











The small world paradox

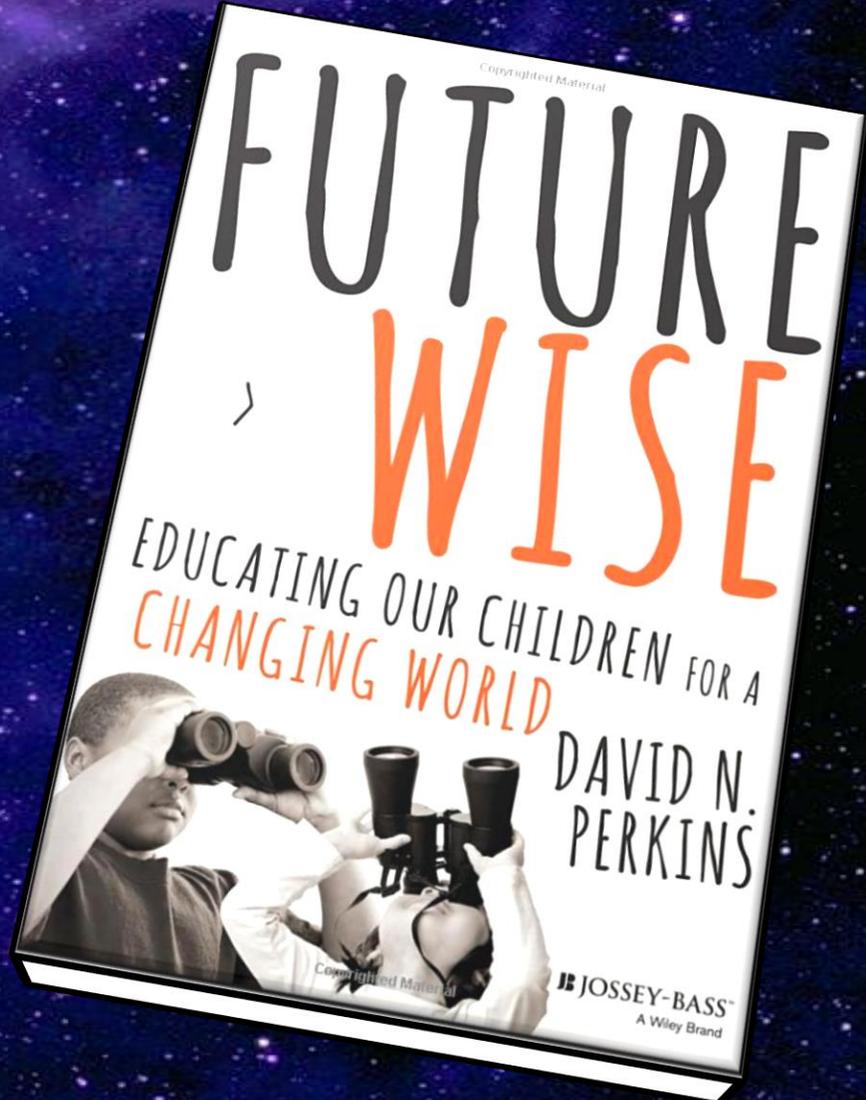
As our collective world gets smaller, the worlds we individually engage become more numerous and complex





Future Wise

Educating our Children for a
Changing Global World

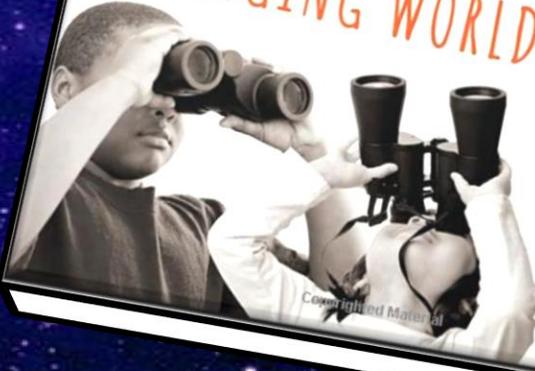


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FUTURE > WISE

EDUCATING OUR CHILDREN FOR A
CHANGING WORLD

DAVID N.
PERKINS



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Learning that
Matters

Stern-Bezeichnungen.

⊙ 1^{te}, * 2^{te}, + 3^{te}, + 4^{te}, + 5^{te} Größe.

von Fernsichtbarkeit. *Antares*.

⊙ Merkur.



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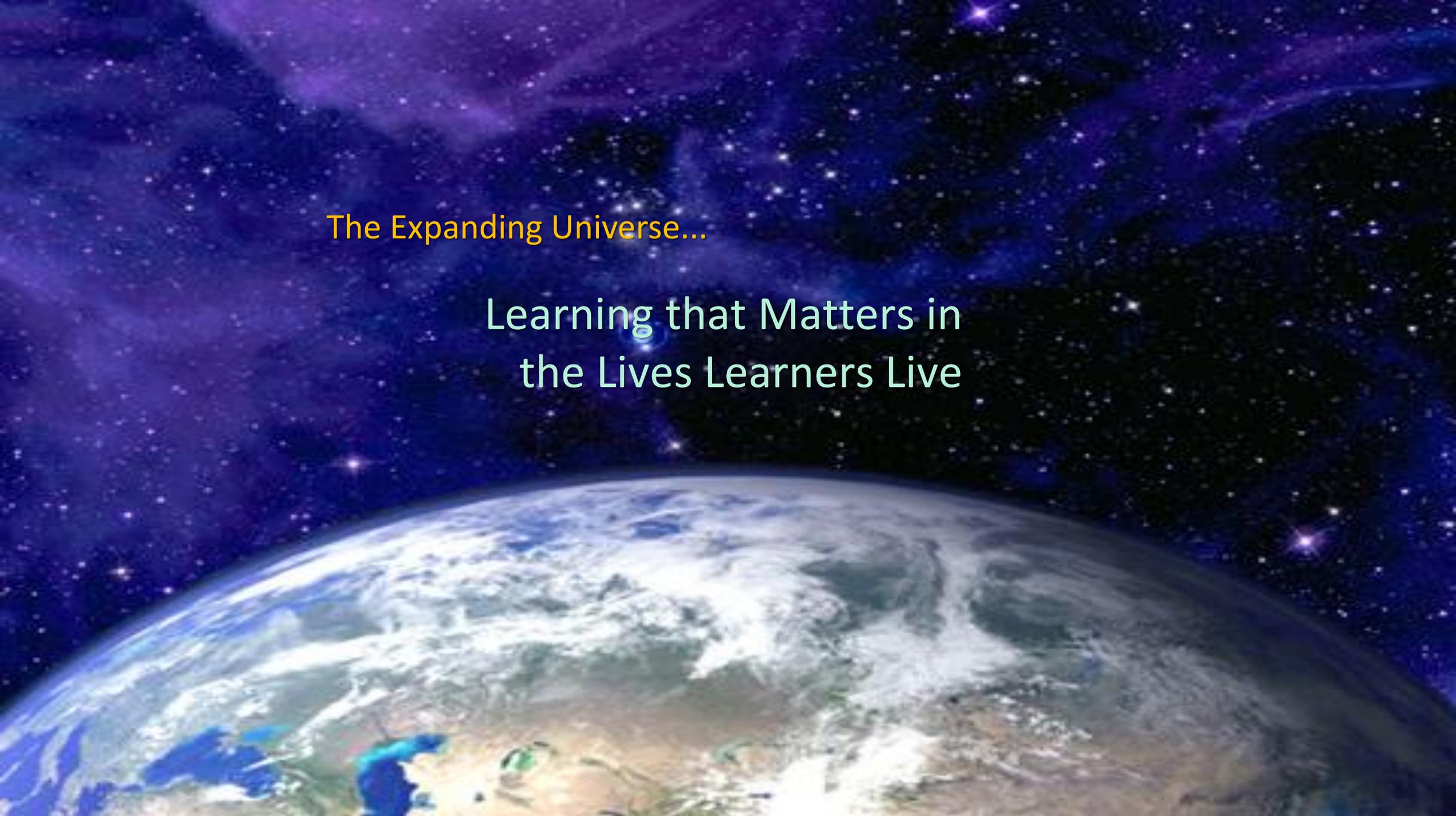
“Mattermathics”

