Spot the similarities
Addax: Less than 300 left in the wild

Cottontop Tamarin: Estimated wild population 6000

Red ruffed lemur: Threatened by habitat loss, hunting & pet trade

Edwards’s pheasant: Numbering less than 3000

Fossa: Threatened by Habitat destruction

Gorilla: 786 mountain gorillas left in the world

Visayan warty pig: Endangered because of hunting

Javan Rhinoceros: As few as 40 left in the world

Uzungwa red colobus: Threatened by habitat loss

Whooping crane: 400 birds left in the world

Imperial woodpecker: Last spotted in the 20th century

Komodo: About 5,000 surviving dragons

Xantus’s murrelet: Threatened by Oil spill

Malayan Tapir: 1500-2000 as of last count

Yellow crested cockatoo: As few as 2,500 left in the world

Zebra Duiker: 28,000 and diminishing every day

Nile Lechwe: Less than 40,000 in their natural habitat

Proboscis monkey: Threatened by hunting and habitat destruction

Orangutan: No more than 60,000

Source: Nat Geo Wild
1 million
of Earth's 8 million
species face extinction*

80%
of the progress towards SDGs
will be undermined by
current negative trends in
biodiversity and ecosystem
services*

*IPBES 2019
What does it mean to an individual?

Physical and Mental health

Job security

Personal Safety
CONSTITUENTS OF WELL-BEING

Security
- Personal safety
- Secure resource access
- Security from disasters

Basic material for good life
- Adequate livelihoods
- Sufficient nutritious food
- Shelter
- Access to goods

Freedom of choice and action
- Opportunity to be able to achieve what an individual values doing and being

Health
- Strength
- Feeling well
- Access to clean air and water

Good social relations
- Social cohesion
- Mutual respect
- Ability to help others

ECOSYSTEM SERVICES

Provisioning
- Food
- Fresh water
- Wood and fiber
- Fuel
- ...

Supporting
- Nutrient cycling
- Soil formation
- Primary production
- ...

Regulating
- Climate regulation
- Flood regulation
- Disease regulation
- Water purification
- ...

Cultural
- Aesthetic
- Spiritual
- Educational
- Recreational
- ...

LIFE ON EARTH - BIODIVERSITY

Source: Millennium Ecosystem Assessment

ARROW'S COLOR
Potential for mediation by socioeconomic factors
- Low
- Medium
- High

ARROW'S WIDTH
Intensity of linkages between ecosystem services and human well-being
- Weak
- Medium
- Strong
If we know what’s wrong, why do we still do it, humans?
The rational brain

The emotional brain
Critical Inquiry

The Rational Brain

Pre-frontal cortex
Attention regulation + Sensory Motor Skills

The Emotional Brain
We need to train the brain to tease out those empathy neurons to motivate behavioural change.

Social & Emotional Learning (Empathy, Compassion, Mindfulness – EMC)

At MGIEP, we call it “Firing the Gandhi Neurons”
We are confronted with competing choices. Rationality says what we must do. But yet, we don't do it.
Conditions of stress

Continuous fight within oneself

Perpetual downward spiral continues
How do we break it?
Negative trends in nature will continue to 2050 and beyond in all of the policy scenarios, except those that include transformative change*

*IPBES 2019
Is Education the solution?

Competitive predatory behaviour

Zero sum game if assessment
A newer form of education is required. One that requires Emotional Intelligence.
The Libre Process
Takeaways

Trade-offs and cognitive dissonance is the grounded reality

**Emotional Intelligence** is critical to navigate the dissonance

Our education systems have to be transformed to develop emotional intelligence using a **whole brain approach**
Call to action

Mainstreaming SEL education

Consolidate ESD, GCED, PE, HRE, STEAM etc. into an education for human flourishing.
Our end goal is Human flourishing which leads to sustainable and peaceful societies.
The inconvenient demands: Managing our cognitive dissonances

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SEE YOU @ TECH 2019 IN VIZAG, INDIA
DEC 10 – 12, 2019

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