



# I determinanti sociali e le disuguaglianze in salute

**Chiara Bodini**

Centro di Salute Internazionale e Interculturale (CSI)

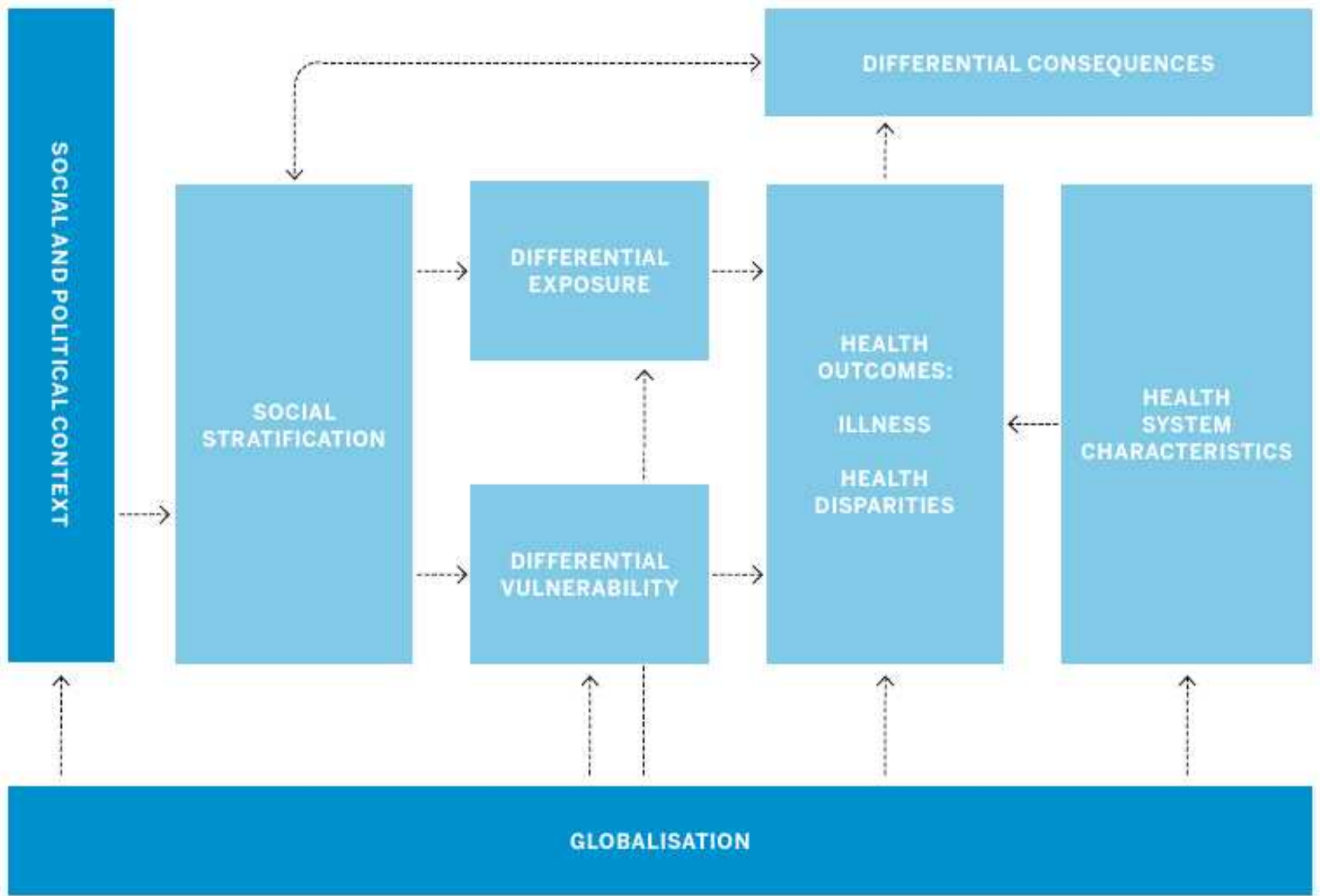
Università di Bologna



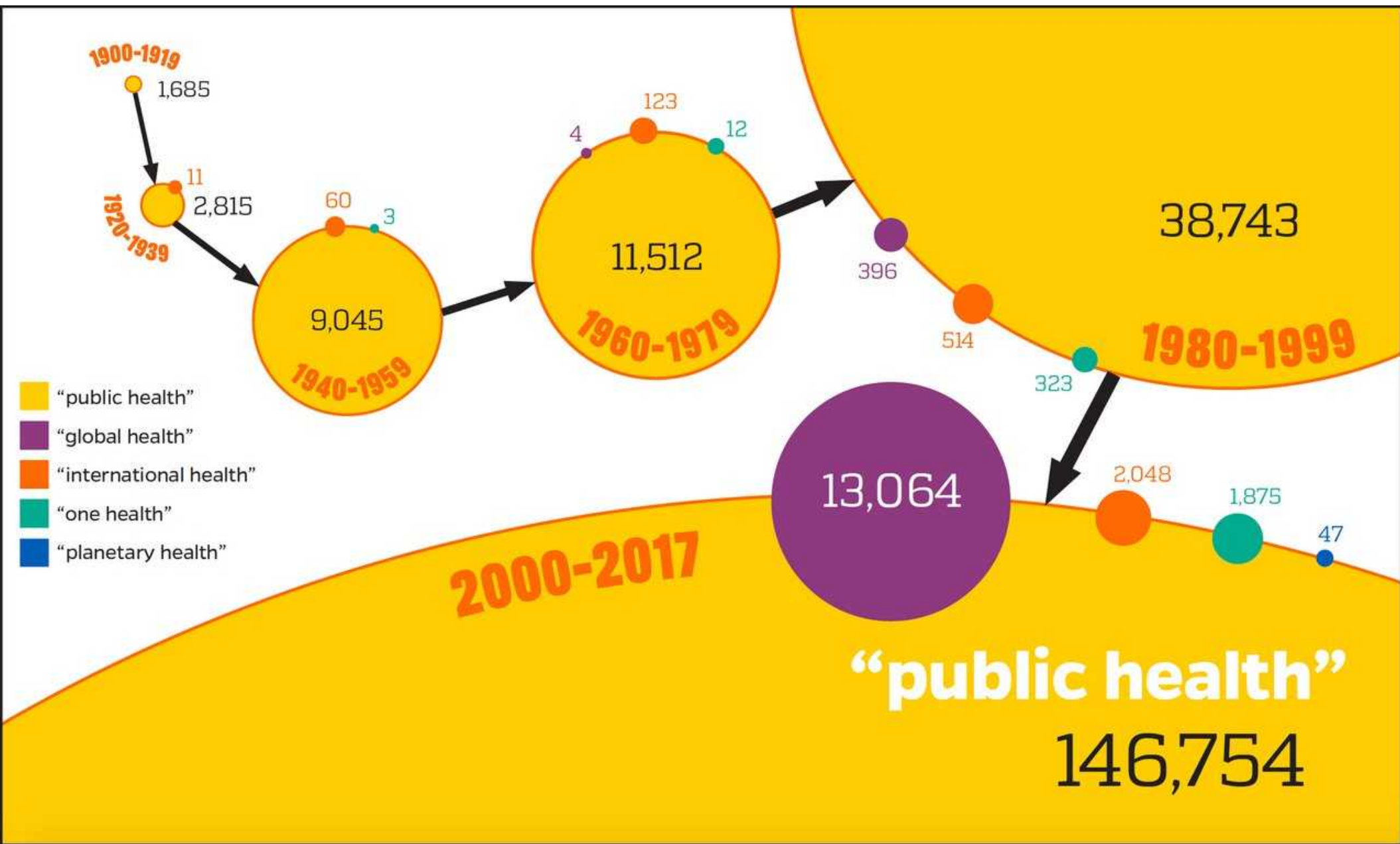
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*What is global health?*



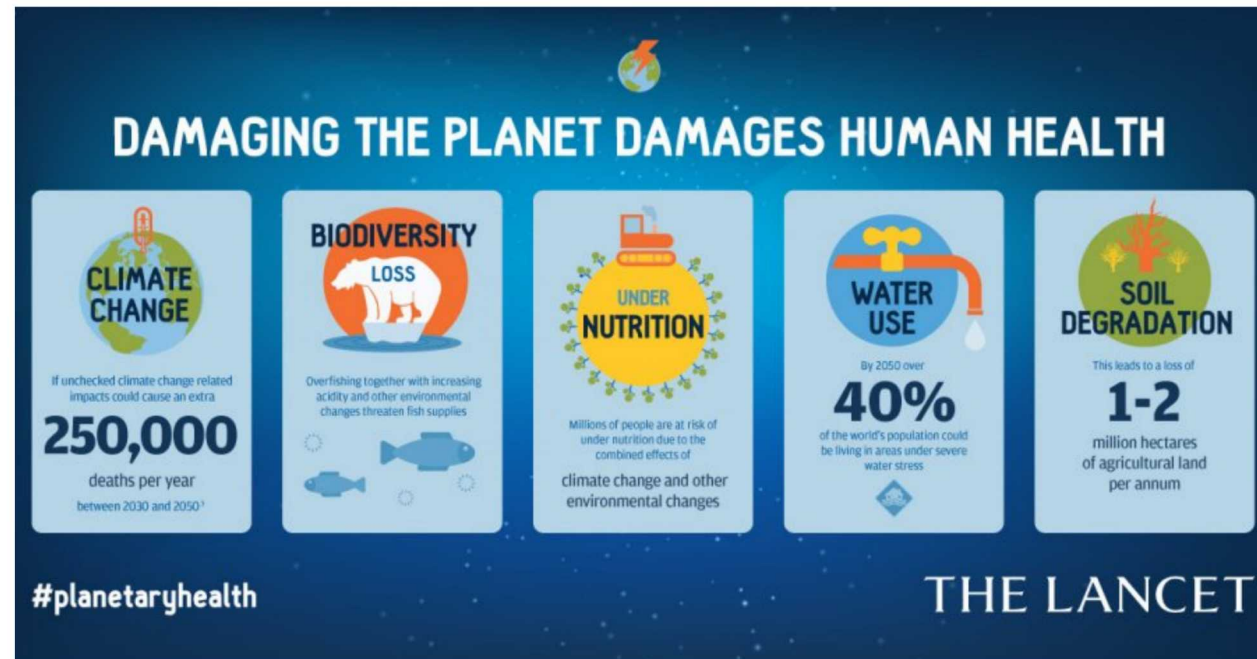
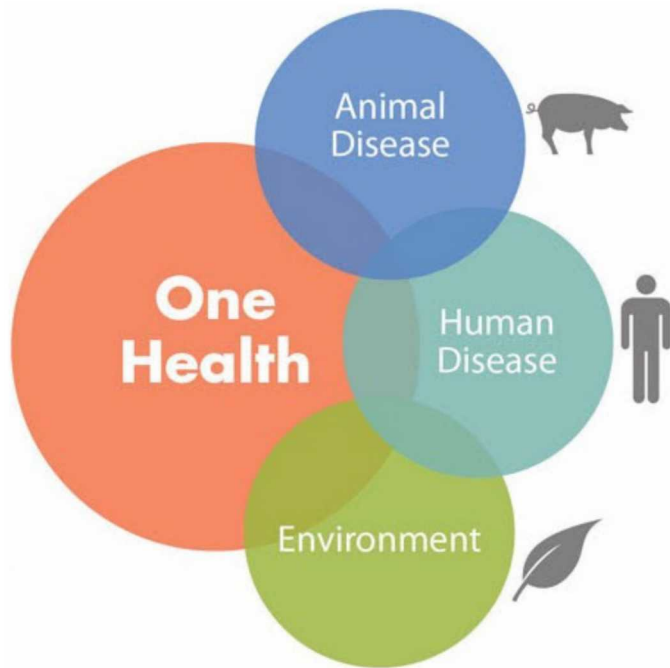
Source: Labonté and Schrecker, 2007



Source: [Global Health Now 2017](#)



# New(er) approaches



# Global health (RIISG)

- GH is meant to be a **new paradigm for health and health care**, grounded in the theory of the **social determinants of health**.
- Based on the principles of the **Alma Ata Declaration**, GH can be applied to health **promotion, prevention, diagnosis, treatment**, for **individuals and populations**.
- GH considers the relationship between **globalisation and health** in terms of equity, human rights, sustainability and international diplomacy. Adopting a transnational view, GH points out **health inequalities** both within and among countries, framing them also through the lens of **social justice**.
- GH adopt a **trans-disciplinary and multimethod** approach, built on the contribution of natural, biomedical and social sciences and the humanities.
- **Fostering an ethics of social accountability**, GH encompasses the fields of research, practice and education, **aiming at producing change in the community** and in the whole society, and bringing evidence into practice thus reducing the know-do gap.



# Global health

	Global health	International health	Public health
Geographical reach	Focuses on issues that directly or indirectly affect health but that can transcend national boundaries	Focuses on health issues of countries other than one's own, especially those of low-income and middle-income	Focuses on issues that affect the health of the population of a particular community or country
Level of cooperation	Development and implementation of solutions often requires global cooperation	Development and implementation of solutions usually requires binational cooperation	Development and implementation of solutions does not usually require global cooperation
Individuals or populations	Embraces both prevention in populations and clinical care of individuals	Embraces both prevention in populations and clinical care of individuals	Mainly focused on prevention programmes for populations
Access to health	Health equity among nations and for all people is a major objective	Seeks to help people of other nations	Health equity within a nation or community is a major objective
Range of disciplines	Highly interdisciplinary and multidisciplinary within and beyond health sciences	Embraces a few disciplines but has not emphasised multidisciplinary	Encourages multidisciplinary approaches, particularly within health sciences and with social sciences

*Table: Comparison of global, international, and public health*

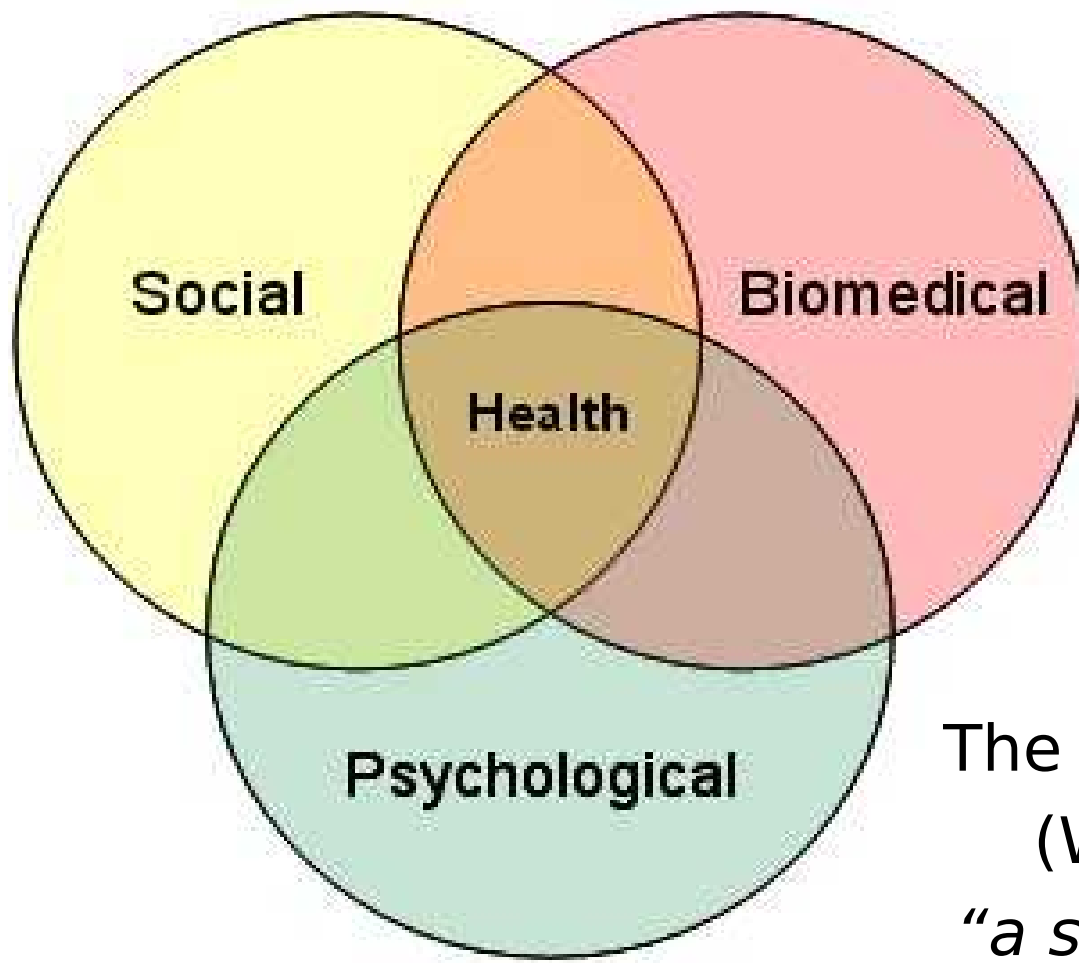
*Source: Koplan, 2009*

# ...meanwhile in Harvard



Proposed definitions of “global health” are generally depoliticized and include invocations of trans-national health issues and collaborations. Yet global health is only the newest iteration of what was formerly “international health”, “tropical medicine” and “colonial medicine”. **Its historical roots lie in European colonial endeavors and imperial interests. Just as those reflected the unequal power relations of that time, global health reflects the unequal relations of present.** North American and European universities, including Harvard, play a big role in this nebulous field. Syllabi, implicit theories, and agendas in these institutions posit the field as a technical one whose methods are universal, objective and value-neutral. **They portray the field as being devoid of its historical baggage, and do not critically challenge the underlying economic (e.g., neoliberalism) and political relations (e.g., US imperialism) that constrain mainstream global health.**





The World Health Organization (WHO) defines health as:  
*“a state of complete physical, mental, [spiritual] and social well-being and not merely the absence of disease or infirmity”*  
**(bio-psycho-social model)**

The diagram depicts an iceberg floating in a dark blue sea. The tip of the iceberg, which is above the water line, is labeled 'Health'. The much larger part of the iceberg is submerged and contains various determinants of health. The iceberg is supported by three large, white, blocky labels: 'VALUES' at the bottom left, 'ASSUMPTIONS' at the bottom center, and 'BELIEFS' at the bottom right. The submerged part of the iceberg is divided into several sections, each with a label. From top to bottom, these labels are: 'Health Services', 'Income and Social Status', 'Education', 'Employment and Working Conditions', 'Social Support Networks', 'Physical Environments', 'Biology and Genetic Endowment', 'Social Environments', 'Healthy Child Development', 'Culture', 'Personal Health Practices and Coping Skills', 'Gender', and 'HEALTHY CHILD DEVELOPMENT'.

