

# Towards a **Genomic** **Metaphor** for Educational Technology Research

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# A bit about myself



## Telecom industry

R&D Engineer  
Nobody uses our stuff!

## Academic Ph.D.

Teacher adoption of CSCW  
Tech for implementation of LD



ÉCOLE POLYTECHNIQUE  
FÉDÉRALE DE LAUSANNE



## Postdoc

Teacher orchestration load  
Automatic extraction of classroom events  
("reverse" LD)

a growing concern

# Educational Technology **Adoption**

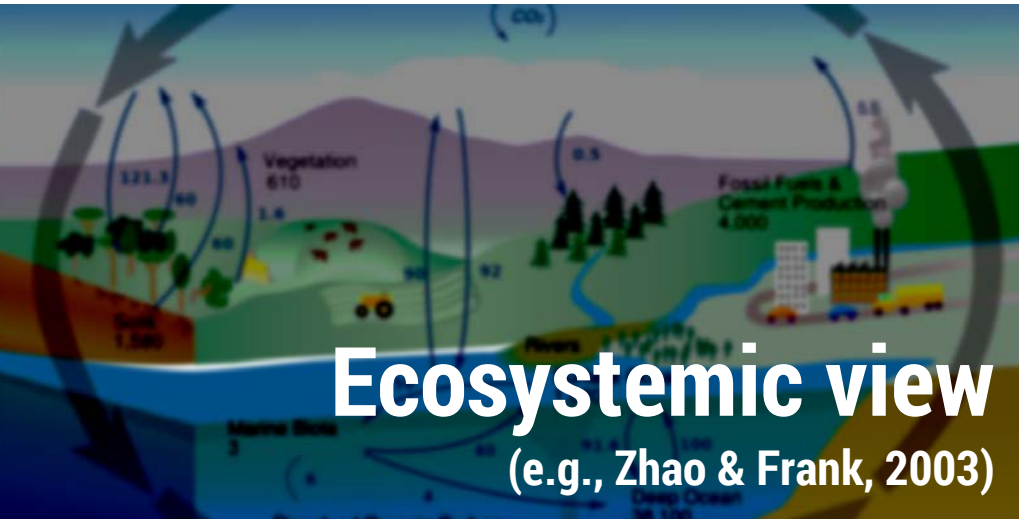


learning  
**ANALYTICS**



... etc.

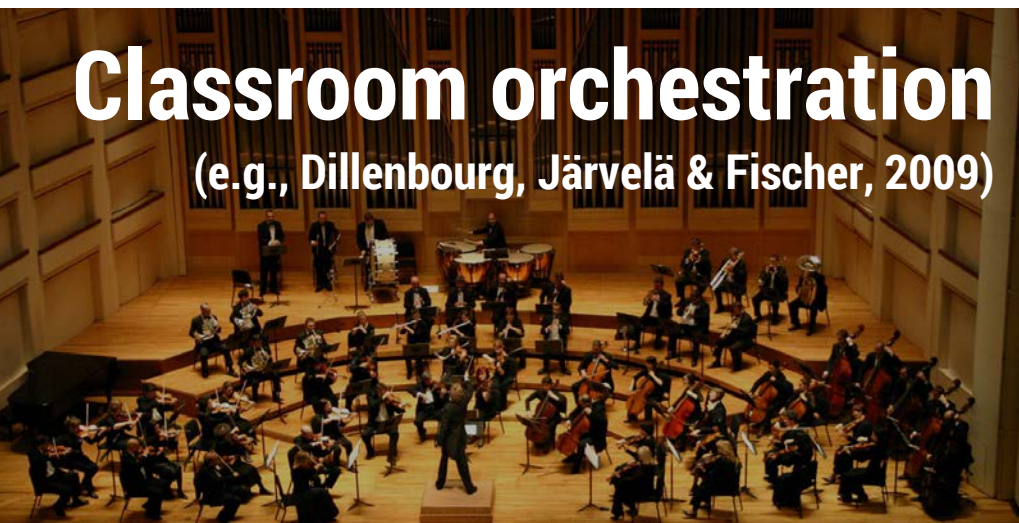
# Metaphors to think about adoption



Complexity

Temporality/Evolution

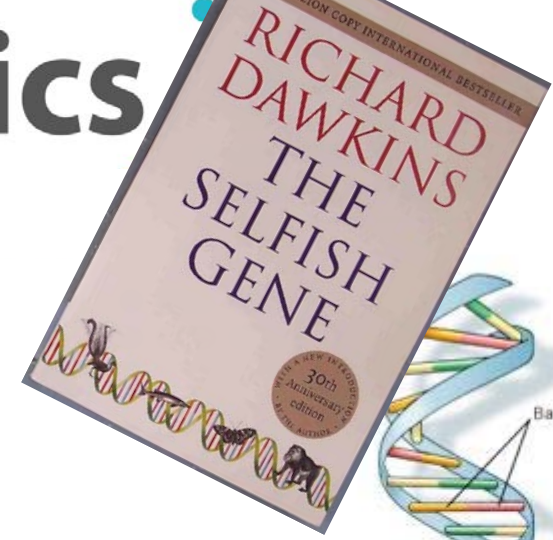
**Learning value**  
is missing!



