



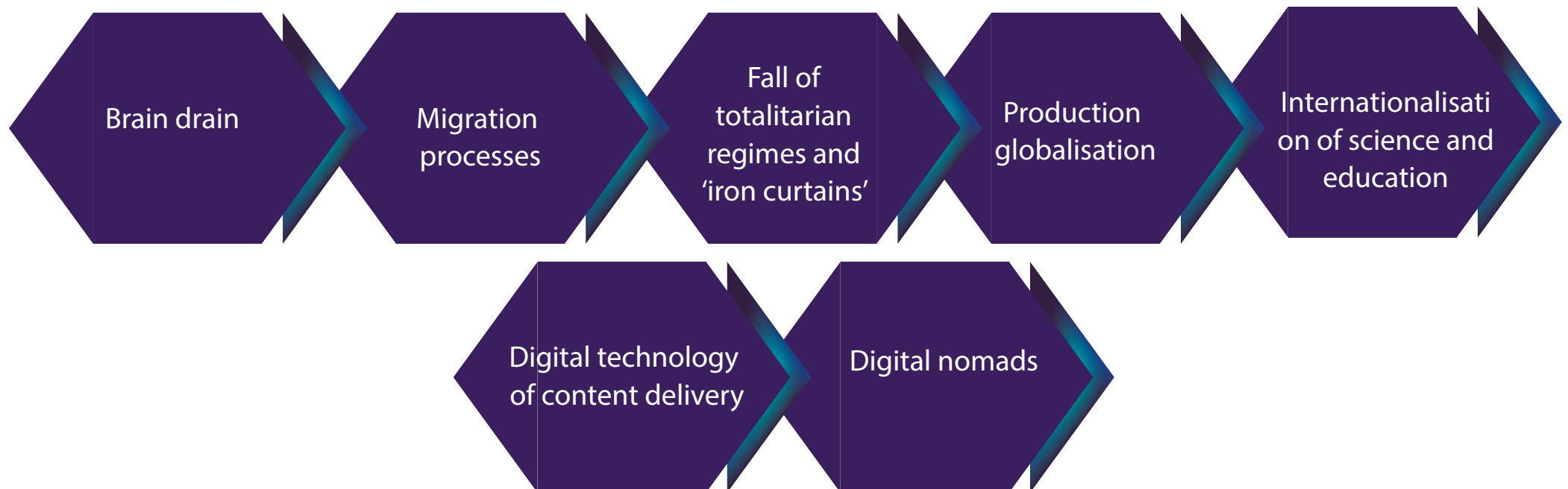
State University of Management  
Founded in 1919

# The Society of Digital Equality

**THE LOCK-IN EFFECT OF THE REPRODUCTION  
OF THE INTELLECTUAL CAPITAL**



# THE LOCK-IN EFFECT OF THE REPRODUCTION OF THE INTELLECTUAL CAPITAL Basis





# INTELLECTUAL CAPITAL Postulates

Carriers and  
creators  
are individuals

A nation's  
intellectual capital is  
the sum of its  
individual  
intellectual  
capacities

