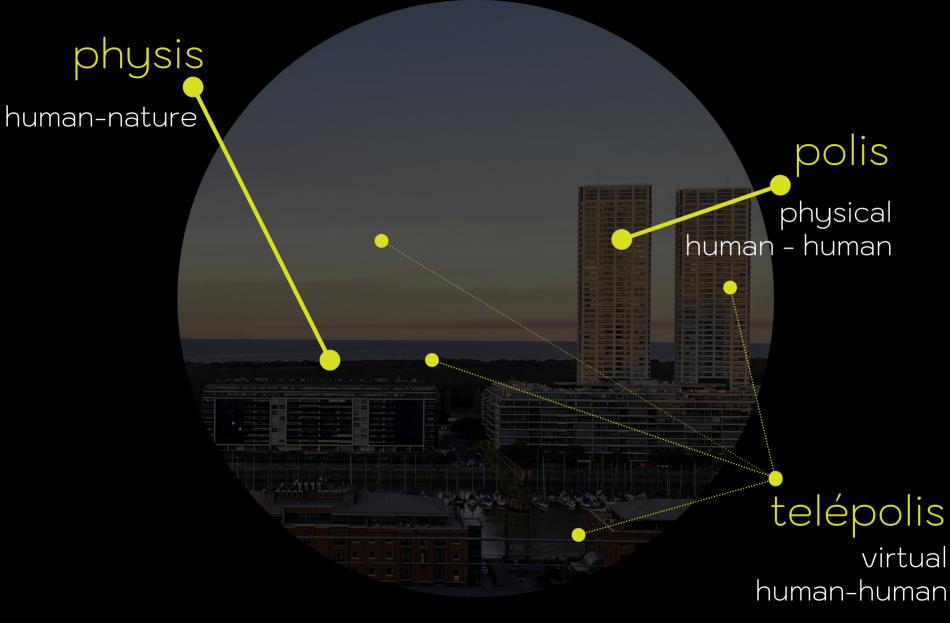




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### huge change of scale



physis



telépolis

polis

nothing outside of the nature (Earth, even Mars)

#### polis

strong tendency to consolidate megacities (more tan 50% of population)

### huge change of scale

hyperconnected humanity (Internet almost 70% of population)



telépolis



## huge change of scale





## over those environments, into this huge change of scale, we unfold our lifes





## over those environments, into this huge change of scale, we unfold our lifes, surrounded by tons of objects





## over those environments, into this huge change of scale, we unfold our lifes, surrounded by tons of objects





#### environments









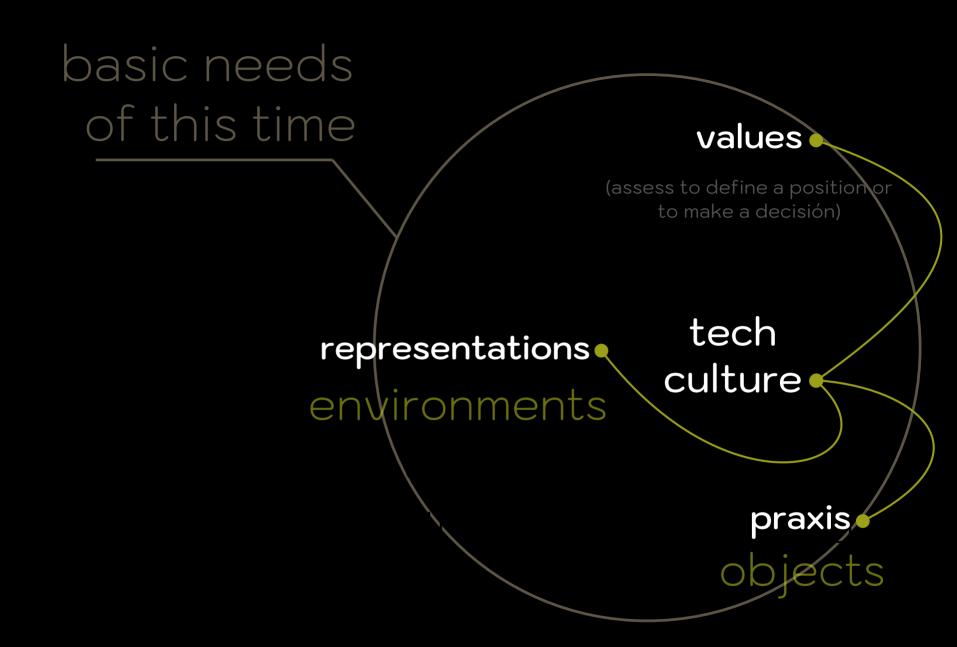
develop capacities for the critical assessment of technologies (assess to define a position or to make a decisión)

develop capabilities to unfold over the three **environments** 

> stimulate the effective use of objects











## basic needs of this time

schools do not sufficiently encourage tech culture





## basic needs of this time

schools do not sufficiently encourage tech culture

1st problem









#### uso de ilustración con permiso de Pablo Bernasconi



## / technological culture





- representations (information about the properties and features of the medium)
- praxis (information about how to take action)
- **values** (information about what is preferable, convenient, valuable)

