Date	Topics	You
9 December	Your communication projects: ho to plan and deliver. Some possible examples	Think what you would like to do
10 December	Your communication projects: your proposals	Define your activity: preliminary projects
16 December	Sunoj Shresta from Karkhana, Kathmandu (online)	
17 December	a) Did it work? Introduction to evaluation. b) Your communication projects: your proposals	Final proposals to be presented
13 January	Wrap up of the course and evaluation	Ideas, comments, proposals for a possible edition 2022-23
14 January	Vanessa Mignan from Paris and Croatia, on diversity and inclusion (possibly face-to-face)	



CAN SCIENCE BE A TOOL FOR SOCIAL INCLUSION?



ARE THEY ALL SO HARD TO REACH?

OR ARE WE HARD TO REACH?

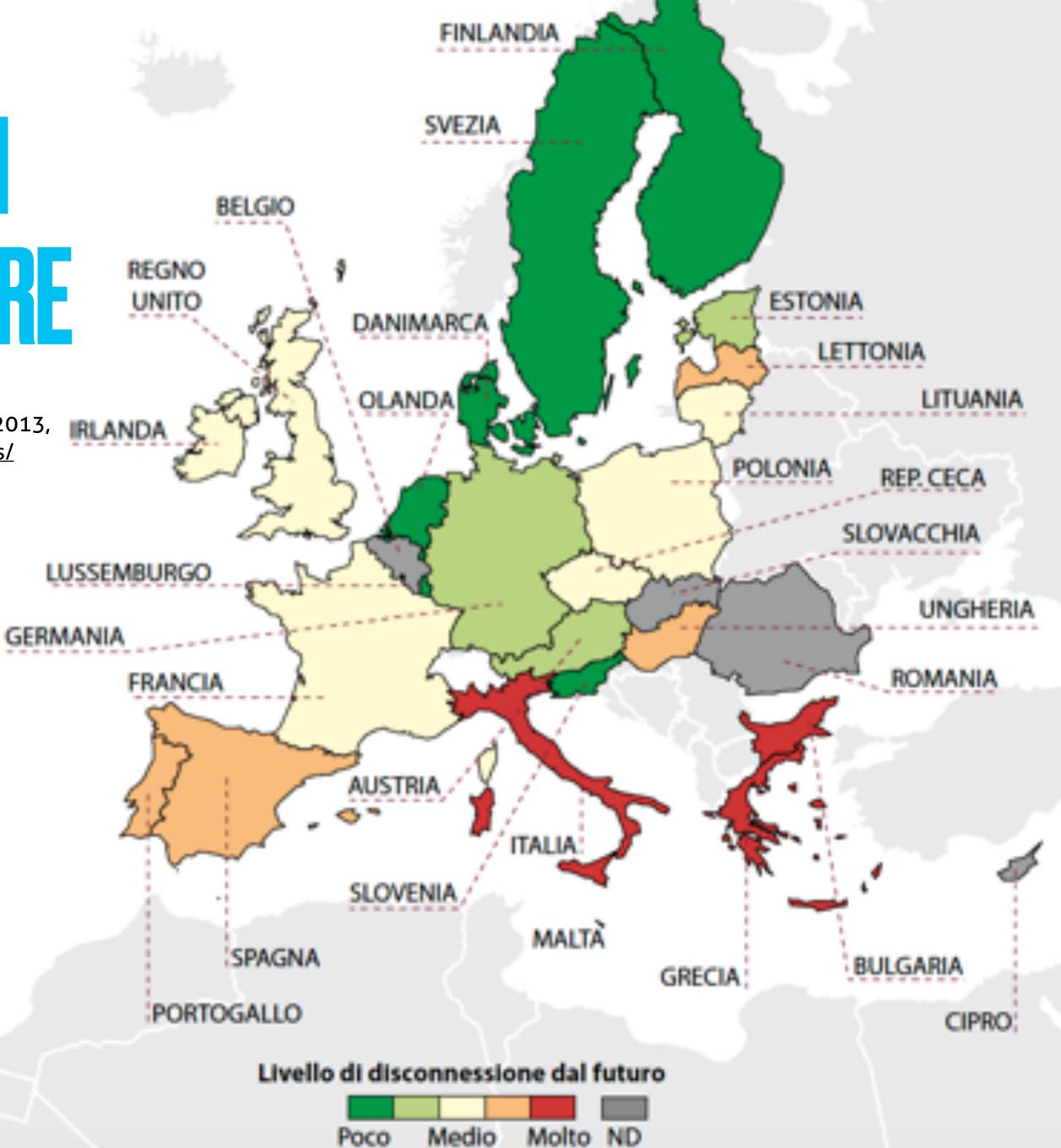
WHAT ARE THE FACTORS THAT CAN PREVENT PEOPLE TO ACCESS SCIENCE?

