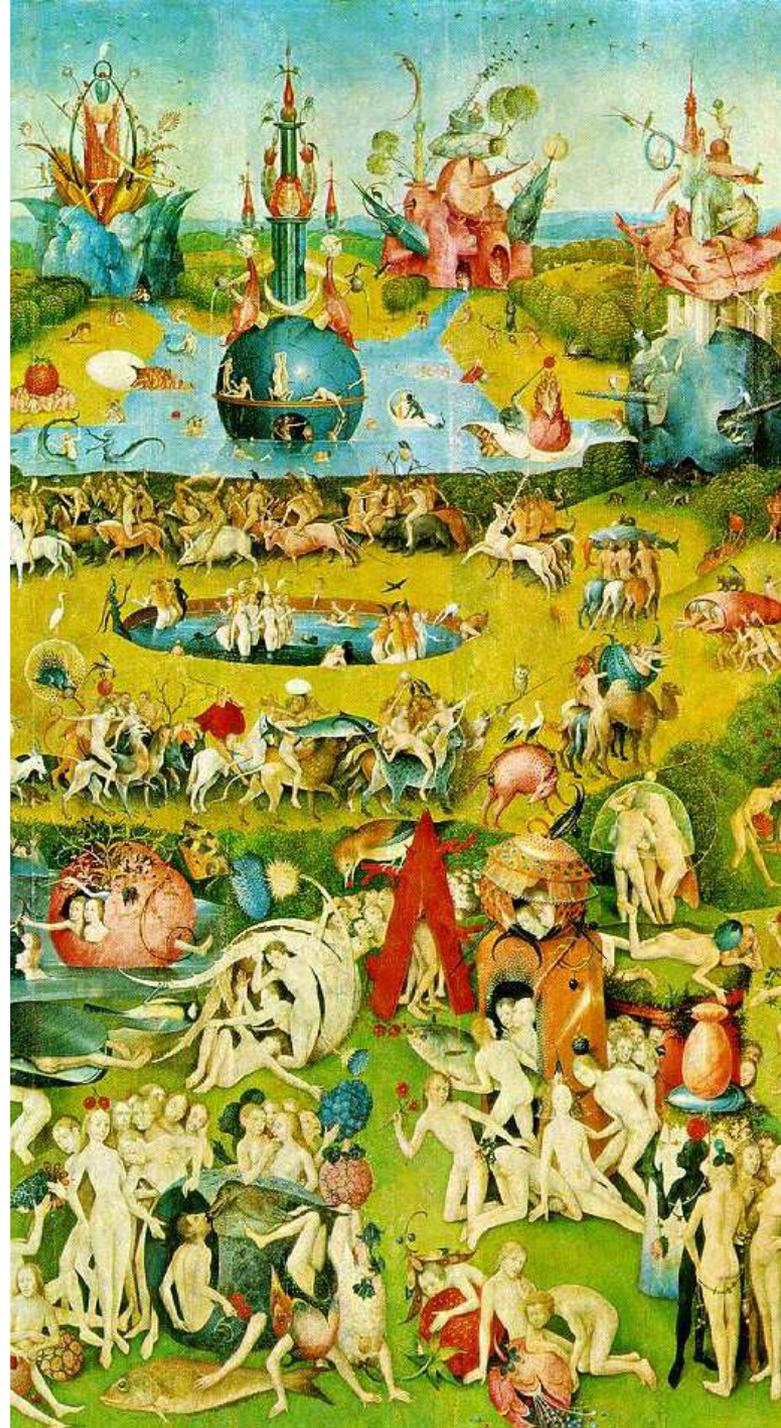




GLOBAL  
EDUCATION  
FUTURES

# Global Education Futures Agenda

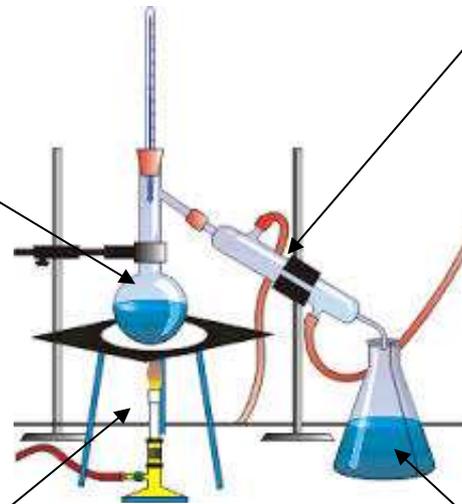
Pavel Luksha, Director, GEF  
RF Group 2010-2015