## technological culture

(Miguel Angel Quintanilla)



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#### "technology is anything invented after you were born"

(everything that precedes us is naturalized)

(Alan Kay)







"it is culture that governs man" "is an initiation into the opinions of determinate social groups having existed in previous epochs"

(culture shapes us)

(Gilbert Simondon)





"the mediation between technics and power can be realized only through the mediation of culture"

(culture shapes us)

(Gilbert Simondon)







(tech actors as cultural actors?)

(McLuhan among others)





#### tech actors as cultural actors





tech actors as cultural actors

# what about the users?



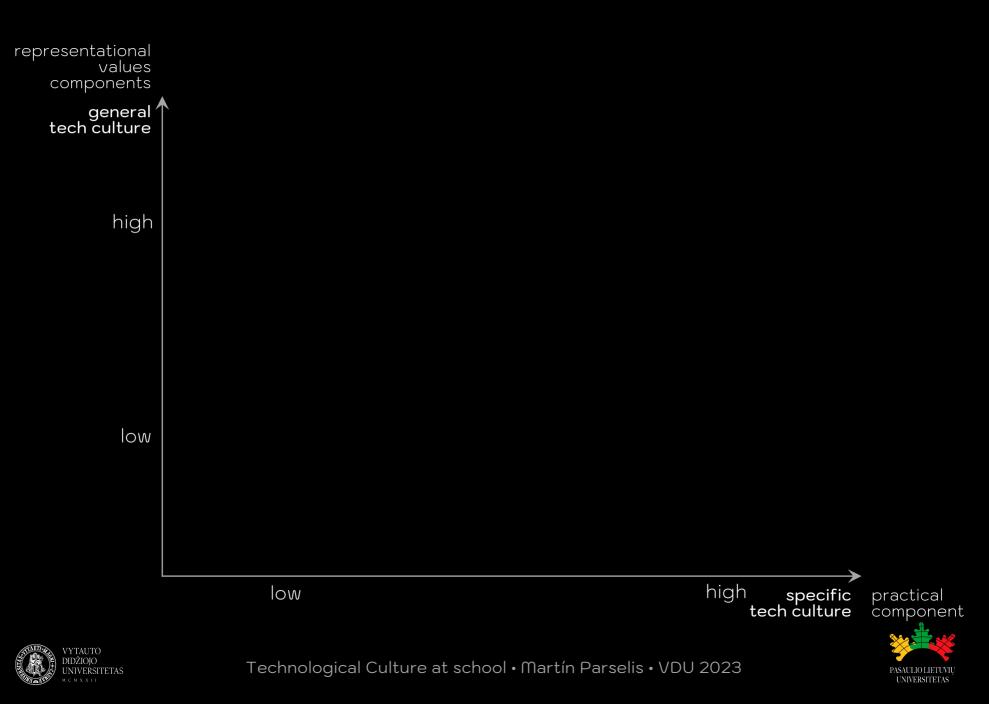


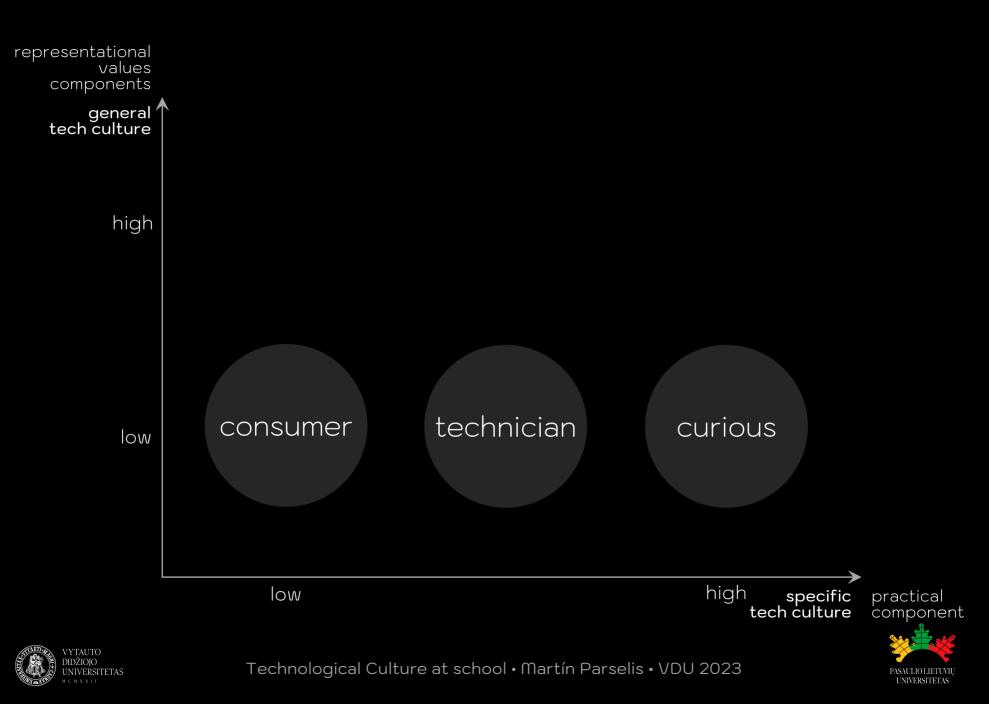
in platform times, we can be active, sharing designers capabilities and developing solutions