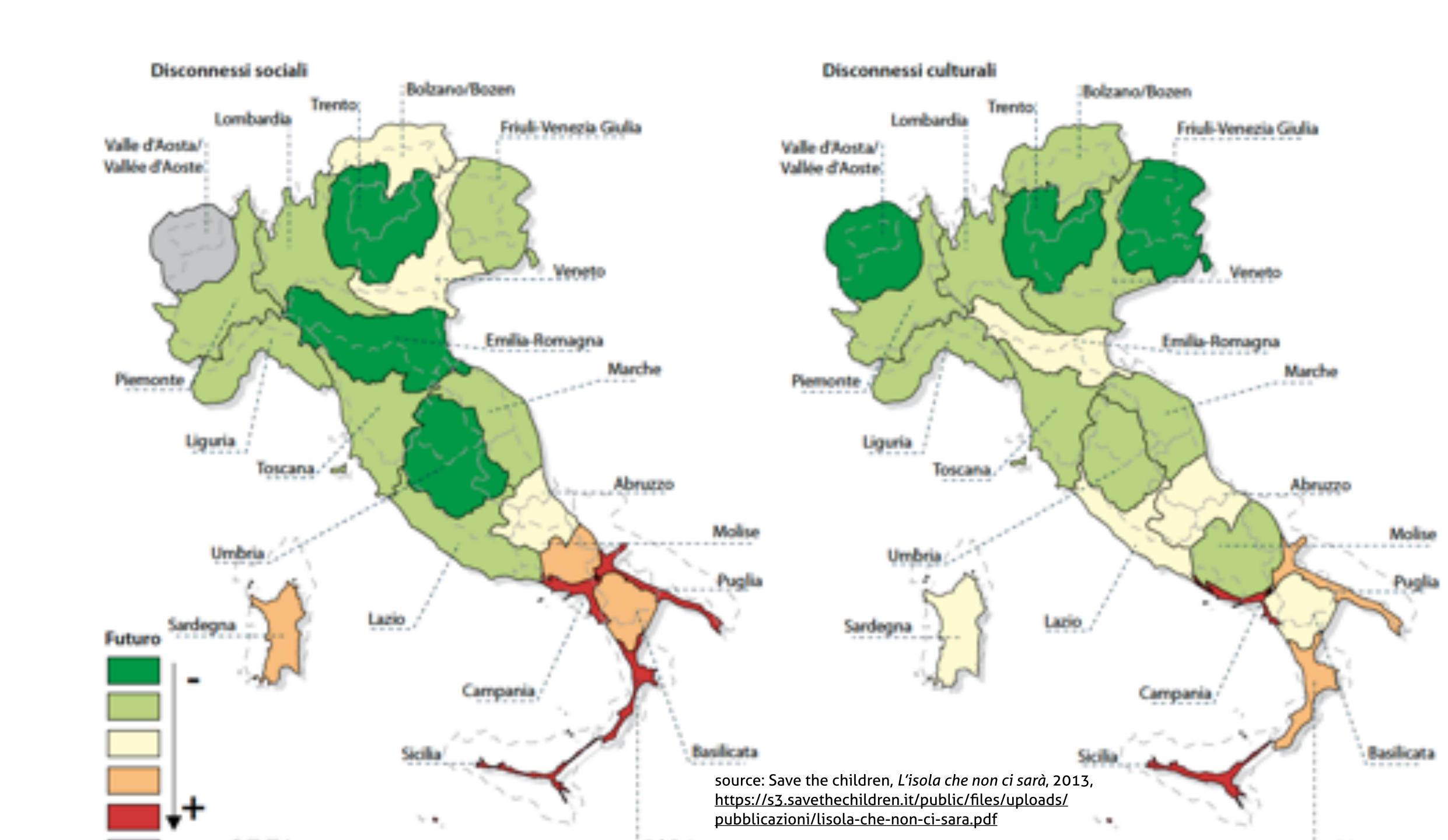
LET'S HAVE A LOOK AT...

