

EDUCATIONAL CHALLENGES IN SCIENCE, TECHNOLOGY AND ICT

# DIGITAL WISDOM

NEW MILLENNIUM LEARNERS  
INNOVATIVE LEARNING ENVIRONMENTS

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To get the slides:

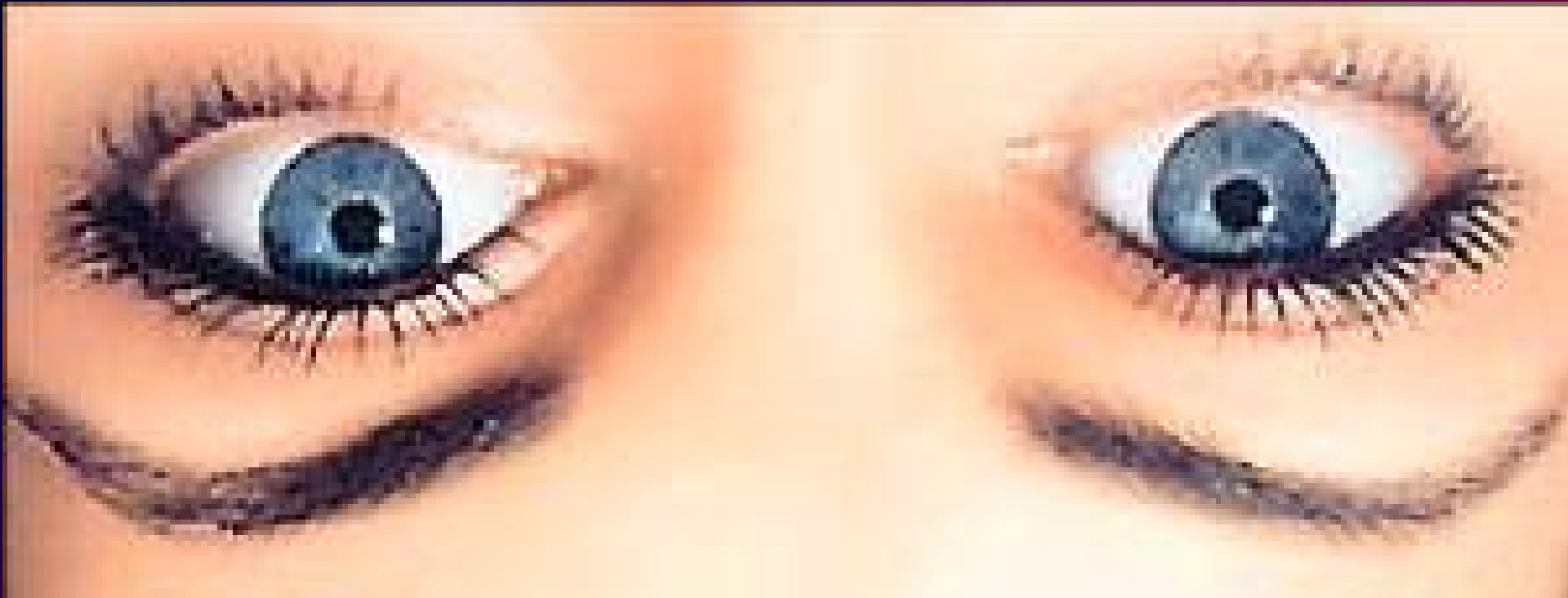
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**NEW**



**PERSPECTIVES**

# PART II

# TEACHER TRAINING

## PROFESSIONAL DEVELOPMENT

Should NOT be  
About technology

It should be about  
**PARTNERING**

# PARTNERING

Is a different way  
to split the work...