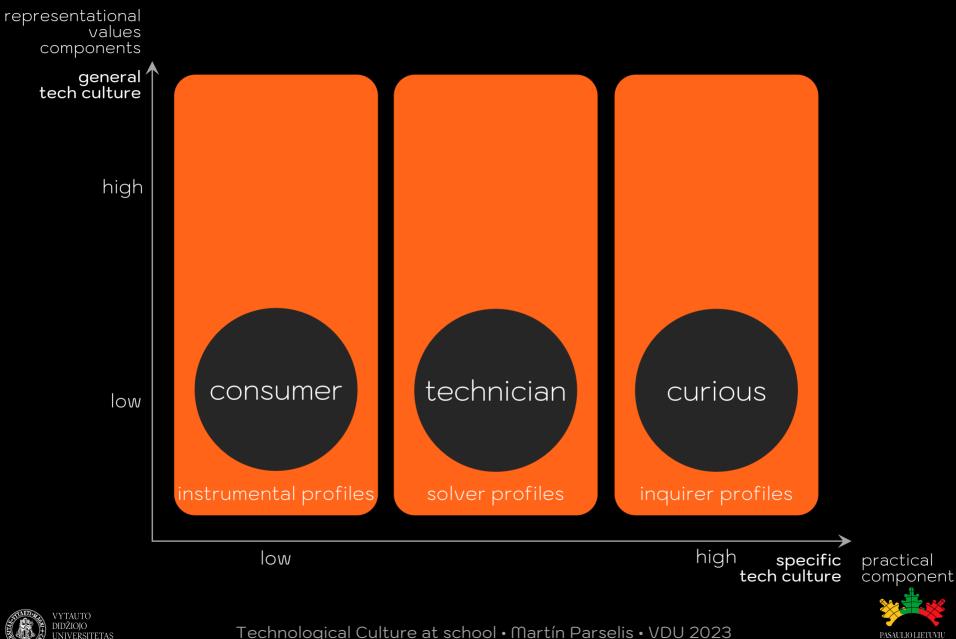
# yes: the users



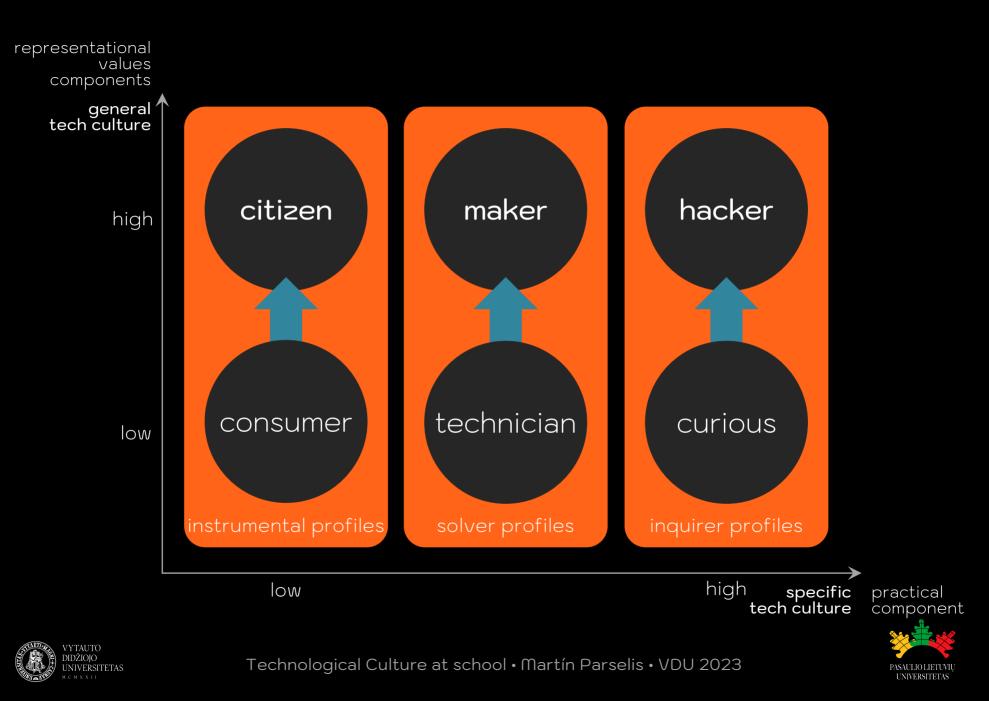


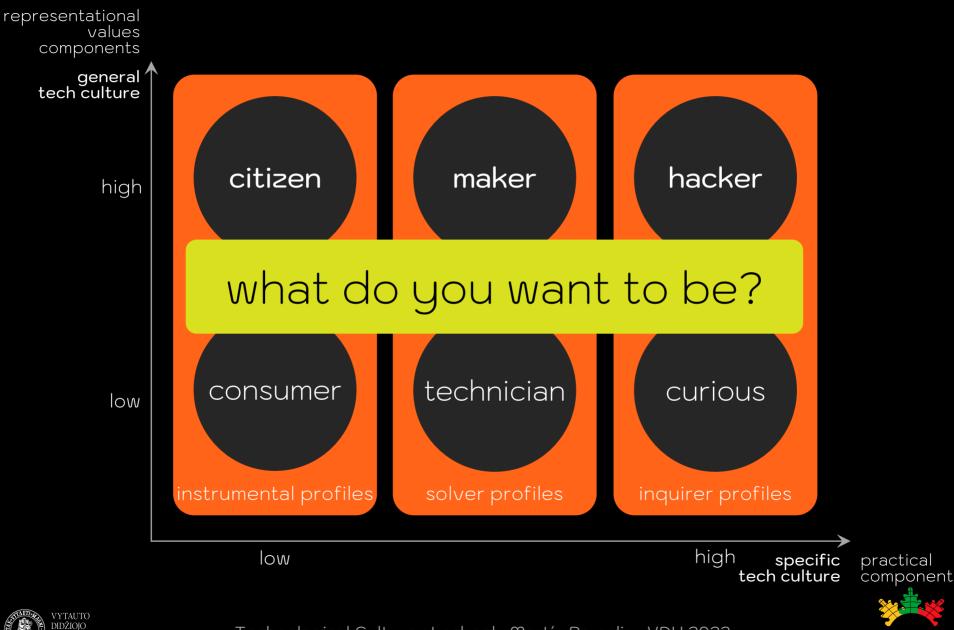


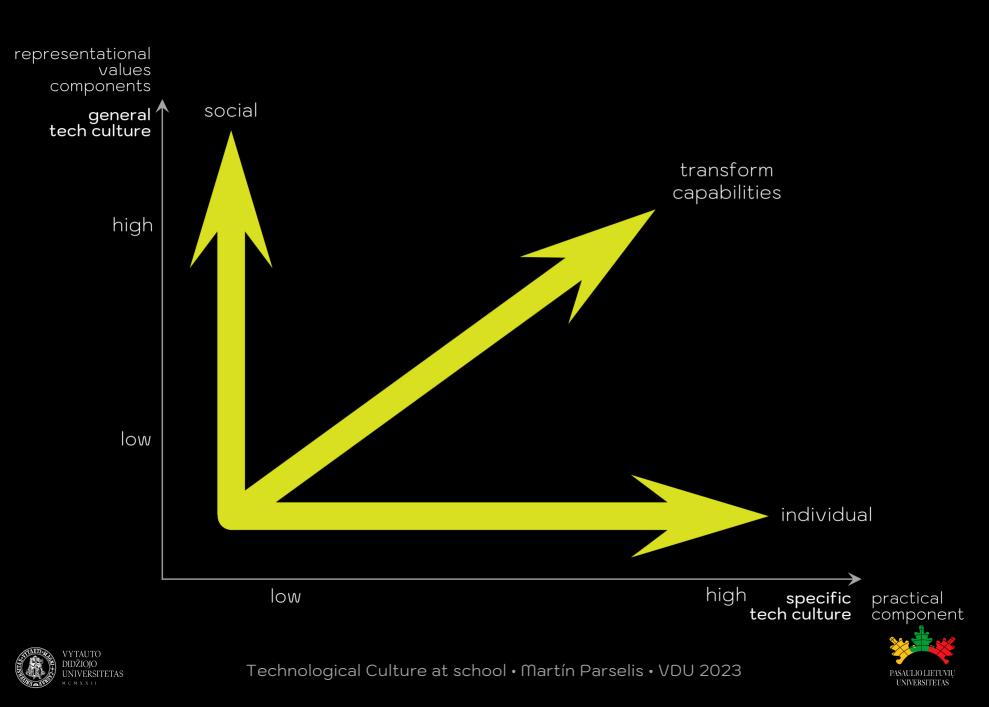




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Seymour Papert

"how strange, then, that 'computers in education' should so often reduce to using **bright new gadgets** to teach **the same old stuff** in thinly disguised versions of **the same old way**."









Seymour Papert

bright new gadgetstechnologiesto teach the same old stuffcontents

the same old way

pedagogy







Seymour Papert



new technologies same contents

same pedagogy

# 50 years, the same problem





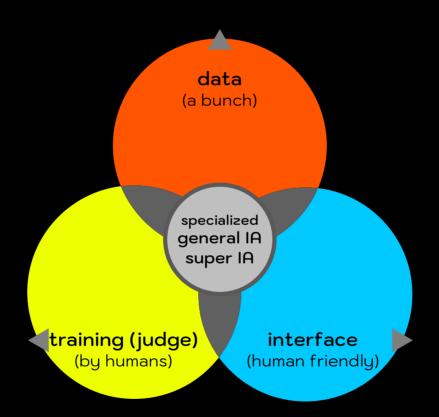
to be part of this era is to naturalize the technologies to make them work, but without eliminating the deep understanding of this time