POVERTY SOCIAL CONDITIONS WAR AND CRIMINALITY

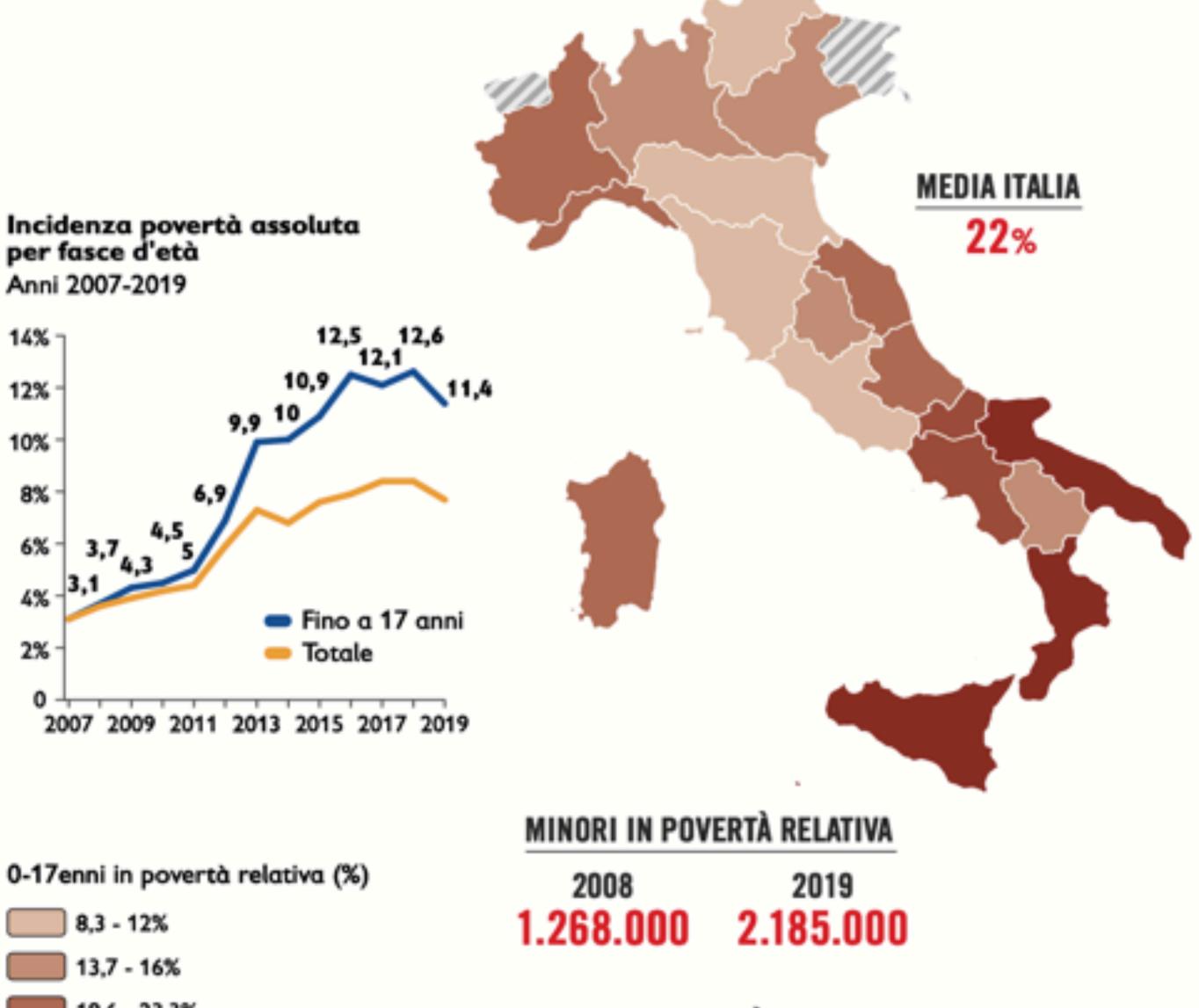
DISCONNECTION FROM THE FUTURE

source: Save the children, *L'isola che non ci sarà*, 2013, https://s3.savethechildren.it/public/files/uploads/
pubblicazioni/lisola-che-non-ci-sara.pdf