# Global Education Futures Agenda is 'distilled' from 5 years of foresight work

## Foresights of our group on Russian education & development:

- Foresight of Education 2010
  - Foresight of Higher Education 2012
  - Foresight of Children Educational Services 2013
  - Skills Foresight 2012-14
  - NeuroWeb Foresight 2013-14
- etc



**Group design of 'global education futures' map:** trends / technologies / formats that exist or are anticipated in at least 3 different countries / regions

**Analysis of over 50 international foresights / forecasts** on future of education, learning, human enhancement, and skills development from the US, Europe, and Asia

**Map** of global education + **Report** on global education futures agenda

# Key message of the Agenda report

Anticipated transition from 'factory systems' to learner-centered communities that support 'lifelong learning everywhere all the time' is the biggest challenge ever in the history of education.

Many progressive global players already invest into this transition, including major technology companies, governments of OECD countries, venture capitalists and international social movements

Our question is: what are the productive strategies of different players that support & enhance this scenario?

# The main stakeholder groups and questions they face

Innovators  
& investors

New education can be seen as the emerging multi-billion dollar market ('Internet in 1995'). How to use the emerging opportunities now?

Regulators

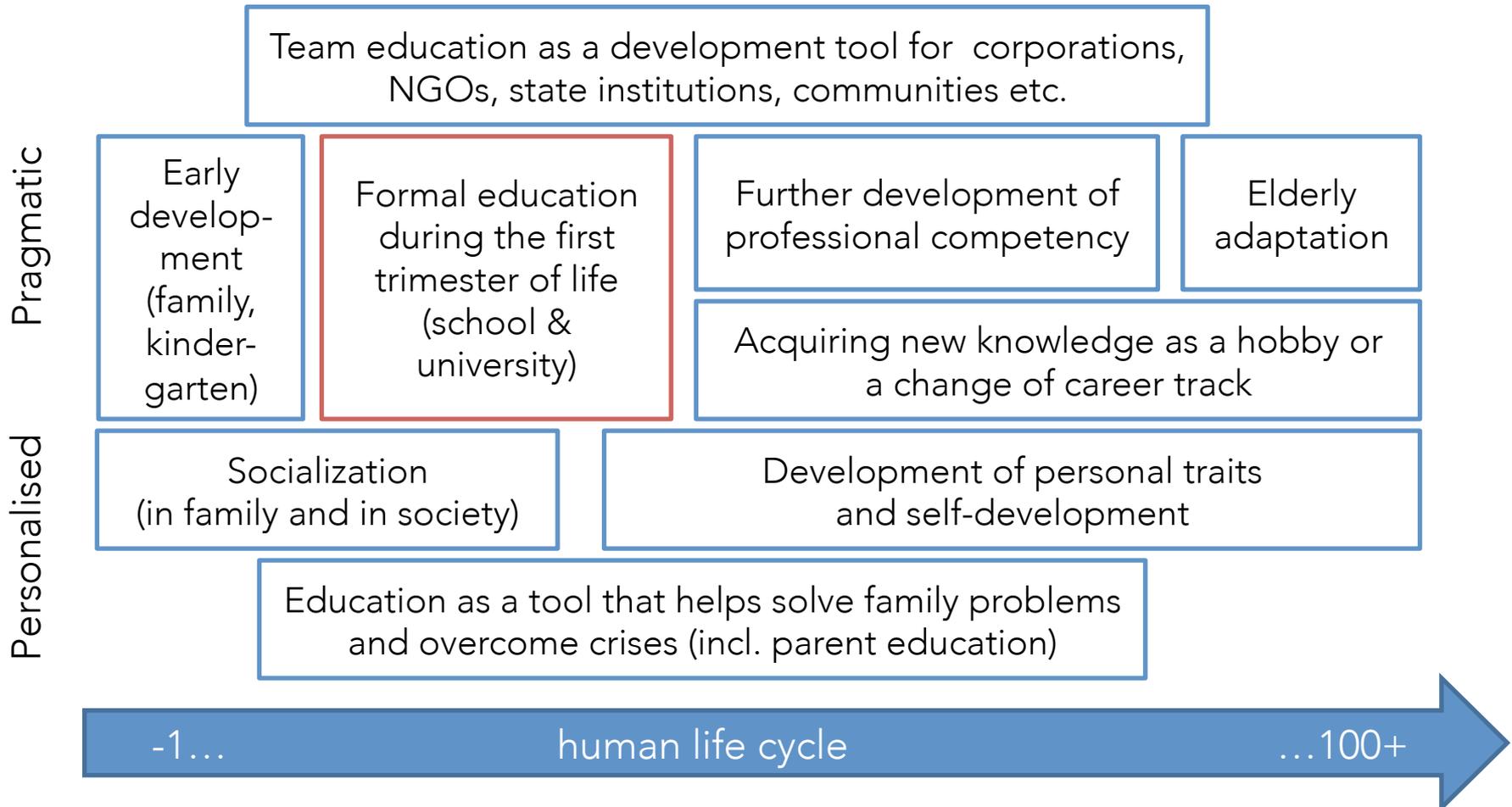
Support existing models or grow new ones. Is it reasonable to invest into obsolete formats that may last only for another couple of decades?