to avoid the same old problems we need to narrow the gap of contemporaneity

live, think, and feel into this time

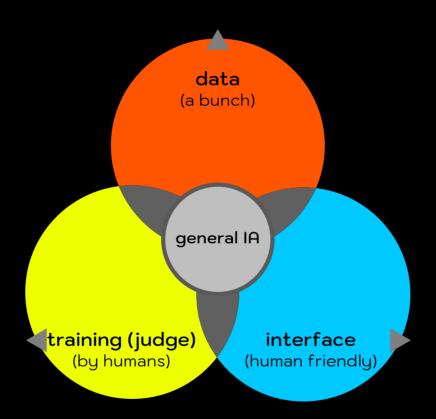






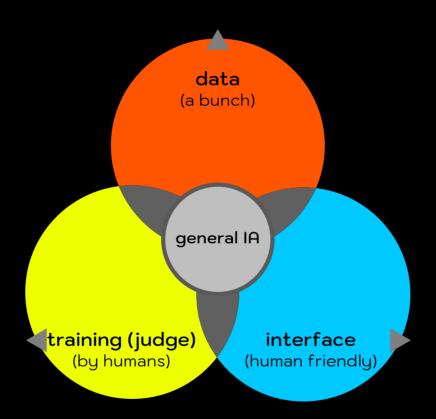






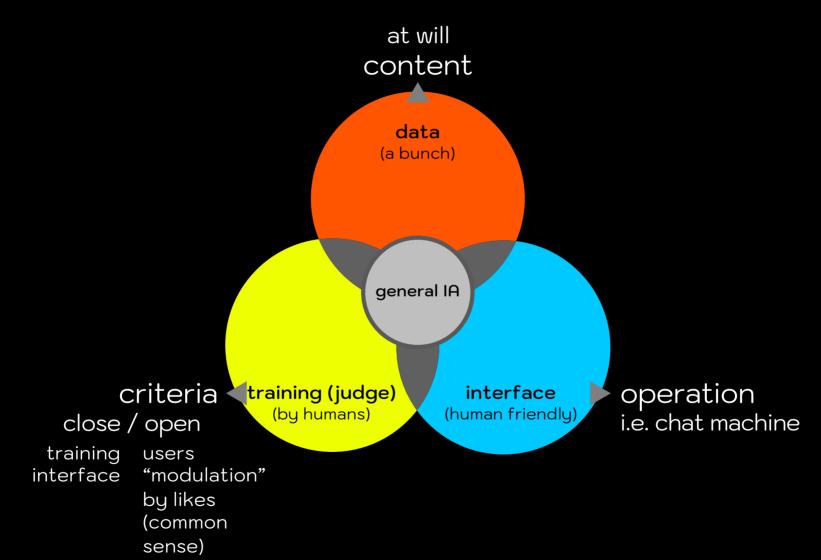






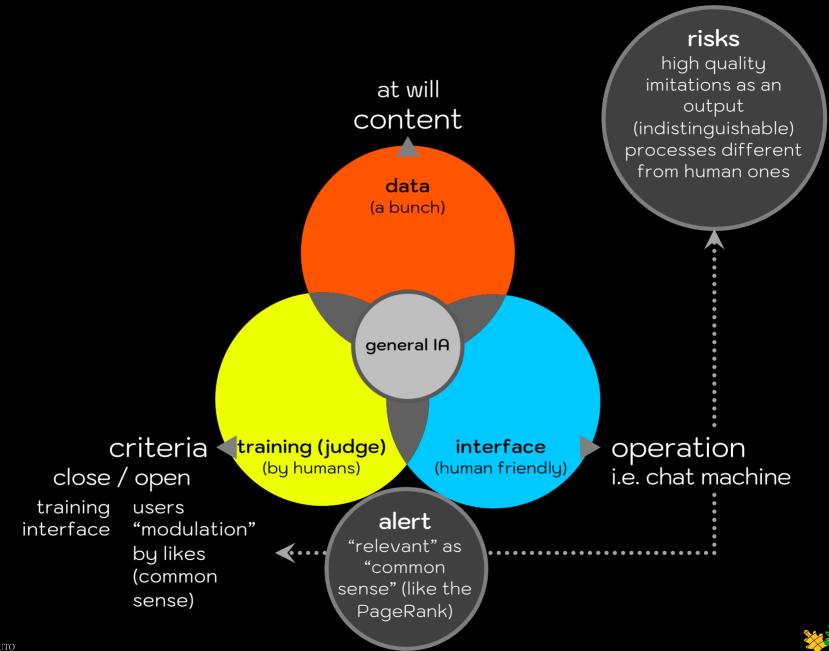




