



**TOWARDS A MORE  
STATISTICALLY  
LITERATE FUTURE**

# Integrating Official Statistics into Educational Materials, Activities and Programmes

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# High priority for scientific participation and educational activities



- DSc: 4 employees
- PhD: ~50 employees
- 40-50 scientific publications per year
- textbooks for higher education
  
- Teaching in higher education: ~30 employees
- Doctoral school leadership: 1 employee (economics)  
members: 4 employees
- financial support to PhD studies for employees

# Academic life in Statistics Hungary

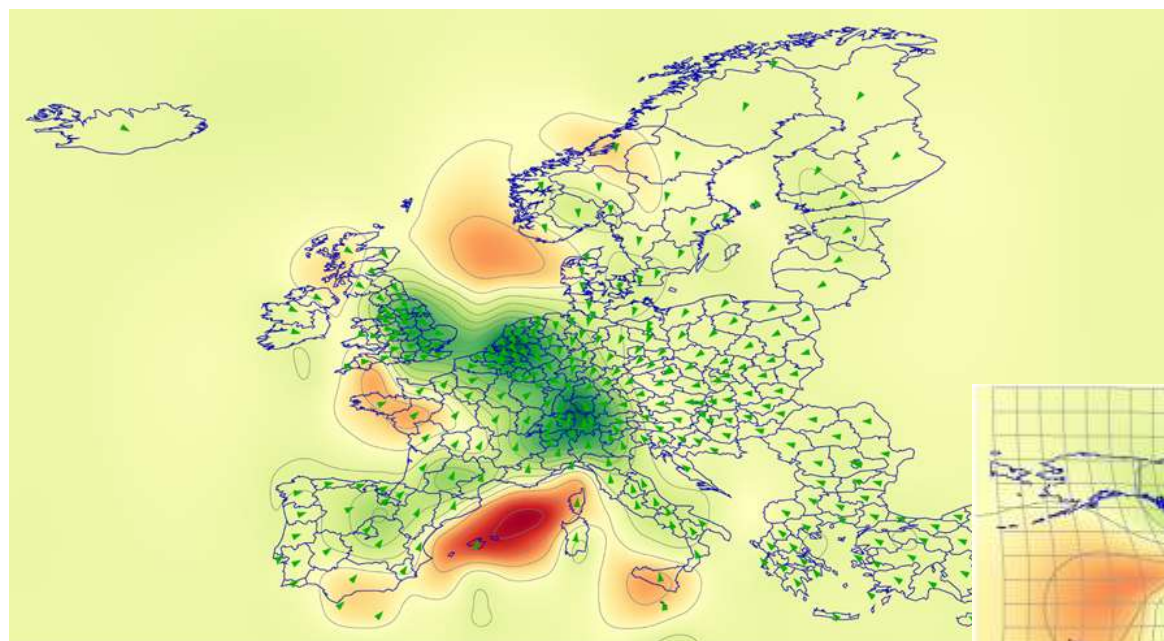


- 6 scientific journal edited by Statistics Hungary (3/6 are Scopus-indexed)
- Research Center: onsite and located (at a university, at Academy) and online for academic users (providing anonymised databases)
- Public Library of Statistics Hungary:
  - full selection of statistical literature
  - educational events