Administrators

The domain of education becomes more competitive, and the economic models of existing institutions become even less sustainable. What strategies will allow schools & universities to keep their competitive edge?

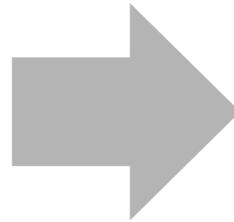
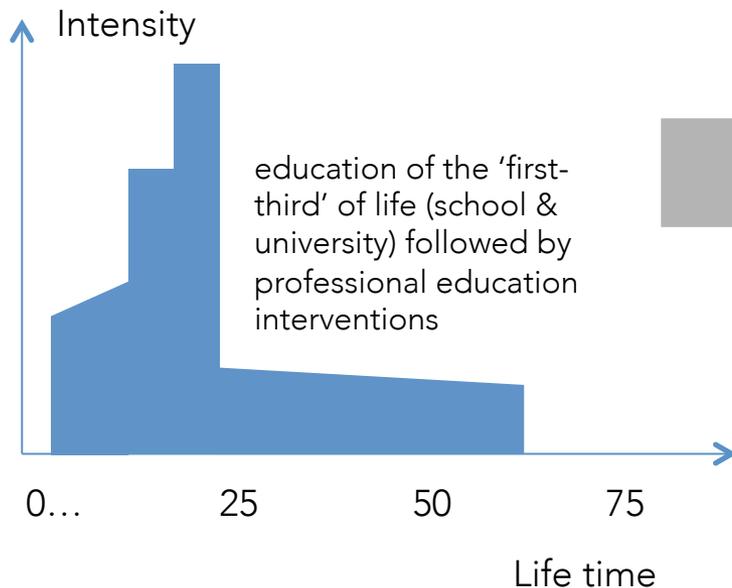
# Defining Education

**We see education as an institutionalized process of individual development support from birth to death. Formalized educational institutions are responsible for only a fraction of this process.**

