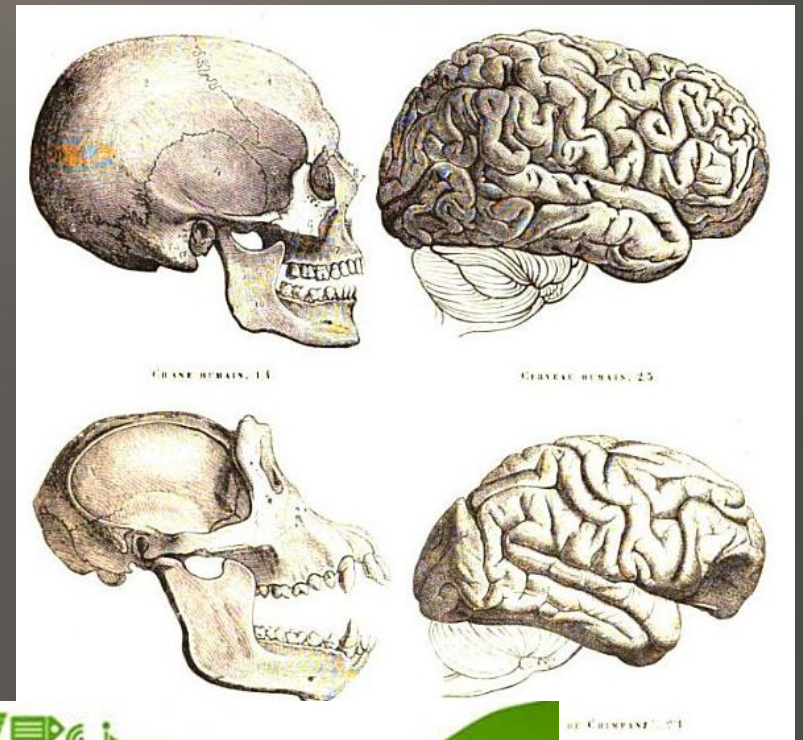




# Homo sapiens: una specie migrante

Guido Barbujani

Jesi, 17 ottobre 2025



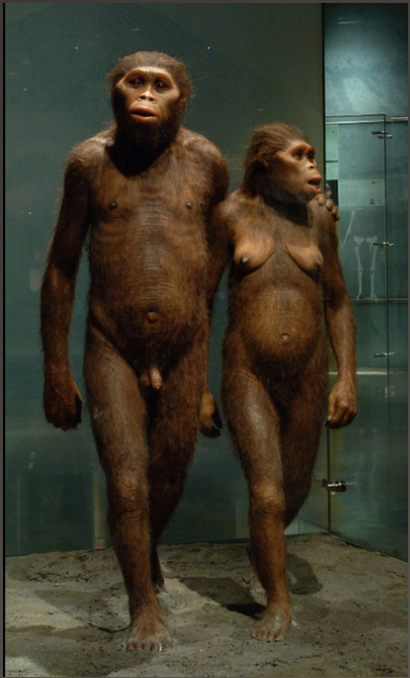
3 milioni e mezzo di anni fa

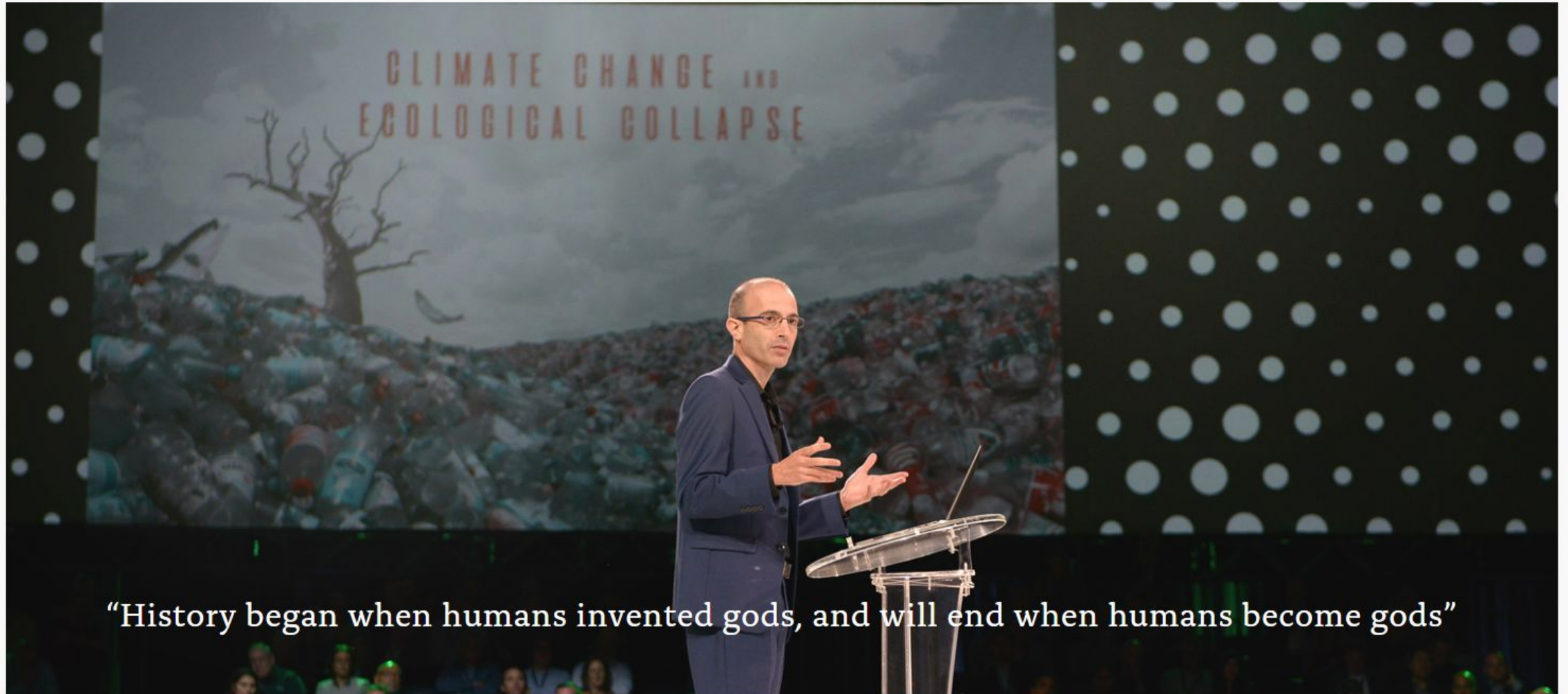


# Quando siamo diventati umani?

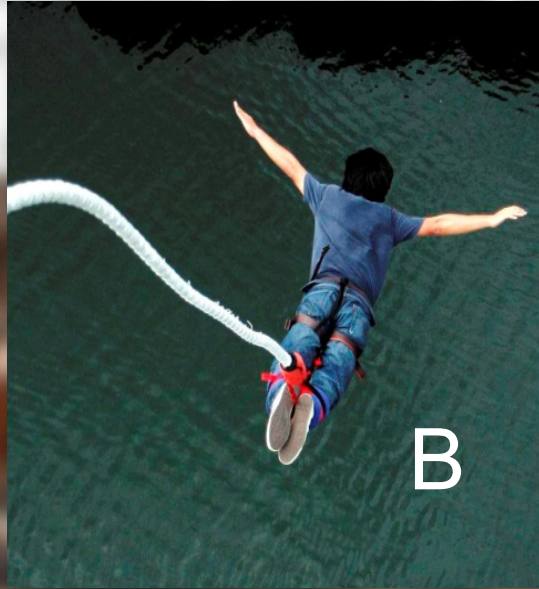
3 milioni e mezzo di anni fa

5400 anni fa



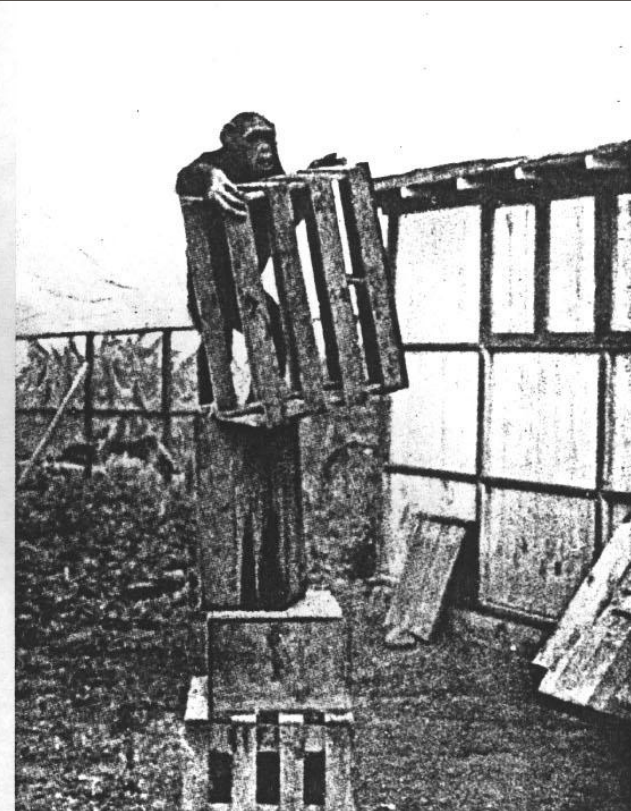