**Health**

**Health Services**

**Income and  
Social Status**

**Education**

**Employment  
and Working  
Conditions**

**Social  
Support  
Networks**

**Physical  
Environments**

**Biology and  
Genetic  
Endowment**

**Social  
Environments**

**Healthy Child  
Development**

**Culture**

**Personal  
Health  
Practices and  
Coping Skills**

**Gender**

**VALUES**

**ASSUMPTIONS**

**BELIEFS**

# HEALTH AS A COMPLEX ADAPTIVE SYSTEM



The determinants of health

# Fattori 'costituzionali'

Età

Sesso/genere

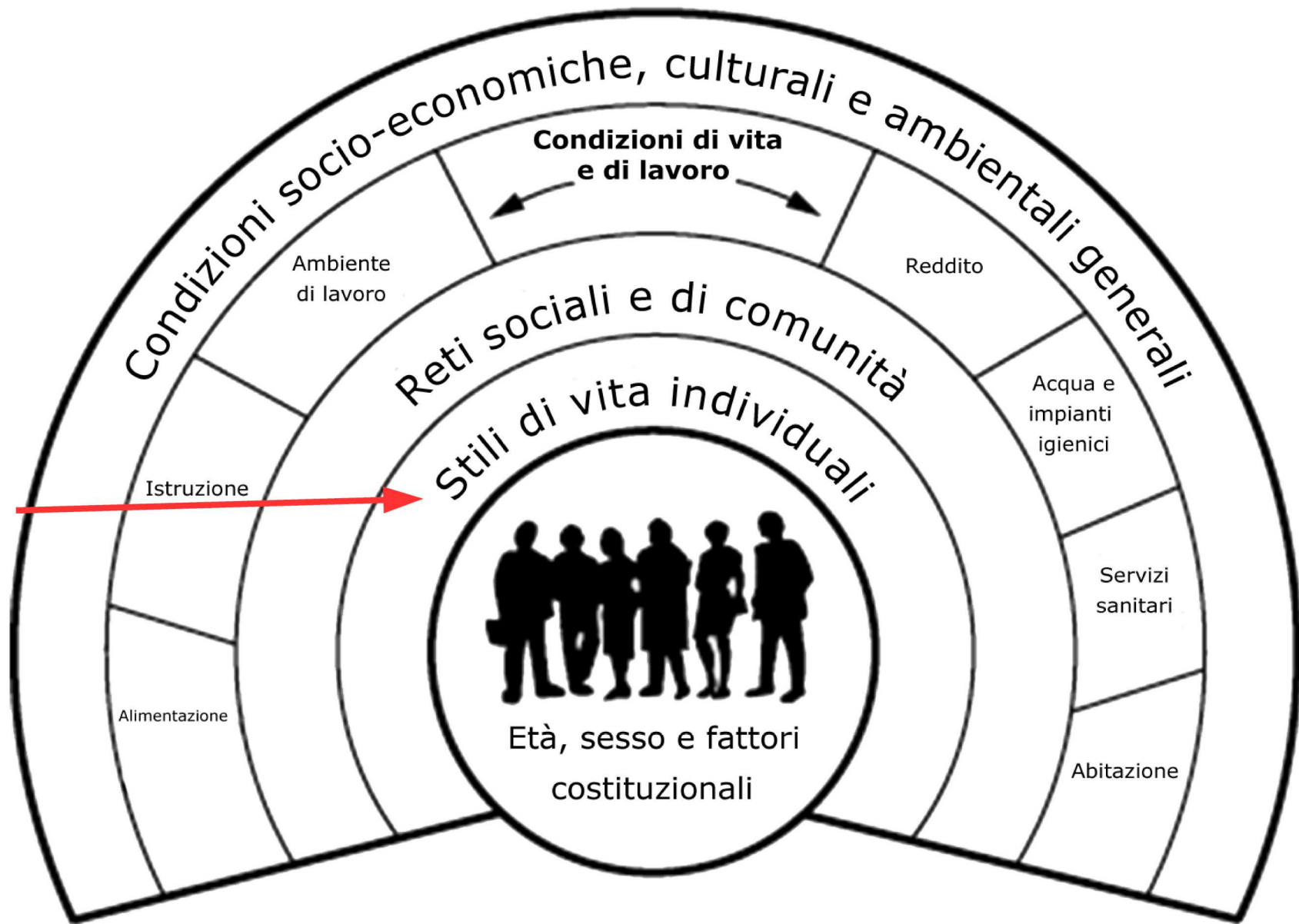
Patrimonio  
genetico



<https://www.youtube.com/watch?v=k50yMwEOWGU>



# Determinanti della salute (1991)



# 'Stili' di vita 'individuali'

Fumo

Alimentazione

Attività fisica

Alcol

Sostanze

Sessualità



# Fumo

## TABACCO: "LA PIÙ GRANDE MINACCIA PER LA SALUTE NELLA REGIONE EUROPEA"

MORTI



93.342 persone

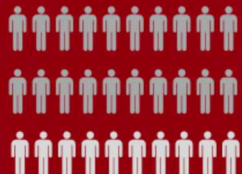


COSTO



26.041 milioni di euro

MORTI



73.545 persone



COSTO



49.922 milioni di euro

MORTI



124.389 persone



COSTO



58.205 milioni di euro

MORTI



57.216 persone



COSTO



20.773 milioni di euro

MORTI



57.216 persone



COSTO



34.424 milioni di euro

Fonte dati: [Tobaccoatlas.org](http://Tobaccoatlas.org)  
Elaborazione grafica Antonio Massariolo - Il Bo Live

LIVE  
UNIVERSITÀ DI PADOVA



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# Abitudine al fumo

La prevalenza di fumatori nel 2017, tra la popolazione  $\geq 14$  anni è del **19,7%**, con forti differenze di genere: **24,8%** tra gli uomini, **14,9%** tra le donne.

Il fumo di sigaretta è **più frequente fra le classi socioeconomiche più svantaggiate** (meno istruiti e/o con maggiori difficoltà economiche).

Dal 2008 si osserva una **riduzione significativa** della prevalenza del fumatori in tutto il territorio Italiano (dal 30% al 26%), in particolare nelle classi sociali più agiate ma meno fra le persone economicamente più svantaggiate.

La quota di **ex fumatori** cresce all'avanzare dell'età, è maggiore fra le persone senza difficoltà economiche, fra i cittadini italiani rispetto agli stranieri e fra i residenti nelle Regioni settentrionali.



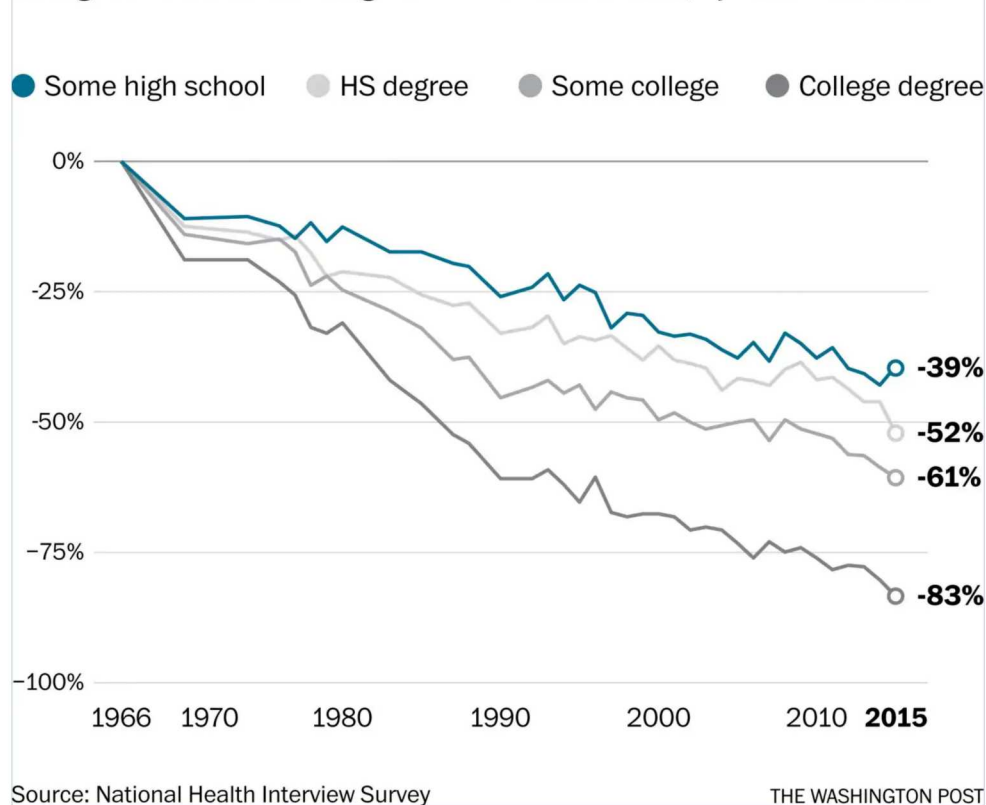


# Abitudine al fumo

## USA

### Smoking has declined for all, but not equally

Change in U.S. adult smoking rates from 1966 to 2015, by education level



## EUROPA

In uno studio su oltre 70 mila persone appartenenti a 27 Stati Europei nel periodo 2006-2012, sono stati confrontati attività di prevenzione e controllo del tabacco da parte degli Stati e tassi di cessazione e abbandono del fumo.

Nel periodo considerato **solo le fasce di popolazione a reddito elevato hanno mostrato un tasso di abbandono associabile** con le attività di prevenzione, mentre nelle fasce a reddito medio e basso questa correlazione non si manifesta.

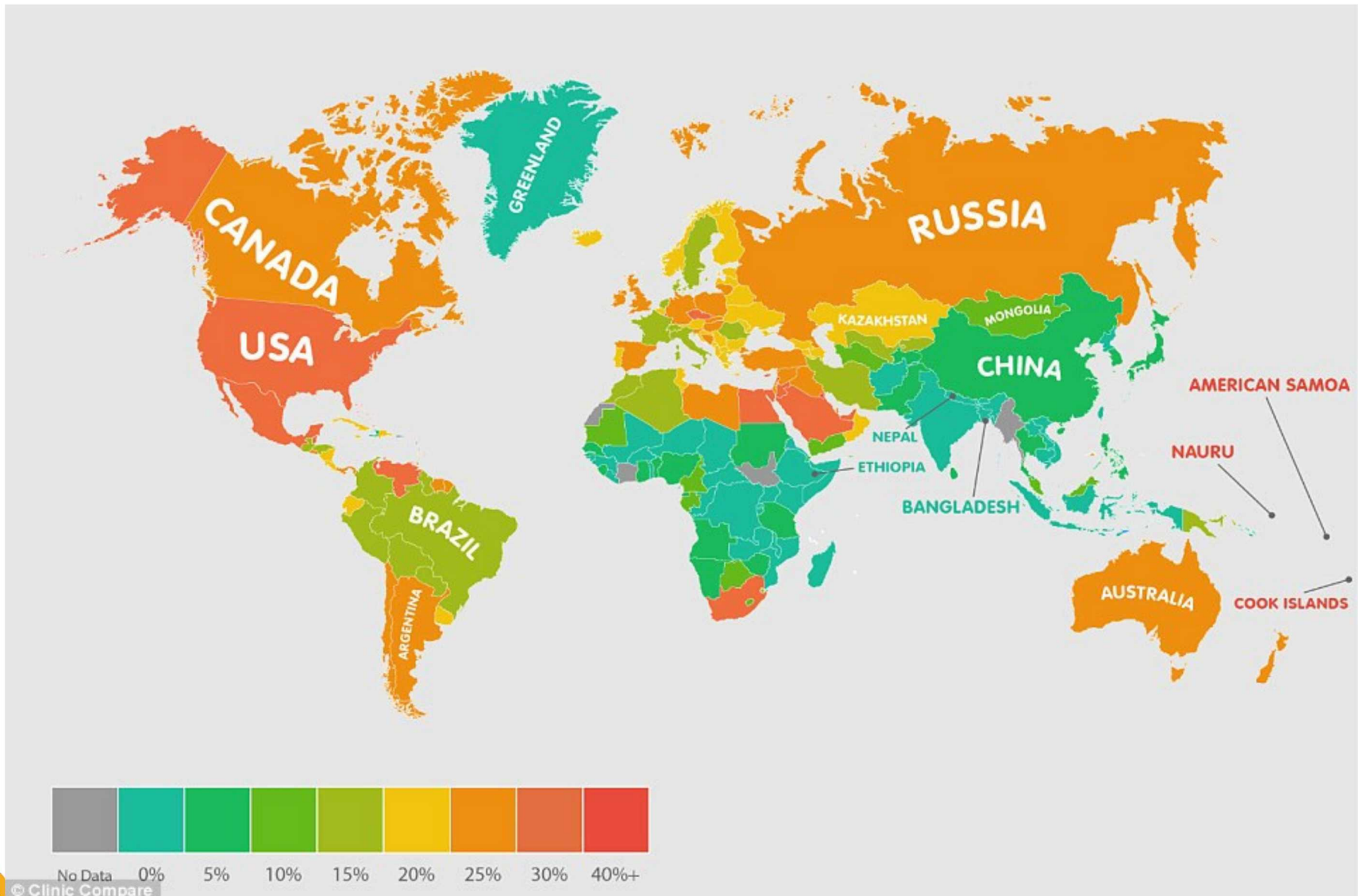
# Alimentazione

Secondo l'OMS, una dieta sana è la pietra angolare di una buona salute

I tre fattori principali che condizionano la dieta di una persona sono:

- Reddito
- Istruzione
- Luogo di vita

# Obesità nel mondo







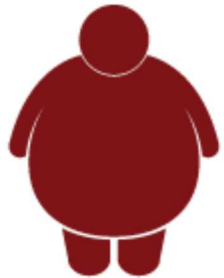


# Obesità in Europa

In the WHO/European Region



**over 50%**  
of people are  
**overweight** or **obese**



**over 20%**  
of people are  
**obese**

**1 in 3**   
11-year-olds is  
**overweight**  
or  
**obese**

© WHO 03/2014

[www.euro.who.int/obesity](http://www.euro.who.int/obesity)