$$+ 1$$

$$\times 2$$

$$\div 3$$

Stern-Bezeichnungen.
⊙ 1^{te}, * 2^{te}, + 3^{te}, x 4^{te}, - 5^{te} Größe.
von Fernsterbedeutung. *Antares*.
⊙ Merkur.

The image features a composite background. The lower portion shows a curved horizon of Earth from space, with visible clouds, blue oceans, and brownish-green landmasses. The upper portion is a deep blue and purple starry field, possibly representing a galaxy or nebula. Text is overlaid on the upper part of the image.

The Expanding Universe...

Learning that Matters in
the Lives Learners Live



The French Revolution

Through the French Revolution, I was able to understand the generalities of world conflict (for instance, how the lack of freedom, poverty, over-taxation, weak economies, the struggle between the Church and state, or social inequity has always been a reason to engage in war).



Narrative



(1) narratives are helpful in thinking about our world.

(2) nuances will inevitably emerge which may challenge our narratives.

(3) if we do decide to believe in a narrative, we had better be ready, willing and able to defend it.

(4) while narratives have an unmistakable allure, it is crucial to NEVER overlook evidence that will support a contrary position just because it is easier to maintain an original one.

The Expanding Universe...

Six 'Beyonds' Signaling New
Visions of Education Today

Beyond Local
Global perspectives,
problems, studies

Beyond Content
21st century skills,
competences, etc.

Beyond Topics
Content as tools for
thinking and action

**Beyond academic
engagement**
Personal choice,
significance,
commitment, and passion

**Beyond the Traditional
Disciplines**
Renewed and extended visions
of the disciplines

**Beyond discrete
disciplines**
Interdisciplinary topics
and problems



Education and Culture DG

Lifelong Learning Programme



KEY COMPETENCES FOR LIFELONG LEARNING

European Reference Framework



1. Communication in the mother tongue
2. Communication in foreign languages
3. Mathematical competence and basic competences in science and technology
4. Digital competence
5. Learning to learn
6. Social and civic competences
7. Sense of initiative and entrepreneurship
8. Cultural awareness and expression

Beyond Local
Global perspectives,
problems, studies

Beyond Content
21st century skills,
competences, etc.

Beyond Topics
Content as tools for
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“Mattermatics”

+ 1

x 2

÷ 3

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von Fernster bis kleinster.
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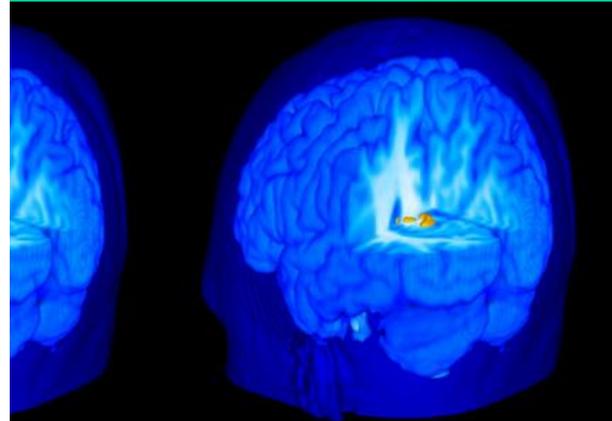
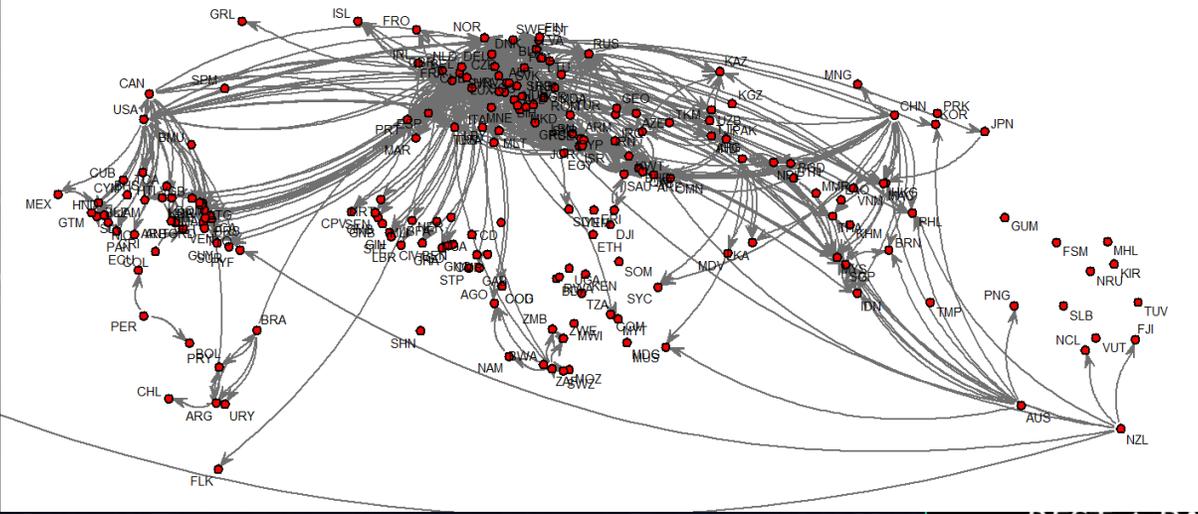


The Expanding Universe...