“History began when humans invented gods, and will end when humans become gods”





# Wolfgang Köhler e Sultan



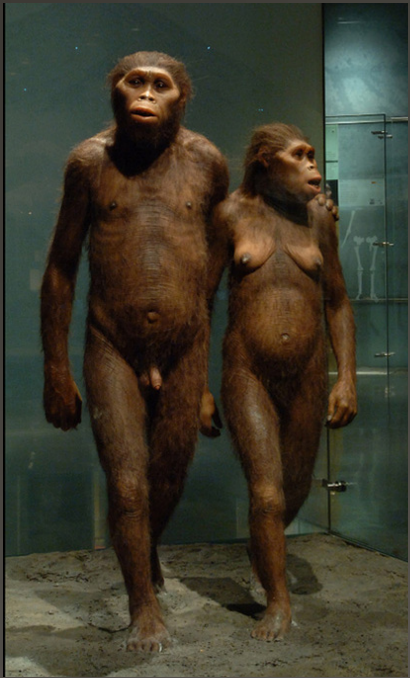
*Homo habilis*

Est Africa, 2,3 milioni di anni fa



# Quando siamo diventati umani?

3,5 milioni  
0,2 milioni



2,2 milioni



0,7 milioni?







# I SPOSI

SECOLO XVII

TTA

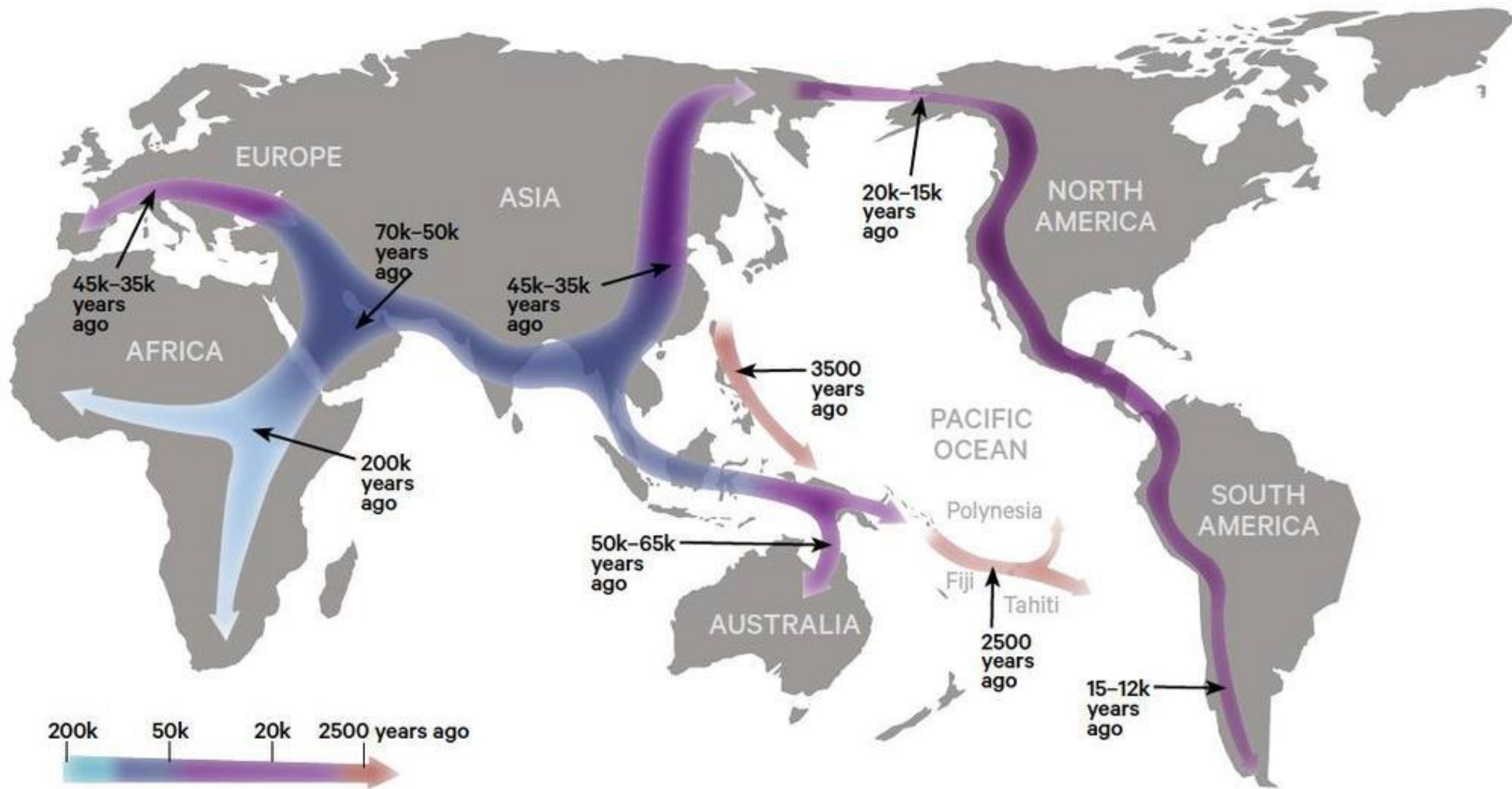
NZONI.