© WHO 07/2013



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# Obesità in Europa

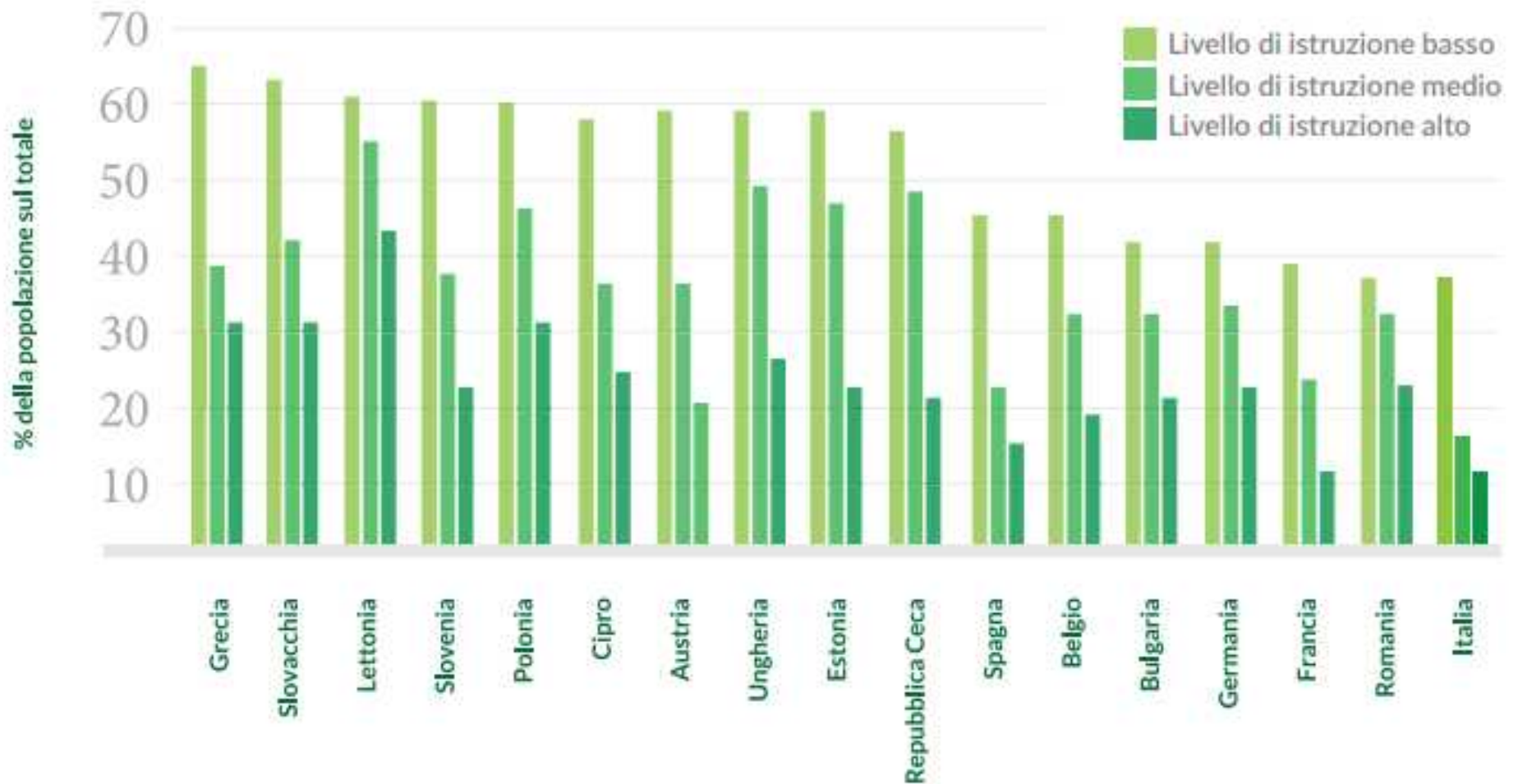


Figura 1. Rapporto tra obesità e livello di istruzione nelle donne, 2009



# Andamento nel tempo

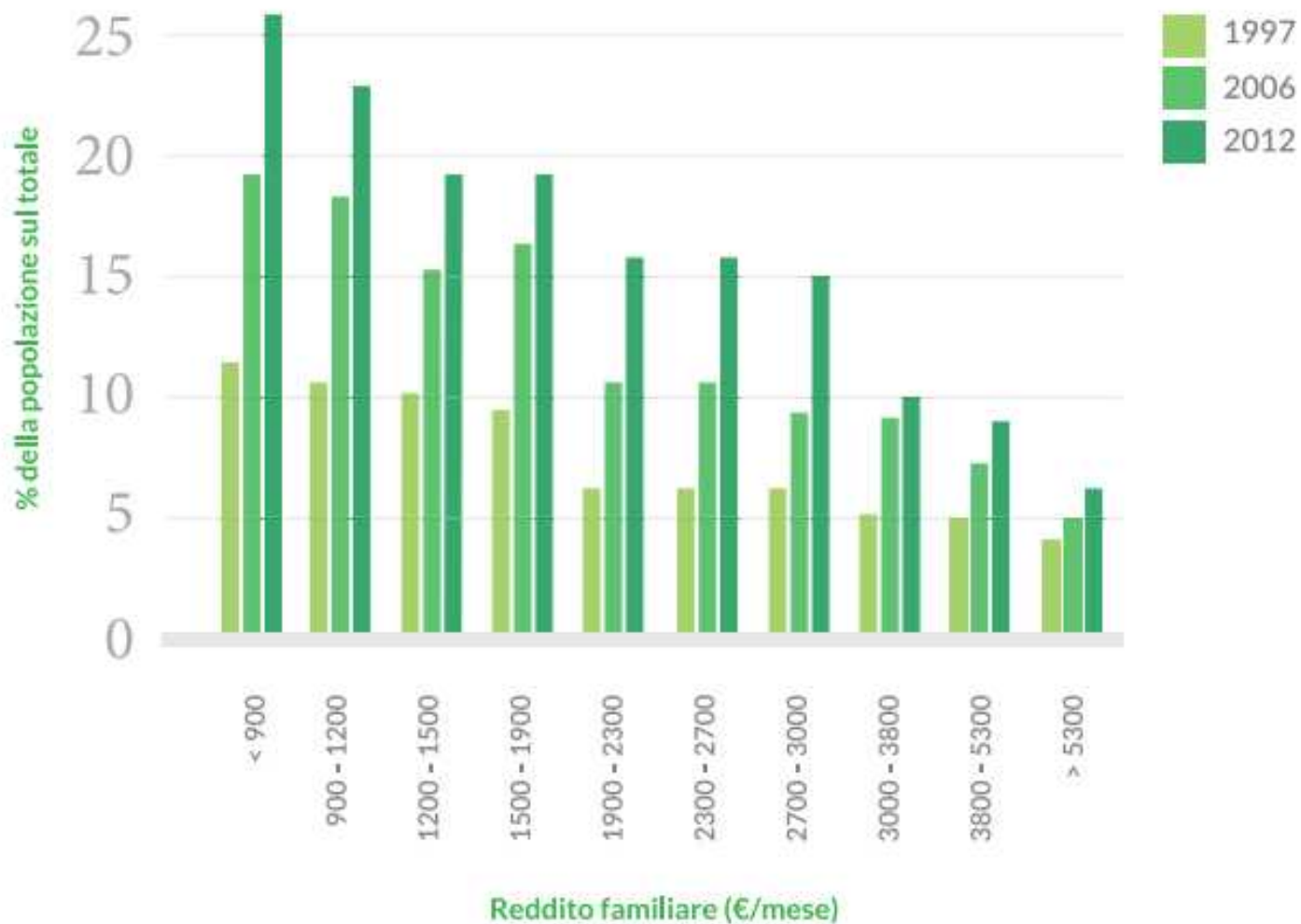
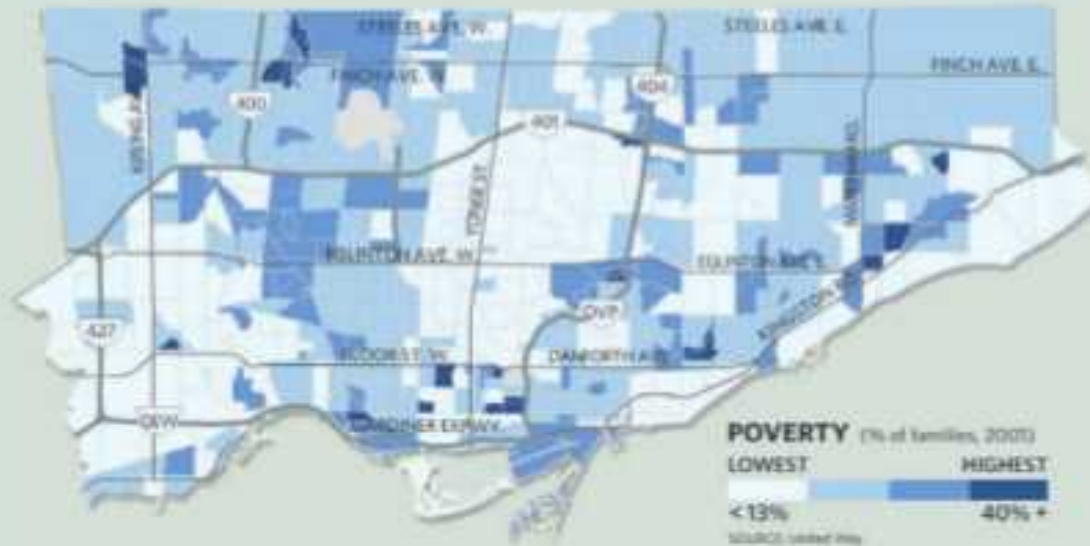


Figura 3. Francia: prevalenza di obesità nella popolazione adulta in rapporto al reddito familiare, 1997-2012

<https://www.disuguaglianzedisalute.it/wp-content/uploads/2015/06/Obesita.pdf>

## Poverty in the city

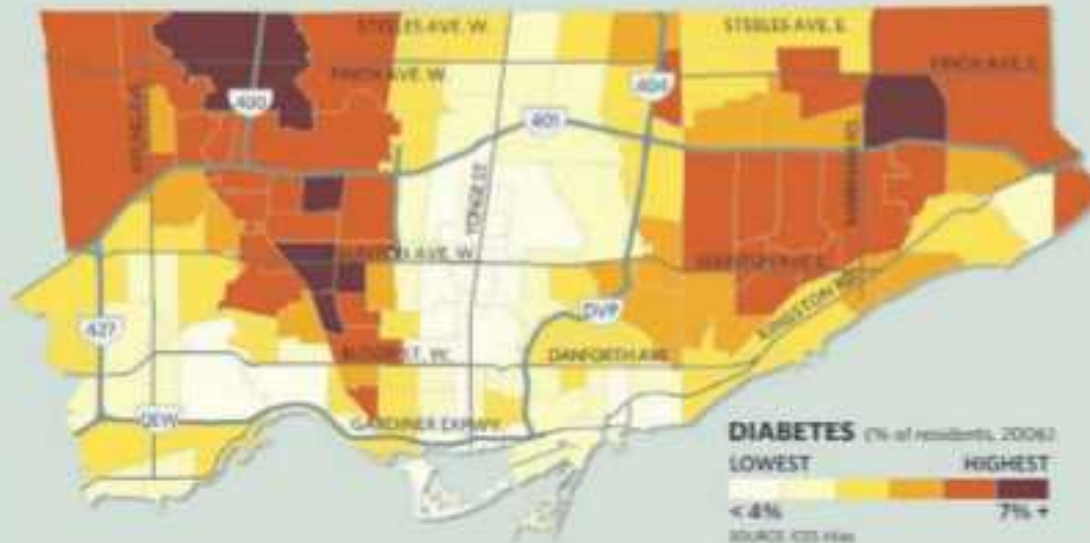
Poor parts of the city generally align with those with the highest rates of diabetes



TORONTO STAR

## Where diabetes hits hardest

The Northwest and East of Toronto are hardest hit by diabetes

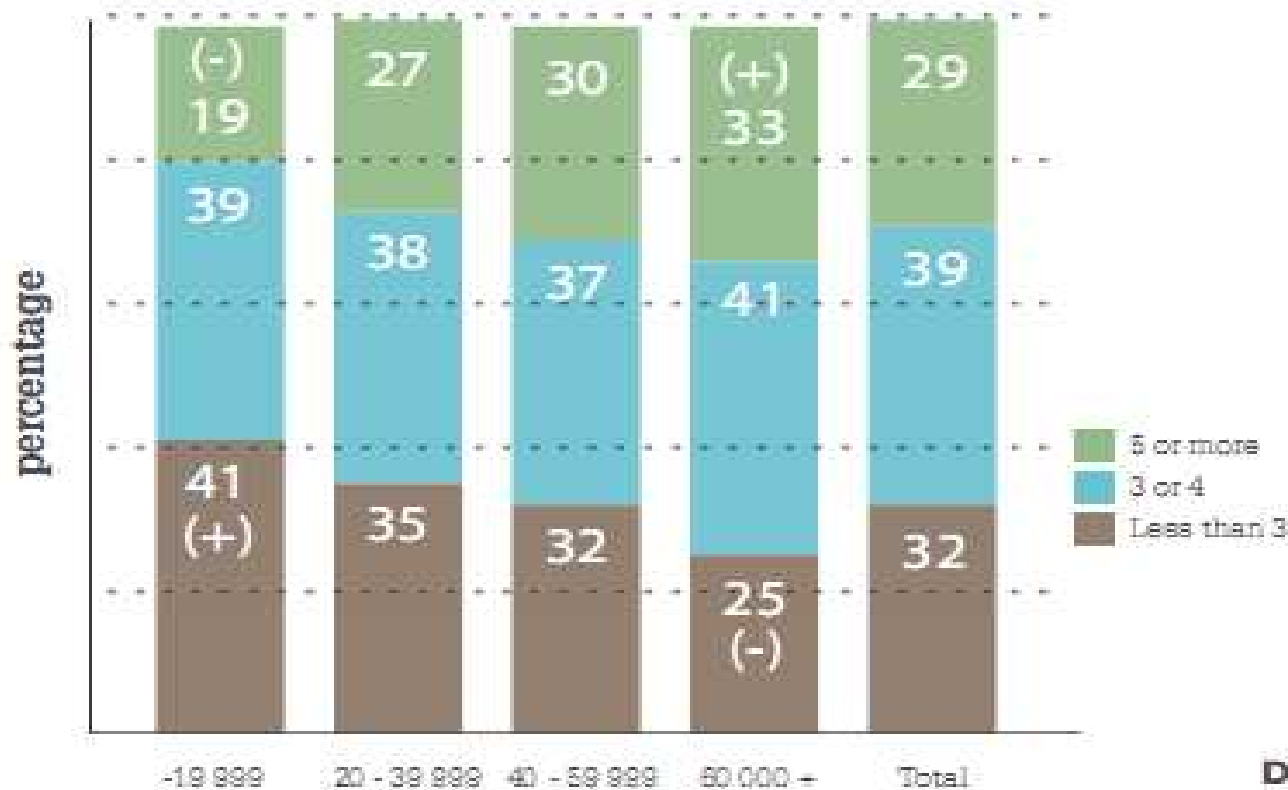


TORONTO STAR





Figure 4.3. Distribution of Montrealers aged 15 and over, by family income and daily frequency of fruit and vegetable consumption, 2010 Adapted from Bertrand L, Thérien F, 2011.



**Data source:** Biannual survey of health determinants, DSP 2010

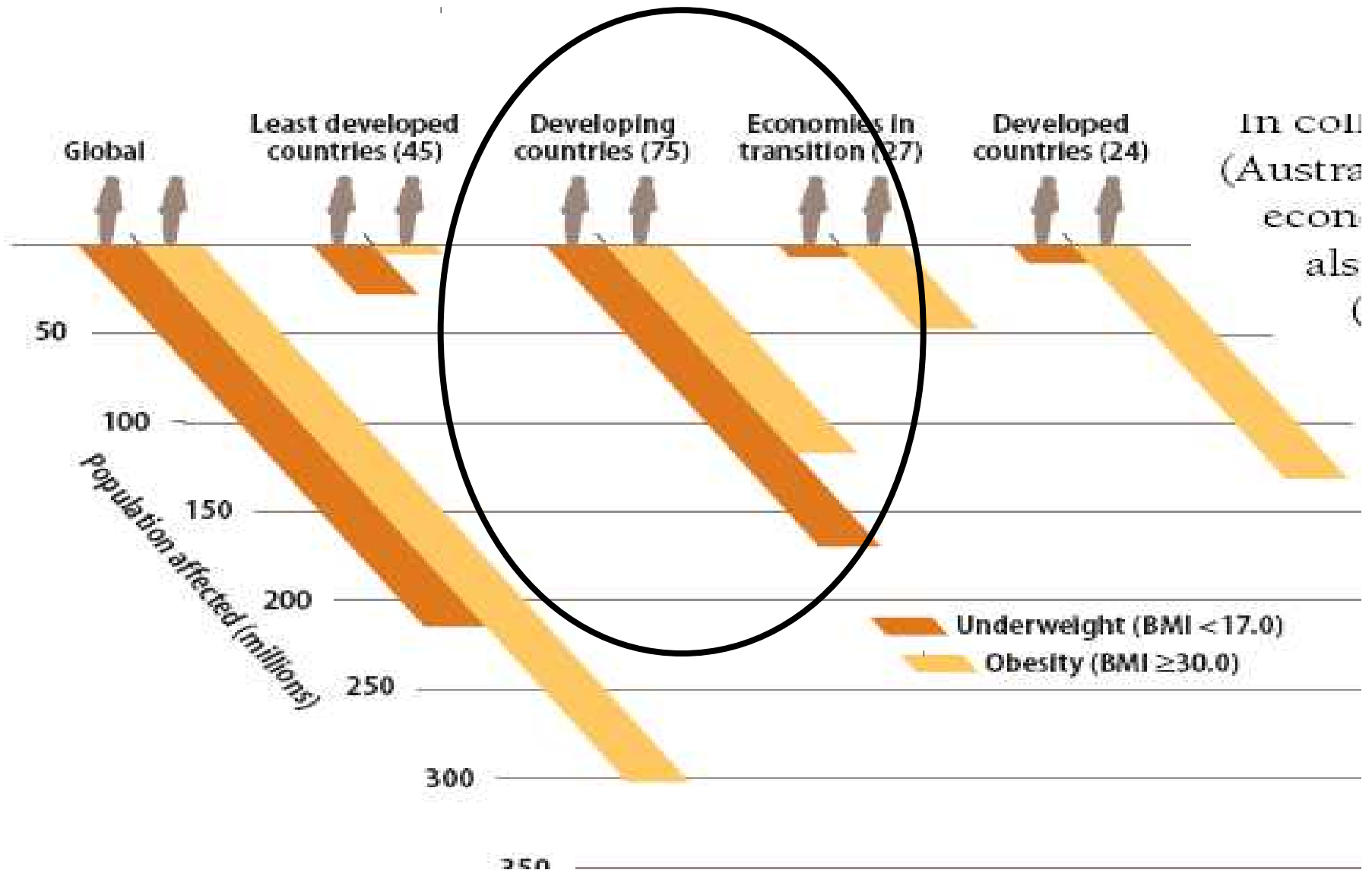
# 'Super-diet' development

- Healthy foods prohibitively expensive, processed foods exceedingly cheap
  - In 2009 study of supermarkets in rural South Africa, healthier foods typically cost between **10% and 60%** more when compared on a weight basis (R per 100g) and between **30% and 110%** more when compared based on the cost of food energy (R per 100 kJ)

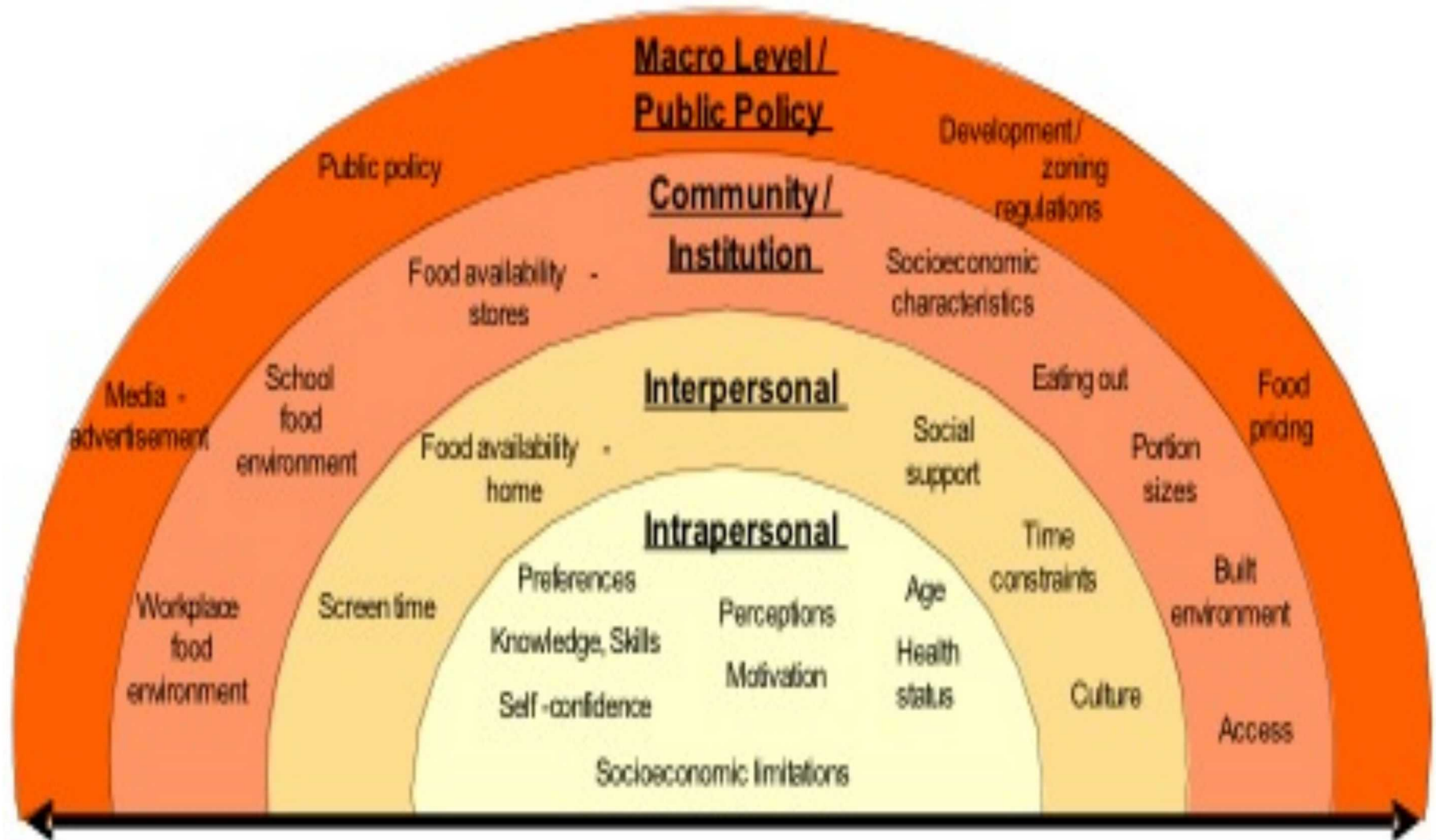


Sources: Temple, et. al., "Price and availability of healthy food: A study in rural South Africa." *Nutrition Journal* 1 (2010): 1-4.