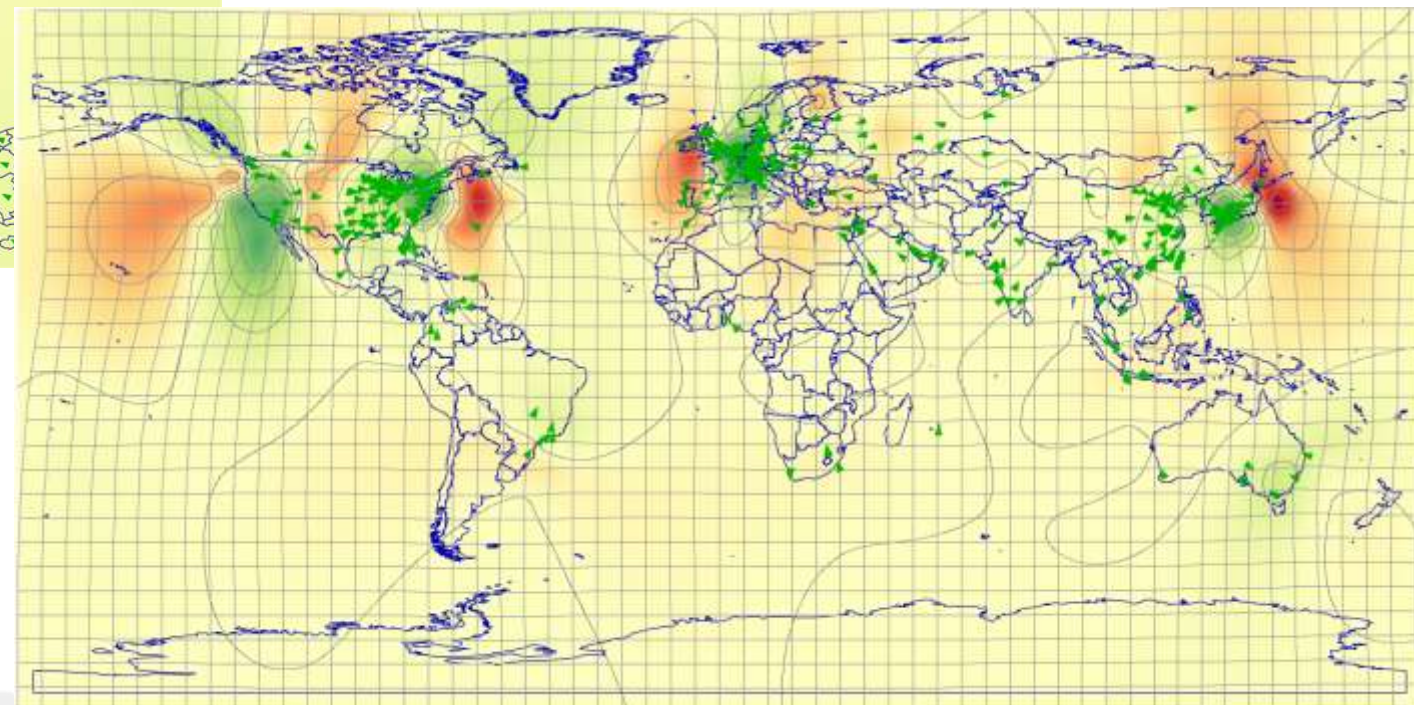


# Snapshots from Regional Statistics journal edited by Statistics Hungary



$$D_{ij}^X = -\frac{W_i \cdot W_j}{d_{ij}^{c+1}} \cdot (x_i - x_j) ;$$

$$D_{ij}^Y = -\frac{W_i \cdot W_j}{d_{ij}^{c+1}} \cdot (y_i - y_j)$$



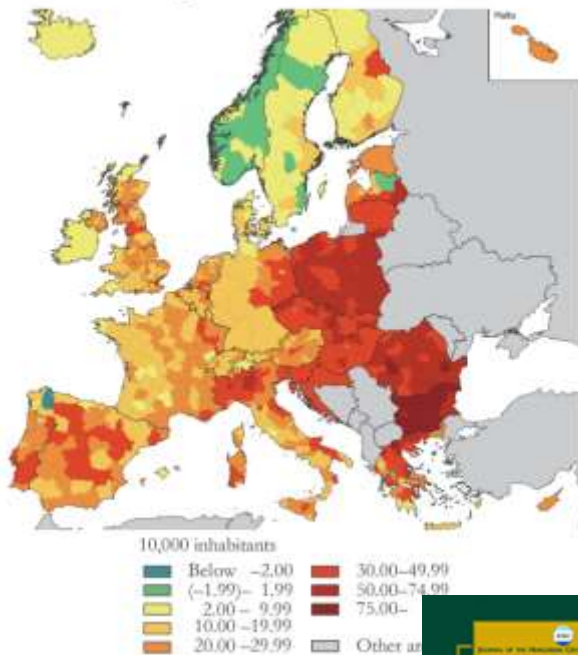
Gravitational model based on 'population force'