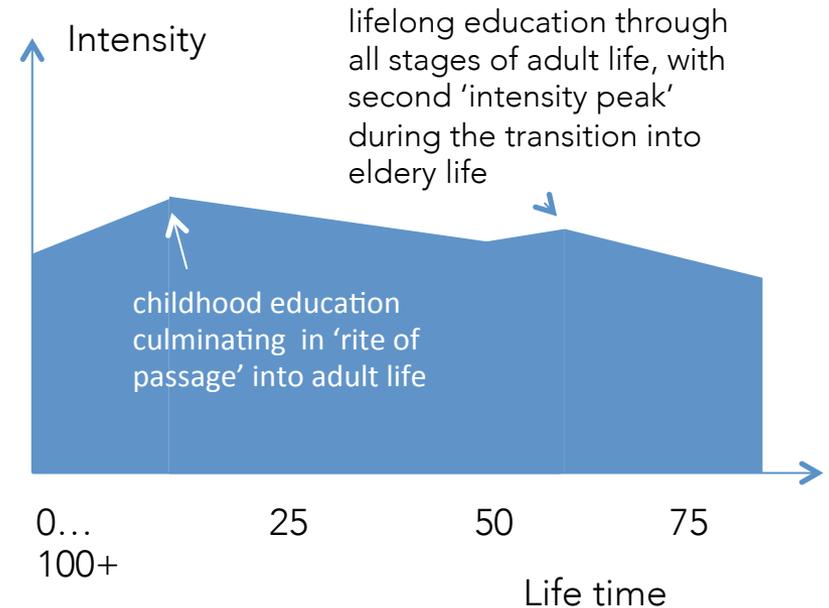


# Education in human life cycle: from sprinting to marathons

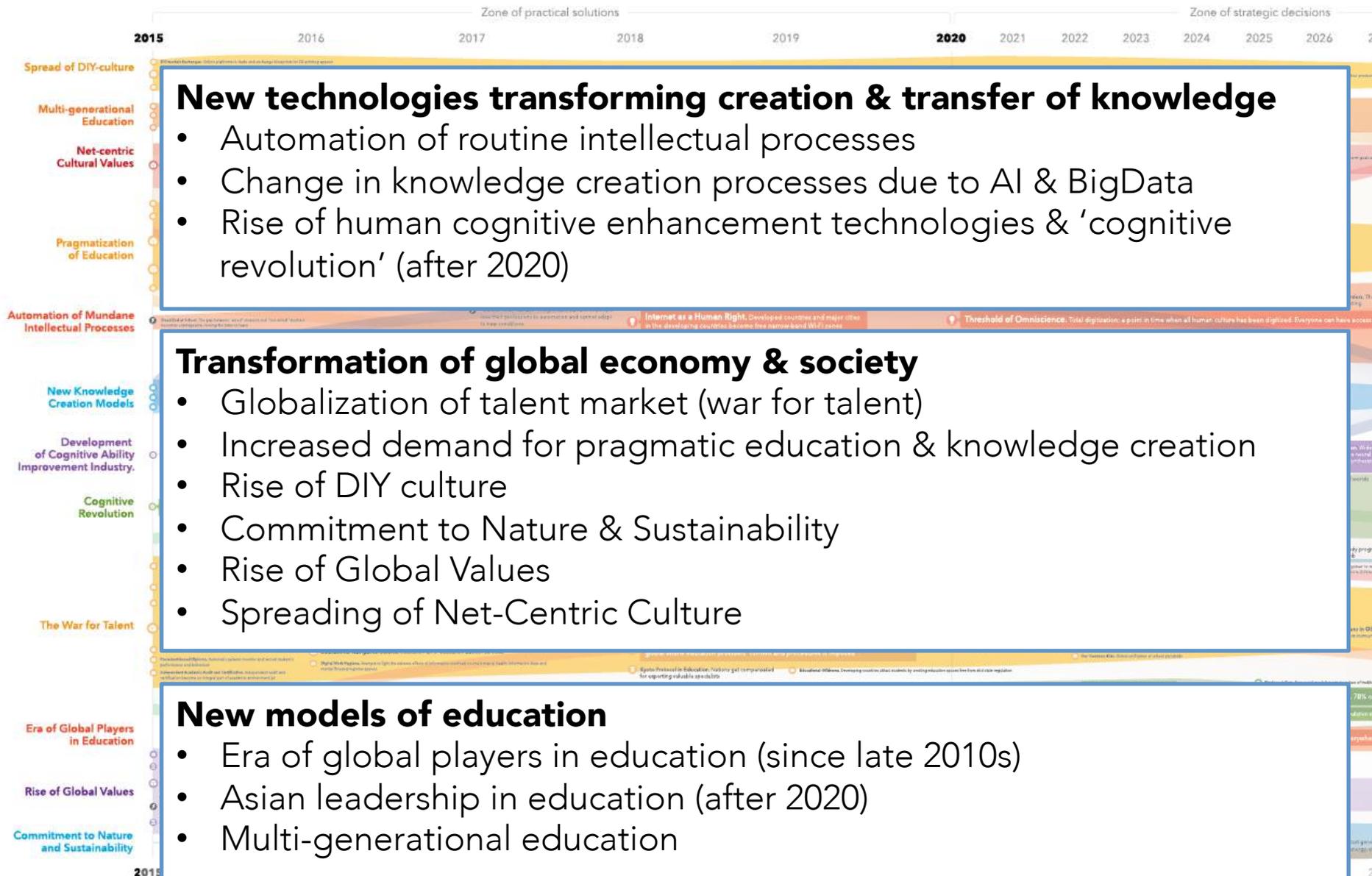
## Education 2015



## Education 2035



# Key groups of trends shaping future of education



# Key transformations that will unfold in next 20 years



## Global Education 2015–2035

Zone of practical solutions      Zone of strategic decisions

**Globalization:** development of Global Learning Platforms

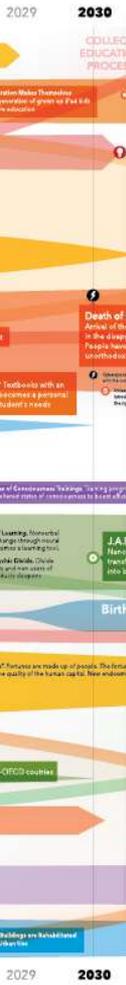
**Personalization:** transition to mass-scale personalized life-long learning

**Collective learning:** rise of communities as a dominant education form

**Ludic learning:** game as a dominant form of education & work

**New model** of knowledge creation and new players defining 'worldview'

**NeuroWeb** as a totality of communication with smart ambience:  
from wearable gadgets to connected brains



# New Education Landscape

in 3-5 yrs

- MOOCs integrated by educational trajectories
- Academic grades give way to achievement recognition & competency passports
- New models of direct talent investment and other financial / insurance tools in education (for learners & investors)

in 7-10 yrs

- The first 'Billion-Student University'
- Mentor networks and artificial tutors
- Mass market solutions for full-scale education without ever entering school or university
- Major role of gaming environments and augmented reality
- Objectivation of education process via biometry / neurointerfaces

in 15-20 yrs

- Game and teamwork are predominate forms of education and social interactions
- Artificial intelligence as a mentor ("Diamond Age Primer") and a partner in research
- 'Live knowledge' models and the death of Gutenberg Galaxy
- Education in NeuroWeb-linked groups and new pedagogy

# Obsolescence of Formats

Following existing educational formats will be largely recognized in developed countries as ineffective or obsolete given the availability of feasible alternatives

by 2017

- 'Human phonograph' industrial teaching based on standard textbooks & tests (replaced by ICT based solutions)
- Standardized tests (complemented & replaced by tests more focused on unique & creative abilities)
- Semester grades (replaced by continuous result recording)

