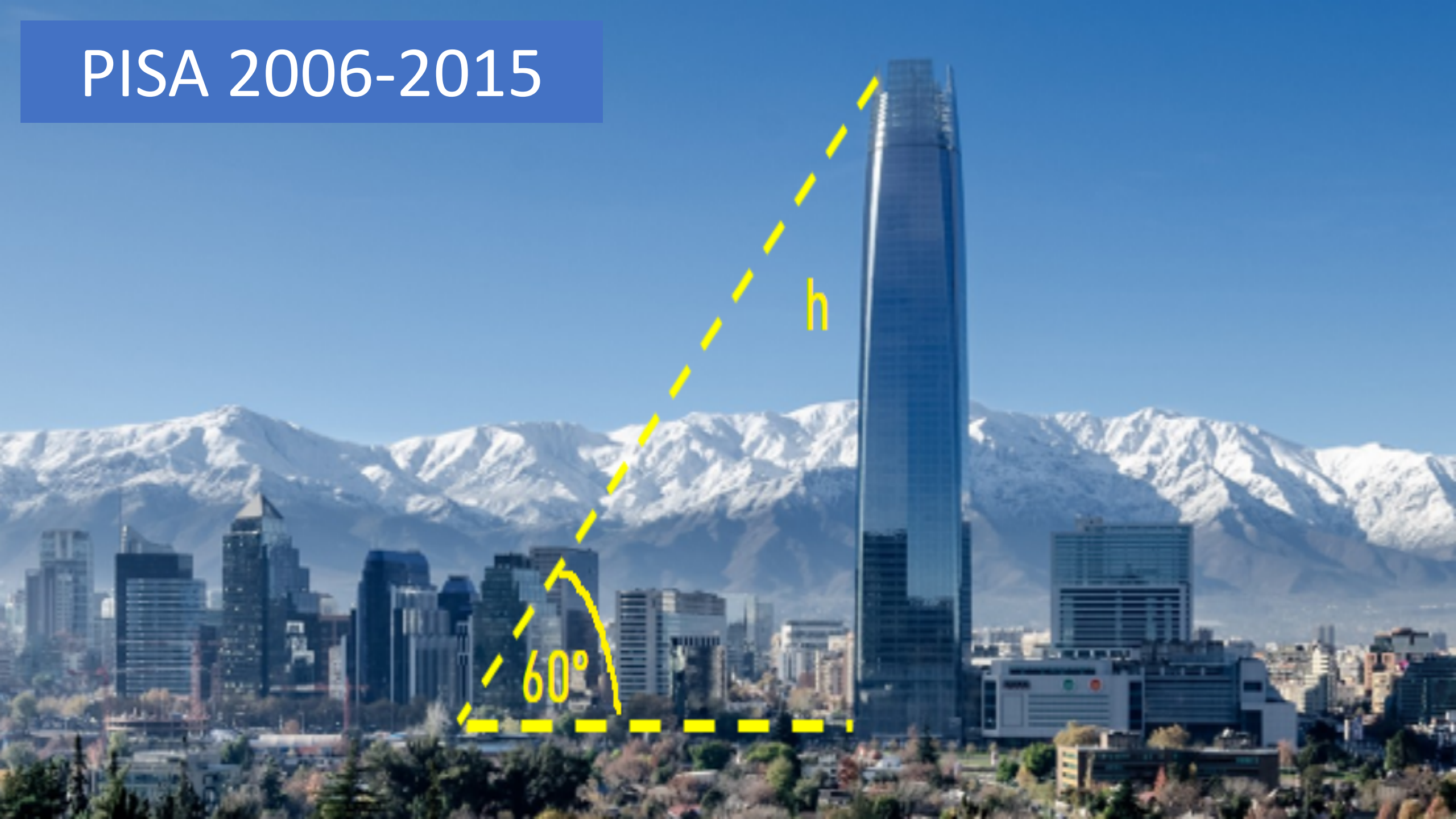
Ministerio de Educación
Gobierno de Chile

APEC
CHILE 2019

UCE
UNIDAD DE CURRÍCULUM Y EVALUACIÓN

Computational Thinking Curriculum for a Digital Economy

PISA 2006-2015



Chile is the country with the highest results in the region in the last two assessments and it remains stable