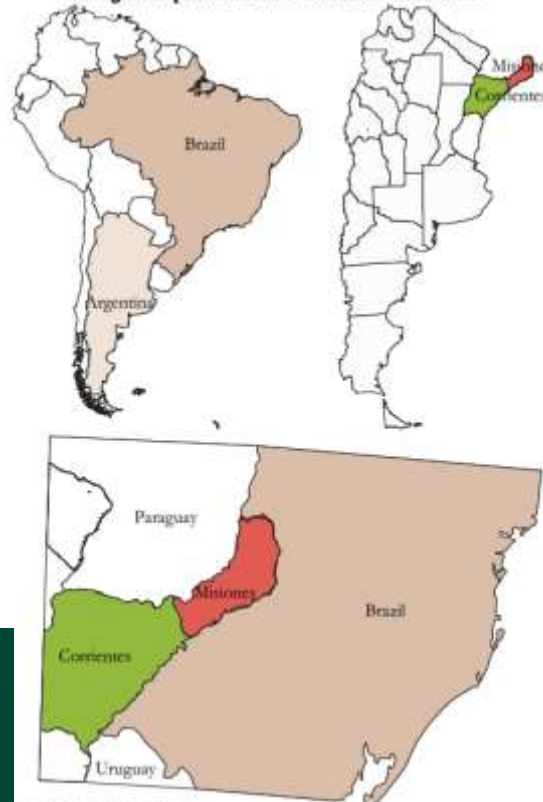
# Snapshots from Regional Statistics journal edited by Statistics Hungary



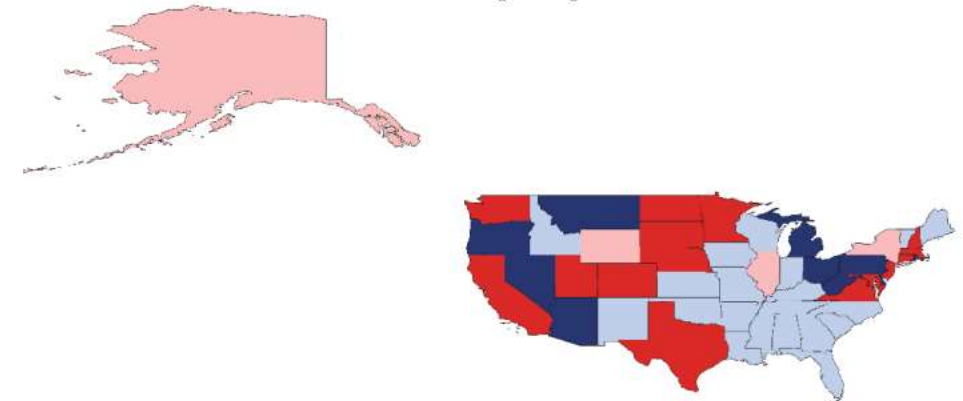
Excess mortality rate since the beginning of the Covid-19 pandemic in Europe until the end of the fourth wave



Argentine provinces and their borders with Brazil



Spatial view of categories based on income growth between 1917 and 2018 and per capita income in 2018



- Higher-than-average per capita fiscal income – faster-than-average growth
- Higher-than-average per capita fiscal income – slower-than-average growth
- Lower-than-average per capita fiscal income – faster-than-average growth
- Lower-than-average per capita fiscal income – slower-than-average growth

Source: The authors, based on the [1].





# Educational activities ... by Statistics Hungary



- "StatAkadémia"
  - for civil servants working in governmental sector
  - wide variety of statistical topics (>40)

*Indicators in evidence-based decision-making*

*Use of administrative data sources in official statistics*

*Spatial data and spatial statistics*

*Data governance, data stewardship*

*Visualisations as sources of information*

- more than 300 participants / year
- 2024: special courses for media and journalists



# Cooperation with the Academy



Hungarian Academy of Sciences (MTA)  
co-organised conferences, events

IX. section / Committee on Statistics

- member since 2020

X. section / Committee on Geography I  
(Social Geography)

- member since 2010
- DSc since 2023



- National Atlas of Hungary







# Educational activities at higher education

- Budapest Business School
  - Department of Statistics hosted by Statistics Hungary
- "Statistical Project Day" by Statistics Hungary
  - 6-8 lectures per day every seminar
  - 300+ students



# Subjects of "Statistical Project Day" by Statistics Hungary



**Felnőttek Képesség- és Kompetenciamérése Program**  
**PIAAC**  
*programme for the international assessment of adult competencies*

2017 38 ország  
 2022 32 ország

OECD  
*Organisation for Economic Co-operation and Development*

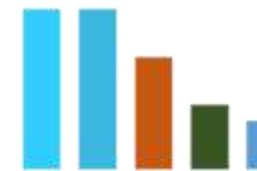
gazdasági Együttműködési és Fejlesztési Szervezet