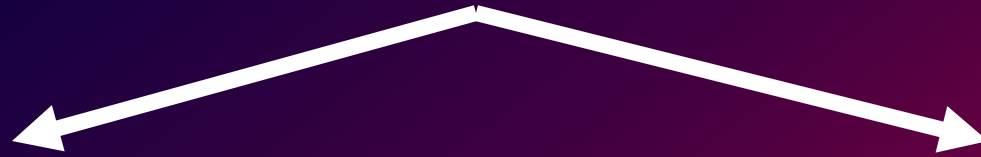
# Old way: TELLING



Teachers  
talk

Student listen  
and take notes

# New Way: PARTNERING



Students do  
what they do well

- Use technology
- Find content
- Create

Teachers do  
what they do well

- Ask questions
- Add quality & rigor
- Put into context

# 21<sup>st</sup> Century Pedagogy = a move from:

Lecturer  
Controller  
"Ruler"

to

Coach  
Guide  
Partner



# PARTNERING

is the best 21<sup>st</sup> century  
pedagogy

# PARTNERING

is the way that works  
best with technology

# TOP-DOWN vs BOTTOM-UP

Understanding Our  
Students Passions



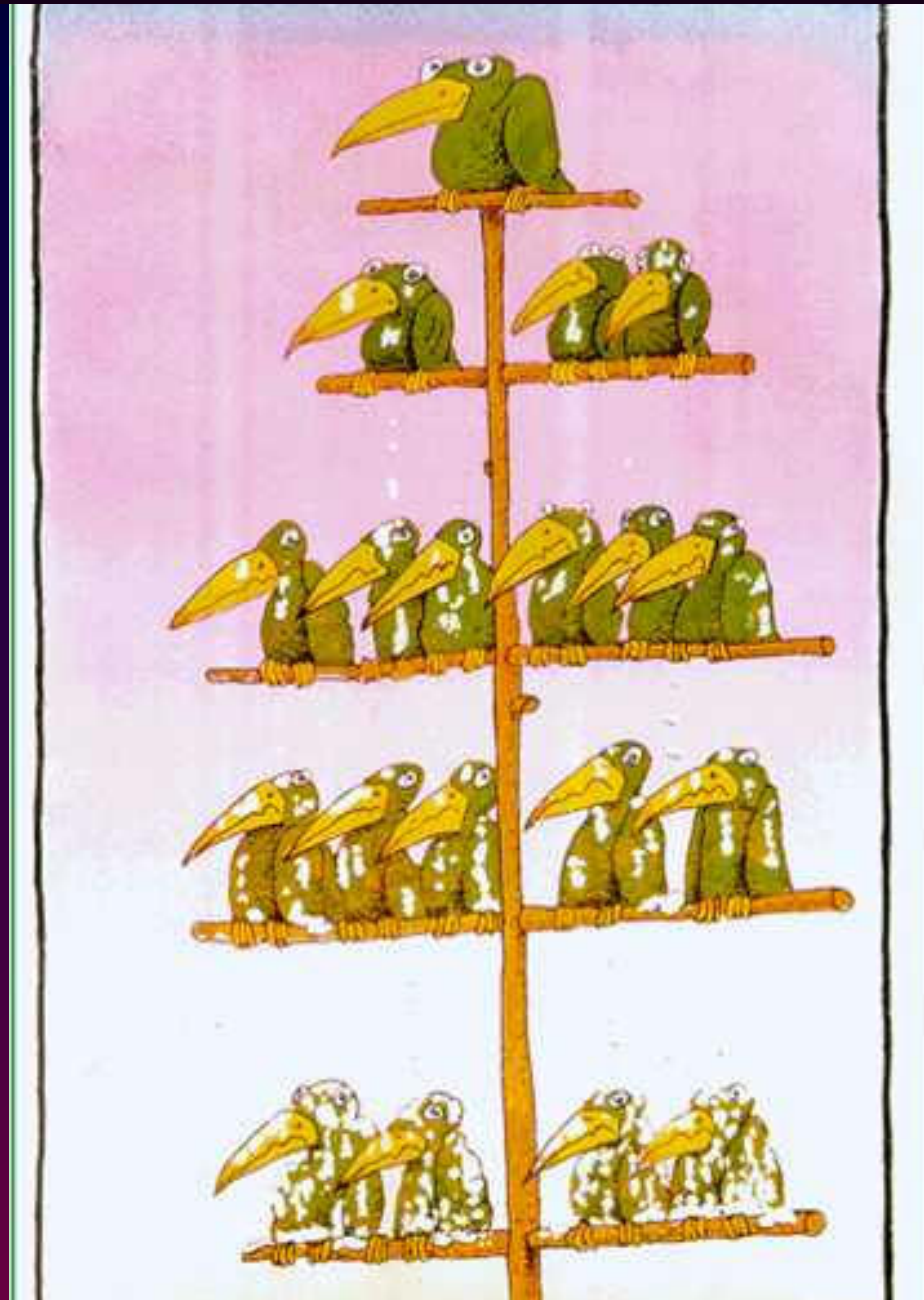
Top  
Down

versus



Bottom  
Up

# Top-Down has issues:





Trying to engage all kids  
with stuff we make or do  
for them  
IS IMPOSSIBLE

What we need is not to  
“engage our kids”  
but to

Engage **WITH** our kids

Talk to them

Listen to them



When we do,  
we will learn that  
our kids are  
really full of



The Environment    Animals    Motorcycles  
Sports    People    Space    Dance  
Coins    The Internet    Music    Medicine

*WE NEED TO KNOW THE*

**PASSION**

*OF EVERY STUDENT*

History    Singing    Nature    Writing  
Programming    Business

If tomorrow  
every teacher  
asked  
every student

“What are  
you  
passionate  
about?”

And wrote it down and  
acted on it



A Delta rocket is shown in the process of launching. The rocket is white with a blue band around the middle section. It is mounted on a red mobile launcher platform (MLP) which is being moved by a crawler-transporter. The MLP has the word "DELTA" written vertically on it. The rocket is surrounded by a large, bright orange and yellow plume of fire and white smoke. The background is a clear blue sky.

Our education would  
take giant leaps  
overnight!

A satellite view of Earth from space, showing the Americas and surrounding oceans. The text is overlaid on the image.

**"THE DIGITAL  
CLASSROOM"**  
Feels like the world!

The biggest thing we  
couldn't do before is

**Connect!**

We used to prepare  
kids to  
Connect later

Now we need to  
Help them  
Connect today!

It's  
THE NETWORK!

To do:

BE SURE YOUR PEOPLE  
CONNECT THE KIDS  
TO THE WORLD

I want to describe



What the real vision  
of future education is

Why it is so critical  
we adopt it

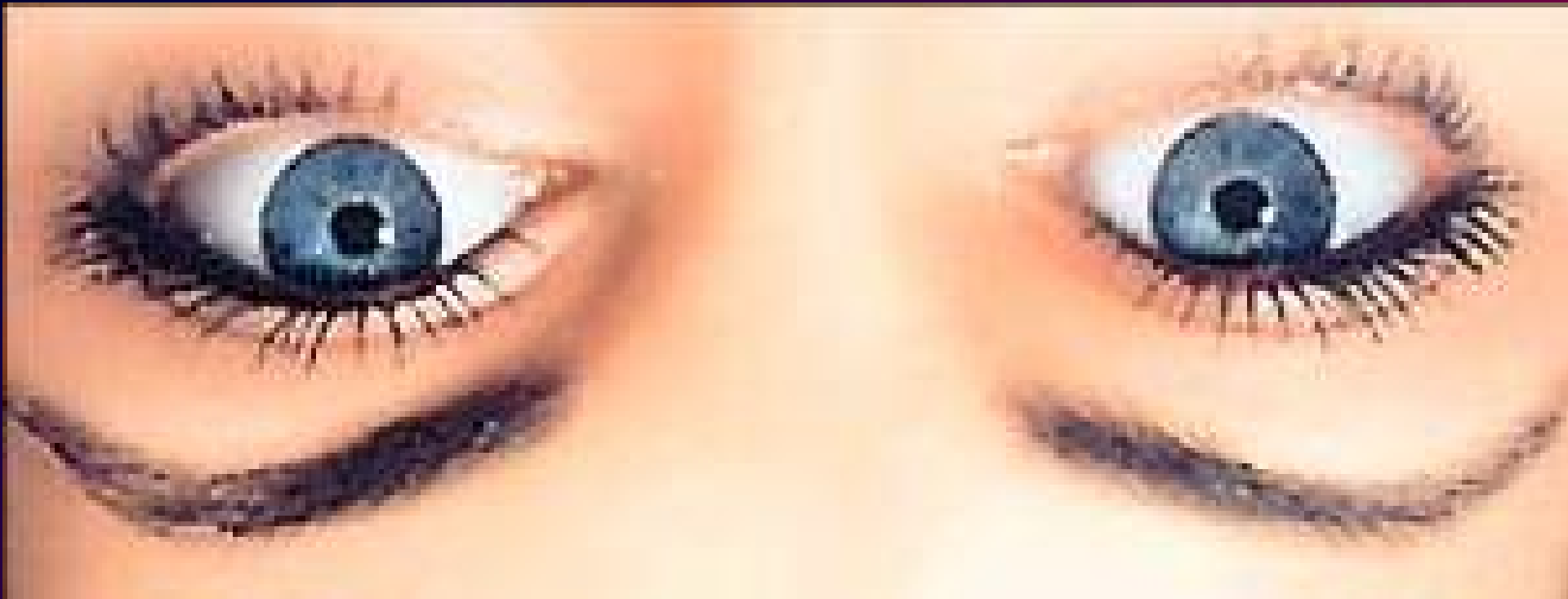