by 2025

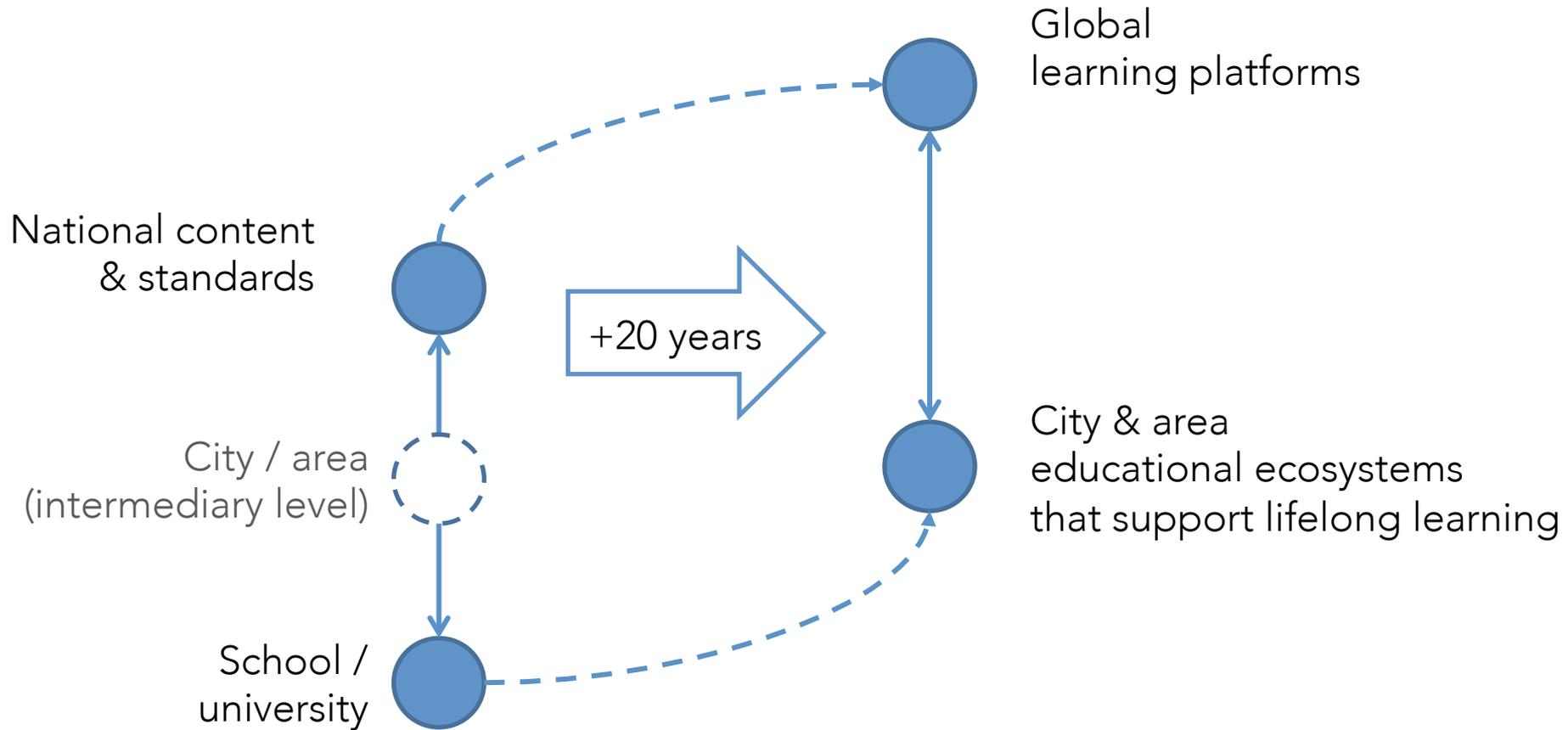
- Graduation diplomas (replaced by life-long competency diploma)
- Academic journals (replaced by researcher communication networks), citation indexing standards & IPR management system (replaced by comprehensive digital KM ontologies)
- Single-author textbooks
- Altered states of consciousness as a social deviation

by 2035

- Comprehensive schools
- Research universities
- Texts (books & articles) as a predominant medium of knowledge-based communication