## Az indikátorrendszer

Valóság

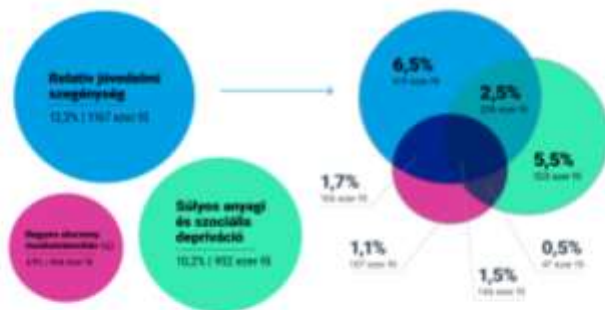
Statisztikai adat

Indikátorrendszer



4,9% 5,4% 5,4% 5,4% 5,4%

## A szegénység vagy társadalmi kirekesztődés kockázatának kitétek száma dimenzióként, 2022 jövedelmi referencia év 2021



AROE: 1 millió 844 ezer fő  
 Magyarország teljes lakosságának 19,3%-a



# Educational activities at higher education



- formal declaration of cooperation (MoU) with 10 universities



- supervising final thesis, research student thesis (10+ students per year)
- co-organized workshops, courses (in-person, online, pre-recorded), events, publications and spill over effect on educational materials



# Educational activities for public education



## "StatWars" Competition

- 2024: 10th StatWar competition
- 200+ groups of pupils from around the country
- national level of European Statistics Competition 2024 (Eurostat)

# Educational activities for public education



“StatMentor”: tutoring for secondary final exam on statistics

- 8 videos on Facebook



# Educational activities for public education



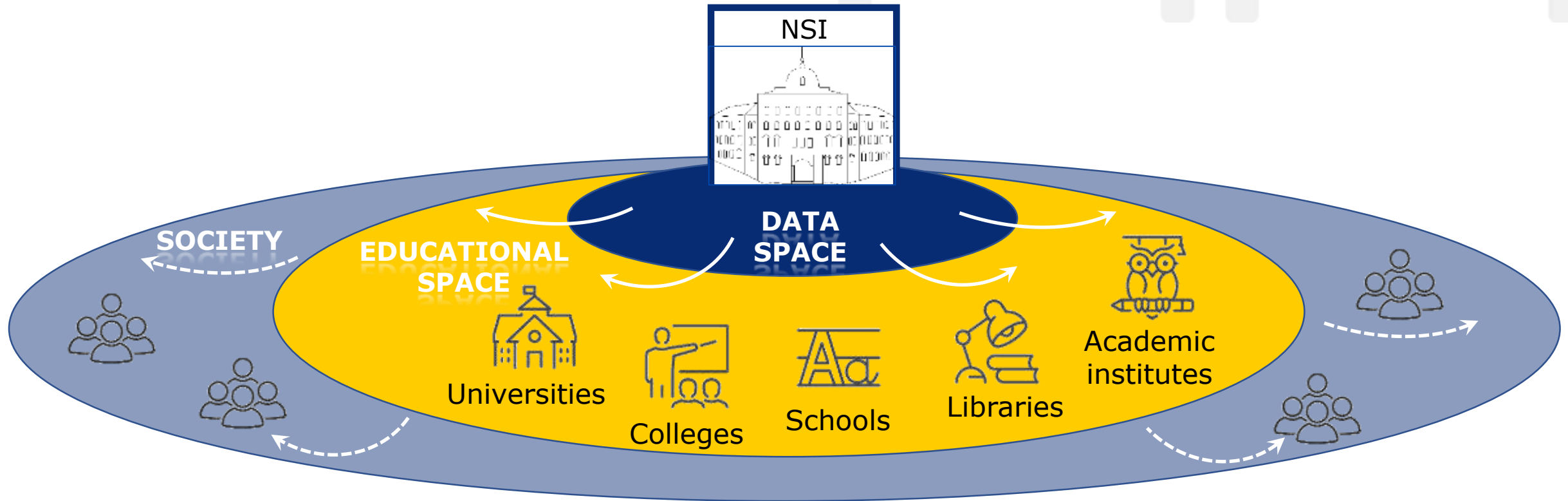
## Social responsibility events:

- Community Service for secondary schools (10-20 students /year)
- Educational visits
- Statistical Palace Building Tour
- Cultural Heritage Day





# Conclusion: Spreading statistical literacy





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# Thank you!

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