And how we  
can make it happen

# THE VISION:

All our citizens,  
connected  
as nodes on a network

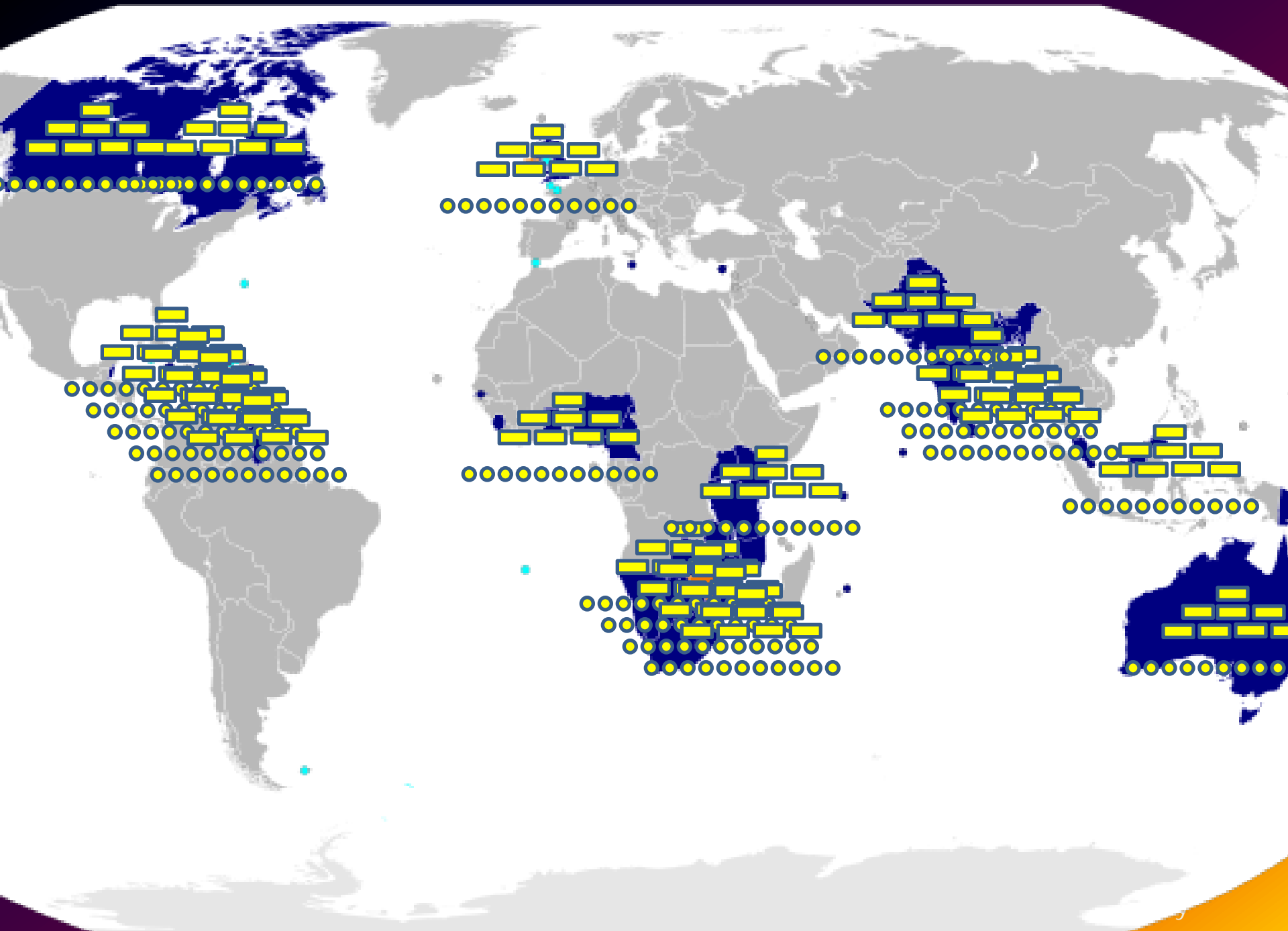
And that that network is  
the primary source for  
education for all

