What qualifies me to be here?

Europe’s Female Angel Investor 2019 by BAE
Entrepreneur of the Year 2017 by EBAN
Integral Investor since 1994
Inventor of Theta Model in Investing – 6.8x ROI
Intl. Full Member Club of Rome
WAAS Fellow
Studied AI at Stanford & KIT (Dipl.-Inform.) &
PhD in Psychology
My intentions today

1. What is the context of operation?
2. What is the key to transformation?
3. What is the role of future education?
The Context: Major Existential Threats & Opportunities

1. Climate change
2. Tech singularity: Exponentially growing technologies
   - Artificial Intelligence
   - Bio technology
   - Nano/synthetic technology
   - Post humanism
3. AI-driven nuclear proliferation
We got It
The earth is warming much faster than expected and we are on track to reaching 3°C rather than stay below 2°C as per the Paris Agreement

Now what?
2015 Ratification: Paris Accord & Agenda 2030

BUT HOW DO WE IMPLEMENT THEM?
“What we’re doing is too little and too late”
Jørgen Randers, co-author Limits to Growth
“Tomorrow’s speed of change will make today look like we’re crawling”
Peter Diamandis
Das Internet wächst exponentiell

Zuwächse über 12-Monatszeitraum
Source: Internet online statistics, 1/96

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The driving force behind techno-singularity

Exponential growth vs. linear growth

Zone of disruptive stress or opportunity

Zone of deceptively slow growth
Law of Accelerated Returns (Ray Kurzweil)
The 6Ds of tech singularity

Digitalization
Deception
Disruption
Dematerialization
Demonetization
Democratization
Transformation is Feasible!

How to achieve the Sustainable Development Goals within Planetary Boundaries

A report to the Club of Rome, for its 50 years anniversary 17 October 2018
BUT: UN SDG fulfillment is possible ONLY within Planetary Boundaries

Source: Courtesy of Johan Rockström (2018)
BUT: SDG fulfillment is possible ONLY within Planetary Boundaries

Source: Courtesy of Johan Rockström (2018)
The whole world 1980–2015

Source: Courtesy of Johan Rockström (2018)
How far will we get with *Business as Usual*?

Source: Courtesy of Johan Rockström (2018)
Can we do it with *Faster* growth?

Source: Courtesy of Johan Rockström (2018)
Can we do it by working **Harder** on all fronts?

Source: Courtesy of Johan Rockström (2018)
We can do it SMARTER with 5 transformative actions

Source: Courtesy of Johan Rockström (2018)
Five transformational policies that work

1. Accelerated renewable energy growth:
   • halving emissions every decade from 2030 on
2. Accelerated productivity in food chains:
   • +1% p.a. better productivity
3. New development models in developing countries:
   • copying features of S-Korea, Chinese, Ethiopian successes
4. Active inequality reduction:
   • ensuring 10% richest < 40% of income
5. Investment in education, gender equality, family planning, health stabilizing the world population
   • improving well-being but with reduced ecological footprint

My intentions today

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KEY: The Great Mindshift to a world-centric view

Education must support the great mindshift

Source: Courtesy of Johan Rockström (2018)
Mind shift is hard work: Maslow’s Pyramid of Needs

Source: AQAL Capital

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A Personal Contribution: Integral Investing

INTEGRAL INVESTING
Implementing all UN SDG within Planetary Boundaries

“FINANCIAL FIRST” IMPACT INVESTING
Optimize financial returns while maintaining an impact floor

“IMPACT FIRST” IMPACT INVESTING
Optimize social environmental impact while maintaining a financial floor

TRADITIONAL INVESTING

FINANCIAL RETURNS

HIGH

LOW

SOCIAL, ENVIRONMENTAL, ETHICAL, CULTURAL, & HAPPINESS IMPACT

HIGH

LOW

Profit Floor

Impact Floor
My intentions today

1. What is the context of operation?
2. What is the key to transformation?
3. What is the role of future education?
“Humanity is a biological bootloader for digital superintelligence” Elon Musk
Summary: Call to educators

10 Years left: SMART Transformation Feasible
Implement integrated education, not just cognitive
H. Gardner: 9 types of intelligence*
Drive the great mind shift to later stages of consciousness
Do not underestimate exponential tech
Support Beneficial AI development:
AIs will be as evolved as we are - but only in the beginning

H. Gardner (2004) linguistic intelligence, musical intelligence, special intelligence, bodily-kinesthetic intelligence, naturalist intelligence, interpersonal and intrapersonal intelligence, and existential intelligence
If not us, who?
If not now, when?