WHAT IS YOUR MOST PRECIOUS BELONGING, ASSET OR EVEN COMMODITY?
Anxiety, depression & suicides among young people rising globally

Intolerance & violent extremism growing

Global wicked problems such as climate change & migration increasing

Cost of Education increasing exponentially & now a private good & no longer a social good
EDUCATION SYSTEMS: REGIMENTED & INSTRUMENTALIST BY NATURE

- ROTE MEMORIZATION
- ONE SIZE FITS ALL
- LISTEN DON'T QUESTION
- TEACHERS KNOW IT ALL
- COMPETITIVE PITCHING AGAINST EACH OTHER
- MATERIAL WEALTH & PROSPERITY A KEY GOAL
- STATIC
FACTS

1. The brain is key to learning

2. The brain is a social brain: There is the rational and the emotional part

3. Neuroplasticity is key for learning

Early Findings: Schools adopting the whole brain approach show promising results in producing emotionally resilient students
WE NEED A NEW APPROACH: ONE BASED ON SCIENCE AND EVIDENCE

WHOLE BRAIN APPROACH TO EDUCATION – FIRING GANDHI NEURONS
ACHIEVING SCALE & PERSONALISED LEARNING

Internet has broken down information barriers

THE DIGITAL REVOLUTION HAS OPENED UP MANY DOORS

Internet allows coordination and connection across learners

Use of multimedia communication options – video, VR, animation, games

AI has the propensity to harvest the collective intelligence of all learners for the benefit of all

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EDUCATION:
PREDATORS TO NURTURES

Prof. Dr. Anantha Duraiappah,
Director, UNESCO MGIEP
SEE YOU @ TECH 2019 IN VIZAG, INDIA

DEC 9 – 11, 2019

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The KEY COMPONENTS IN EDUCATION SECTOR

• THE INTERNET - PUBLIC - NONEXCLUDIBILITY AND NONRIVALARY
• CONTENT – PRIVATE
• AI ALGORITHMS - PRIVATE
• BEHAVIORIAL AND PERSONAL INFORMATION—PRIVATE?
• SUM OF ALL BEHAVIORIAL AND PERSONAL INFORMATION – COLLECTIVE? NONEXCLUDIBILITY AND NONRIVALARY
THE PRESENT SITUATION IN EDUCATION SECTOR

• PRIVATE OWNERSHIP OF CONTENT, PERSONAL, BEHAVIORAL INFORMATION AND AI ALGORITHMS.

• PROBLEM: DEMOCRATIZATION OF INFORMATION IS NOT ACHIEVED. IT IS IN THE HANDS OF THE ENTITY THAT OWNS ALL FOUR COMPONENTS

• ACHIEVING ECONOMIES OF SCALE WILL BE EXPENSIVE
THE KNOWLEDGE COMMONS

• PERSONAL AND BEHAVIORAL INFORMATION IS OWNED BY INDIVIDUALS BUT POOLED INTO A COMMON COLLECTIVE MANAGED BY THE KNOWLEDGE COMMONS (KNOWLEDGE COMMONS IS THE INSTITUTIONAL FRAMEWORK-RULES AND NORMS- THAT MANAGE AND PRODUCE INFORMATION AND DATA)

• THE KNOWLEDGE COMMONS OFFERS THE DATA CLEANING, BIAS REMOVAL AND DATA ACCESS PROTOCOLS.

• ENTITIES WILL NEED TO ACCESS DATA FROM THE COLLECTIVE BASED ON RULES DEFINED BY THE KNOWLEDGE COMMONS.
THE KNOWLEDGE COMMONS

• INCENTIVE FOR COMPANIES TO USE THE COLLECTIVE BECAUSE OF DATA ACCESS AND ACHIEVE ECONOMIES OF SCALE IN COST EFFECTIVE MANNER TOWARDS DEVELOPING THE MOST OPTIMAL OR EFFICIENT AI ALGORITHMS TO ACHIEVE LEARNING OUTCOMES

• THE KNOWLEDGE COMMONS DEMONSTRATES DATA ACCESS AND LEVELS THE PLAYING FIELD BY ENSURING INFORMATION SYMMETRY ACROSS ALL PLAYERS.
Collective.ID USERS

**VERIFIED-IDENTITY HOLDER**

Any individual can join the Collective ecosystem as an Verified Identity Holder. Each Identity holder will possess a unique identity number to which all of their data will be associated and can be used for their identity verification.

**VERIFIED-IDENTITY SEEKER**

Any business which needs an individual's verified identity—but does not want to invest time and money in verifying the identity themselves—can use the Collective ecosystem as verified Identity seekers.

**VERIFIED-IDENTITY PROVIDER**

Institutions or businesses—that engage in the process of verification of identity related information of an individual or a business—qualify to be verified-identity providers.
1. VIS requests VIP to provide particular data about the VIH through the API Gateway.
2. Collective receives a request to push request to VIH.
3. Collective seeks approval from VIH to process this request.
4. VIH reviews the request and pushes the info payload to Collective.
5. Collective validates the info with VBC before accepting it.
6. Collective requests VIP for the data.
7. VIP validates the data and sends it back to Collective through API Gateway.
8. Collective pushes the info payload to VIS to be downloaded before expiry.