# Double burden

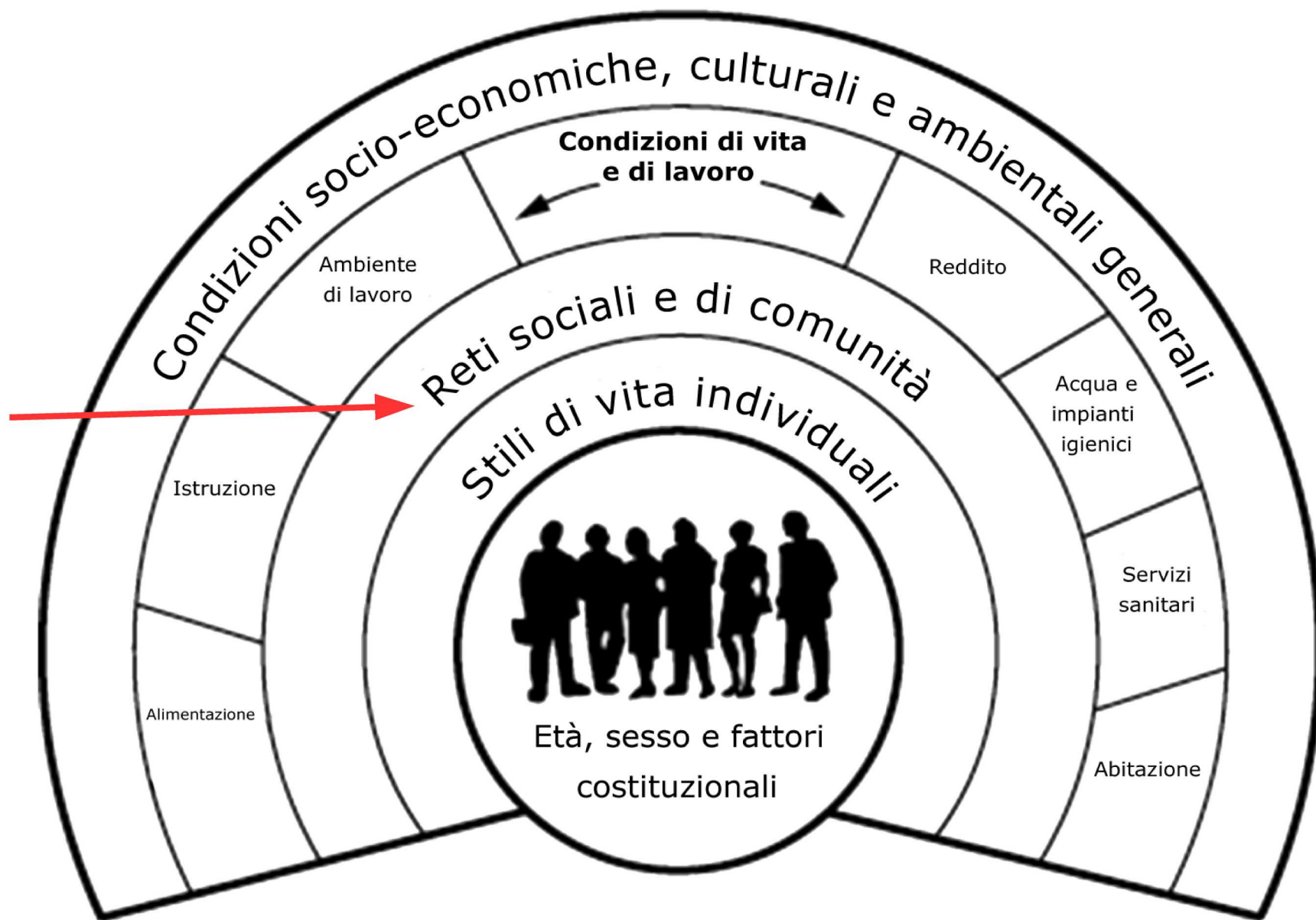


# Barriere a una vita sana





# Determinanti della salute (1991)





# Reti sociali

Roseto  
(Abruzzo)

Roseto, Pennsylvania  
(USA)



# The Roseto effect

## A 50-year comparison of mortality rates

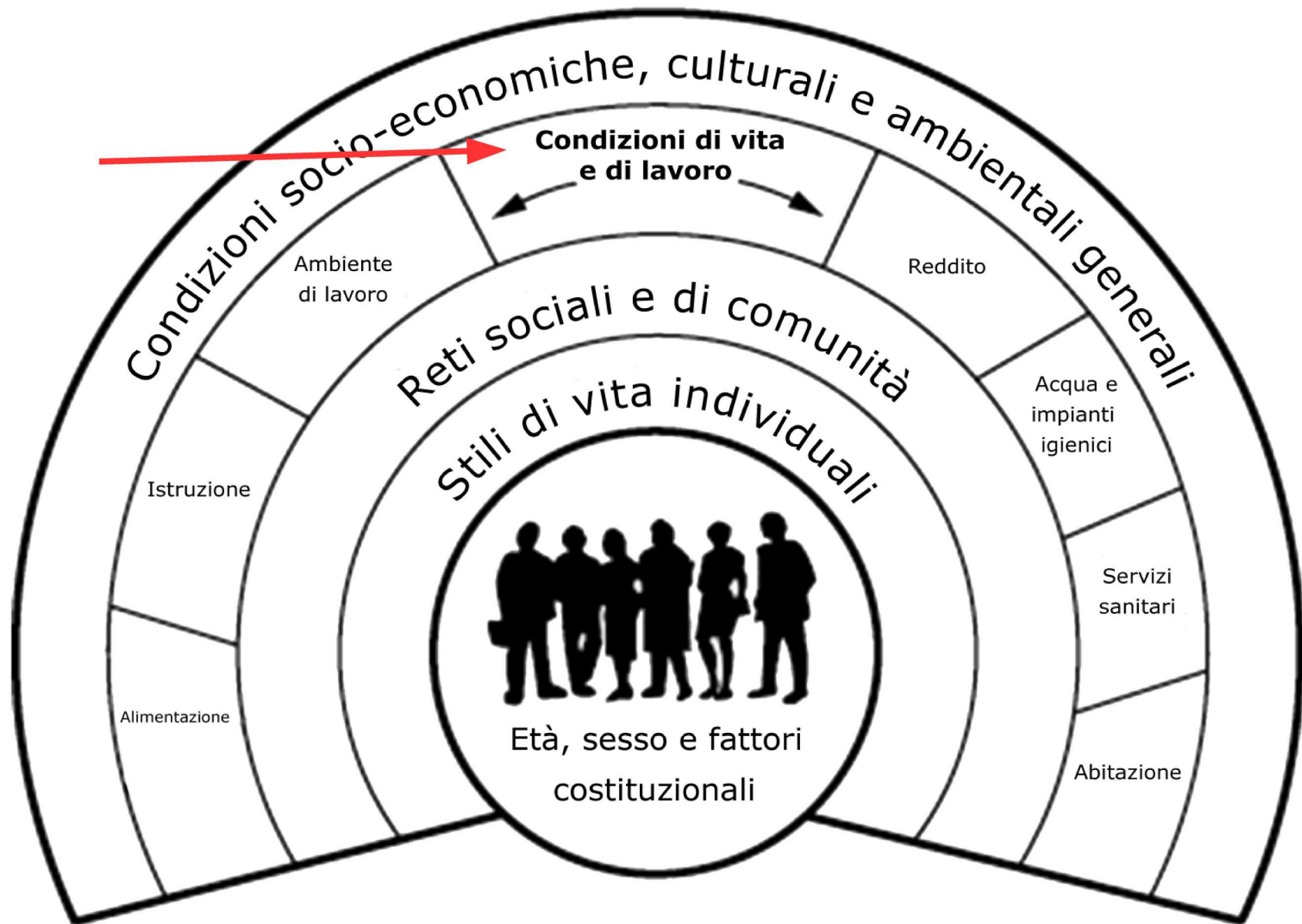
B Egolf, J Lasker, S Wolf, and L Potvin  
American Journal of Public Health, Vol. 82, Issue 8 1089-1092  
Copyright © 1992 by American Public Health Association

**Rosetans had a lower mortality rate from myocardial infarction** over the course of the first 30 years, but it rose to the level of Bangor's following a period of erosion of traditionally cohesive family and community relationships.

The data confirmed the existence of consistent mortality differences between Roseto and Bangor during a time when there were many indicators of greater social solidarity and homogeneity in Roseto.



# Determinanti della salute (1991)



# Condizioni di vita e di lavoro

Alimentazione

Istruzione

Ambiente di lavoro

Abitazione

**Reddito**

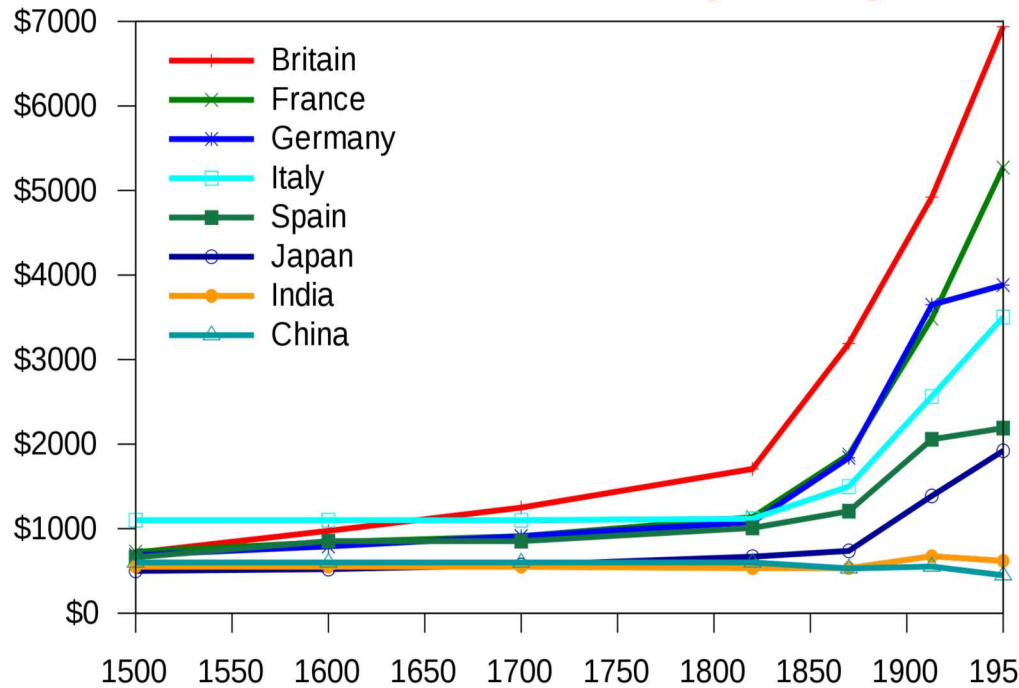
Acqua e impianti igienici

Servizi sanitari



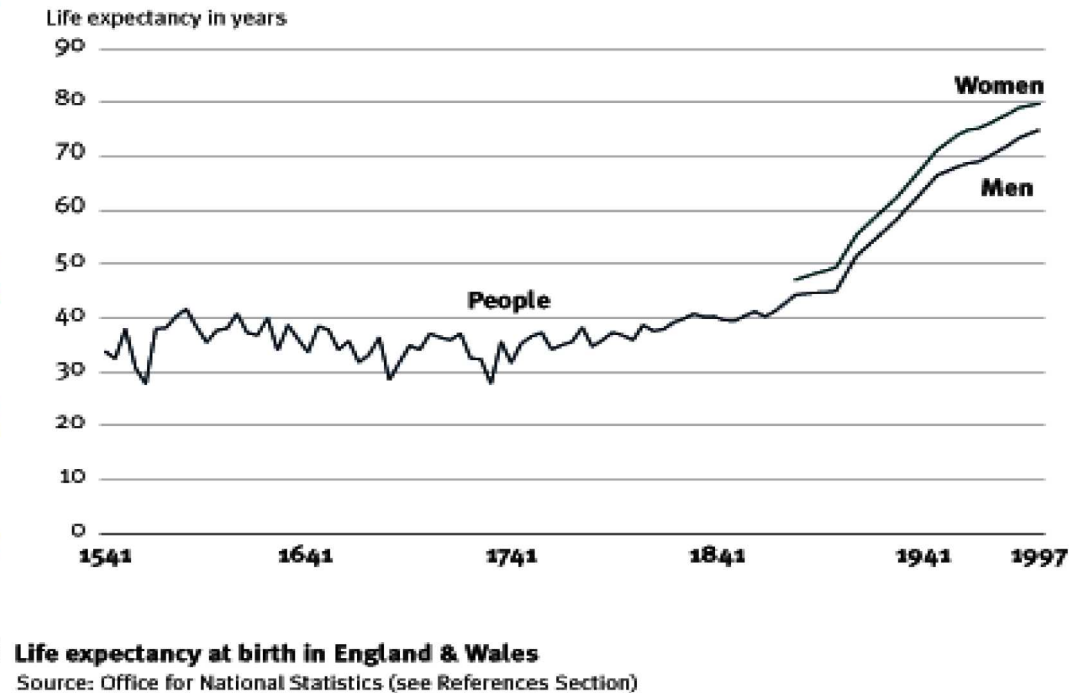
# Ricchezza e salute

## Prodotto Interno Lordo pro capite



PIL pro capite (aggiustato per potere di acquisto) tra il 1500 and 1950. *Dati da Contours of the World Economy, 1–2030 AD, in Essays in Macro-Economic History by Angus Maddison, Oxford University Press, 2007.*

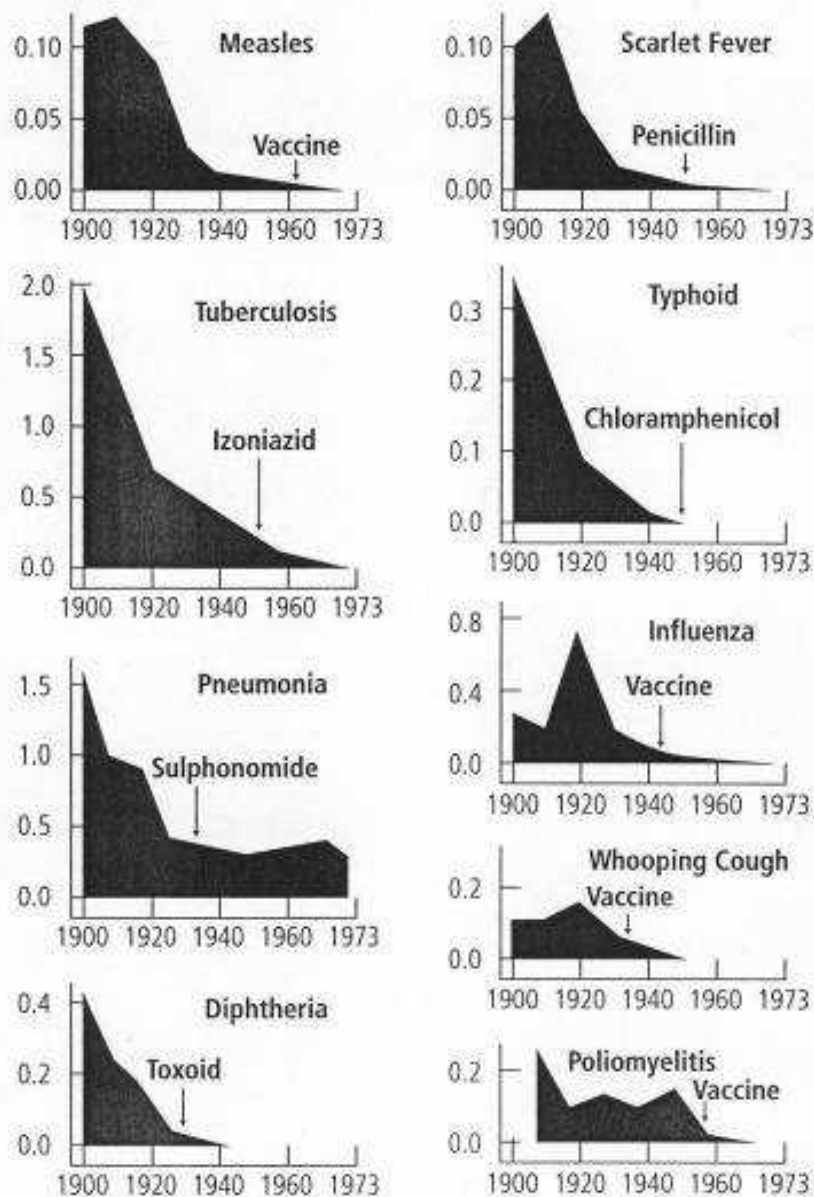
## Aspettativa di vita



Aspettativa di vita in Inghilterra e Galles tra il 1541 e il 1997.

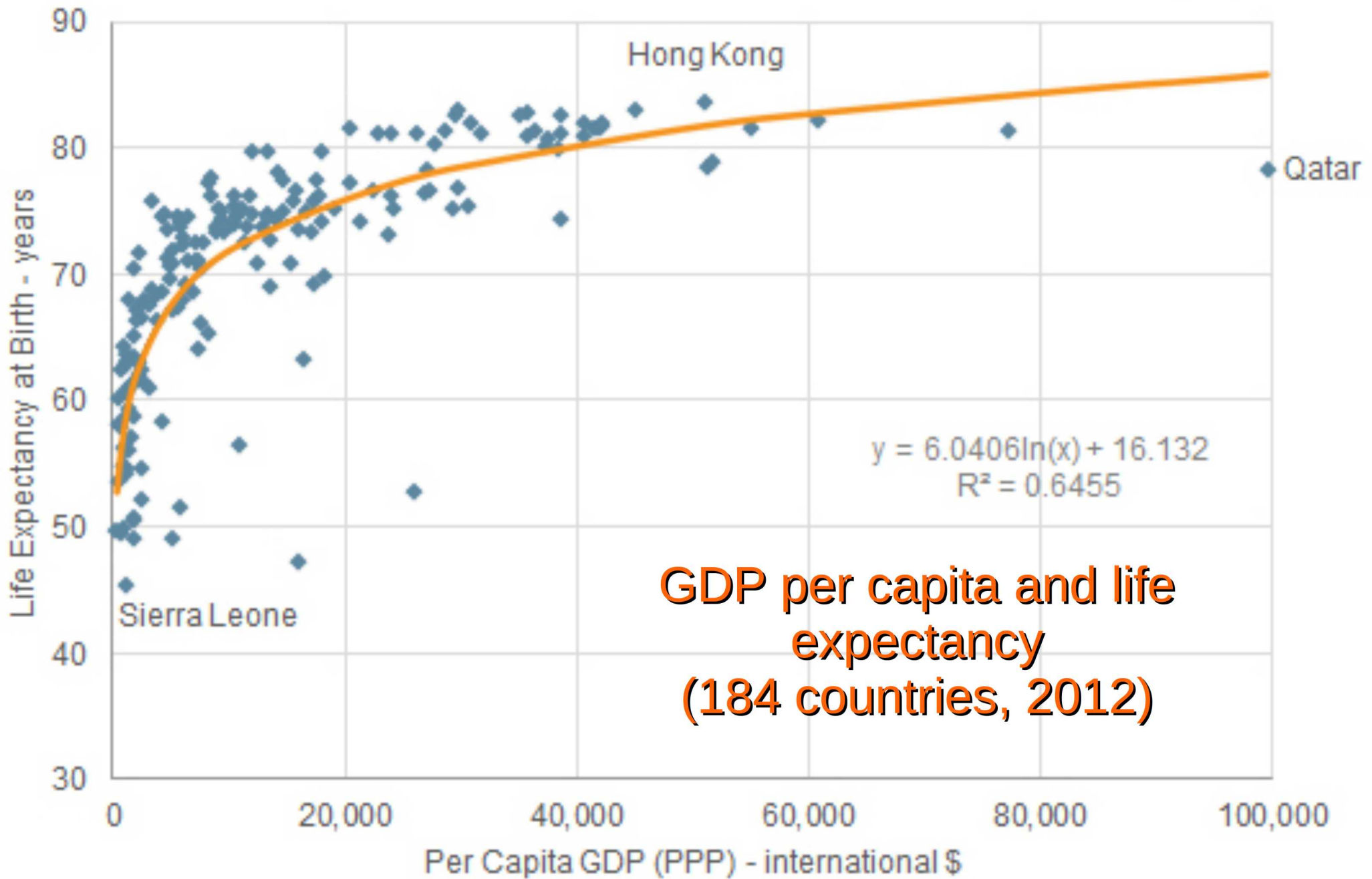


**FIGURE 3.1 THE FALL IN THE STANDARDIZED DEATH RATE (PER 1,000 POPULATION) FOR NINE COMMON INFECTIOUS DISEASES IN RELATION TO SPECIFIC MEDICAL MEASURES, UNITED STATES, 1900-1973**



