4.4.2: Learning Assesments - Computational Thinking – 21st Century skills
Uruguay

Plan Ceibal – Cecilia Hughes

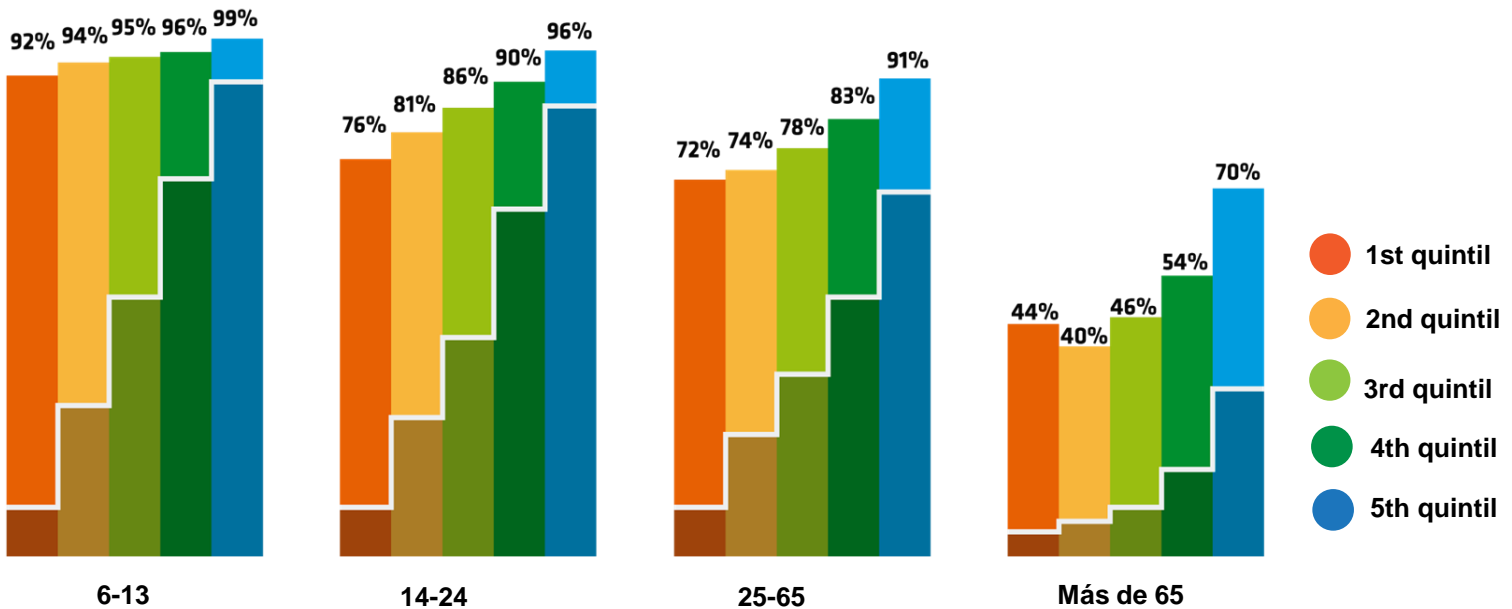**GAML5**
October 2018
Hamburg, Germany

Where is Uruguay?

3 million population – 4 times heads of cattle (4 cows person) and passion for soccer

$1.2 billion IT industry by 2016 and in constant expansion, and more than 700 tech companies exporting software across 52 different markets, leading software exporter per capita in South America, and the third in the world