Multiple constraints

Multiple activities

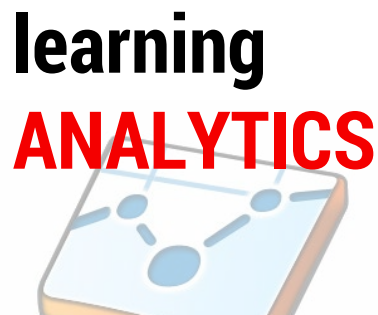
# Genomics

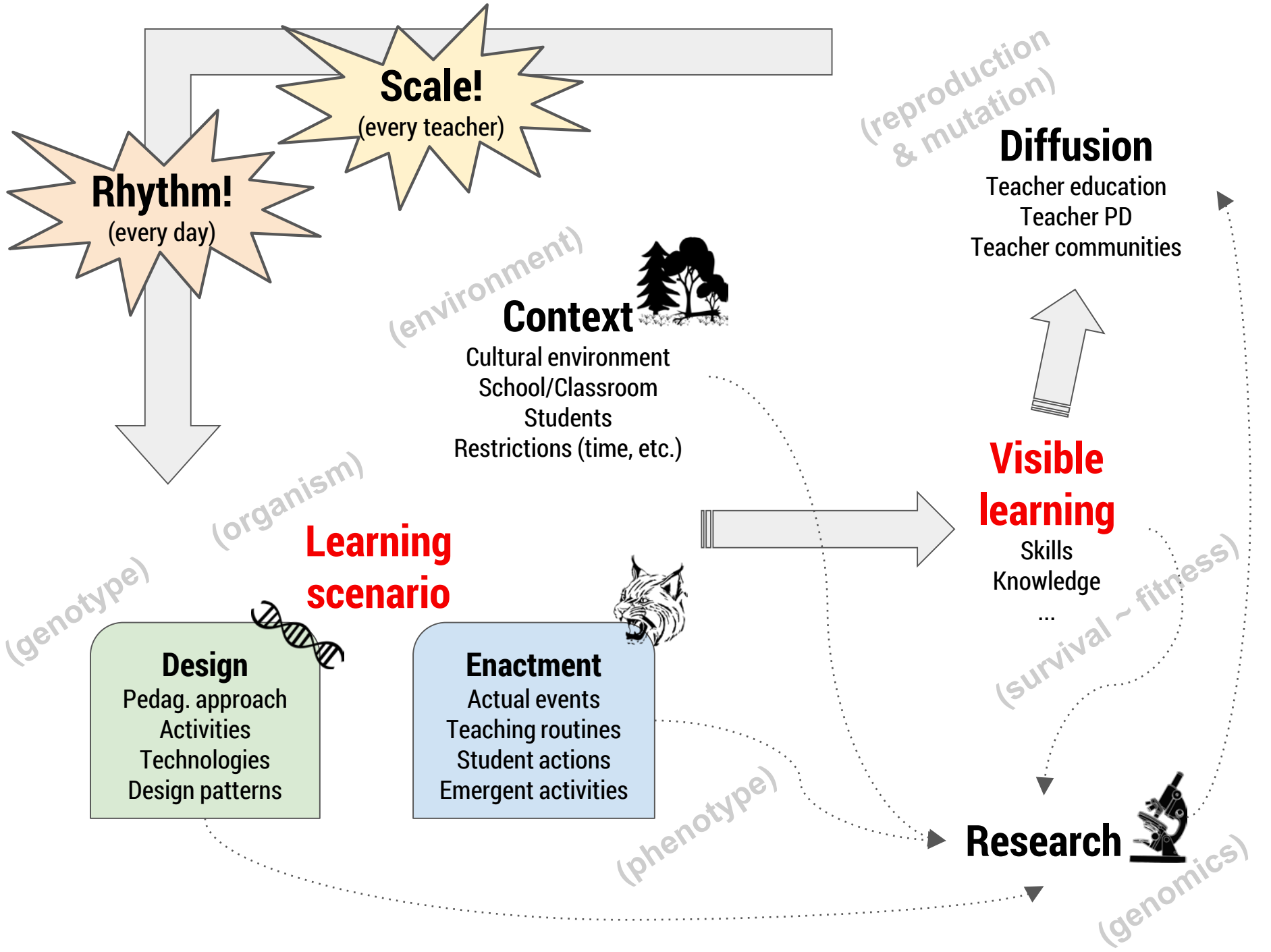


U.S. National Library of Medicine

a new metaphor

## Learning scenario as an **organism**





**Rhythm!**

(every day)

**Scale!**

(every teacher)

**Diffusion**

Teacher education  
Teacher PD  
Teacher communities

**Context**

Cultural environment  
School/Classroom  
Students  
Restrictions (time, etc.)

**Learning scenario**

**Design**

Pedag. approach  
Activities  
Technologies  
Design patterns

**Enactment**

Actual events  
Teaching routines  
Student actions  
Emergent activities

**Visible learning**

Skills  
Knowledge  
...

**Research**



*(genotype)*

*(organism)*

*(environment)*

*(phenotype)*

*(genomics)*

*(reproduction & mutation)*

*(survival ~ fitness)*

# Research agenda



# Is it useful for **YOU?**

- **Where does your research fit** within this research ecosystem?
- **Apply it to your current projects:**
  - How does your innovation demonstrate **fitness** value?
  - How does it **reproduce** the fittest results?
  - What are the design/enactment **elements** of the proposal? What is their respective value?
- **Do new project proposals** (e.g., a “learning design genome” project?)





Read the whole paper at <http://goo.gl/T6luJk>  
For more information, please contact [lprisan@hotmail.com](mailto:lprisan@hotmail.com)

# Image credits

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