Big Understandings
and Big Questions
for Learning that Matters



World trade in fresh potatoes, flows over 0.1 m US\$ average 2005-2009

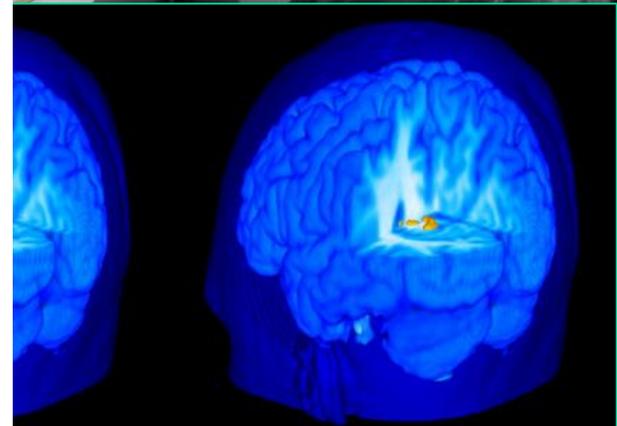
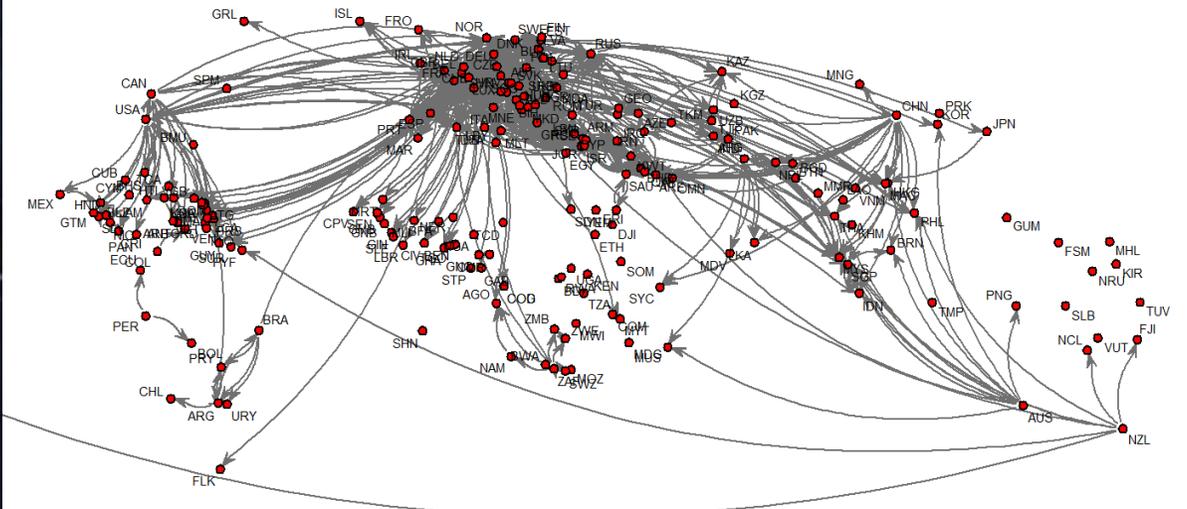