AUTORE

## FAME

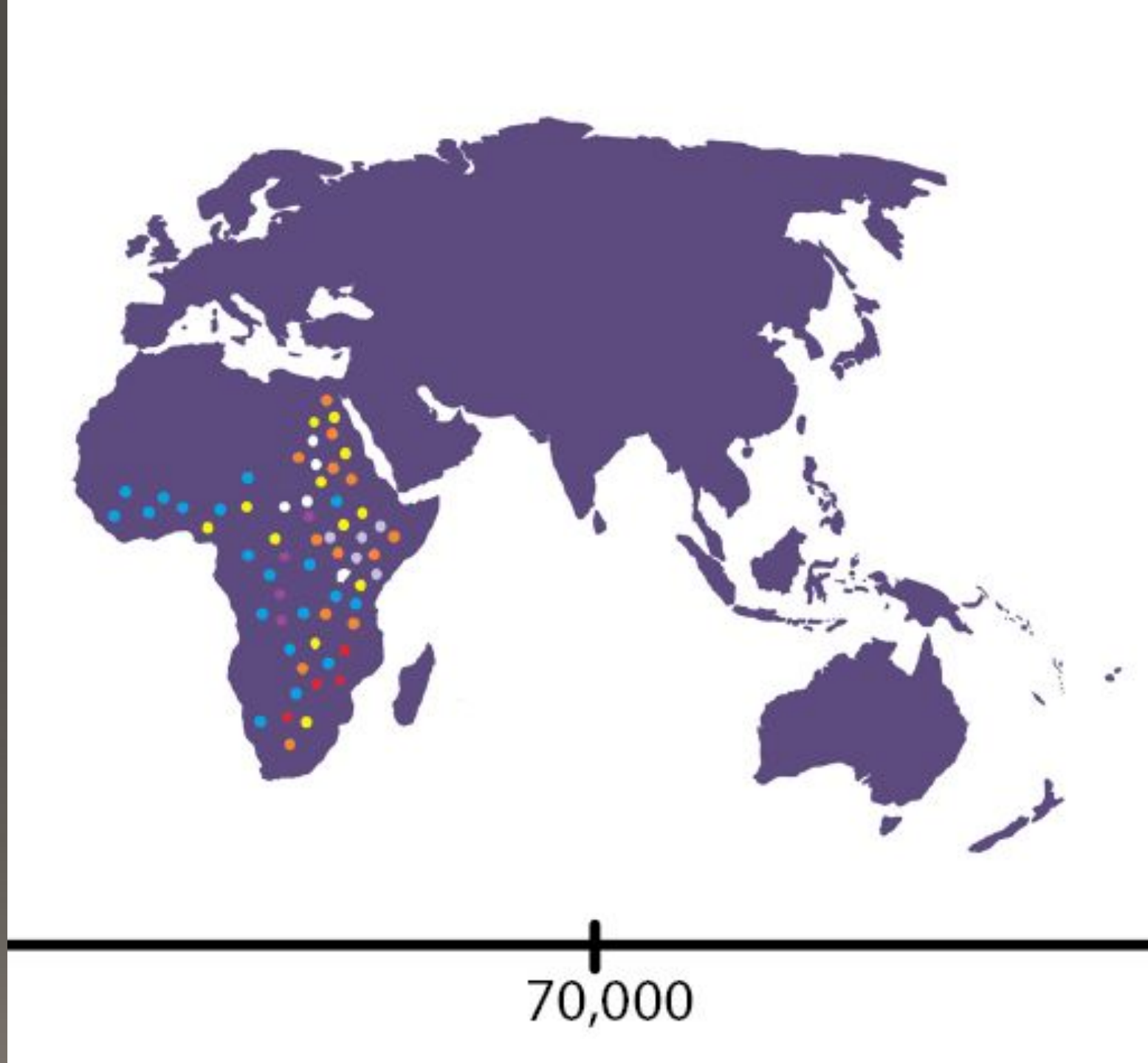


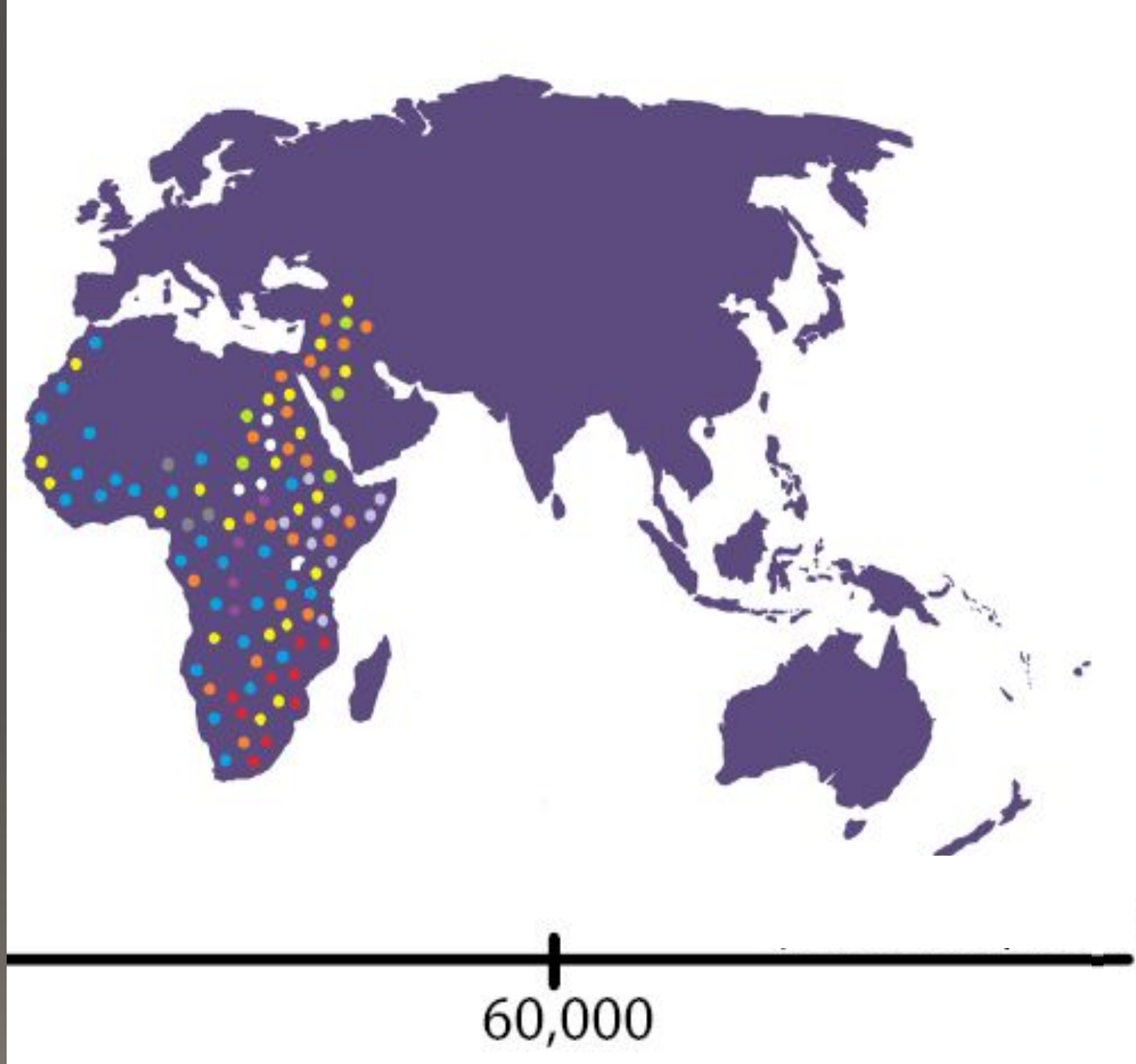
E. REDAELLI.

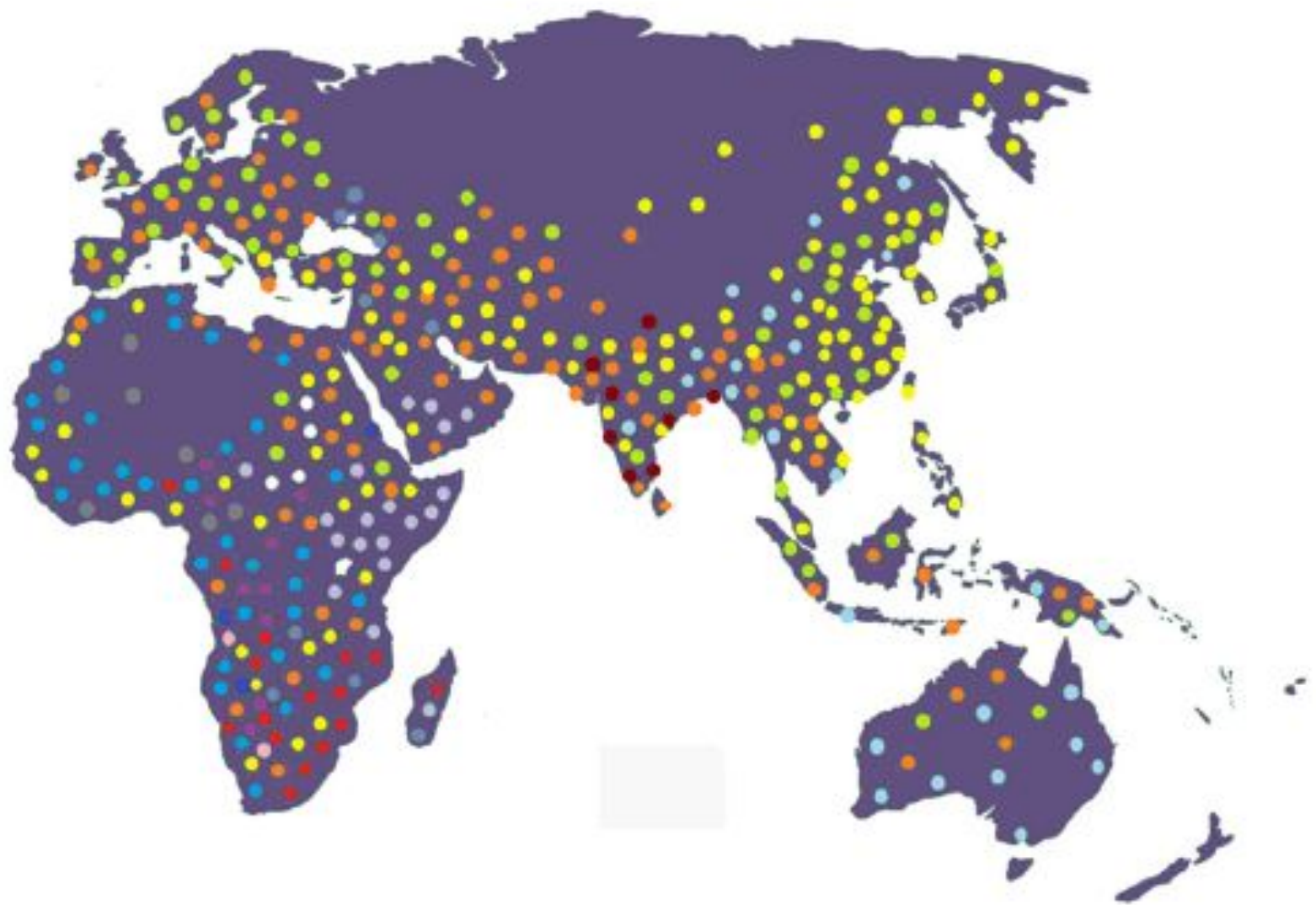




100,000







years before present

10,000

Da 200.000 a 10.000 anni fa



Da 10.000 anni in qua



A photograph of an elderly man with glasses and a dark jacket standing in a courtyard. He is leaning on a stone balustrade. The background features a brick building with a staircase and a stone lion sculpture. The text "L'evento più importante della storia umana" is overlaid on the left side of the image.