**Andamento del tasso di mortalità standardizzato per nove patologie infettive (USA, 1900-1973)**

n = 184

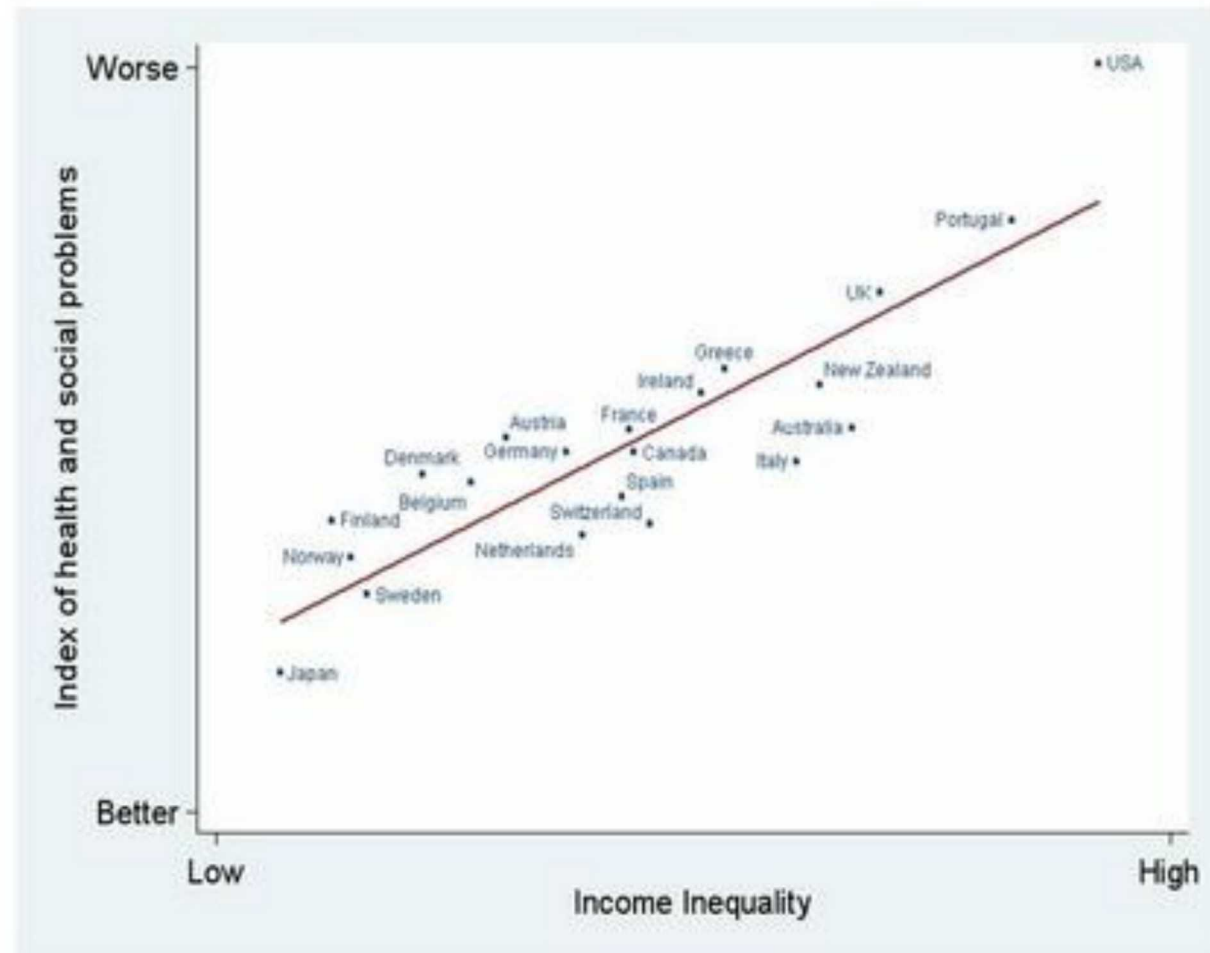


# I peso de equità

## Health and Social Problems are Worse in More Unequal Countries

### Index of:

- Life expectancy
- Math & Literacy
- Infant mortality
- Homicides
- Imprisonment
- Teenage births
- Trust
- Obesity
- Mental illness – incl. drug & alcohol addiction
- Social mobility



Source: Wilkinson & Pickett, *The Spirit Level* (2009)

[www.equalitytrust.org.uk](http://www.equalitytrust.org.uk)

Equality Trust

# Le disuguaglianze in salute

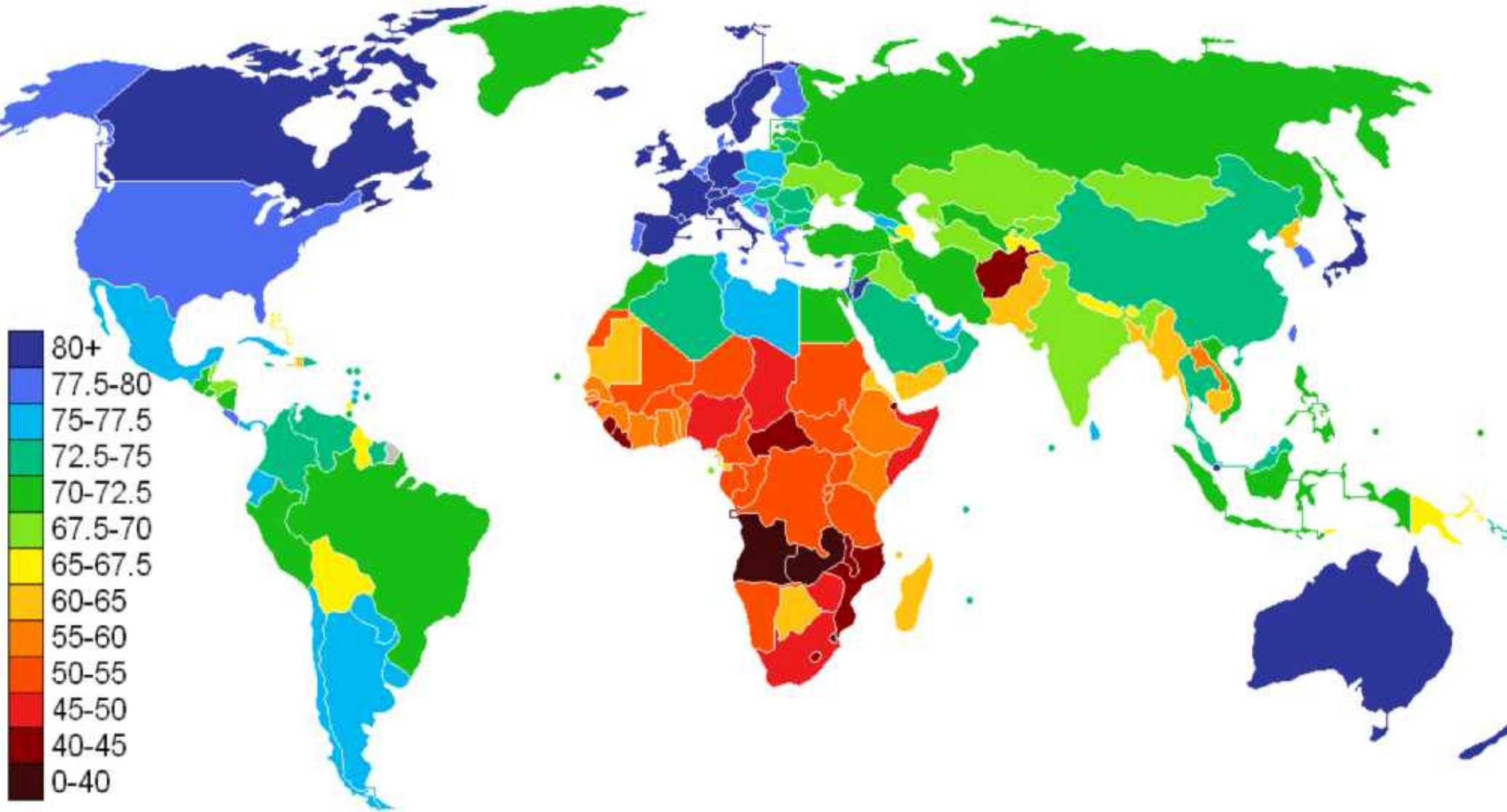
Per disuguaglianze in salute si intendono quelle differenze considerate **ingiuste** o **originate da qualche forma di ingiustizia** ed **evitabili**.

Parlare di disuguaglianza aggiunge un significato **morale** al significato di differenza (termine descrittivo).





# Life expectancy at birth, 2011



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Salute Internazionale e Interculturale  
Dipartimento di Scienze Mediche e Chirurgiche  
Università di Bologna

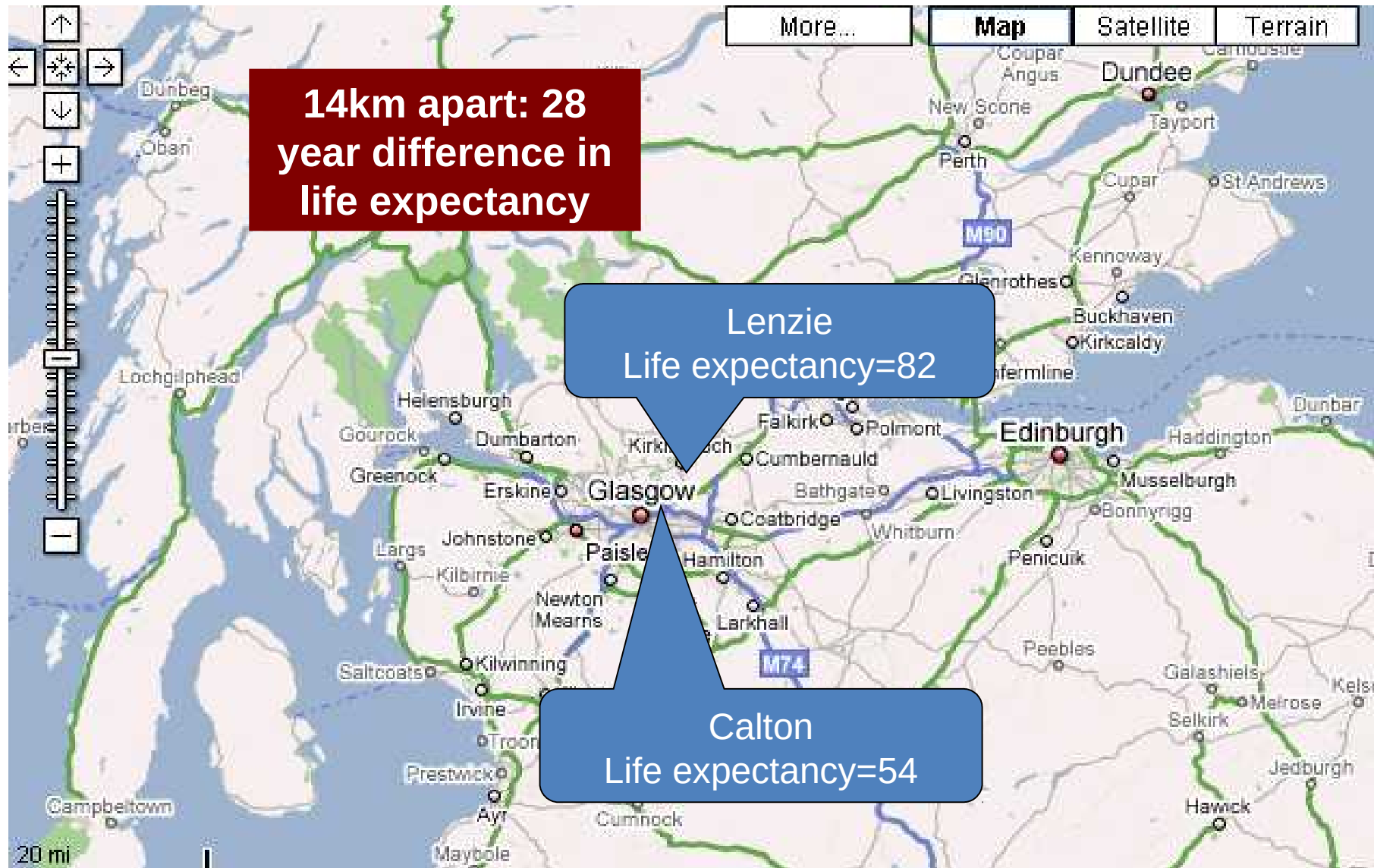
People's Health Movement



Health for ALL NOW!!



# Life expectancy in Glasgow



# Life expectancy in London

Travelling east from Westminster, each tube stop represents nearly one year of life expectancy lost

Male Life Expectancy  
77.7 (CI 75.6-79.7)

Female Life Expectancy  
84.2 (CI 81.7-86.6)

Westminster

Waterloo

Southwark

London Bridge

Bermondsey

Canada Water

Canary Wharf

Canning Town

North Greenwich

Male Life Expectancy  
71.6 (CI 69.9-73.3)  
Female Life Expectancy  
80.6 (CI 78.7-82.5)

London Underground

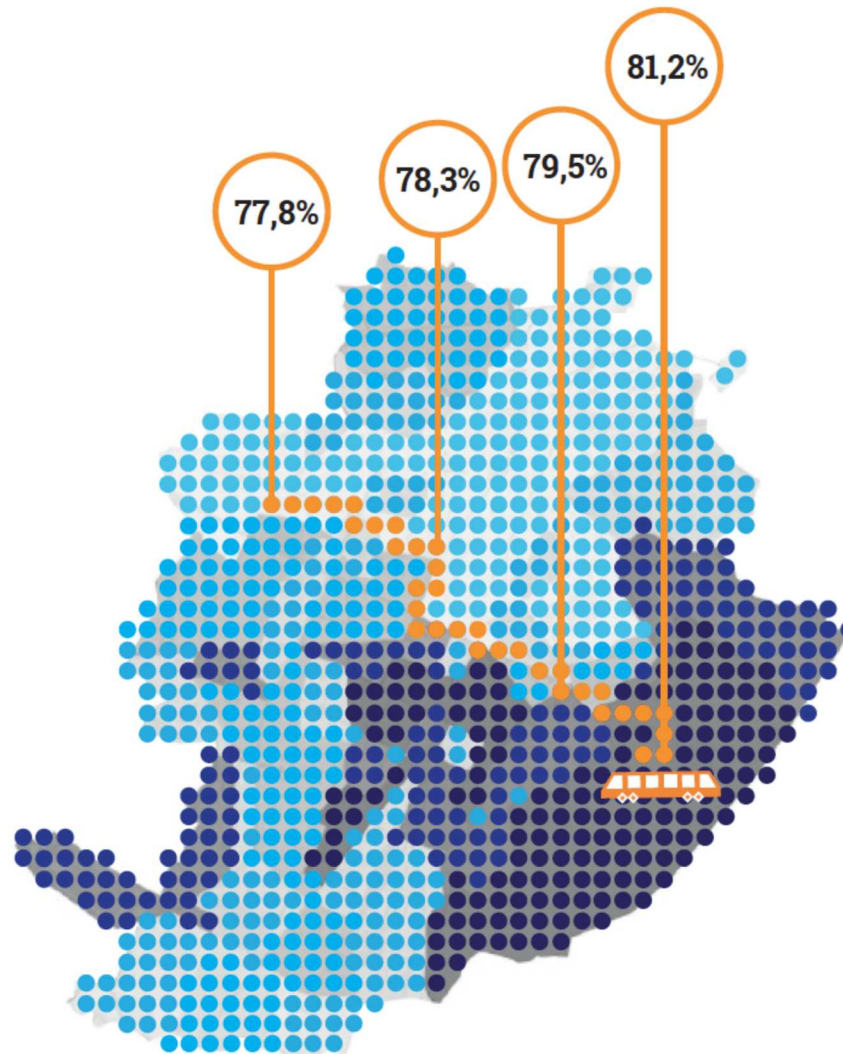
Jubilee Line

Electoral wards just a few miles apart geographically have life expectancy spans varying by years. For instance, there are eight stops between Westminster and Canning Town on the Jubilee Line – so as one travels east, each stop, on average, marks nearly a year of shortened lifespan.<sup>1</sup>



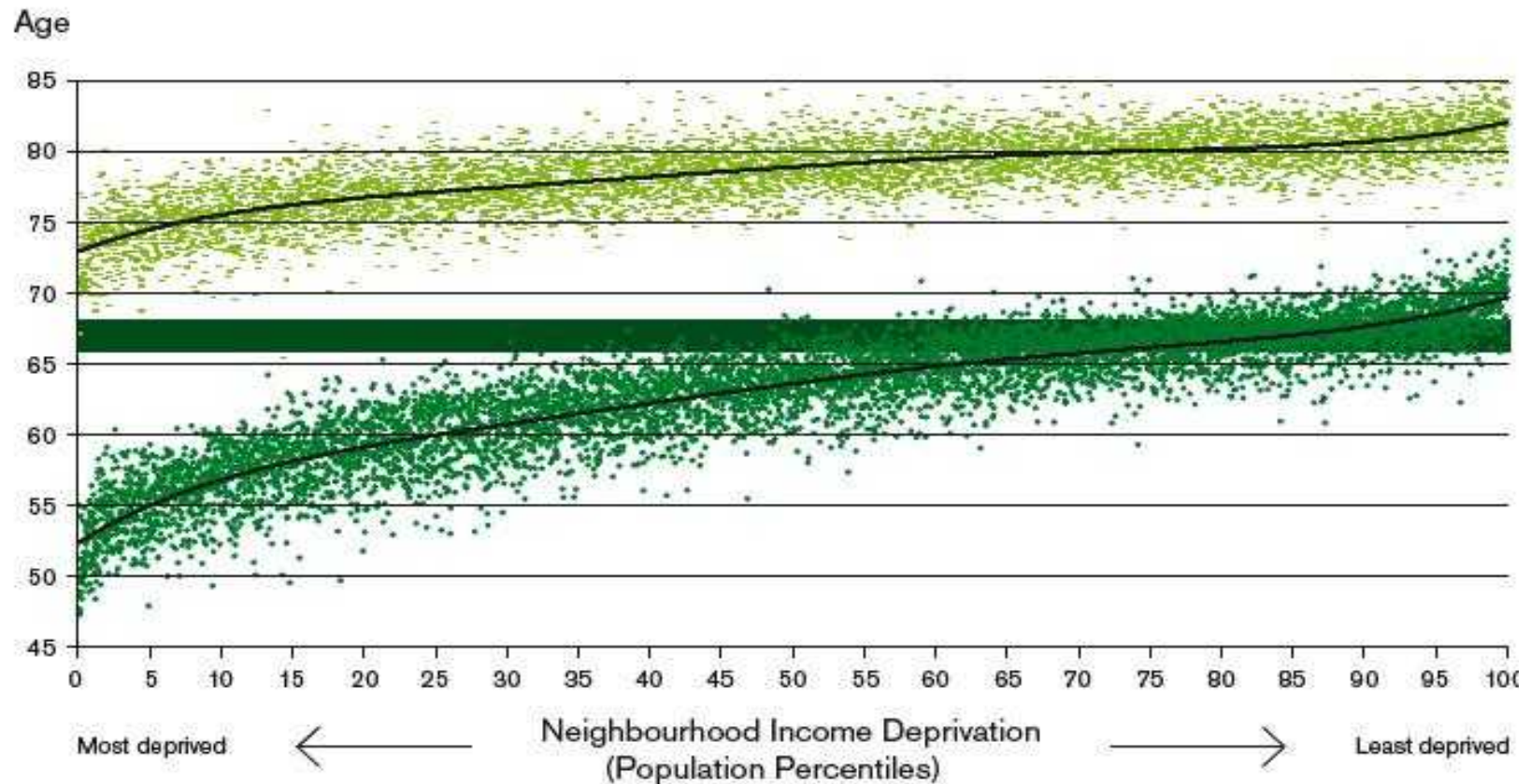
<sup>1</sup> Source: Analysis by London Health Observatory using Office for National Statistics data. Diagram produced by Department of Health