# The required change in perspective



is from

Education as Hierarchy  
to  
Education as Network

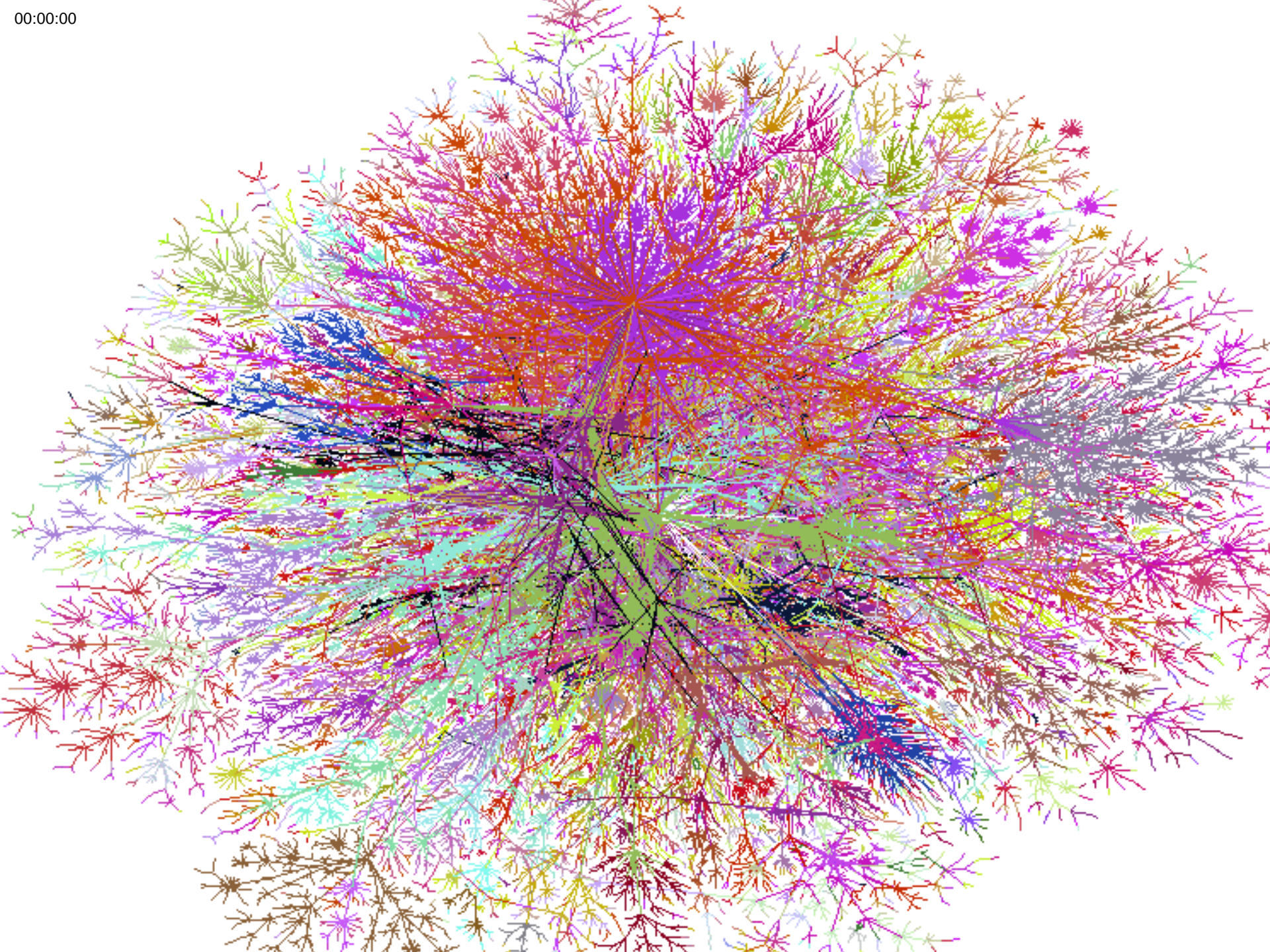


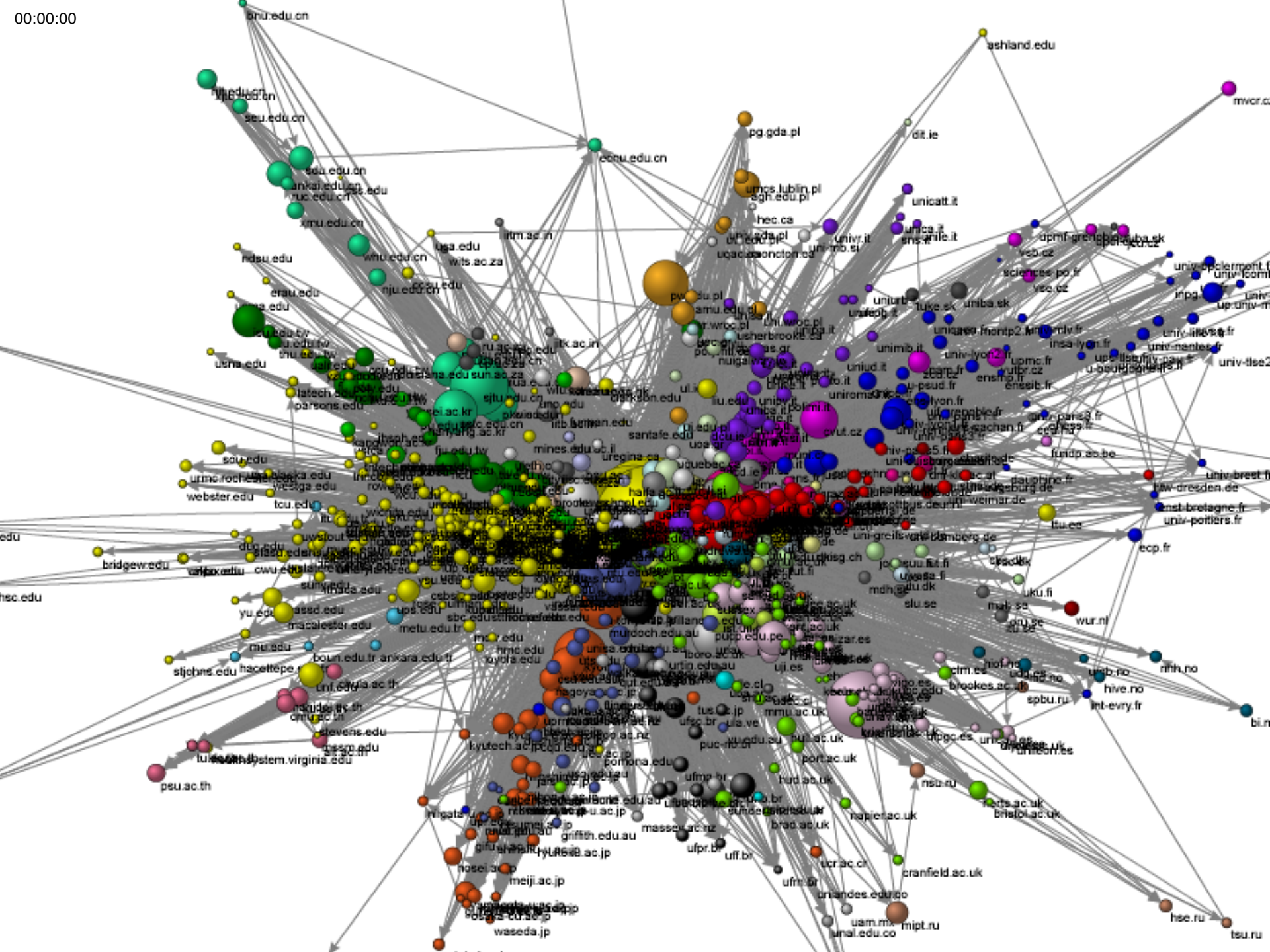






00:00:00





00:00:00

This new perspective can be scary



But it is critical  
that we adopt it!

To educate everyone

And keep that education  
up-to-date



We need to make  
all of our kids

and  
all of our citizens

# NODES ON THE NETWORK

“Education” tomorrow  
is totally different from  
the “education” of today

It has less to do with  
courses, curriculum,  
degrees  
and exams

And far more to do  
with everyone's  
becoming  
linked...

To resources,  
and to each other

So that they can  
teach and learn  
whatever they need



It turns out...

all citizens  
who become  
connected in this way  
become empowered  
to

Learn better  
Live better  
Work better  
Earn better  
Participate better

Since  
through the network  
they can

Learn what they need to

Monitor their own health  
and environment

Find (and do) work

Save, earn and invest money

Participate in government

Once we show them  
how!

So making every citizen  
a network node

Must become a key  
Development Goal!

How?



How do we make all  
our citizens  
Living Network Nodes?

# Every citizen needs:

1. A network to connect to