Ownership  
right

The principle of  
equality has  
been violated

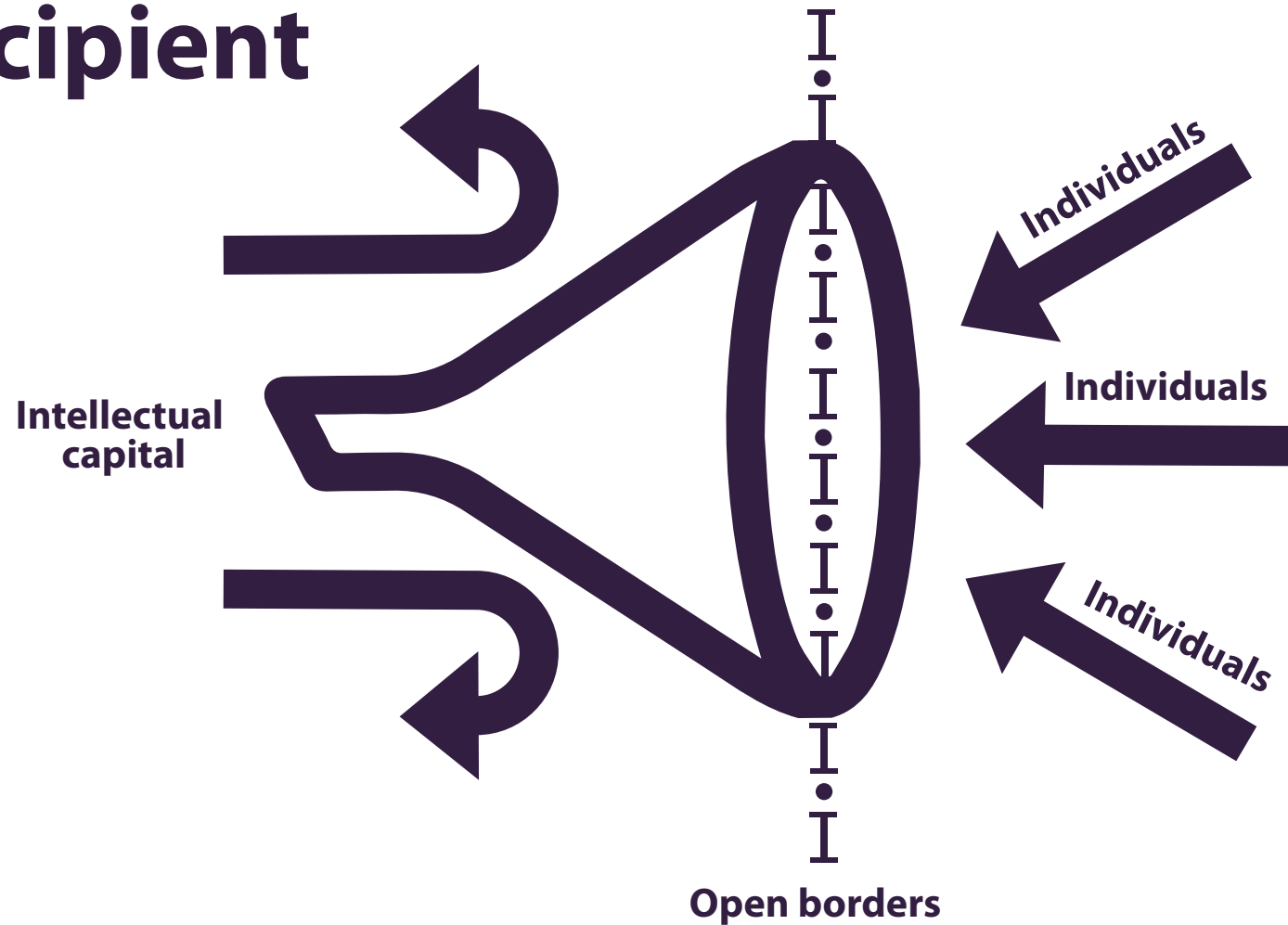
Migration of  
individuals



## Lock-In Effect: a One-Sided Funnel (Valve)

**Recipient**

**Donor**







# Ways Out of the Trap

## Spontaneous:



Prohibit the migration of individual intellectual capital



Borrow technologies illegally

## UNESCO and UN:



Develop a mechanism of acknowledging certain information technologies and educational resources as belonging to the whole of humanity



# Paper vs Digital



**Physical media**



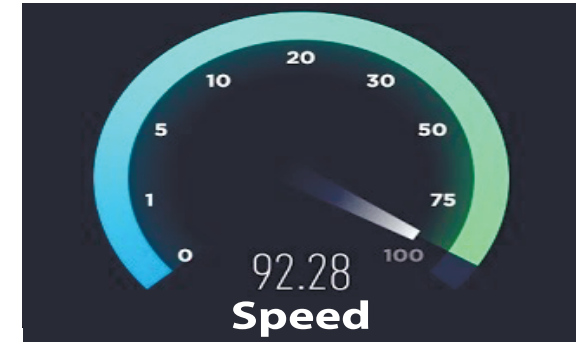
**Catalogue issue**



**Copy and past**



**Homo Sapiens Sapiens**



**High speed of information transfer**



**Formation of large data amounts**



**Large amount of information**



# The Fourth Industrial Revolution



Intellectual filter

Responsiveness

Digital  
segregation  
of accessibility  
of education

New indicators





# HUMAN DEVELOPMENT INDEX



$$1. \text{ Life Expectancy Index (LEI)} = \frac{LE - 20}{85 - 20}$$

$$2. \text{ Education Index (EI)} = \frac{MYSI + EYSI}{2}$$

$$\blacksquare \text{ Mean Years of Schooling Index (MYSI)} = \frac{MYS}{15}$$

$$\blacksquare \text{ Expected Years of Schooling Index (EYSI)} = \frac{EYS}{18}$$

$$3. \text{ Income Index (II)} = \frac{\ln(\text{GNIpc}) - \ln(100)}{\ln(75000) - \ln(100)}$$

The HDI is **the geometric average** of the three indices:

$$\text{HDI} = \sqrt[3]{LEI \times EI \times II}$$

LE — Life Expectancy

MYS — Mean Years of Schooling

EYS — Expected Years of Schooling

GNIpc — **Gross National Income** per capita according to the **purchasing power parity in US dollars**

## EDUCATION FOR ALL DEVELOPMENT INDEX

WIKIPEDIA  
Free encyclopaedia

English  
5,860,000+ articles

日本語  
1,152,000 + 記事

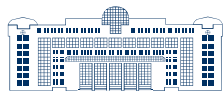
Français  
2,107,000+ articles

中文  
1,058,000 + 條目

Polski  
1,338,000+ haseł



## 金盾工程, The Golden Shield Project– Great Firewall of China



# Digital Segregation of Education Accessibility Index

**Is closely tied  
to the HDI and EDI**

**Takes into account  
university graduates,  
postdoctoral fellows,  
professional academics**

**Considers indicators  
which are statistically  
verifiable and available**



## Open Questions

- **Searching a variety of indicators**
- **Establishing the strength of relationship between indicators**
- **Inequality of indicators**
- **Method of aggregating indicators into an index**



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**Thank you for your attention!**