# Life expectancy in Turin



# Il gradiente sociale

Figure 1 Life expectancy and disability-free life expectancy (DFLE) at birth, persons by neighbourhood income level, England, 1999–2003



- Life expectancy
- DFLE
- Pension age increase 2026–2046

Source: Office for National Statistics<sup>5</sup>



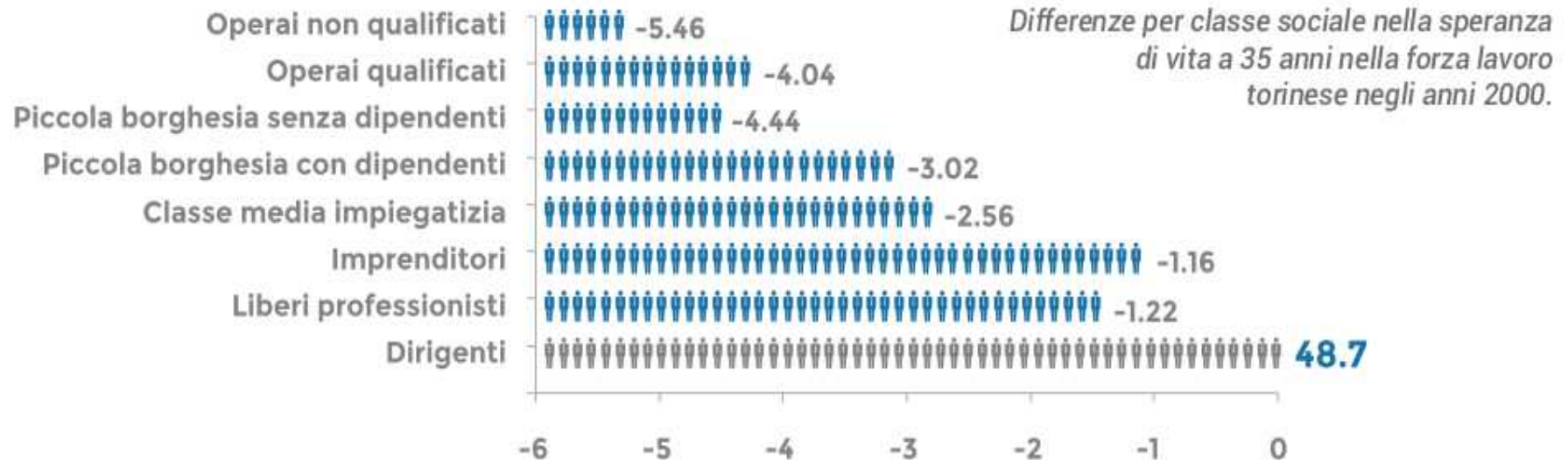
# Lavoro e aspettativa di vita

Il livello di salute di una società non dipende unicamente dalle capacità del sistema sanitario di erogare cure universali e appropriate e di tutelare il benessere fisico e mentale dei cittadini ma anche - e in buona parte - dalle condizioni di vita in cui gli individui nascono, crescono, vivono, lavorano ed invecchiano.



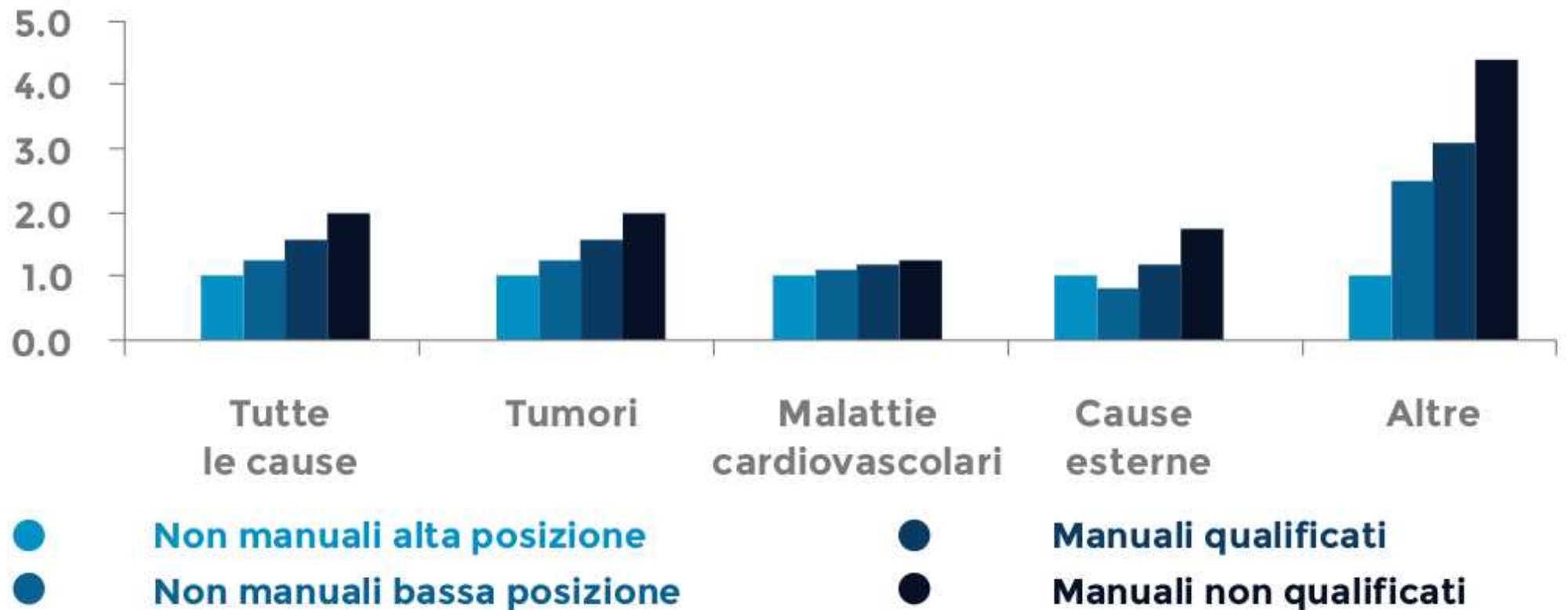
## 5 ANNI E MEZZO

è la differenza nella speranza di vita tra operaio e dirigente



Costa G., Bassi M., Censini G.F., Marra M., Nicelli A.L., Zengarini N. (a cura di), 2014, L'equità in salute in Italia. Secondo rapporto sulle disuguaglianze sociali in sanità, Fondazione Smith Kline, Franco Angeli, Milano.

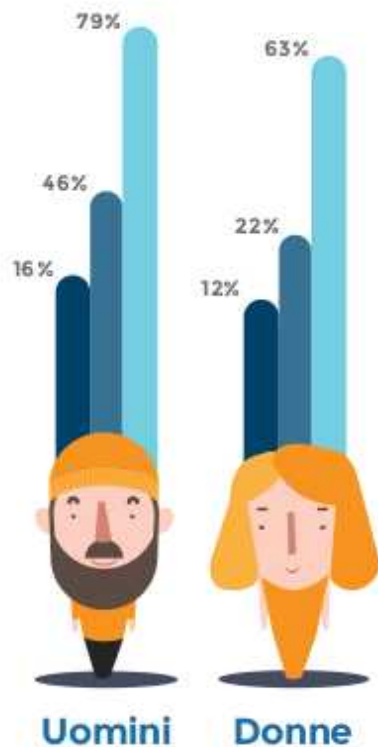
# Lavoro e mortalità



*Figura 3. Rischi relativi di morte per tipologia di lavoro e per varie cause nella popolazione maschile torinese.*

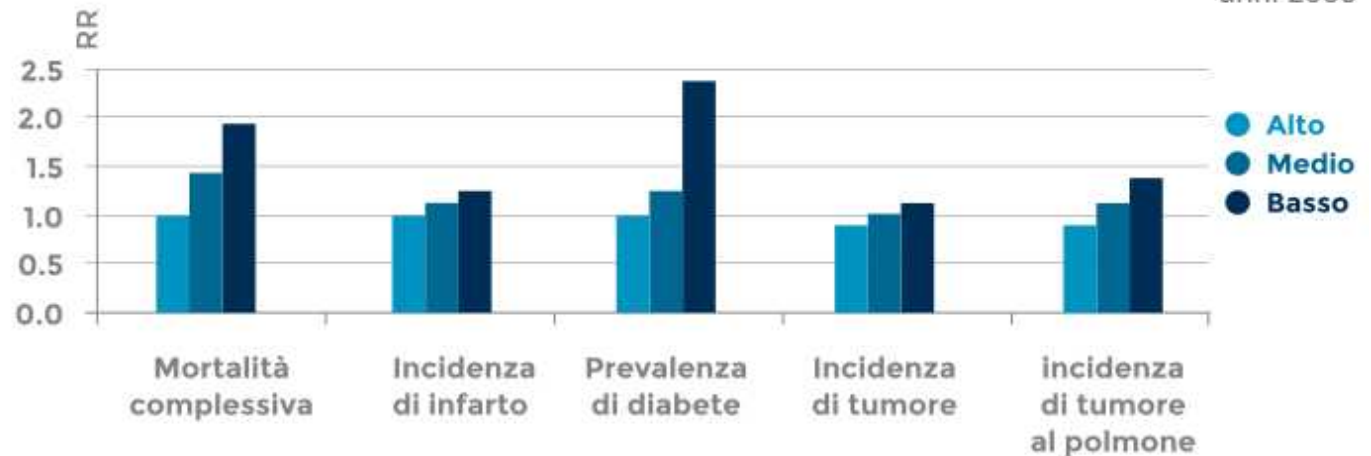
# Istruzione e salute

In Italia, negli anni 2000, il rischio di morire cresce con l'abbassarsi del titolo di studio.



- Diploma di maturità
- Media inferiore
- Elementari

Rischi relativi (RR) per livello d'istruzione a Torino  
anni 2000



Tali differenze sono chiamate disuguaglianze sociali nella salute e presentano tre caratteristiche:

**Tendono a colpire sistematicamente gli stessi gruppi sociali.**

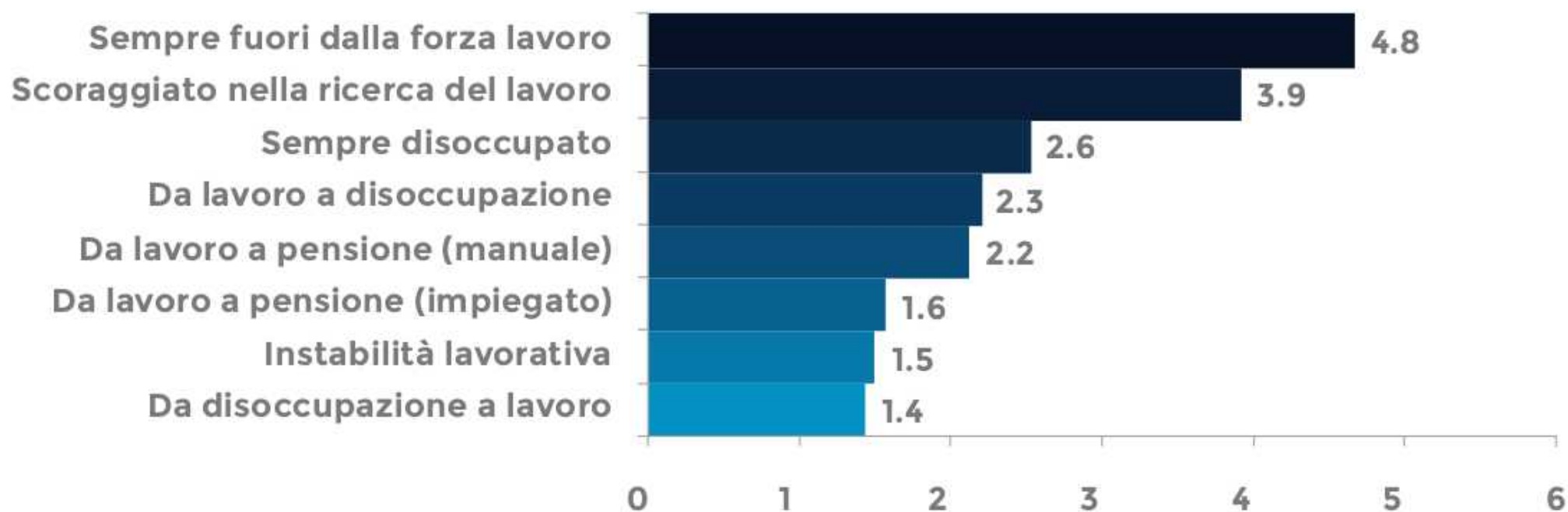
**Non riguardano unicamente i più sfortunati:**

mano a mano che si risale lungo la scala sociale gli indicatori di salute hanno valori più favorevoli, secondo quello che viene definito gradiente sociale.

**Sono socialmente costruite e quindi ingiuste.**

Costa G., Bassi M., Censini G.F., Marra M., Nicelli A.L., Zengarini N. (a cura di), 2014, L'equità in salute in Italia. Secondo rapporto sulle disuguaglianze sociali in sanità, Fondazione Smith Kline, Franco Angeli, Milano.

# Mortalità e 'traiettorie occupazionali'



**Figura 1.** Rischi relativi di mortalità, standardizzati per età, secondo le traiettorie occupazionali tra il 1971 e il 1991 (categoria di riferimento: sempre occupati) tra gli uomini a Torino, 1991-96.





# Situazione in Italia

Le persone meno istruite di sesso maschile mostrano una speranza di vita alla nascita inferiore di **3 anni** rispetto alle persone più istruite; nelle regioni del Sud, indipendentemente dal livello di istruzione, i residenti perdono **un ulteriore anno** di speranza di vita. Le disuguaglianze sociali nella mortalità sono presenti in tutte le regioni, ma sono più marcate in quelle più povere del Mezzogiorno.

Le differenze geografiche, al netto delle differenti strutture della popolazione per età e titolo di studio, producono **differenziali di mortalità per tutte le cause da -15% a +30% nelle donne e da -13% a +26% negli uomini**, rispetto alla media nazionale.

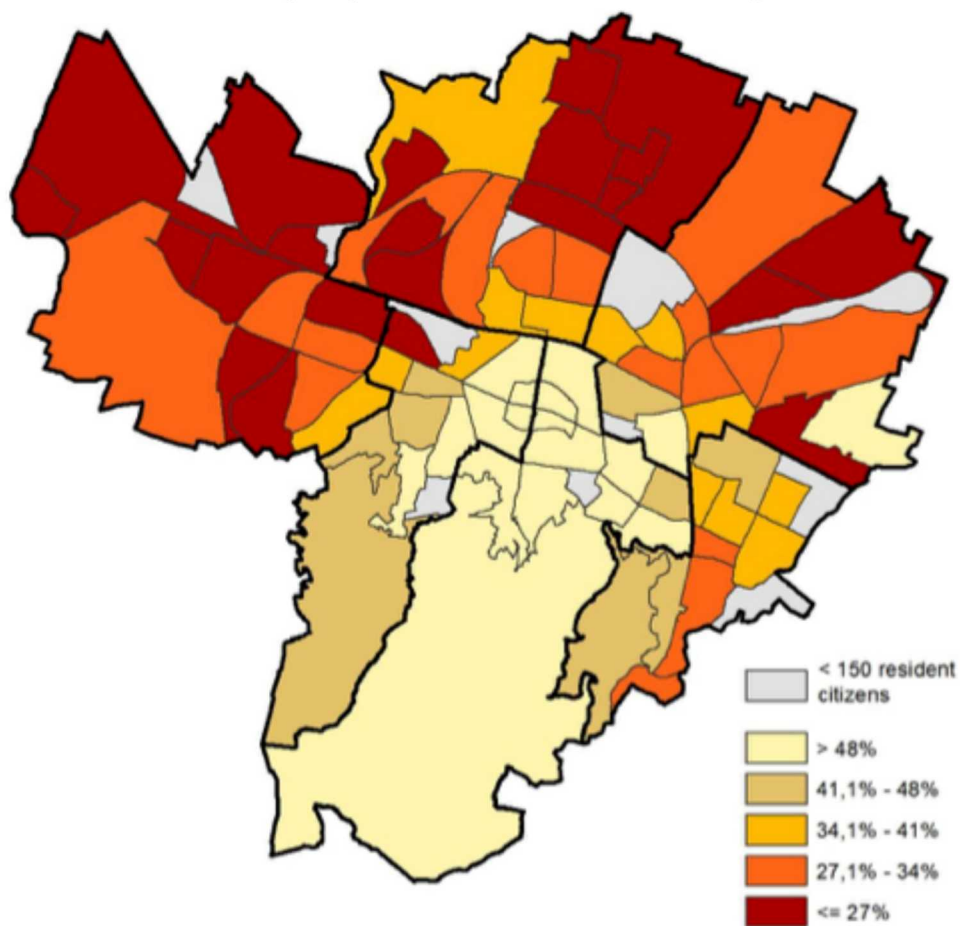
Si osserva un **netto gradiente di mortalità con eccesso al Sud per le malattie cardiovascolari**, dove vi sono aree in cui la mortalità tra i più istruiti è superiore a quella dei meno istruiti residenti in alcune aree del Nord. Al contrario, **il gradiente è da Sud a Nord per la causa «Tutti i tumori» e per la maggior parte delle singole sedi tumorali.**

In Italia, la mortalità per tutte le cause attribuibili al basso livello d'istruzione, al netto della struttura della popolazione per età, è del **13,4%** nelle donne e del **18,3%** negli uomini.