**L'evento più importante  
della storia umana**

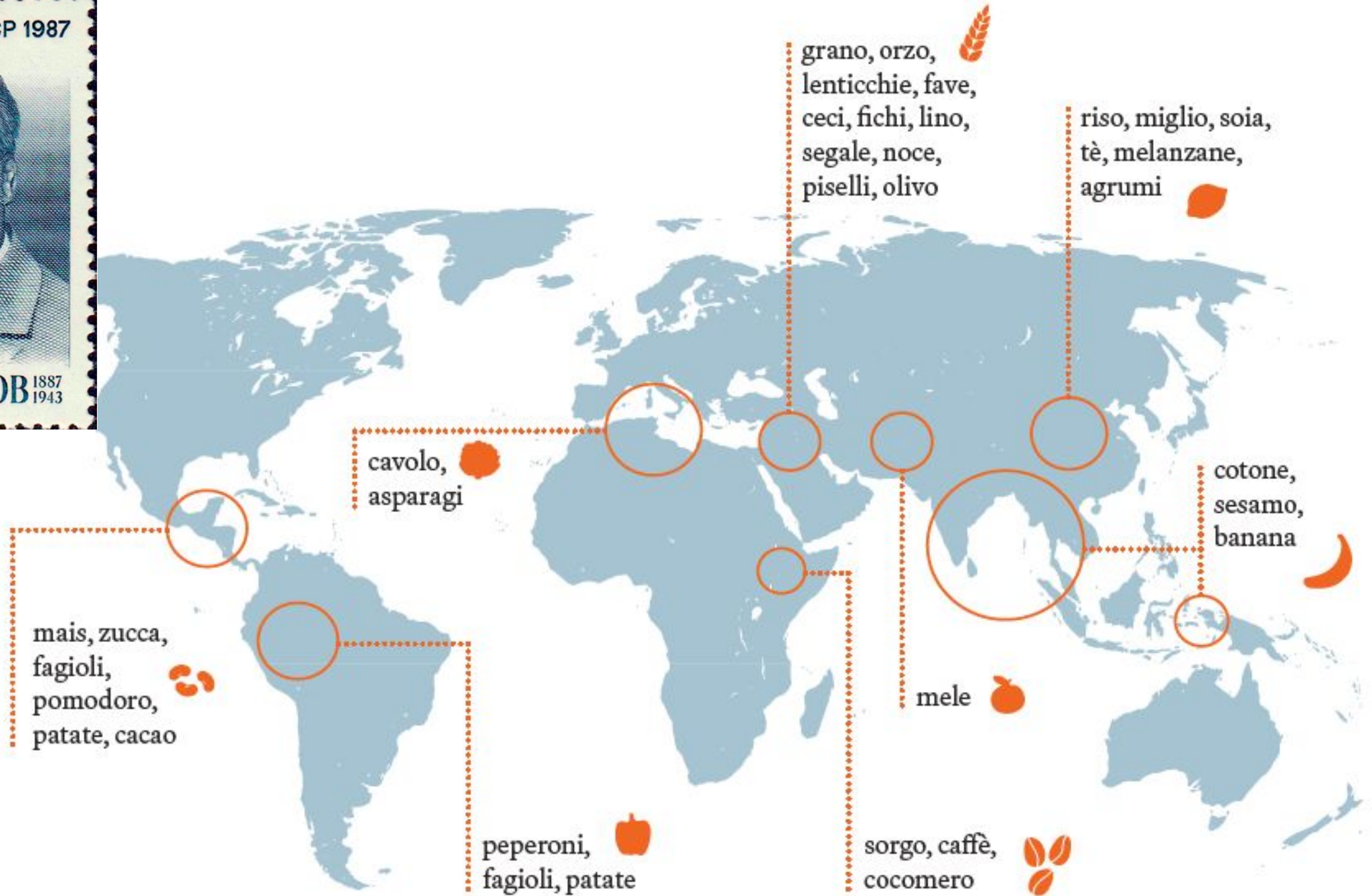
# Çatalhüyük



5<sup>к</sup> ПОЧТА СССР 1987

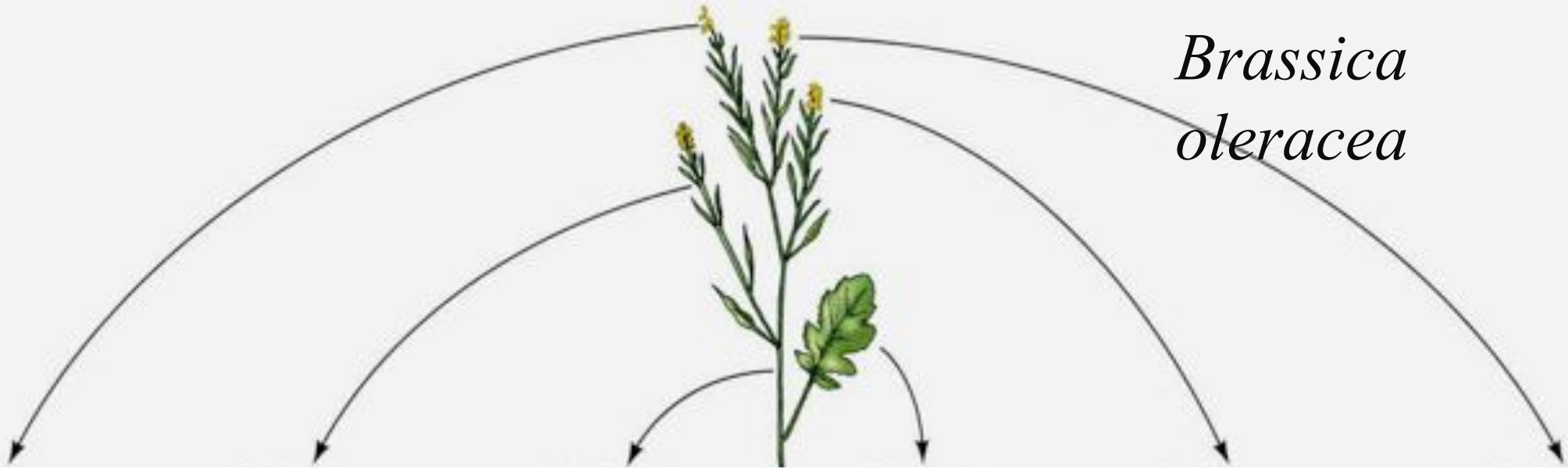


АКАДЕМИК  
Н.И. ВАВИЛОВ 1887  
1943





*Brassica oleracea*



Selezione per gemme terminali

Selezione per gemme laterali

Selezione per fittone grosso

Selezione per foglie grandi

Selezione per gambi e fiori

Selezione per fiori raggruppati



Cavolo  
Cavolfiore

Cavolino