8 Years of Curriculum Reform in Chile…

Bases Curriculares Elementary School 2012

Bases Curriculares Elementary School 2013

Bases Curriculares Tecnical education 2013 / 2016

Bases Curriculares Middel School (7° básico a 2° medio) 2016

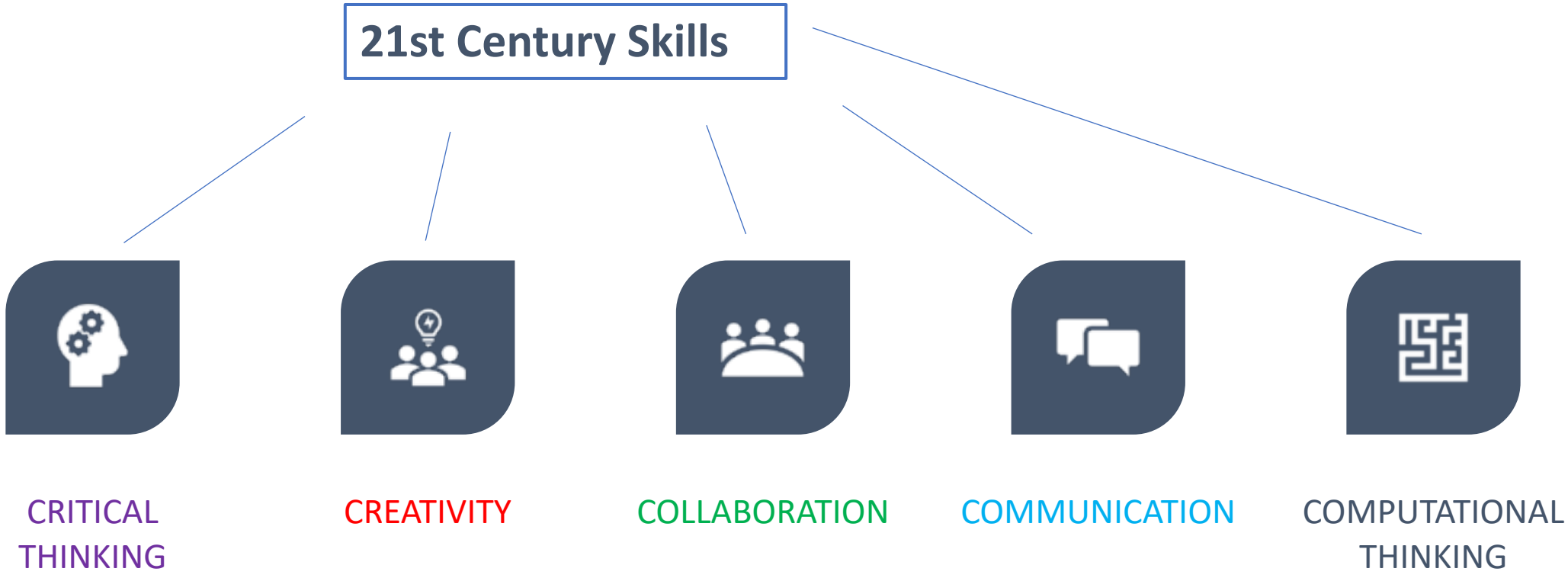
Bases Curriculares Early Childhood education 2019

Bases Curriculares High School (3° y 4° medio,) 2020

2012

2020

21st Century Skills: A Framework for the New Curriculum



Evidence-Based Curriculum Design

- Regulations: General Education Act, Citizenship Education Act
- Social demands: conversations with different educational agents.
- Public Consultation with educators, headmasters, students and experts
- Up to date research on curriculum theory, policy and practices
- On field research on teaching and learning in the classroom
- International comparative analysis

Nations that have incorporated computational thinking skills at the curricular level in all or a large part of their public education system.

2014	2015	2016	2017
England	**Italy**	**Finland**	**Poland**
Israel (CS)	**Australia**	**Canada**	**Dinamarca**
Austria (CS)	Suiza (Region)	**France**	**Malta**
Rep Eslovaca (CS)	Canada (Region)	**Israel**	**Rumania**
Holanda (Optativo)		United States ((CS) (Region)	**New Zeland**
Ireland (Piloto)		Croacia (Piloto)	Sweden (Optativo)
Estonia (Piloto)		Lituania (CS (Optativo))	Rep Checa(plan)
Alemania (Region) (Optativo)		Noruega (Piloto)	Hungría (plan)
		Greece (plan)	South Korea (plan)
			Japan (plan)

CS : Complementery course
Optativo : Optative courses
Region: In one or more region of the country
Piloto: Pilot program y/o training or reform soon
Plan: gradual application

Base on Report of the European Commission for "Learning and skills of the Digital Age" (Bocconi, 2016)

Our Work in Progress…

STEM

- A pilot programme to test how STEM works within the classroom
- Project Based Learning in Maths and Science 11-12 levels new curriculum

Computational Thinking

- The new Maths curriculum for 11 and 12 levels includes an optional Computational Thinking course (6 hours)
- A new cross-curricular Maths and Science programme for all levels

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CHILE LO
EDUCAMOS
TODOS

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