LEARNING @ SCALE
CREATIVE LEARNING
@ SCALE
Creative Learning @ Scale
Karen Brennan
Harvard Graduate School of Education
55.6 million
55.6 million PreK–12 students in the U.S.
Why are the learning experiences that happen here so often not particularly creative?
“If we want schools to offer more powerful learning opportunities for students, we must offer more powerful learning opportunities for teachers.”

— Borko, Jacobs, & Koellner, 2010
What is Scratch?
What is Scratch Ed?
GET STARTED
Can you explain how this works?

Yes! Let's explore it together!
Learners need opportunities to:

- Can you explain how this works?
- Yes! Let's explore it together!
Learners need opportunities to:

- Imagine possibilities for learning
- Interact with other learners
- Engage in reflective practice
Computational Participation: Towards a National Education Policy in Uruguay

Cristóbal Cobo
@cristobalcobo
2007 - 2017

- **715,000** users with laptops, tablets and Internet
- **52,000** laptops, tablets and Internet in libraries in schools
- **767,000** beneficiaries

Building Technology Infrastructure for Learning ...
Digital Platforms

- LMS
- Digital library
- On-line Evaluation
- Educational Resources
- Robotics & digital labs
- Math Adaptive Platform
- Programming
- Remote Teaching English
Digital Inclusion Public Policy

Provide Infrastructure / Tools – Co develop Teacher Training Programme –
Ecosystem of Innovation –
Vision

Computational thinking: Learning to use computational concepts to solve problems

Technological understanding (not enough) + know the context in which tools operate + understand the context that these interactions generate
There's a false dichotomy between learning to code and learning to be...
Pedagogical Approaches

Constructionism

Tools for Thinking

Enquire/Problem/Project BL

beyond STEAM

Integrated within disciplines + Experimentation

teacher as learners
it's not about leaving kids alone, but supporting their own intellectual structures
CREATIVE LEARNING

@ SCALE

Mitch Resnick (moderator)
Karen Brennan, Christobal Cobo, Philipp Schmidt
projects

passion

play

peers
CREATIVE LEARNING @ SCALE

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