REST + PAIN

MEDITATION + PAIN



World trade in fresh potatoes, flows over 0.1 m US\$ average 2005-2009



REST + PAIN

MEDITATION + PAIN

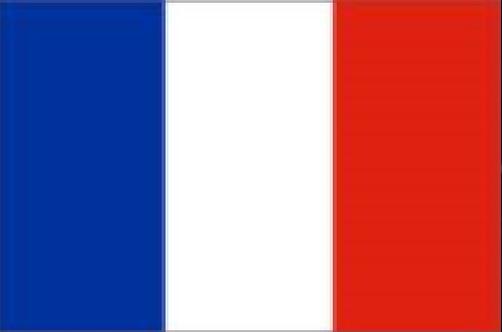


Insight

Action

Ethics

Opportunity

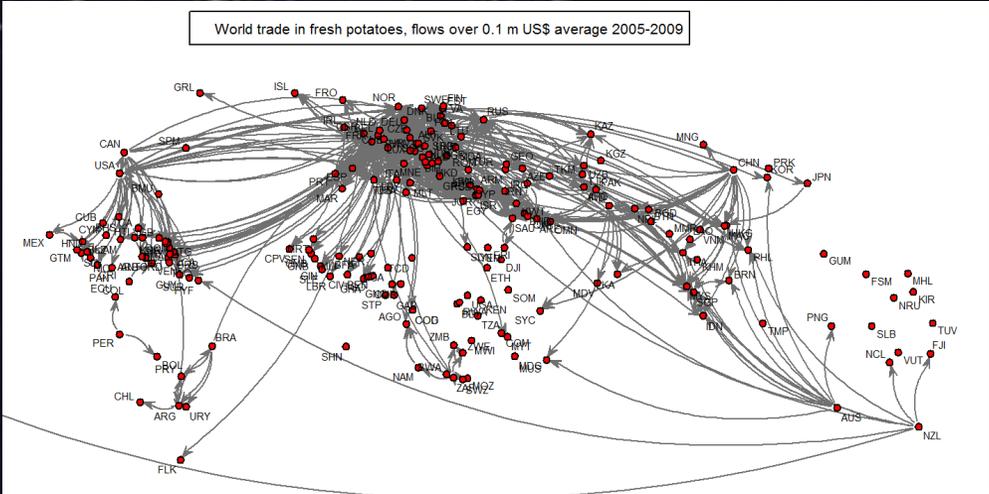


Insight

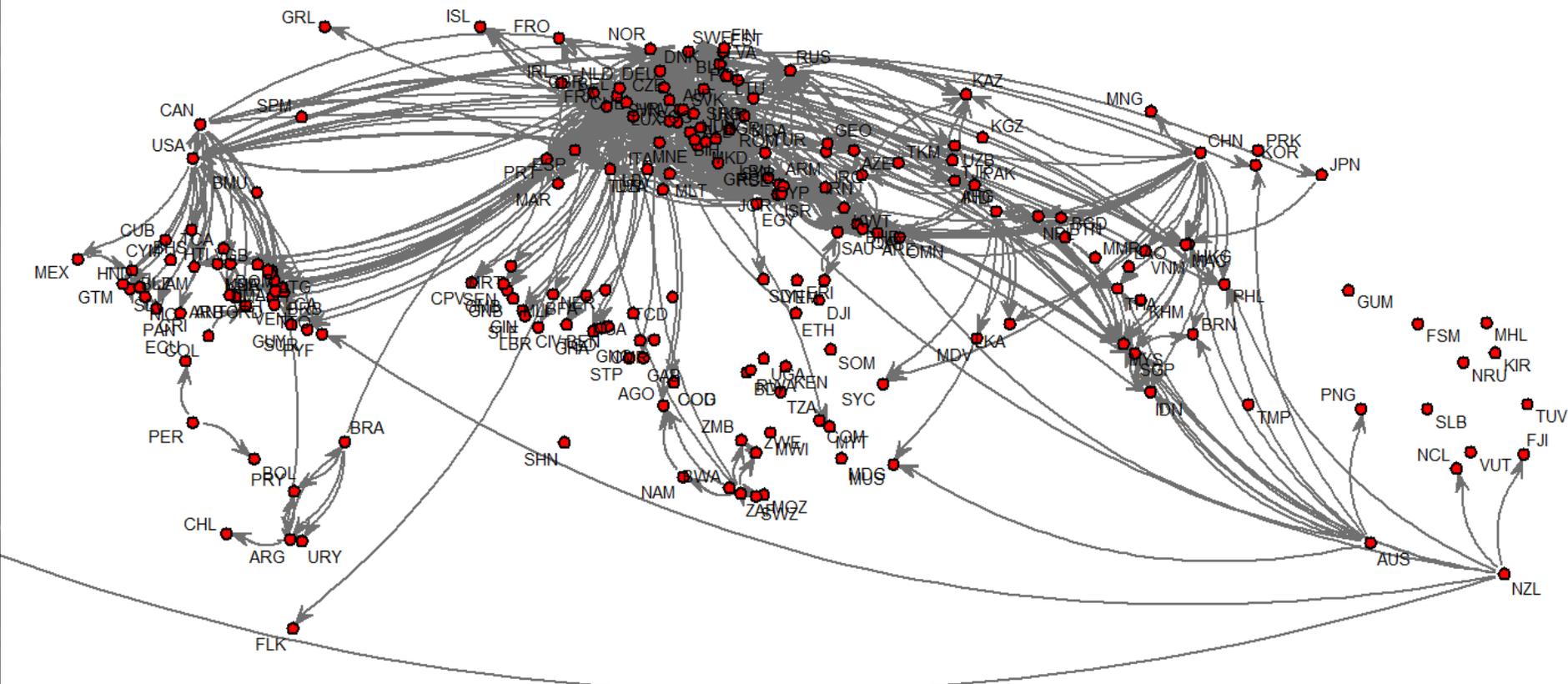
Action

Ethics

Opportunity



World trade in fresh potatoes, flows over 0.1 m US\$ average 2005-2009



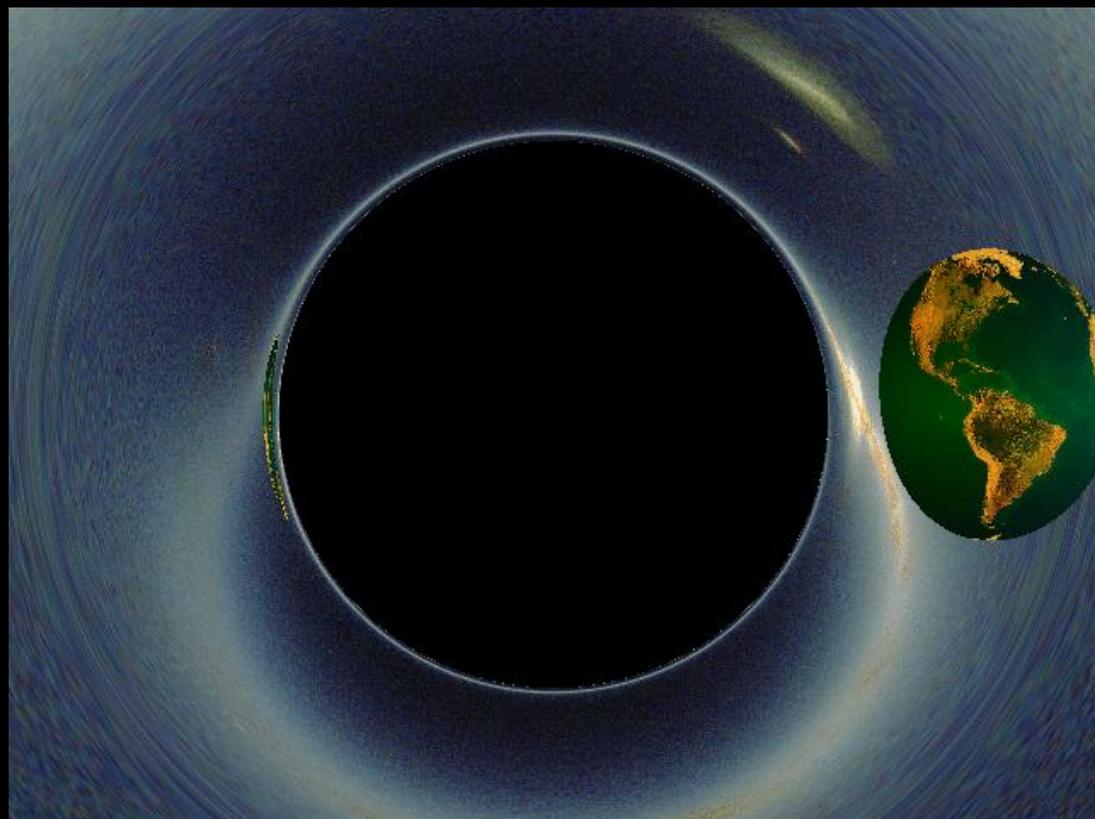
“Mattermatics”