2016: **ICT Device (other than phone) access by age group, according to income quintiles.**
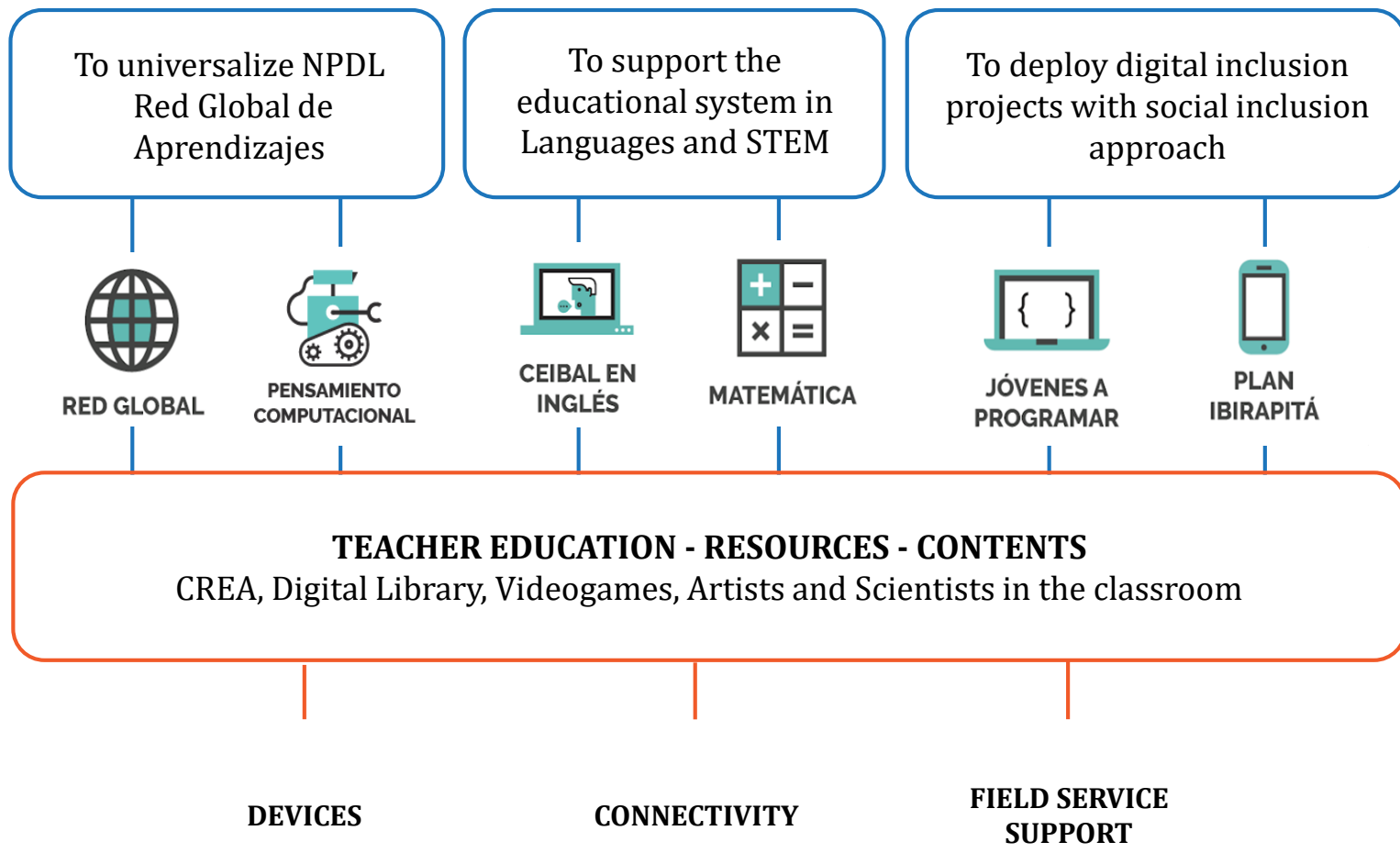Percentage of people across the country.

Legend:
- 1st quintil
- 2nd quintil
- 3rd quintil
- 4th quintil
- 5th quintil

Age groups: 6-13, 14-24, 25-65, Más de 65

6-13: 92%, 94%, 95%, 96%, 99%
14-24: 76%, 81%, 86%, 90%, 96%
25-65: 72%, 74%, 78%, 83%, 91%
Más de 65: 44%, 40%, 46%, 54%, 70%

Uruguay
Miembro del D7, grupo de los países más digitalizados del planeta.

D7 - Digital 7
- ✓ Estonia
- ✓ England
- ✓ Israel
- ✓ South Korea
- ✓ New Zeland
- ✓ Canada
- ✓ Uruguay

Plan Ceibal was created in 2007 as a plan for inclusion and equal opportunities with the aim of supporting Uruguayan educational policies with technology.

To universalize NPDL Red Global de Aprendizajes

To support the educational system in Languages and STEM

To deploy digital inclusion projects with social inclusion approach

RED GLOBAL

PENSAMIENTO COMPUTACIONAL

CEIBAL EN INGLÉS

MATEMÁTICA

JÓVENES A PROGRAMAR

PLAN IBIRAPITÁ

TEACHER EDUCATION - RESOURCES - CONTENTS
CREA, Digital Library, Videogames, Artists and Scientists in the classroom

DEVICES

CONNECTIVITY

FIELD SERVICE SUPPORT

New pedagogies for deep learning

RED GLOBAL

Collaboration, Creativity, Critical Thinking, Citizenship, Character and Communication

Teacher to students
looks how he or she moves forward after activities in the deep learning activities
This activities are evaluated by teachers in the country and across de net

Adaptative Test

CEIBAL EN INGLÉS

Uses the European frame
Voluntary
60% coverage
3rd to 8th grade with the same test

Impact in working skills

JÓVENES A PROGRAMAR

We work with assessment for the selection participants
We are measuring social and emotional skills before and after the program

Uruguay is participating in the 2018 edition

IEA ICILS

Grade 8
CIL achievement

Evaluating impact of using math's platforms in the math's results

MATEMÁTICA

We used TERCE and a panel done after 3 years

Program for elderly access to ICT device and internet connection

PLAN IBIRAPITÁ

60 year old retired
Welbeen studies to older people live happier when they can use de ICT devices

5

PENSAMIENTO COMPUTACIONAL

How are we assessing and evaluating education in the age of digital technology?

When we think about mathematics and language, we think is more simple to evaluate
We have more tradition in their teaching and in their evaluation, but when we want to evaluate a new cognitive ability, we have a problem. It is difficult because its definition is still under construction.

A possible assessment design

We want to show you our evaluation strategy for this project, we are going to implement a series of instruments

    a)   Development of a monitoring instrument
    b)   Classrooms observations
    c)   Development of a Computational Thinking learning test
    d)   Reservoir of formative evaluation tools for teachers

Thank you!

@CeciliaHughes25

chughes@ceibal.edu.uy