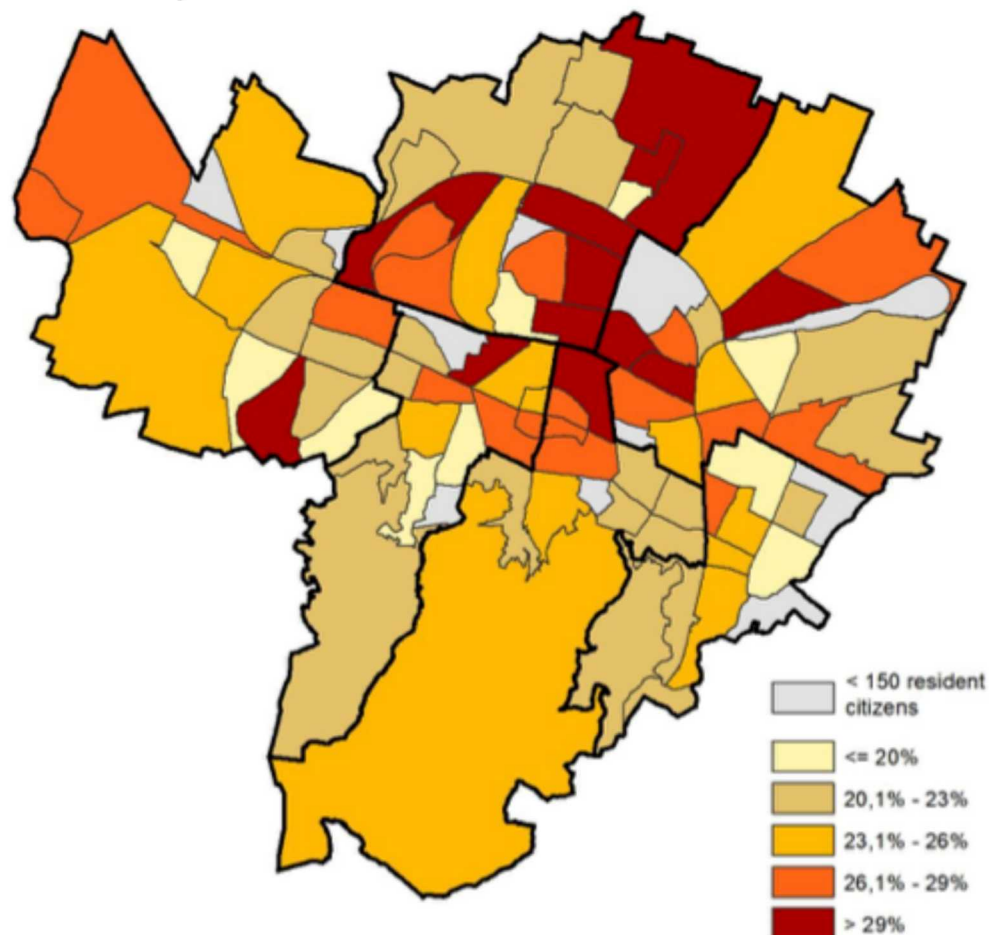


# Situazione a Bologna

Proportion of graduates (25-44 years)  
over total population (25-44 years)



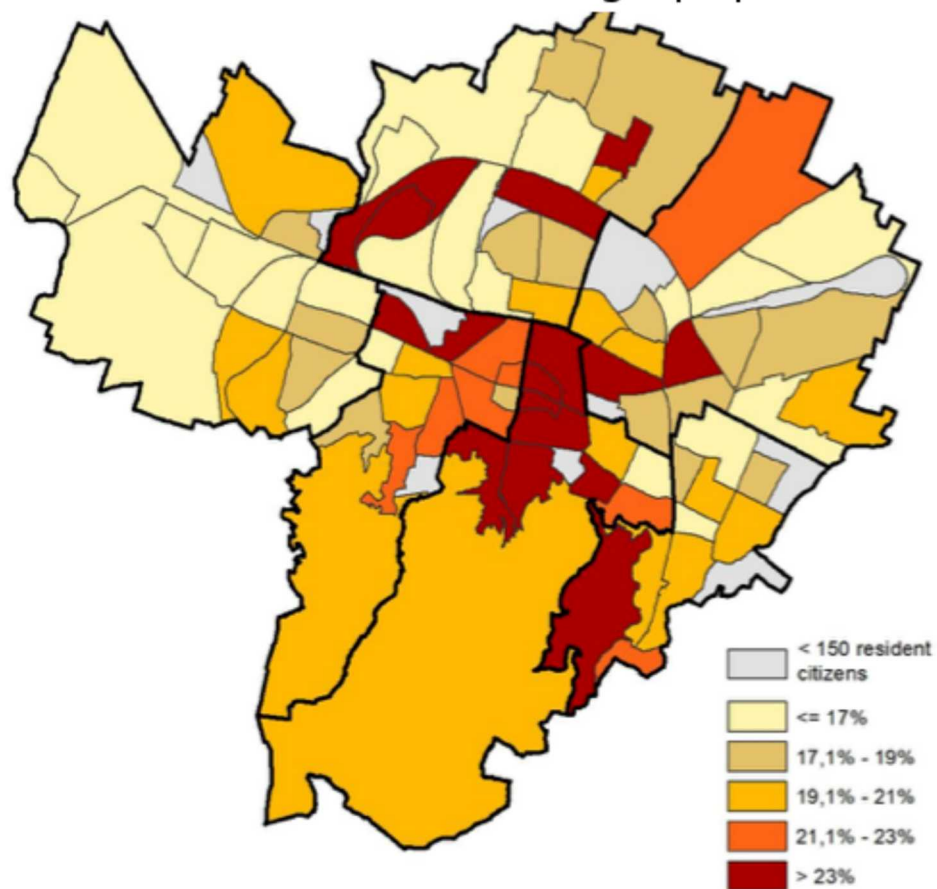
Proportion of families with a per-capita  
equalised income <12.338 €



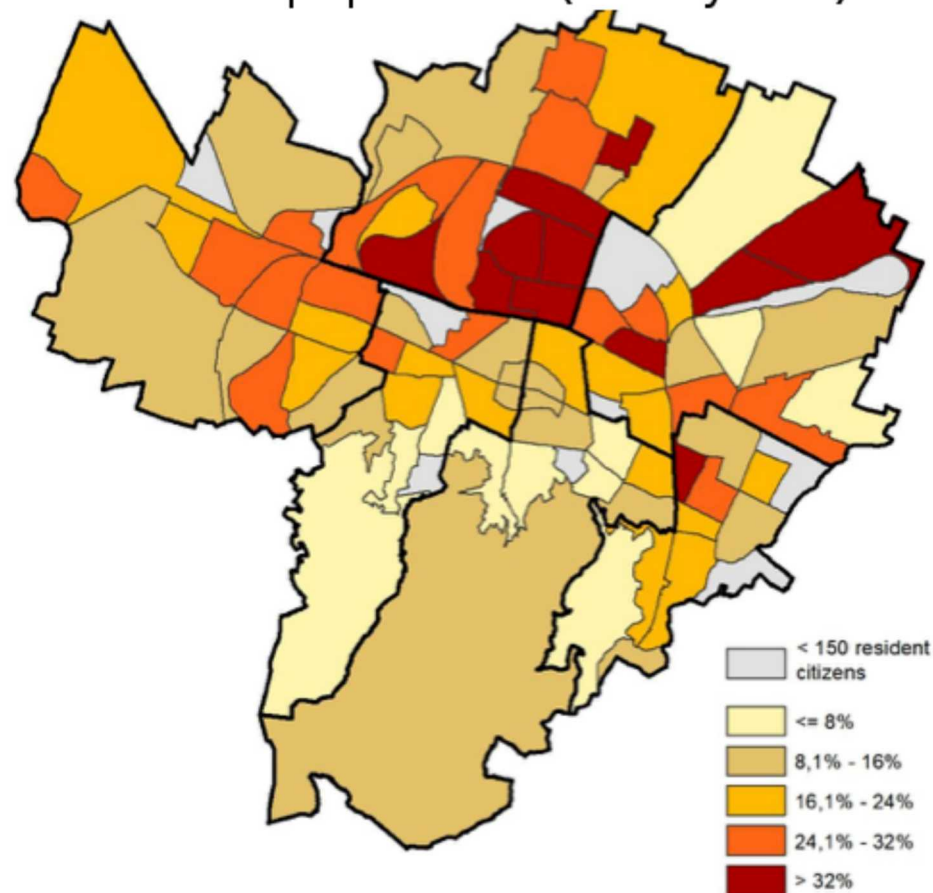


# Situazione a Bologna

Proportion of underages in singleparent families over total underage population



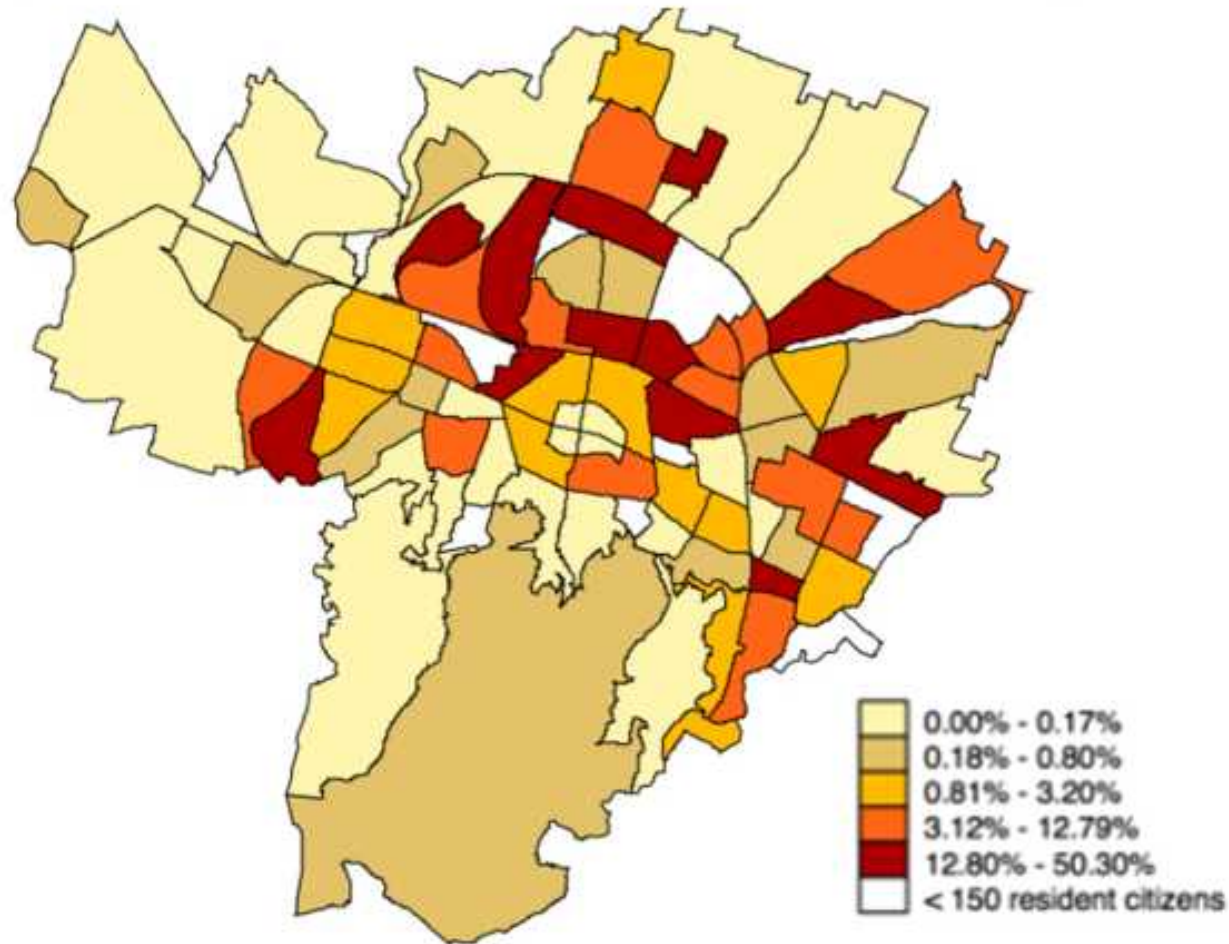
Proportion of foreign population(0-19 years) over total population (0-19 years)





# Situazione a Bologna

Proportion of residents in council housing



# Disuguaglianze in salute

“Quale che sia l'indicatore di **posizione sociale** impiegato - *l'istruzione, la classe sociale, le caratteristiche dell'abitazione* - il **rischio di mortalità** cresce in ragione inversa delle risorse sociali di cui gli individui dispongono.”

*G. Costa, M. Cardano, M. Demaria, Torino, storie di salute in una grande città. Città di Torino, Ufficio di statistica, Osservatorio socioeconomico torinese, 1998.*

\*



Commission on  
**Social Determinants of Health**

Commission on Social Determinants of Health FINAL REPORT



World Health  
Organization



Commission on  
**Social Determinants of Health**

# Closing the gap in a generation

Health equity through action on  
the social determinants of health



CS

Dove le sistematiche differenze in salute sono considerate **evitabili** mediante interventi ragionevoli, esse sono, semplicemente, **ingiuste**.  
È ciò che chiamano iniquità in salute.  
Raddrizzare queste iniquità – le immense e rimediabili differenze in salute tra paesi e all'interno dei paesi – è una questione di giustizia sociale. Ridurre le iniquità in salute è, per la Commissione sui Determinanti Sociali della Salute, un imperativo etico. **L'ingiustizia sociale sta uccidendo persone su larga scala.**





Questa iniqua distribuzione non è un fenomeno “**naturale**”, ma il risultato di politiche che privilegiano gli interessi di alcuni su quelli di altri – troppo spesso quelli di una ricca e potente minoranza sugli interessi di una maggioranza privata di potere.



DARK  
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DAILY TRIBUNE  
CAGLECARTOONS.COM  
4/7

072007

WELL, I  
LEFT YOU  
HALF!

WHAT ARE YOU,  
GREEDY?



CSI

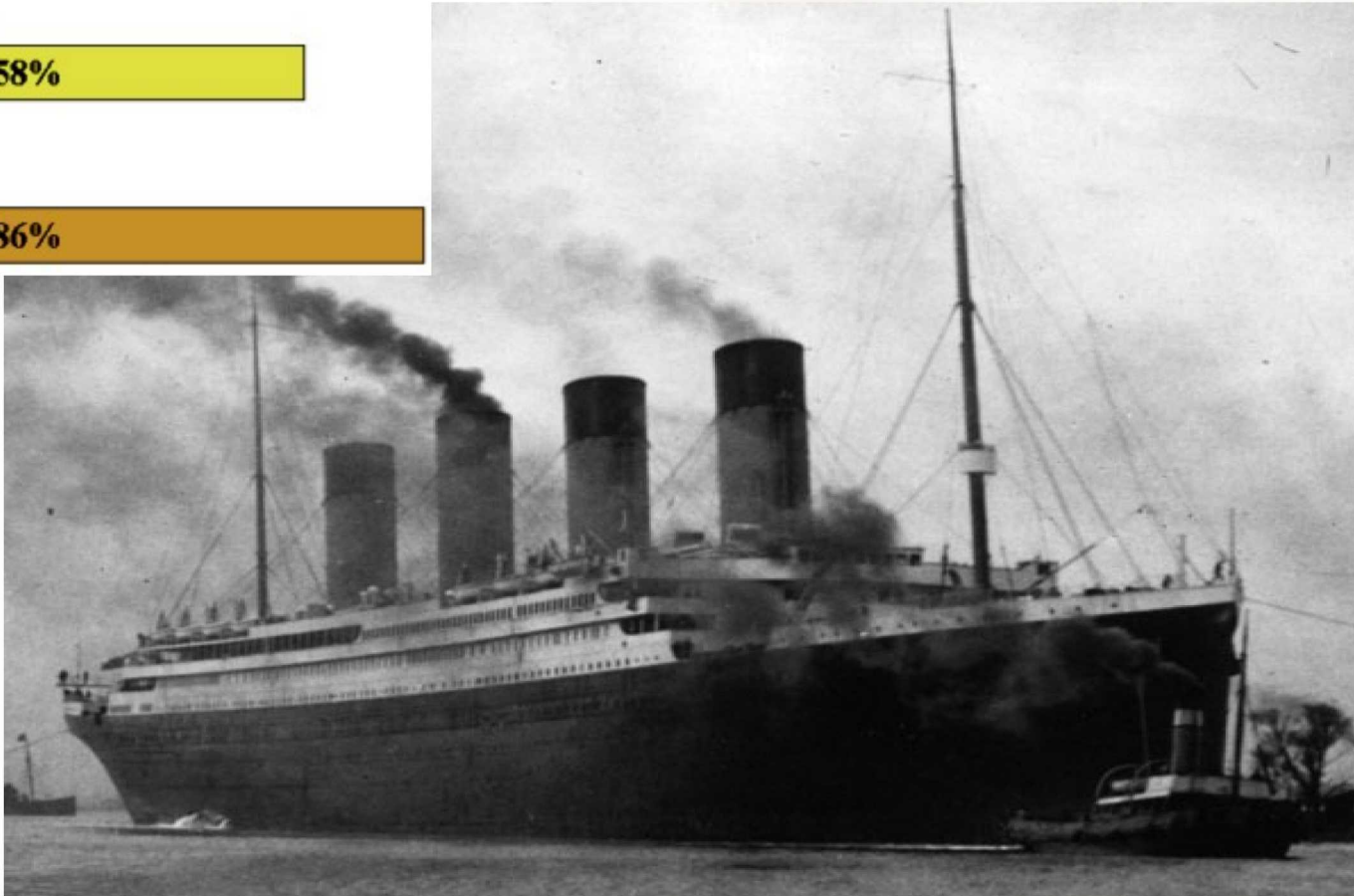
# TITANIC: mortalità dei passeggeri secondo la classe di imbarco

