



# The Future of Learning

Sugata Mitra, Newcastle University, 2017

# The Hole in the Wall

1999-2005







# The Hole in the Wall

1999-2005

**Children, given access to the Internet in groups,  
can learn anything by themselves.**

# SOLE

## Self Organised Learning Environments



England 2007-2009



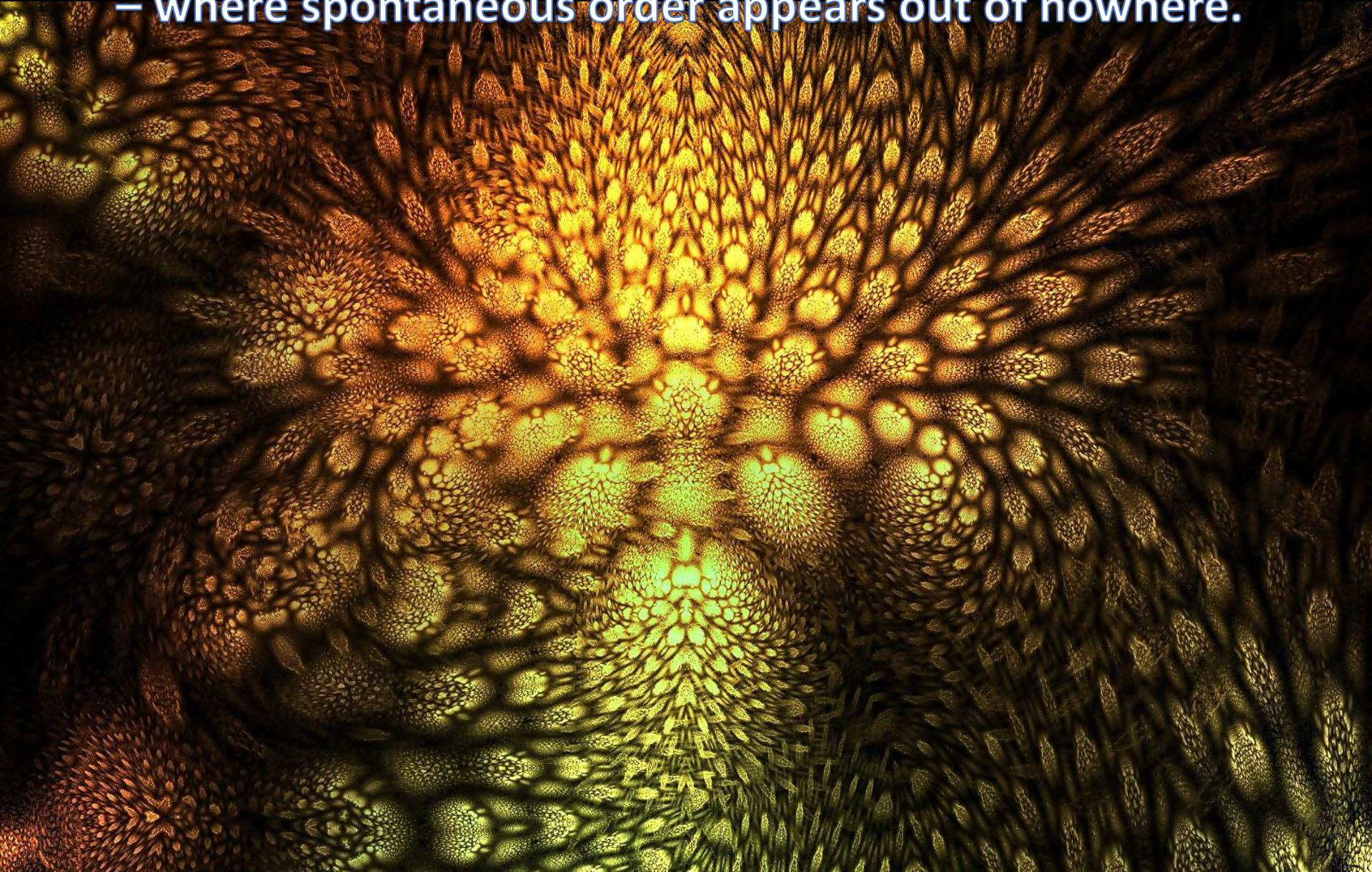






**it became clear that  
children in groups have an understanding  
that is greater than that of each individual.  
It was this collective 'hive' mind that was  
working like an efficient teacher.**

what we were witnessing at the 'holes in the walls'  
was an example of self organising systems  
– where spontaneous order appears out of nowhere.