# Transition towards global educational ecosystem





# Architecture of global educational ecosystem



## Global learning platforms (GLPs)

- Many niche players integrated by major providers (kind of Google / Facebook / Apple in education) that support (standard) individual learning (& career) trajectories
- Content combines more standard 'lectures' & 'tasks' with simulators and game universes (like World of Warcraft)
- 'Digital pedagogy' era (supported by shared learners' data)
- Meta-platform built on the principles defined by 'Declaration of Learners Rights'



## 'Meta-city'

- Global corporations with shared practices
- International movements (e.g. Slow Food or Rotary)
- Educational franchises, incl. social change platforms (e.g. Impact Hub, Techstars, ...)
- International art projects



## City / area educational ecosystem

- Local educational providers are integrated into personalized learning 'pathways' (that may also be physical pathways)
- Any urban public space can become educational: e.g. Starbucks Agoras
- Points of connection with GLPs

# Important recurring themes of CA session



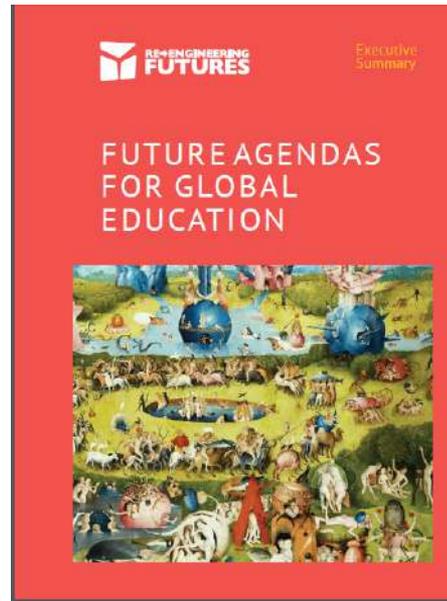
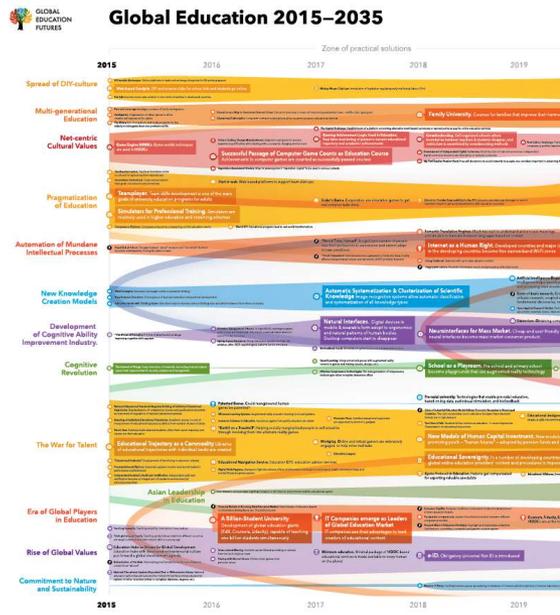
1. 'Technologies for people – not people for technologies': future educational systems cannot be built with new technological architecture alone (as it happened with Internet search, social media interaction, or personalized helpers like Siri). It should also consider
  - Values & principles defined by the 'Declaration of Learner Rights' (incl. the principle of primacy of learner demands & interests)
  - Social design of new education based on systemic pedagogical & psychological research (incl. 'digital pedagogy')
2. If the transition to true life long learning happens:
  - The objective of education should not be 'acquisition of skills & knowledge', but support to life long human development (transition from competencies to meta-competencies, and from meta-competencies to existential competencies)
  - Educational should become integral, i.e. it should help develop not only our cognitive abilities and 'knowledge base', but also our bodies, our social & emotional intelligence – and this development should be supported by various educational technologies
  - Quality of learning process and related human feelings, such as love, joy, trust, and acceptance, - should be placed at the heart of educational processes.
3. Community (of practitioners driven by shared values) becomes a central space in knowledge acquisition and knowledge creation (that in the future become elements of the same process)

# More details in ...

## Education Futures 2035 Map

## Global Education Futures Report

## GEF Infographics



Can be downloaded at [www.edu2035.org](http://www.edu2035.org)