2. A device to connect with
3. Ability to use the connection

Expensive?  
Not necessarily

But even if we  
can afford it...

we should not  
just rush out  
and buy stuff

Because today things change  
so quickly...

... that what may have  
been great yesterday  
or today...





# Grows old really quickly!



If we want to

# Leapfrog ahead

Look great  
uniforms  
from £5  
shirts - £2  
trousers - £3

up to  
1/2 price  
mobile phones

Look great  
uniforms  
from £5  
shirts - £2  
trousers - £3

A photograph of a baby sitting on a white surface, looking back over their right shoulder with a yearning expression. The baby has light skin and short, light-colored hair. The background is a plain, light color. The text "And not just look back with yearning" is overlaid in blue font on the baby's back.

And not just  
look back with  
yearning

A photograph of four graduates in academic regalia (green and red gowns and black mortarboards) standing in front of a large, ornate building. The graduates are smiling and holding white envelopes. The text "To goals of the past" is overlaid in yellow on the image.

To goals of the past

We need to find a way

to move forward

That is  
doable, flexible,  
and affordable!



I have a  
suggestion



Why do we not employ  
our most underutilized  
resource in education  
and in the world...

Use our  
young people!

Peer-to-Peer  
is  
the most powerful  
resource we have

It's time to move

from doing education  
to and for our people

to enlisting them as our  
peers and helpers...



Education:

Of the people,  
by the people  
and  
for the people

# "The Citizen Node Network"



Getting every citizen  
plugged in to the network  
and receiving the benefits

for  
Education  
Health  
Work  
and many other things

How do we do it?

We start with those  
who are already  
most “plugged in”

and get them to

# 1. Enlist others

# 2. Help build infrastructure

A photograph of a lamp with a beige shade and a dark base. A semi-transparent purple rectangular box is overlaid on the lamp shade, containing yellow text. The background is a wooden surface.

Let students install  
Wi-Fi everywhere



# 3. Help distribute / maintain devices

# 4. Help teach usage

Mainly  
Self-organized  
Self-evaluated,  
Self-policed,  
Self-controlled  
(with our help)

100%  
Volunteer,  
Peer-to-peer

Run almost entirely  
by young people  
of all ages

we provide help

and  
great recognition

MODEL?



# "El Sistema" (Venezuela)







Thank you -  
For creating  
our kids' future!

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