**A SOLE consists of a mildly chaotic situation caused by a few Internet connections, about a quarter of the number of children present.**

**And a big, interesting question....**

# Viral! SOLEs around the world 2016





**Children begin to answer questions  
far ahead of their time.**

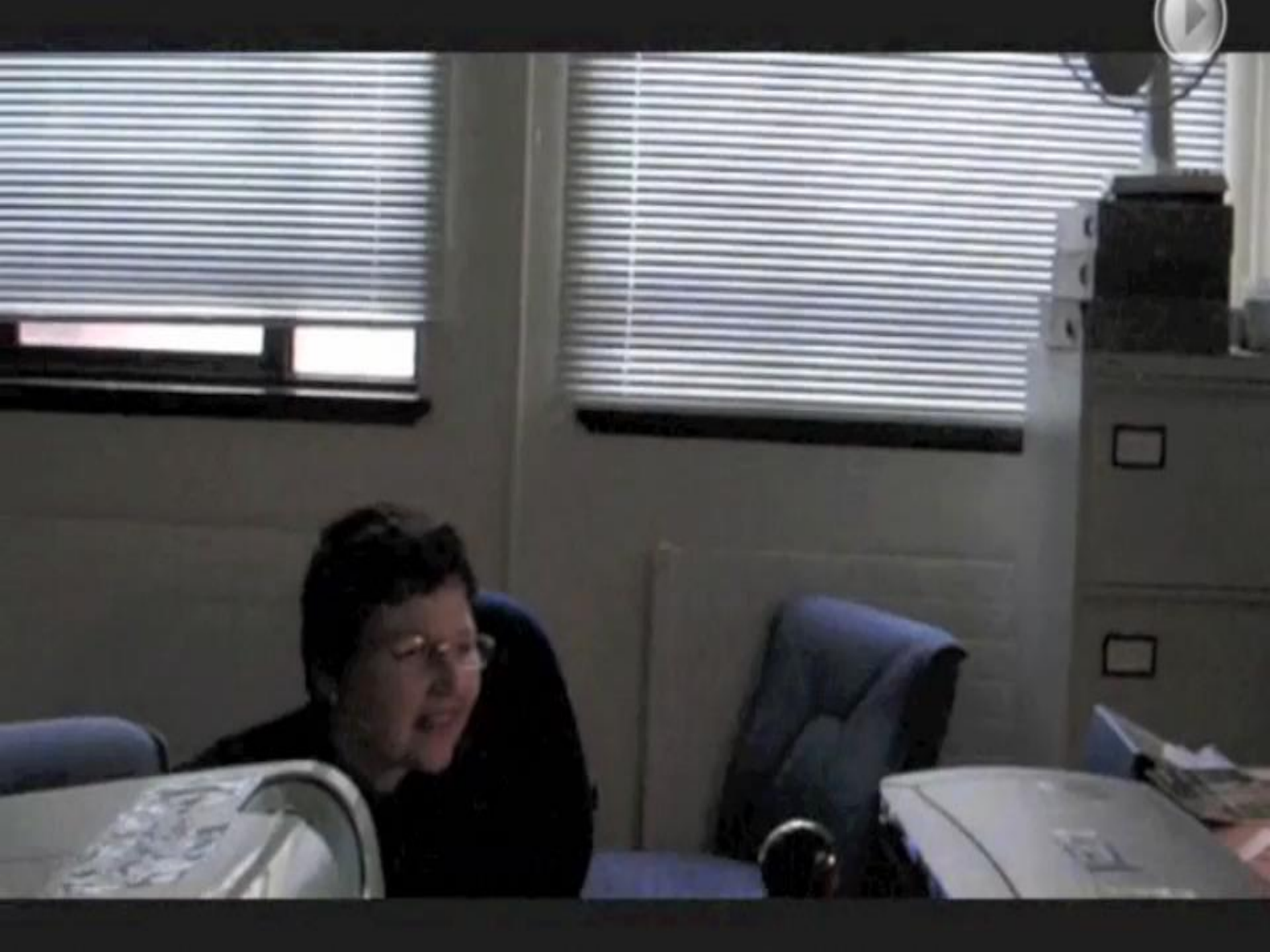
**It helps if you admire them....**



# The Granny Cloud

2009 onwards





**School**  
in the  **Cloud**

# Chandrakona, Bengal, India





# Harlem, New York, USA



# Newton Aycliffe, County Durham, England



# Dasghara, Bengal, India





# Paradise School, Goa, India



Schools in the Cloud improve

Reading comprehension

Communication skills

Internet searching skills

and

Self Confidence

# The challenge of assessment





**In order to cater to the needs of  
an obsolete examination system,**

**teachers, good or bad, need to use teaching methods  
from the 19th century**

**consisting of rote learning, drill and practice and  
negative reinforcement.**





**Use of the Internet should be allowed  
during examinations**



# **Comprehension, Communication and Computation**

**Need to be the key concepts that include  
reading, writing and arithmetic**

**Schools should enable people to live  
happy, healthy and productive lives**

	<b>Comprehen sion</b>	<b>Communica tion</b>	<b>Computatio n</b>
Happy			
Healthy			
Productive			