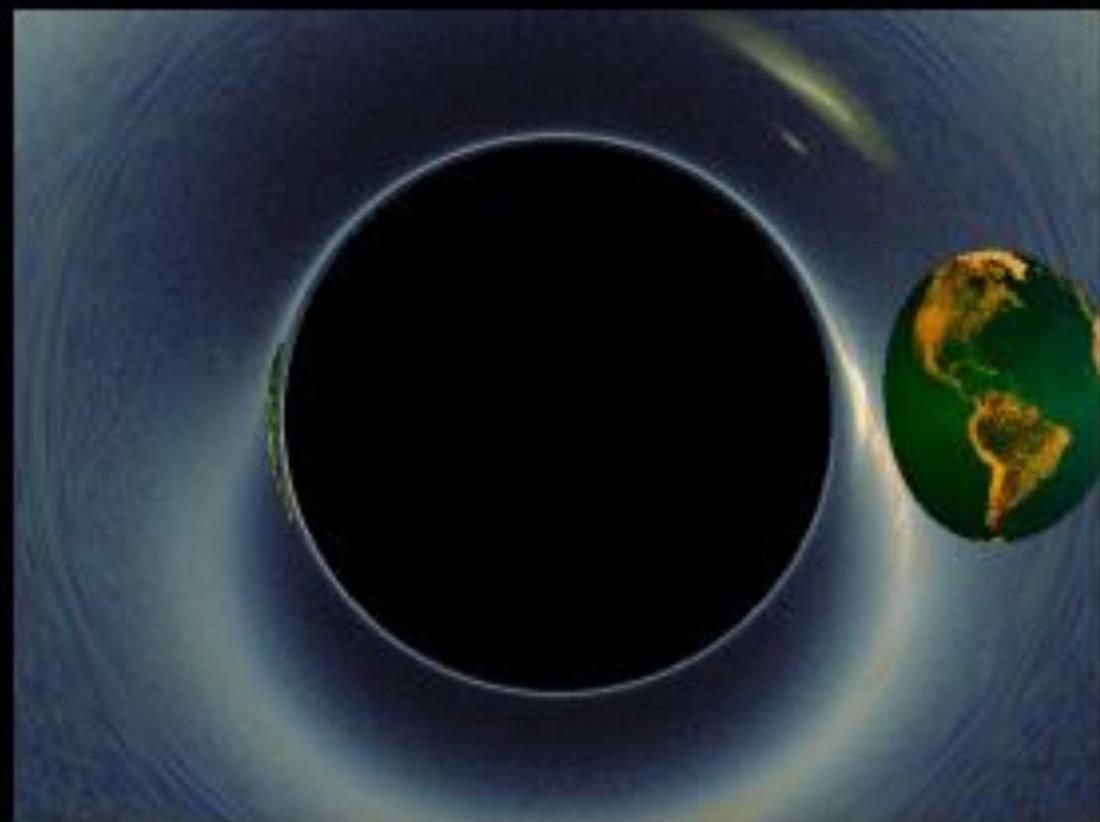
+ 1

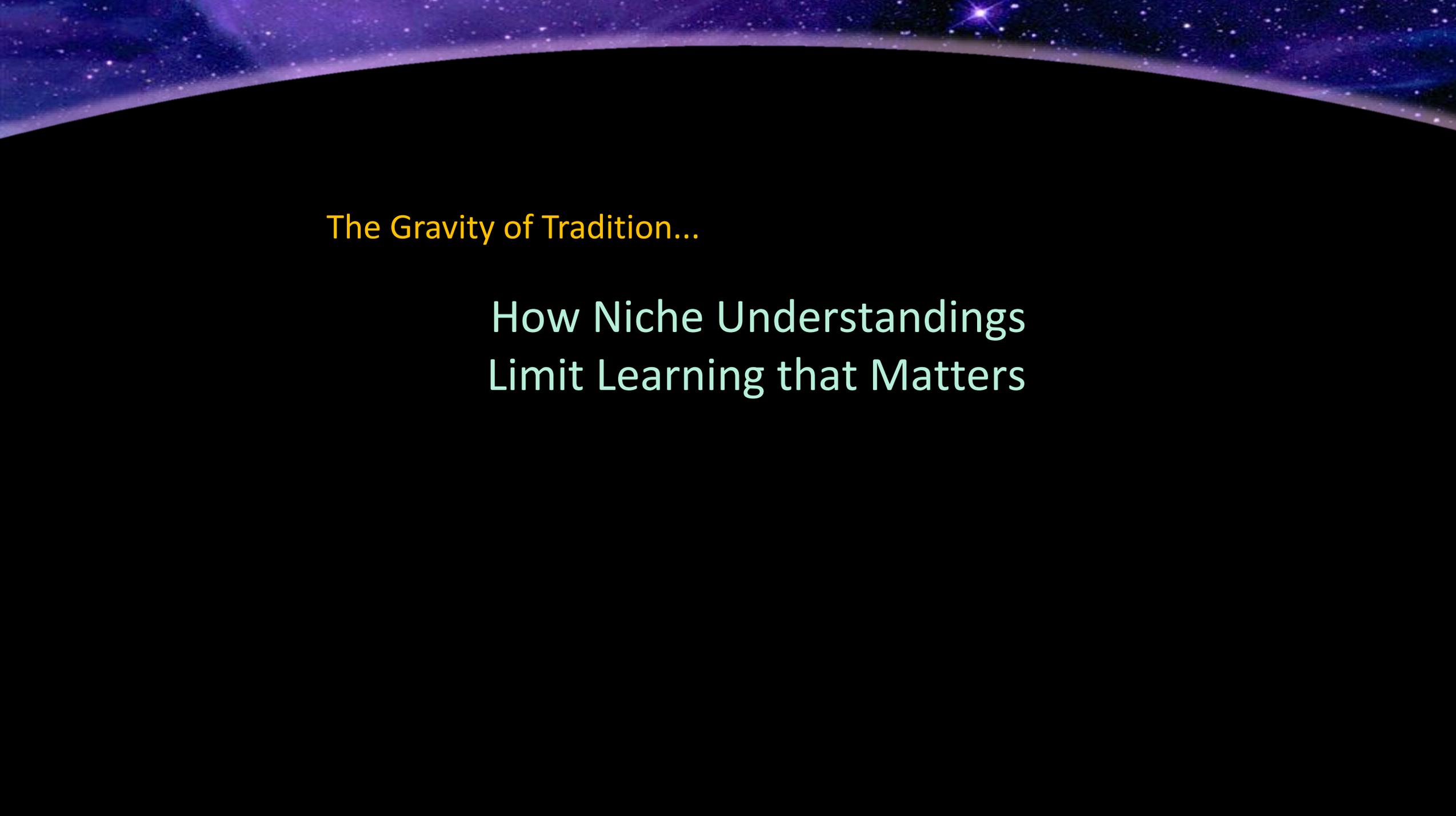
x 2

÷ 3

Stern-Bezeichnungen.
⊙ 1^{te}, * 2^{te}, + 3^{te}, x 4^{te}, - 5^{te} Größe.
von Fernster bis kleinster.
⊙ Merkur.