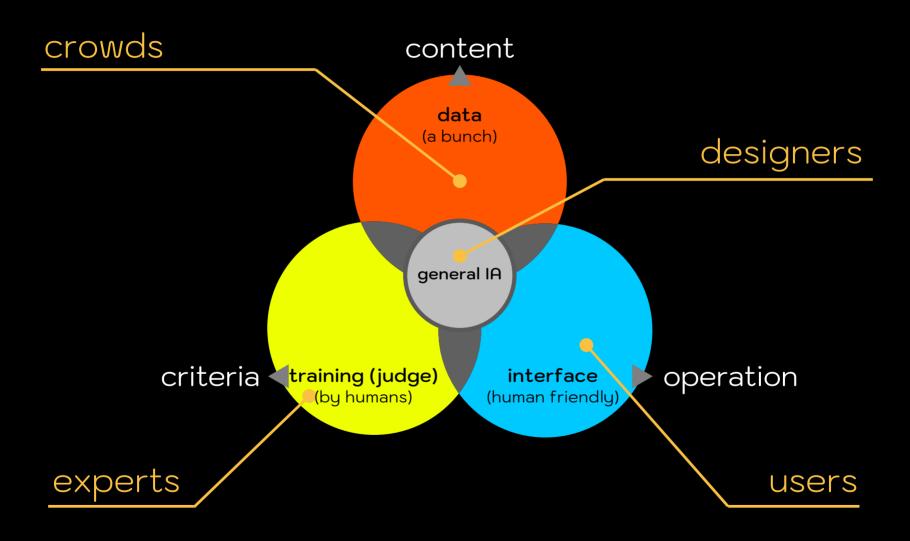








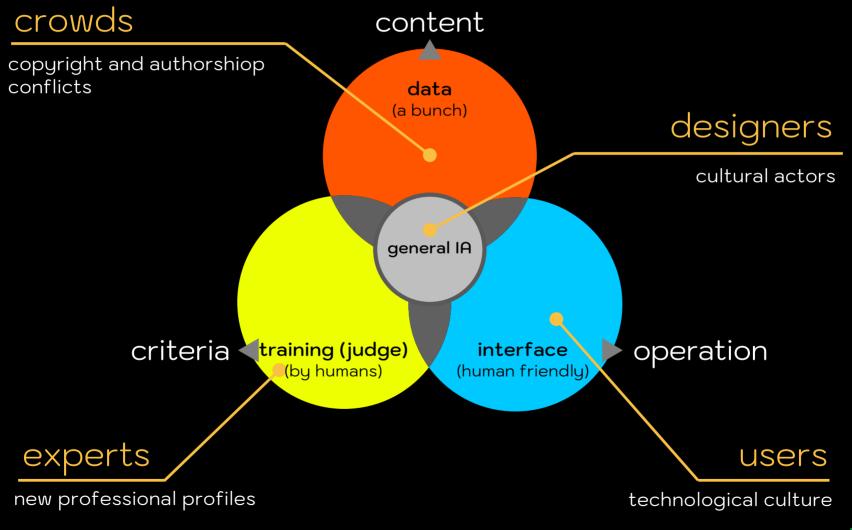






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cultural actors



technological culture





when technologies (and their problematization) come to school they are already accepted, spreaded and "pasteurized"