Cavolo rapa

Cavolo nero

Broccoli

capuccio

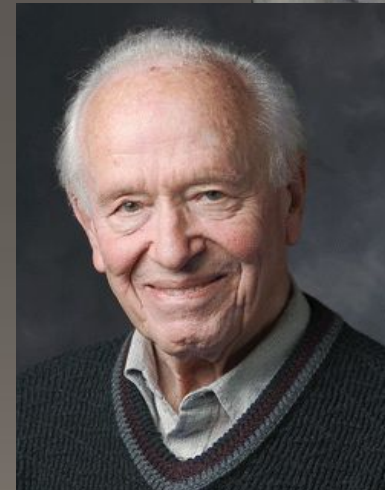
di Bruxelles





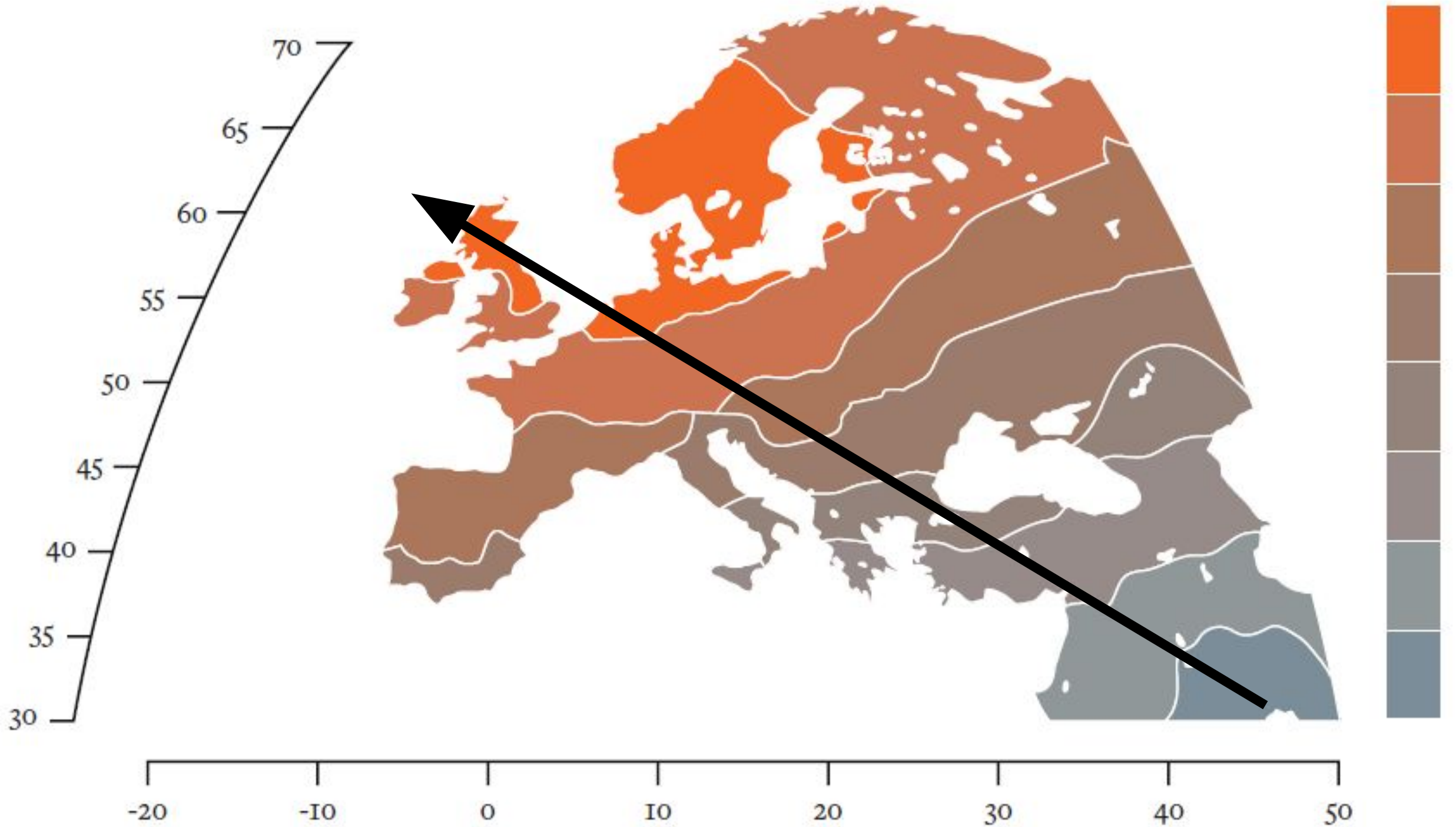


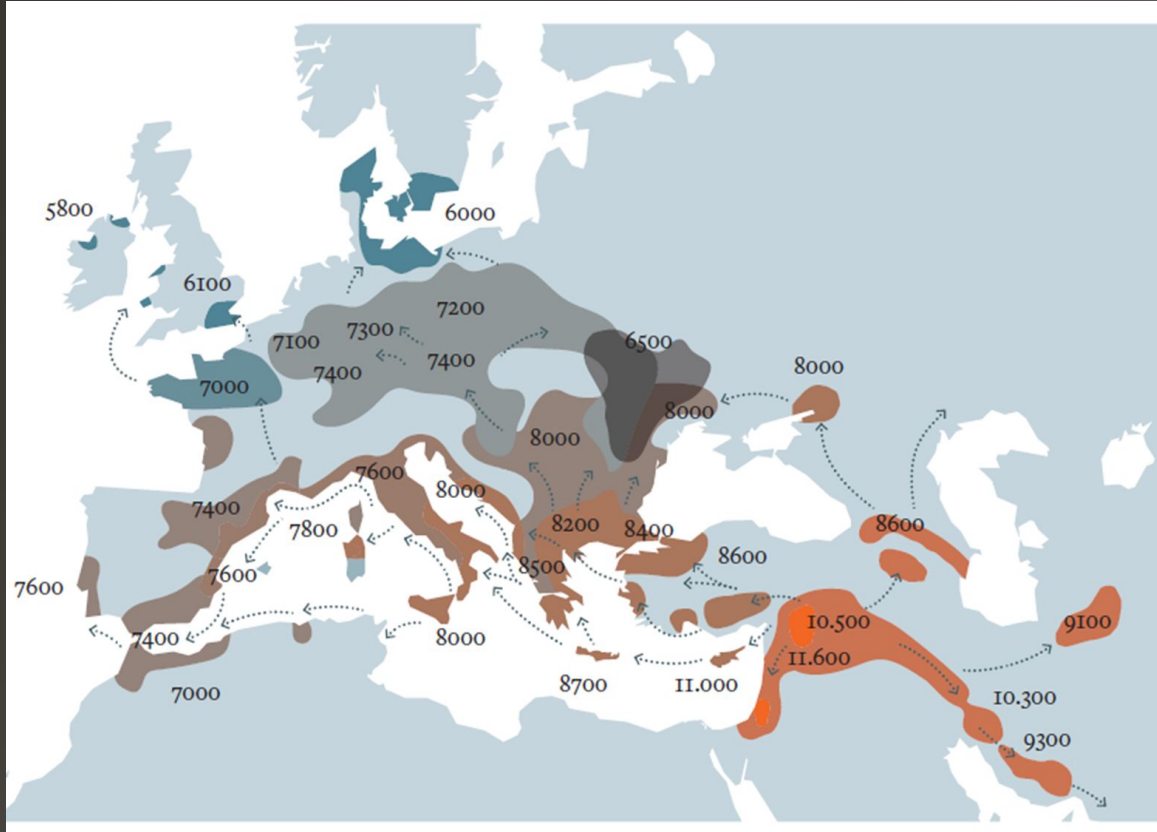
Fig. 1. The first principal component of gene frequencies from 38 independent alleles at the human loci: ABO, Rh, MNS, Le, Fy, Hp, PGMi, HLA-A, and HLA-B. Shades indicate different intensities of the first principal component, which accounts for 27 percent of the total variation