The Gravity of Tradition...

How Niche Understandings
Limit Learning that Matters

Interphase

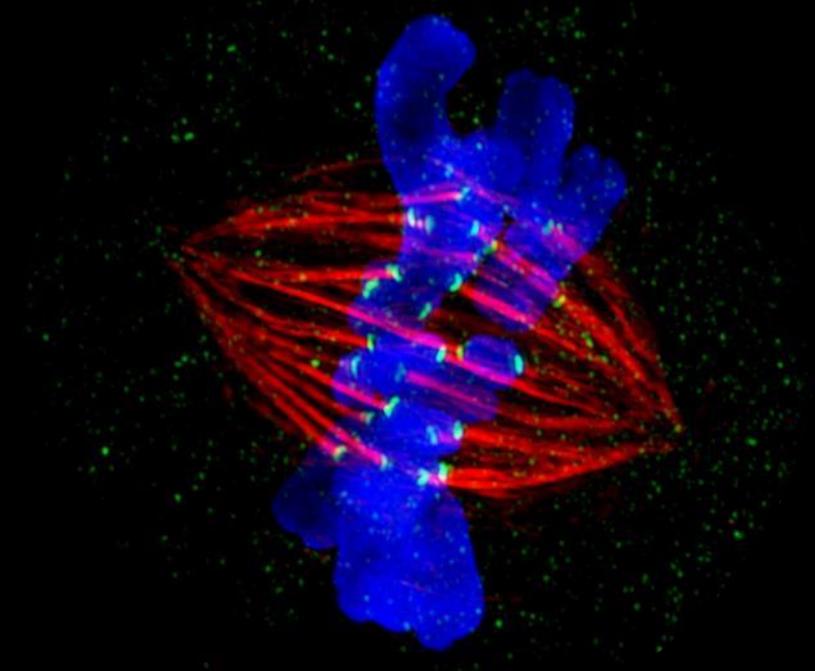
Prophase

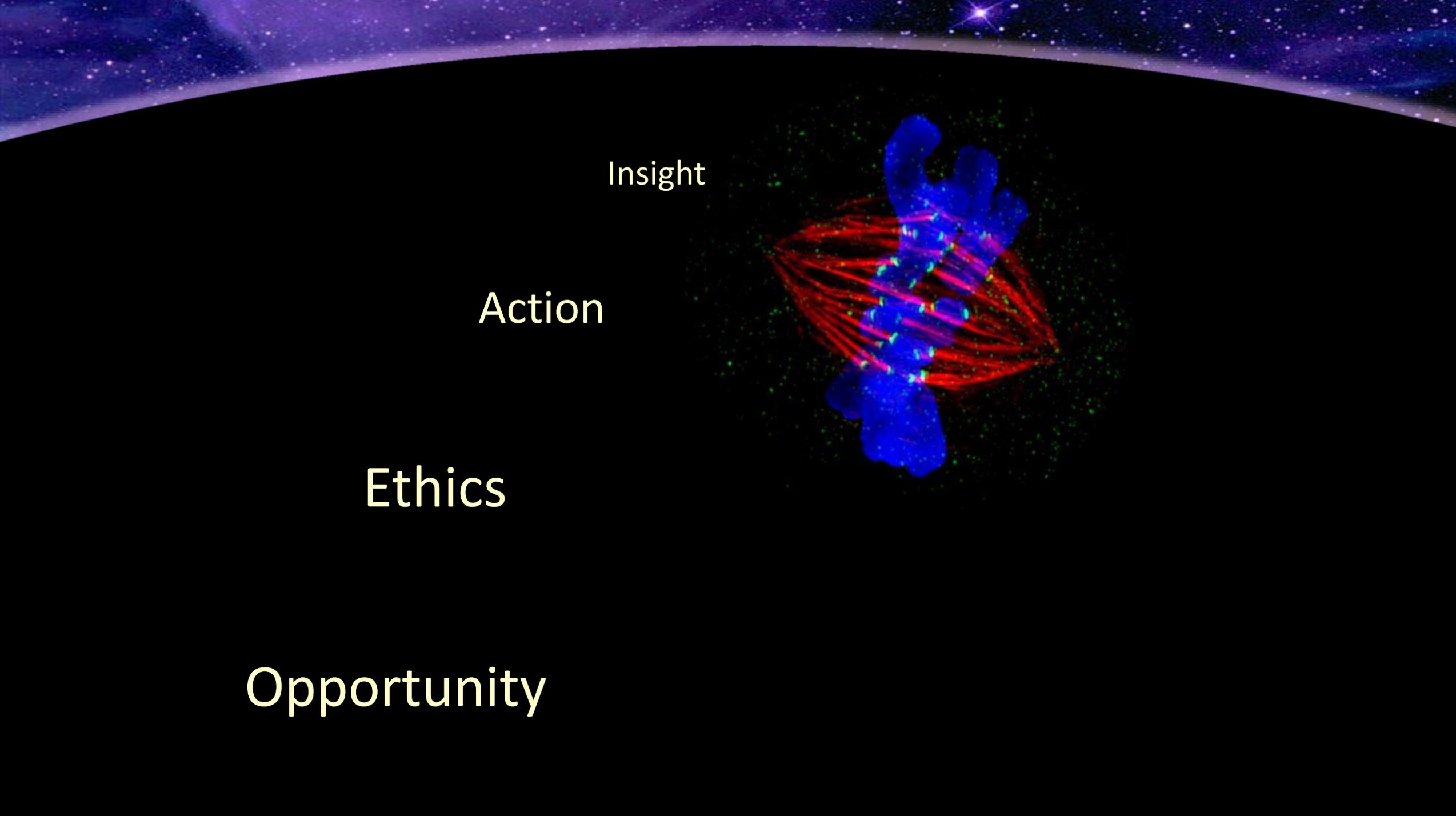
Metaphase

Anaphase

Telophase

Cytokinesis



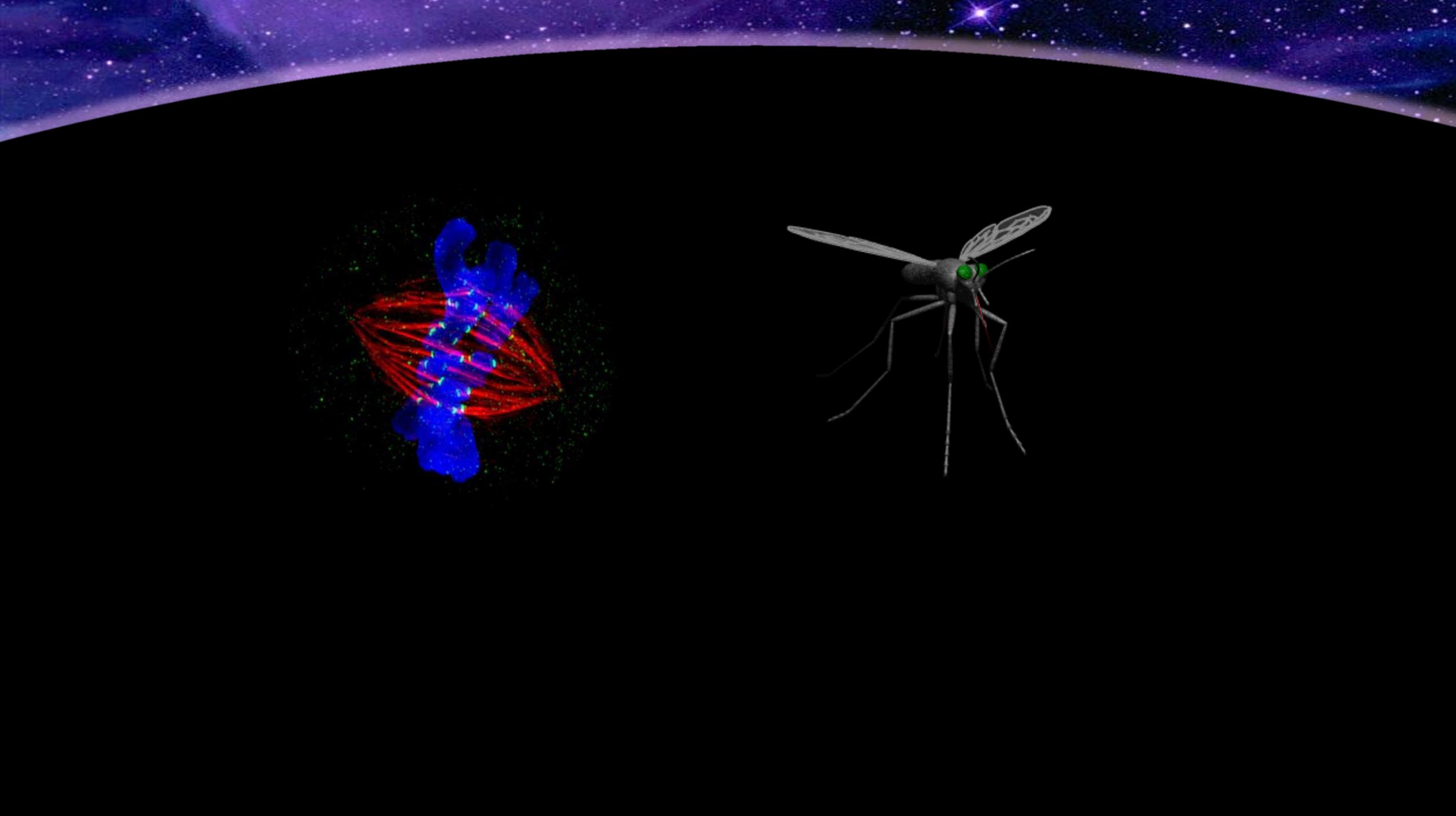


Insight

Action

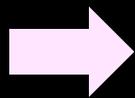
Ethics

Opportunity





Understanding OF



Understanding WITH

“Mattermatics”

+ 1

x 2

÷ 3

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von Fernster bis kleinster.
☉ Merkur, ♀ Venus, ☽ Mond.



The Gravity of Tradition...