# 2nd problem

harm, or not, technologies are already with us (and are increasingly irreversible)





### school does not anticipate



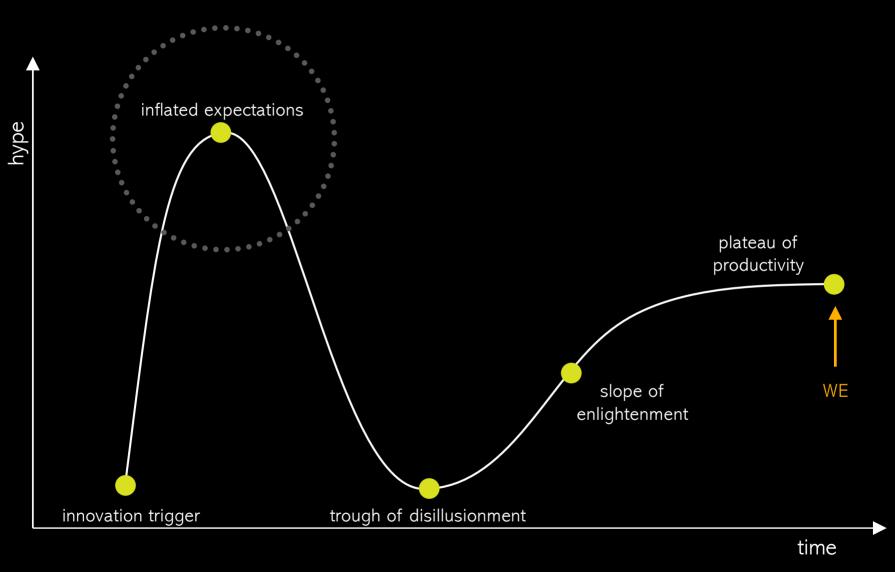


## school does not anticipate

(not as **imagination** exercise, but an **information** exercise)