P. Menozzi, A. Piazza & L.L. Cavalli-Sforza (1978)

Science





# Cheddar, Inghilterra, 10.000 anni fa

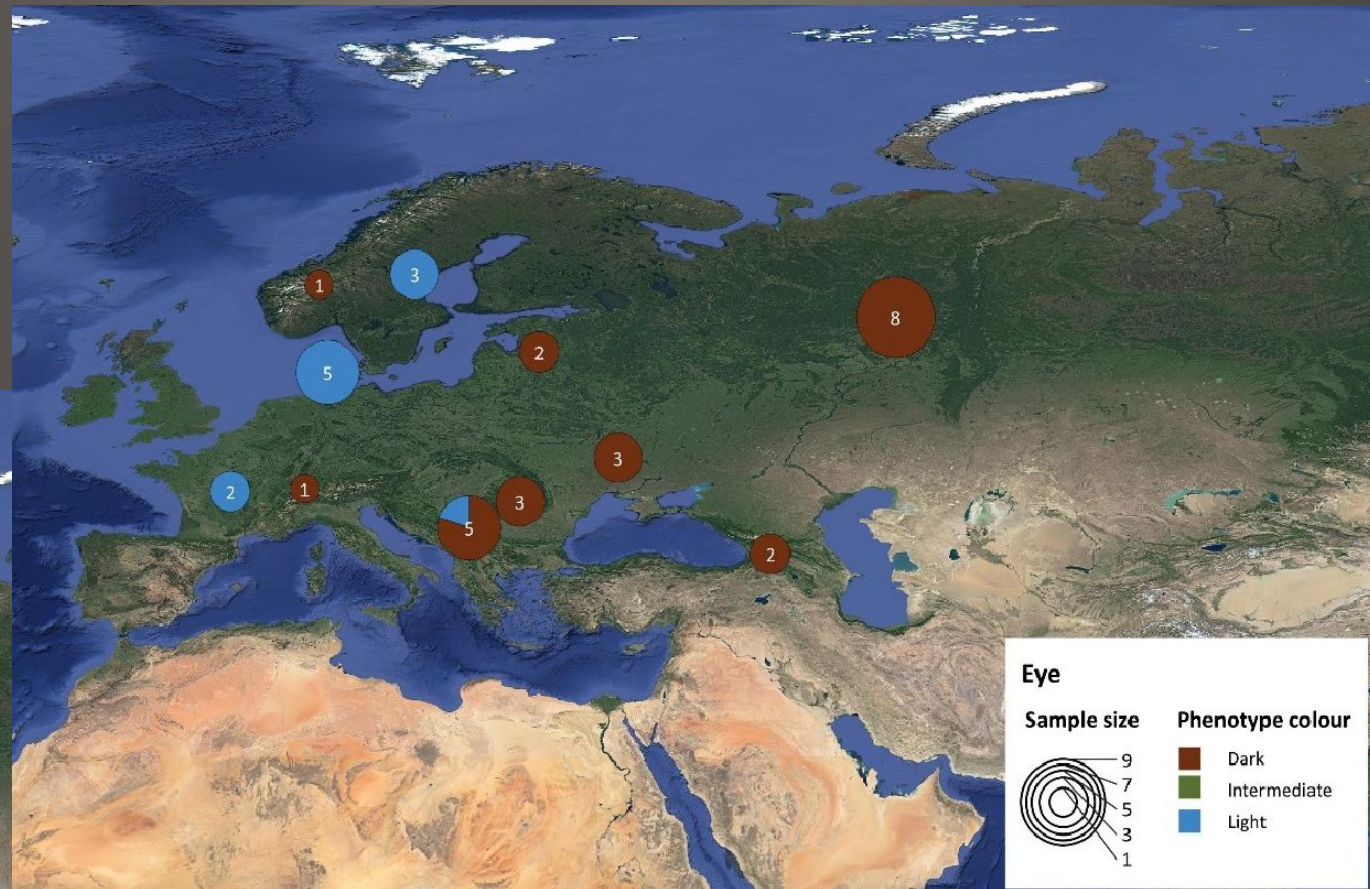
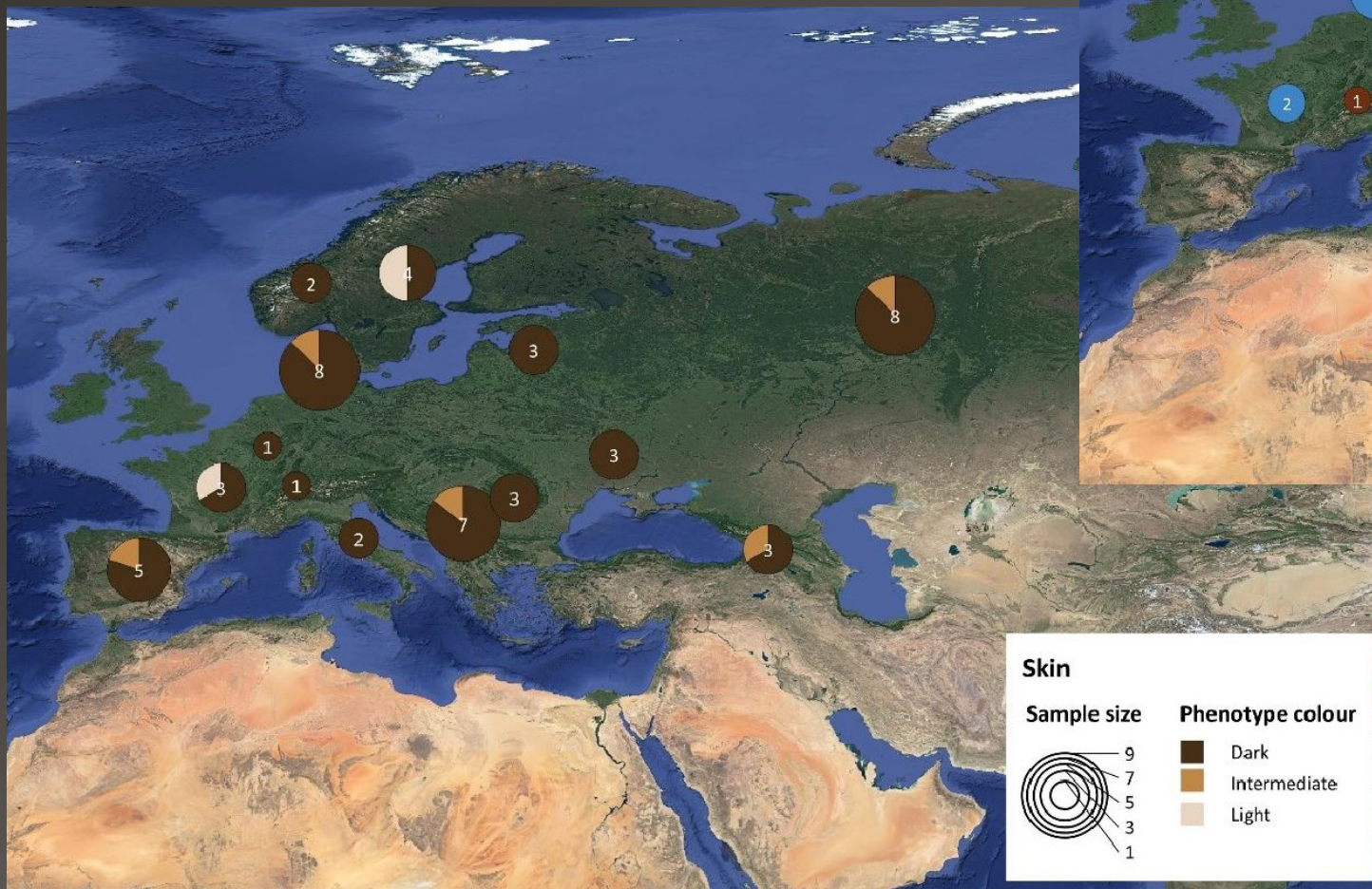