CLASSE

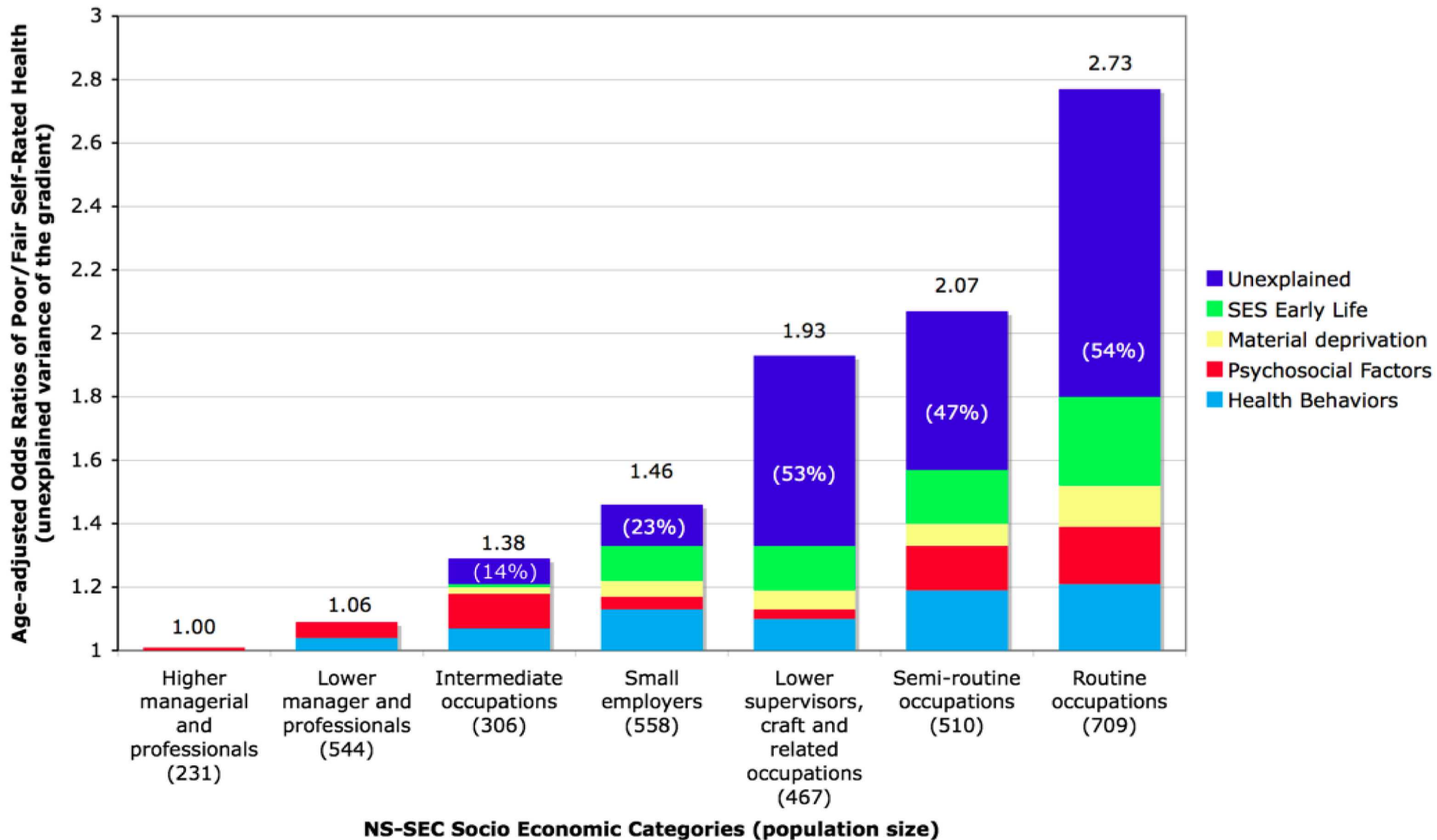
I 40%

II 58%

III 86%



# Socioeconomic Gradient of Health

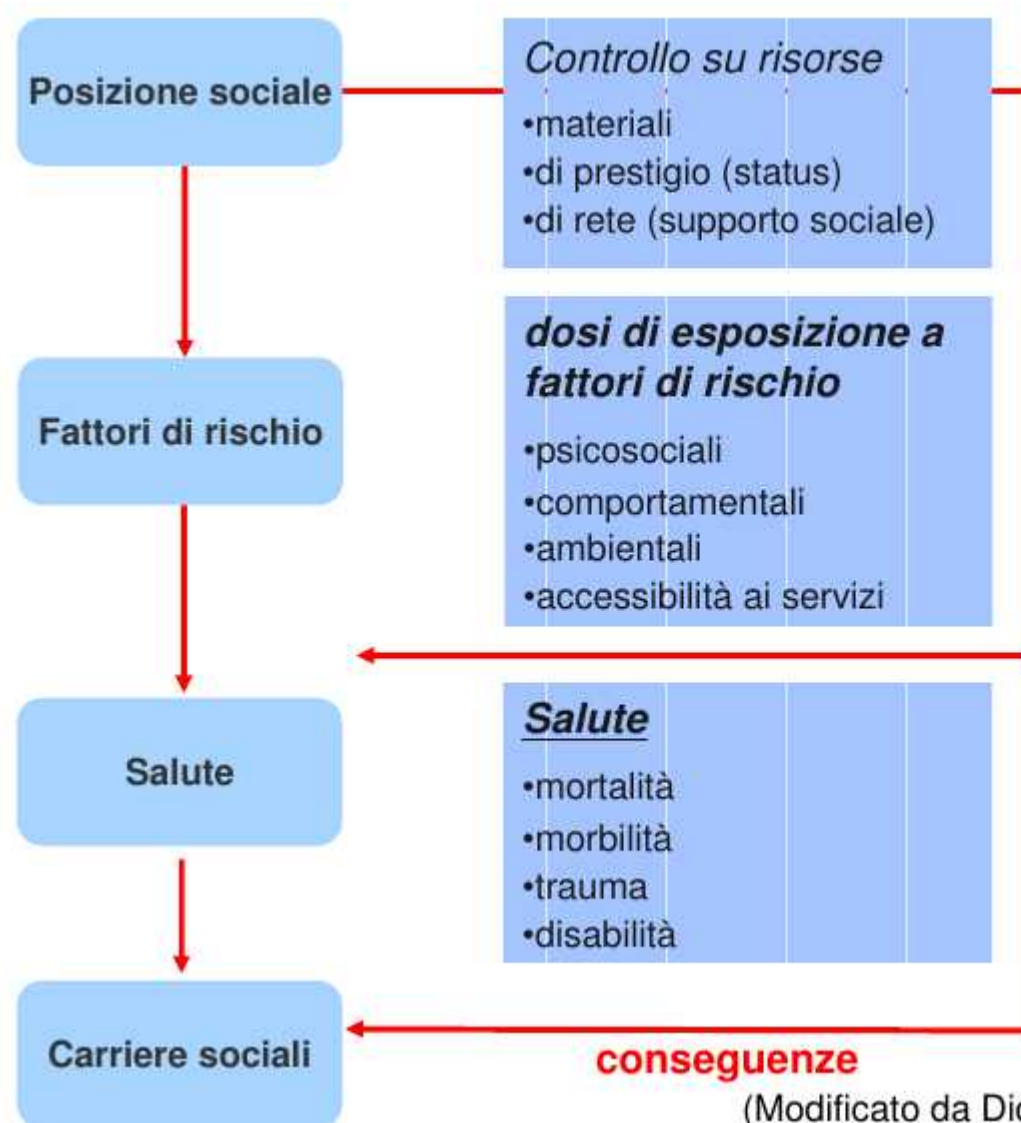






*“Si tratta di sostituire un pensiero che separa e riduce con un pensiero che distingue e collega.” (E. Morin)*

# Posizione sociale e salute



(Modificato da Diderichsen et al. 2001)

Fonte: Costa, 2017

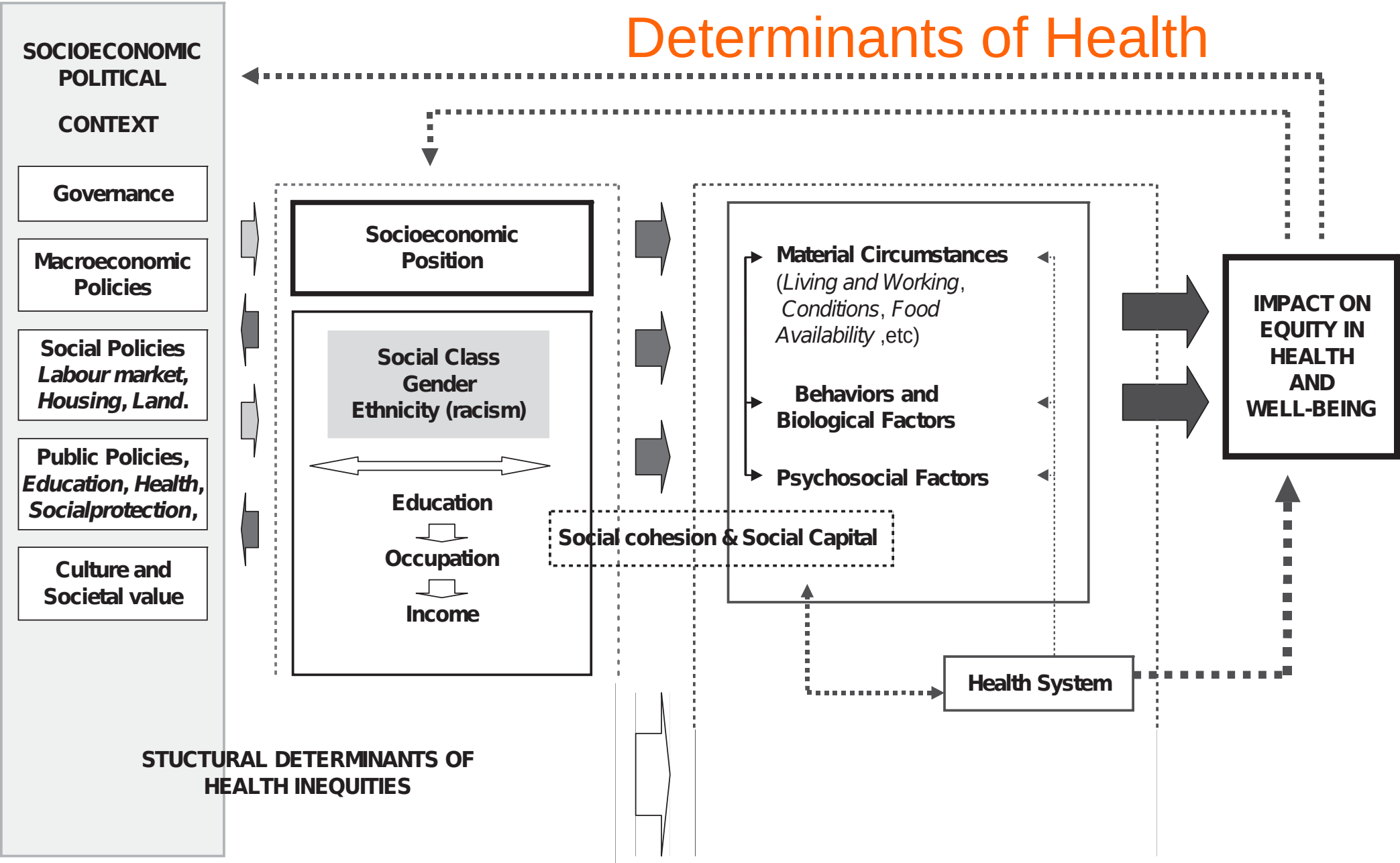
# Life-course perspective

Socio-economic conditions act upon individuals' health status even at a distance in time. There is a described association between socio-economic conditions in early childhood and mortality in adulthood.

(D. Kuh et al., *BMJ* 2002; 325:1076-80)



# Commission on the Social Determinants of Health



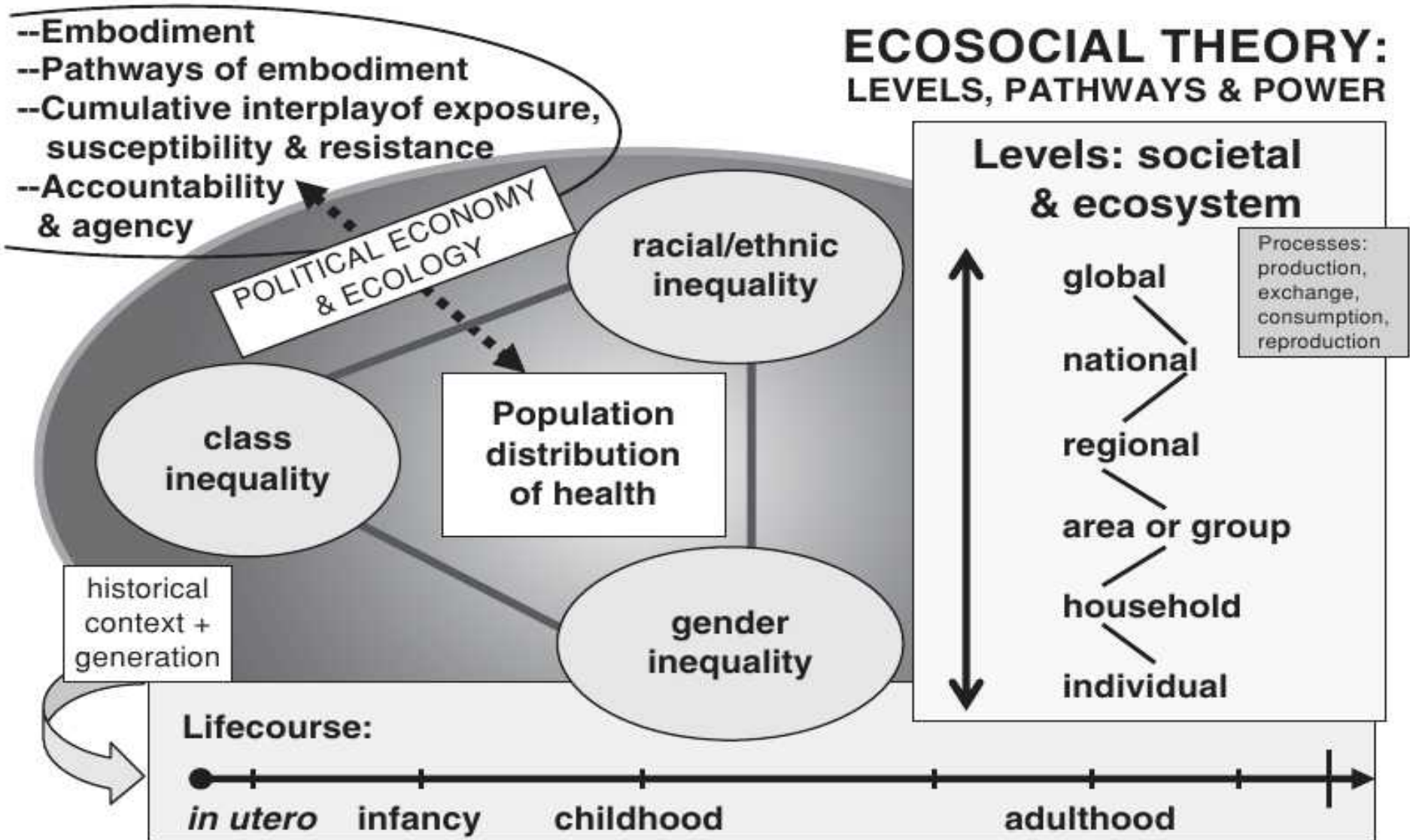
Source: CSDH, WHO, 2010





# Eco-social theory (2008)

## ECOSOCIAL THEORY: LEVELS, PATHWAYS & POWER



**Figure 7-1.** Ecosocial theory and embodying inequality: core constructs. (Krieger, 1994; Krieger, 2008a)



# 10 tips for staying healthy

1. Don't smoke. If you can, stop. If you can't, cut down.

2. Follow a balanced diet with plenty of fruit and vegetables.

3. Keep physically active.

4. Manage stress by, for example, talking things through and making time to relax.

5. If you drink alcohol, do so in moderation.

6. Cover up in the sun, and protect children from sunburn.

7. Practise safer sex.

8. Take up cancer screening opportunities.

9. Be safe on the roads: follow the Highway Code.

10. Learn the First Aid ABC: airways, breathing, circulation.

1. Don't be poor. If you can, stop. If you can't, try not to be poor for long.

2. Don't have poor parents.

3. Own a car.

4. Don't work in a stressful, low paid manual job.

5. Don't live in damp, low quality housing.

6. Be able to afford to go on a foreign holiday and sunbathe.

7. Practice not losing your job and don't become unemployed.

8. Take up all benefits you are entitled to, if you are unemployed, retired or sick or disabled.

9. Don't live next to a busy major road or near a polluting factory.

10. Learn how to fill in the complex housing benefit/asylum application forms before you become homeless and destitute.

# The Commission's overarching recommendations

## 1 Improve Daily Living Conditions

Improve the well-being of girls and women and the circumstances in which their children are born, put major emphasis on early child development and education for girls and boys, improve living and working conditions and create social protection policy supportive of all, and create conditions for a flourishing older life. Policies to achieve these goals will involve civil society, governments, and global institutions.

## 2 Tackle the Inequitable Distribution of Power, Money, and Resources

In order to address health inequities, and inequitable conditions of daily living, it is necessary to address inequities – such as those between men and women – in the way society is organized. This requires a strong public sector that is committed, capable, and adequately financed. To achieve that requires more than strengthened government – it requires strengthened governance: legitimacy, space, and support for civil society, for an accountable private sector, and for people across society to agree public interests and reinvest in the value of collective action. In a globalized world, the need for governance dedicated to equity applies equally from the community level to global institutions.

## 3 Measure and Understand the Problem and Assess the Impact of Action

Acknowledging that there is a problem, and ensuring that health inequity is measured – within countries and globally – is a vital platform for action. National governments and international organizations, supported by WHO, should set up national and global health equity surveillance systems for routine monitoring of health inequity and the social determinants of health and should evaluate the health equity impact of policy and action. Creating the organizational space and capacity to act effectively on health inequity requires investment in training of policy-makers and health practitioners and public understanding of social determinants of health. It also requires a stronger focus on social determinants in public health research.



# Che fare? Politiche di salute

- Analizzare lo stato di salute e di accesso ai servizi di salute usando una **lente di equità**
- Agire sui **determinanti primari**, cioè più a monte, delle disuguaglianze e delle iniquità
- Investire su un'**offerta equa**, ma anche sulla domanda di servizi
- Investire nei **periodi di maggiore vulnerabilità** lungo il corso della vita
- Investire nelle **malattie della povertà**
- Investire nei **gruppi sociali più vulnerabili**
- Assicurare l'**accesso a cure di qualità**
- Usare **obiettivi ed indicatori di equità**



- I progressi sanitari più importanti nei paesi ricchi sono stati ottenuti con politiche che hanno affrontato in primo luogo la **povertà**, e contemporaneamente le **cause intermedie di esposizione** e suscettibilità alle malattie (istruzione, lavoro, nutrizione, ambiente, etc)
- Gli interventi sanitari sono efficaci solo quando si impiantano sopra questo substrato
- Questo approccio è possibile solo se si considera la salute, ed i servizi di salute, come un **diritto**, e non come una merce o un bene di consumo
- Le scorciatoie servono solo ad alleviare a breve termine le peggiori conseguenze della disuguaglianza e della povertà, non ad intraprendere la strada di miglioramenti permanenti

*“The primary determinants of disease are mainly economic and social, and therefore its remedies must also be economic and social. Medicine and politics cannot and should not be kept apart”.*

Geoffrey Rose

“The strategy of preventive medicine”, 1992.



THANK YOU!



*“To do nothing is as much a political decision as to challenge an issue head-on”.*

Delamothe T.,  
2002