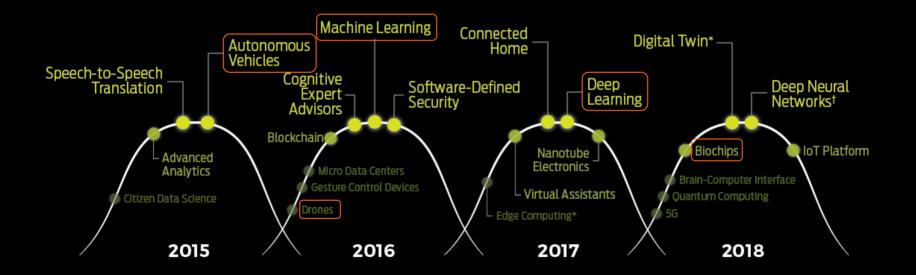










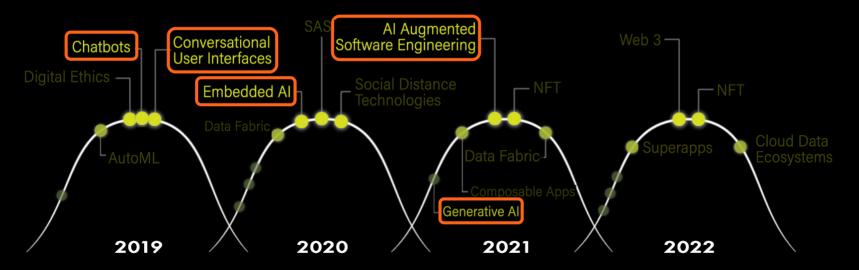






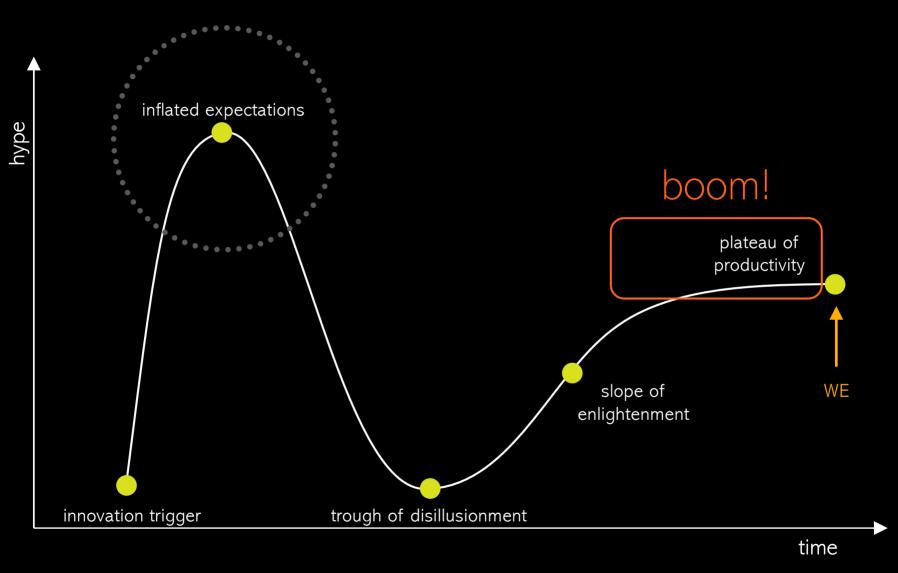
# example of the public explosion of AI applied to natural language (chatGPT, etc.)

We know the development of AI since the 40s of the 20th century, but this "language machine" had its peak of expectation half a decade ago, today it is in production













## school does not anticipate

(not as **imagination** exercise, but an **information** exercise)





## school does not anticipate

(not as **imagination** exercise, but an **information** exercise)

## why should we do that?

there are no technologies that should be accepted just because they are possible

(what about the acceptable and the desirable?)

technological imperative

technologies do not arise spontaneously

(there are many agents pushing them)

What about social legitimation?









# what we can do @school?





it is important to understand the evolution of the technologies that existed, the web of culture and technology

history, permanent categories, development, representational technological culture





it is important to understand the evolution of the technologies that existed, the web of culture and technology	history, permanent categories, development, representational technological culture
understanding the available technologies is useful if we consder that as a challenging, it allows us to "read" the changes we are experiencing in real time	intervene and solve problems (maker attitude, computational thinking), builds experiences on the multidimensionality of technology, be informed, practical, evaluative and owners of representational technological culture.





it is important to understand the evolution of the technologies that existed, the web of culture and technology	histo devo tech

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anticipating developing technologies allows us to decide on and evaluate them at an early stages critical exercise of citizenship on what we accept and what we want, value-based technological culture





#### capabilities

#### resources and strategies

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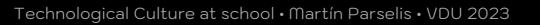
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	capabilities	resources and strategies
past	it is important to understand the evolution of the technologies that existed, the web of culture and technology	history, permanent categories, development, representational technological culture
today	understanding the available technologies is useful if we consder that as a challenging, it allows us to "read" the changes we are experiencing in real time	intervene and solve problems (maker attitude, computational thinking), builds experiences on the multidimensionality of technology, be informed, practical, evaluative and owners of representational technological culture.
future	anticipating developing technologies allows us to decide on and evaluate them at an early stages	critical exercise of citizenship on what we accept and what we want, value-based technological culture





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	capabilities	resources and strategies
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		-#

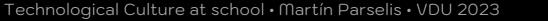






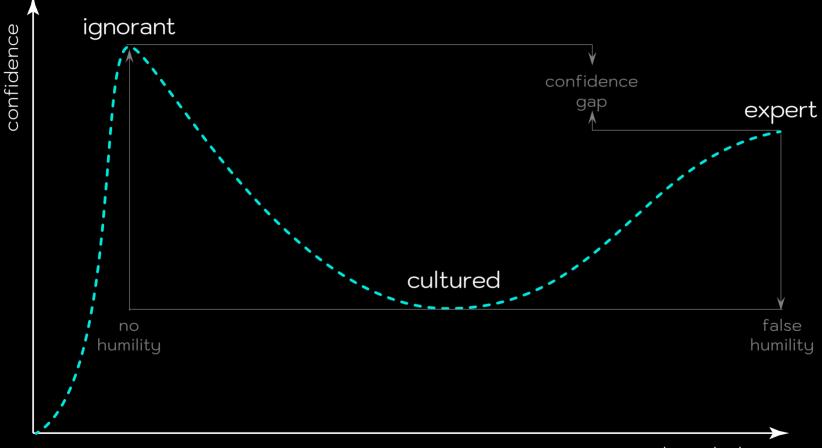
## what is the dose?







### the right dose to avoid the Dunning-Kruger effect



knowledge

the knowledge curve of Dunning-Kruger is a graphical representation of how an increase in knowledge modulates the confidence





## don't be ignorant







### don't need to be an expert







### be cultured



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I am around, see you online