Brace et al. (2019) *Nature Ecol  
Evol*



# Mesolithic







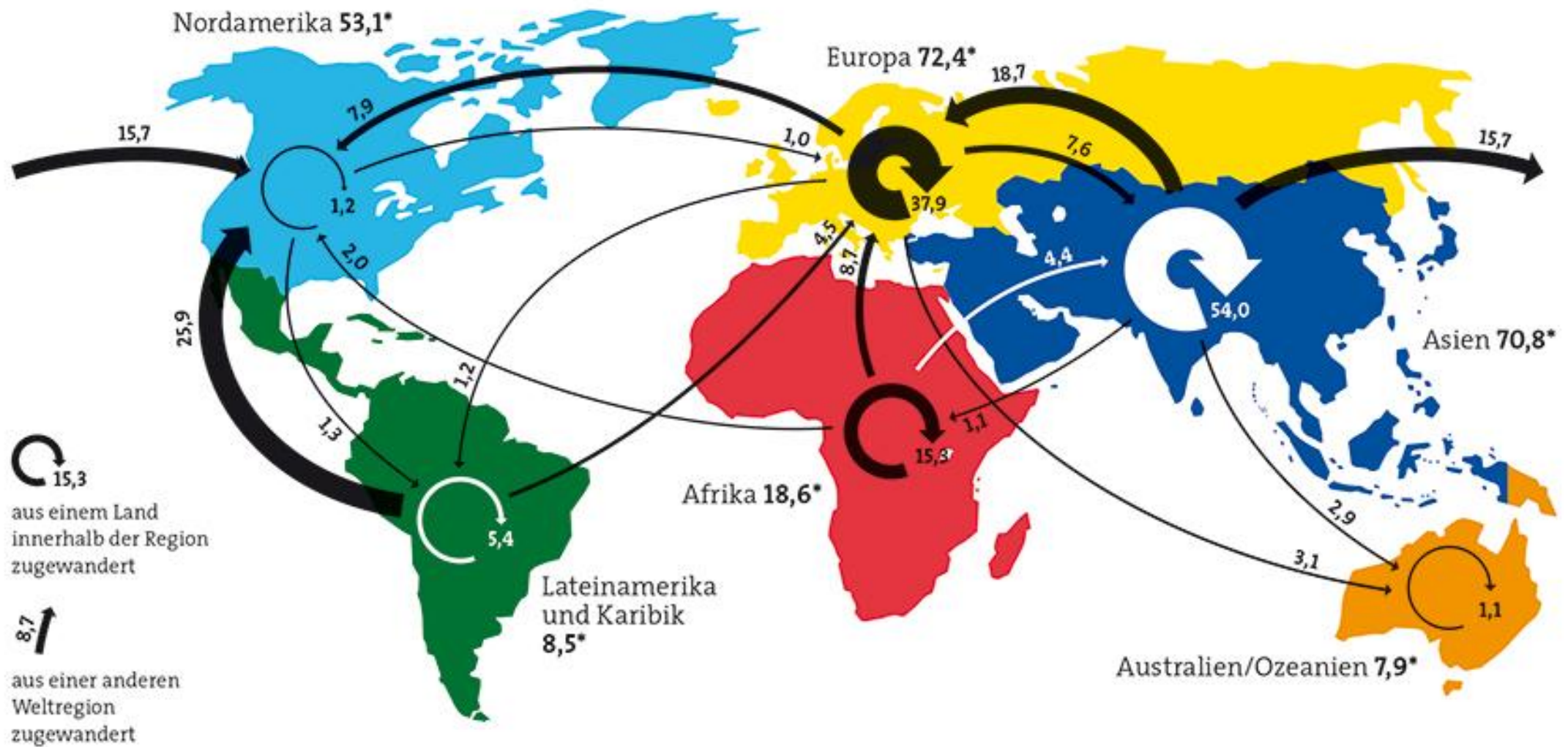


# Iron age



# Migranten

In den Weltregionen lebende Zuwwanderer nach ihrer Herkunft







Wlodek Goldkorn





Grazie a Gloria Gonzalez Fortes e Silvia Perretti