<b>Skills</b>

## We need

**A curriculum of questions, not facts**

**A pedagogy that encourages  
collaboration and use of the Internet**

**An assessment system that looks for productivity  
over process and method**



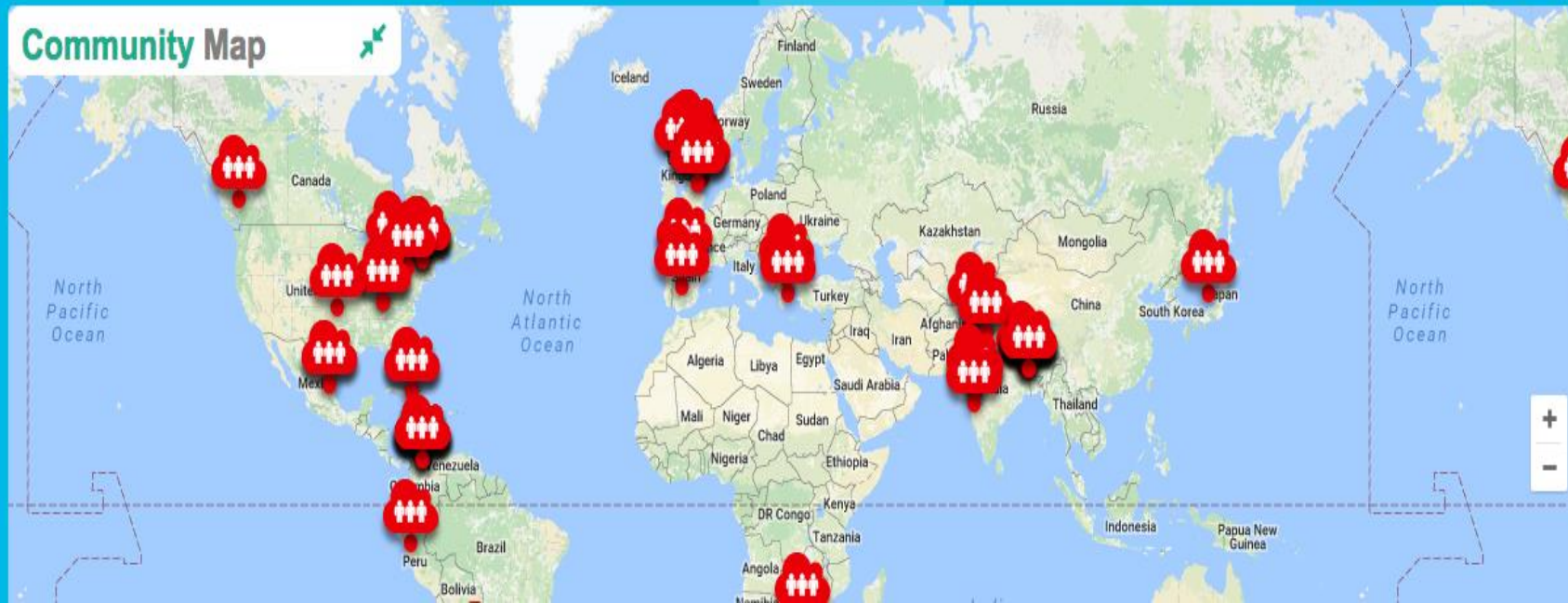
## Welcome

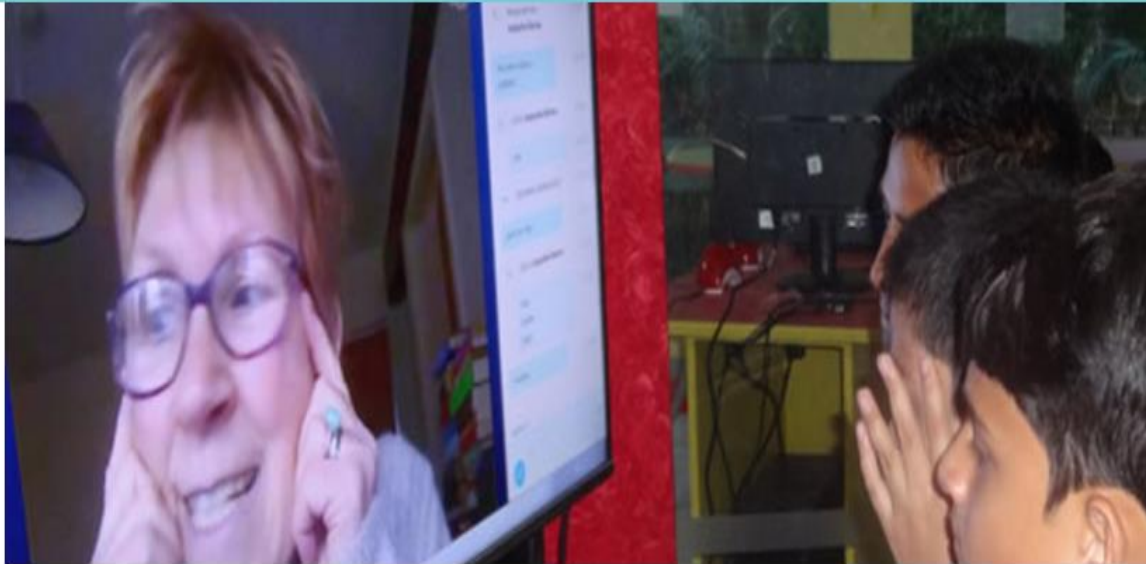
We're turning the world of education on its head through self-organised learning environments (SOLEs). Why not join our global experiment?

Search by keyword



### Community Map





## WELCOME TO THE GRANNY CLOUD

---

The Granny Cloud is an independent team of volunteers that reaches out to children with limited educational resources around the globe, in a variety of settings, and provides them with the opportunity to experience worlds far removed from their own. The idea was initiated by Sugata Mitra and is connected to the SOLE approach to learning (self organised learning environment).

Members of the Granny Cloud interact with groups of children, engaging them in conversation and in activities of various kinds, such as

A complex, multi-colored network graph with a central cluster and many peripheral nodes, resembling a starburst or a dense web of connections. The nodes are represented by small, bright, multi-pointed starburst shapes, and the edges are thin, colored lines connecting them. The colors include red, green, blue, yellow, and cyan. The overall structure is dense and intricate, with a central hub-and-spoke pattern and many smaller clusters branching out.

# The Future of Learning