Where we might
Need to Let Go







expertise

information

achievement

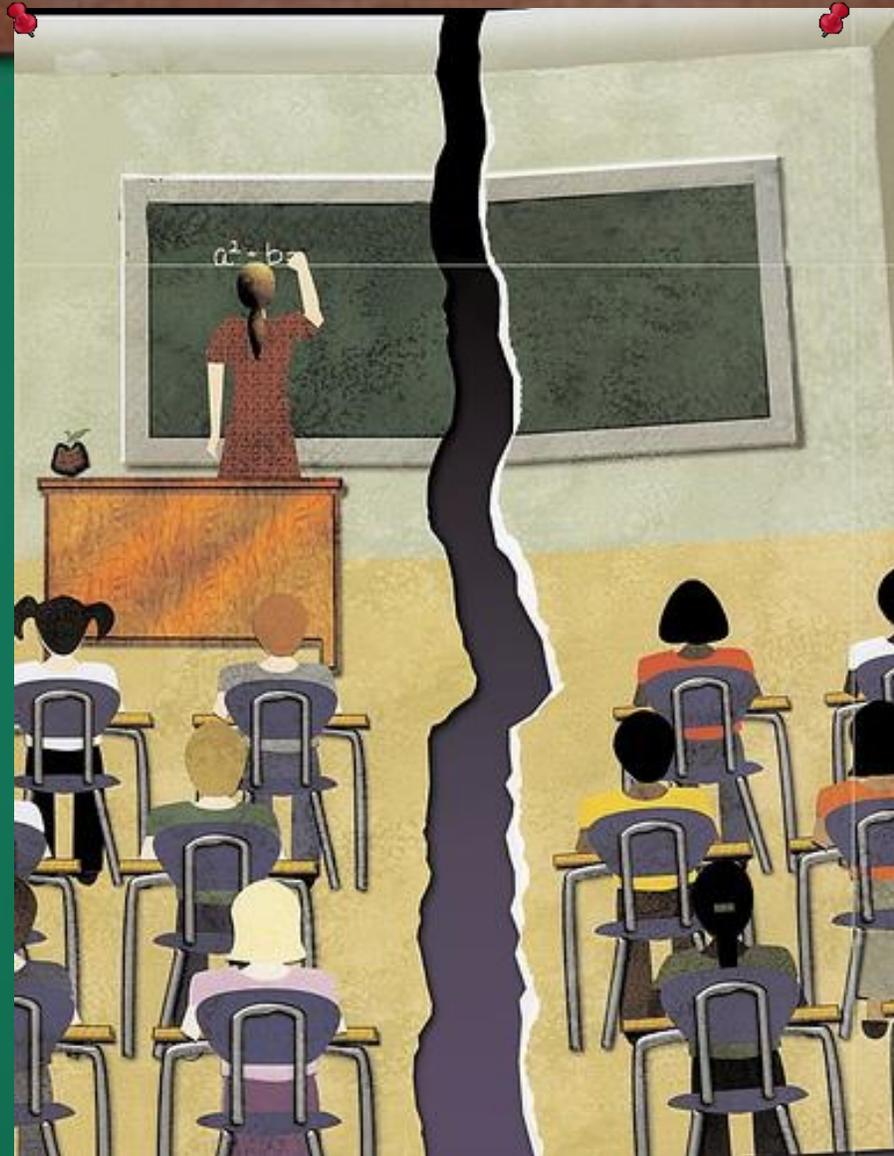


expertise

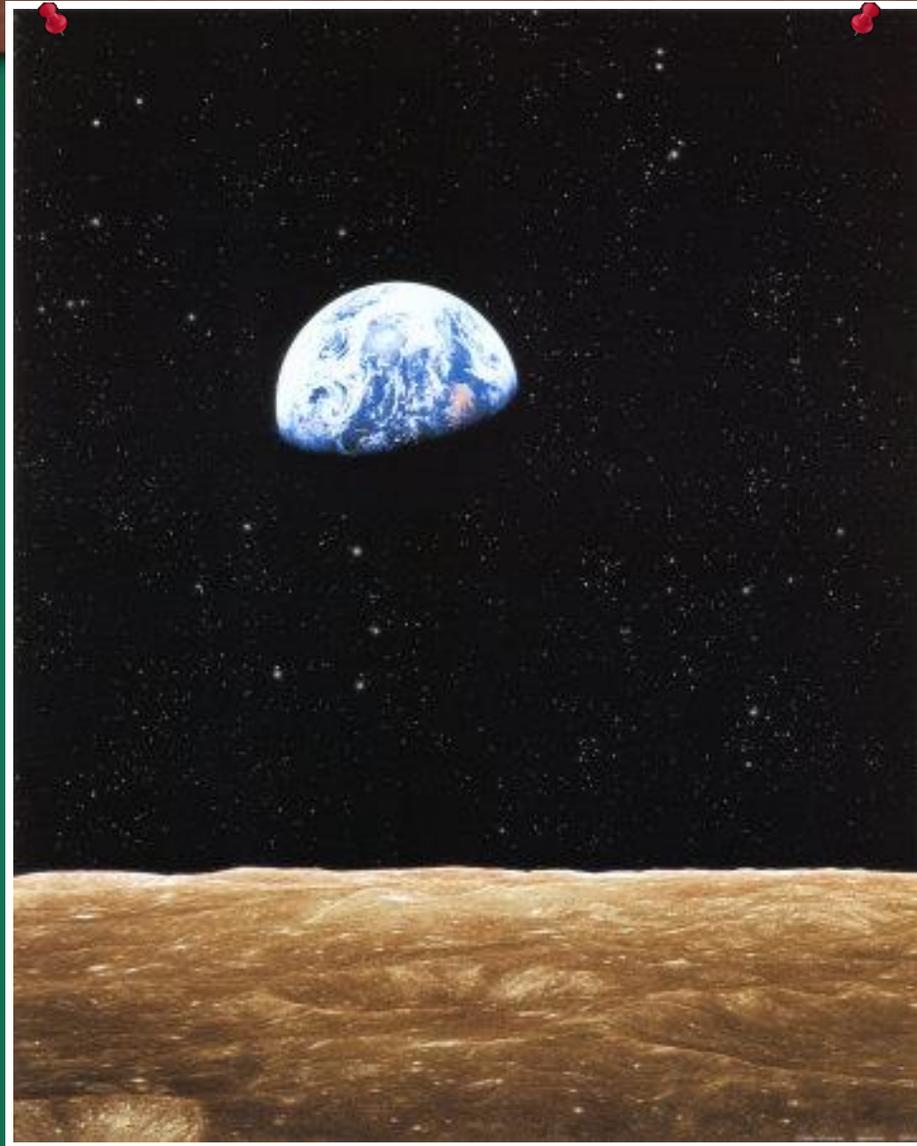
information

achievement

The ACHIEVEMENT gap



The RELEVANCE gap

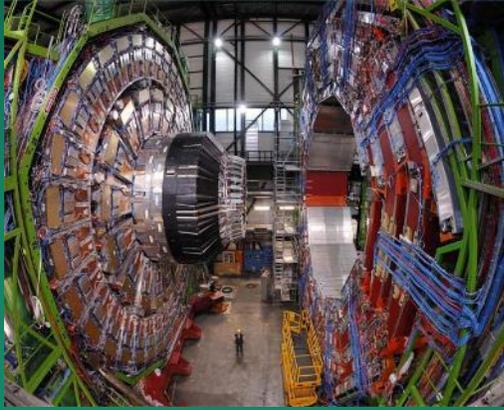




expertise

information

achievement



IT

The Magna Carta

1066

AaBbCcDd...

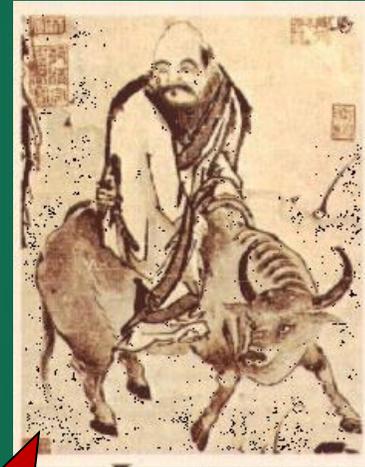
1492

£ \$
€ ¥

The French Revolution

÷

$$3 \times 7 = 21$$



206 bones
in the
adult
human
body



Omnia Gallia est divisa in partes tres

To be or not to be... $E = MC^2$



expertise

information

achievement



Expertise



Expert amateurism



expertise

information

achievement

“Mattermathics”

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The image features a composite background. The lower half shows a view of Earth from space, with the curvature of the planet and various geographical features like continents and oceans visible. The upper half is a deep blue and purple space scene filled with numerous stars and nebulae. Text is overlaid on the upper portion of the image.

The Expanding Universe...

Reimagining Education for
Learning that Matters

A view of Earth from space, showing the curvature of the planet and the atmosphere, set against a starry background. The Earth's surface is visible, with blue oceans, green landmasses, and white clouds. The sky is a deep blue, filled with numerous stars and some nebulae.

As our collective world gets
smaller, the worlds we
individually engage become
more numerous and complex