POVERTY



19,6 - 23,3%

28 - 34,4%

38,8 - 42,4%

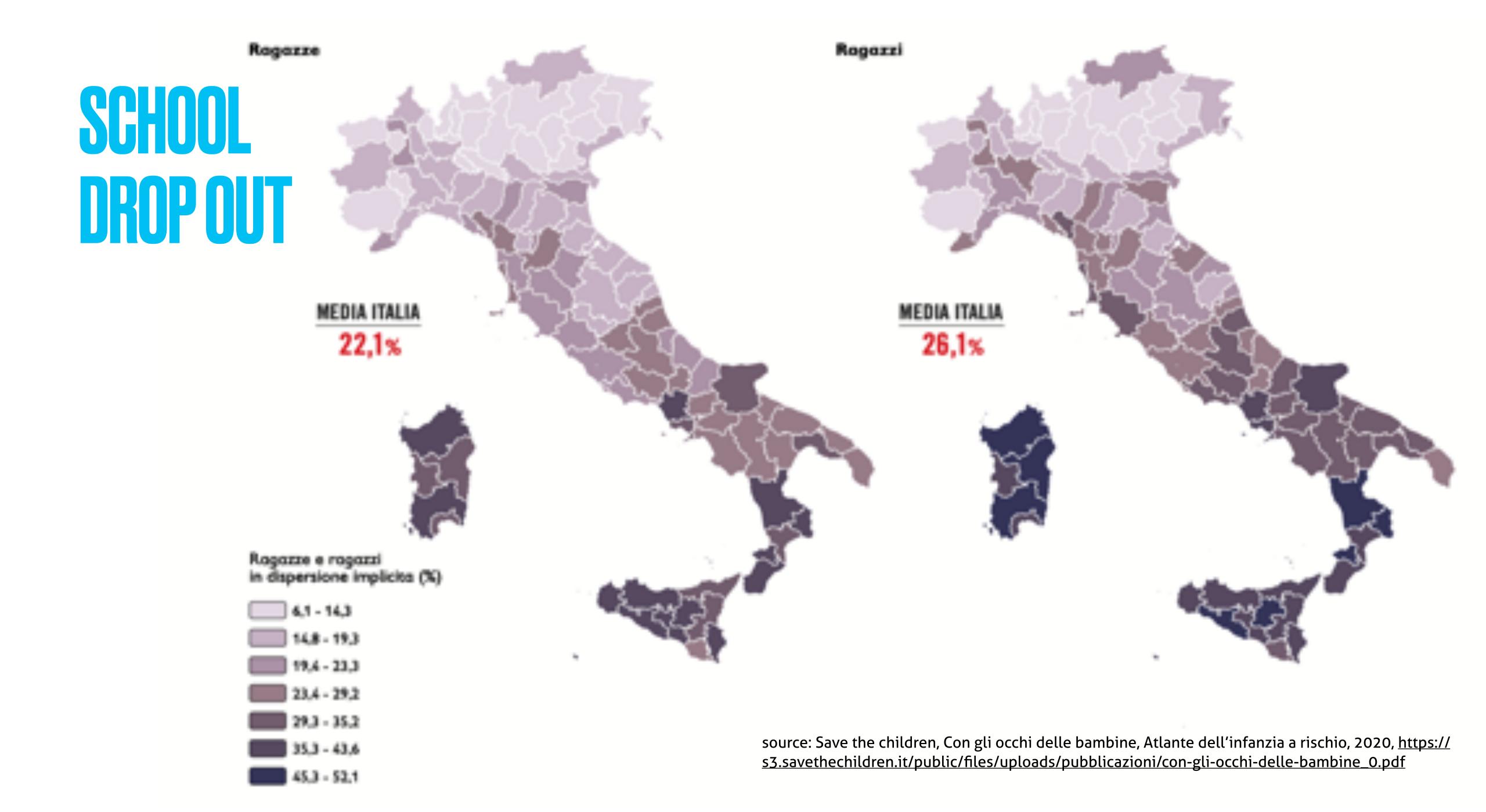
//// N.D.

MINORI IN POVERTÀ ASSOLUTA

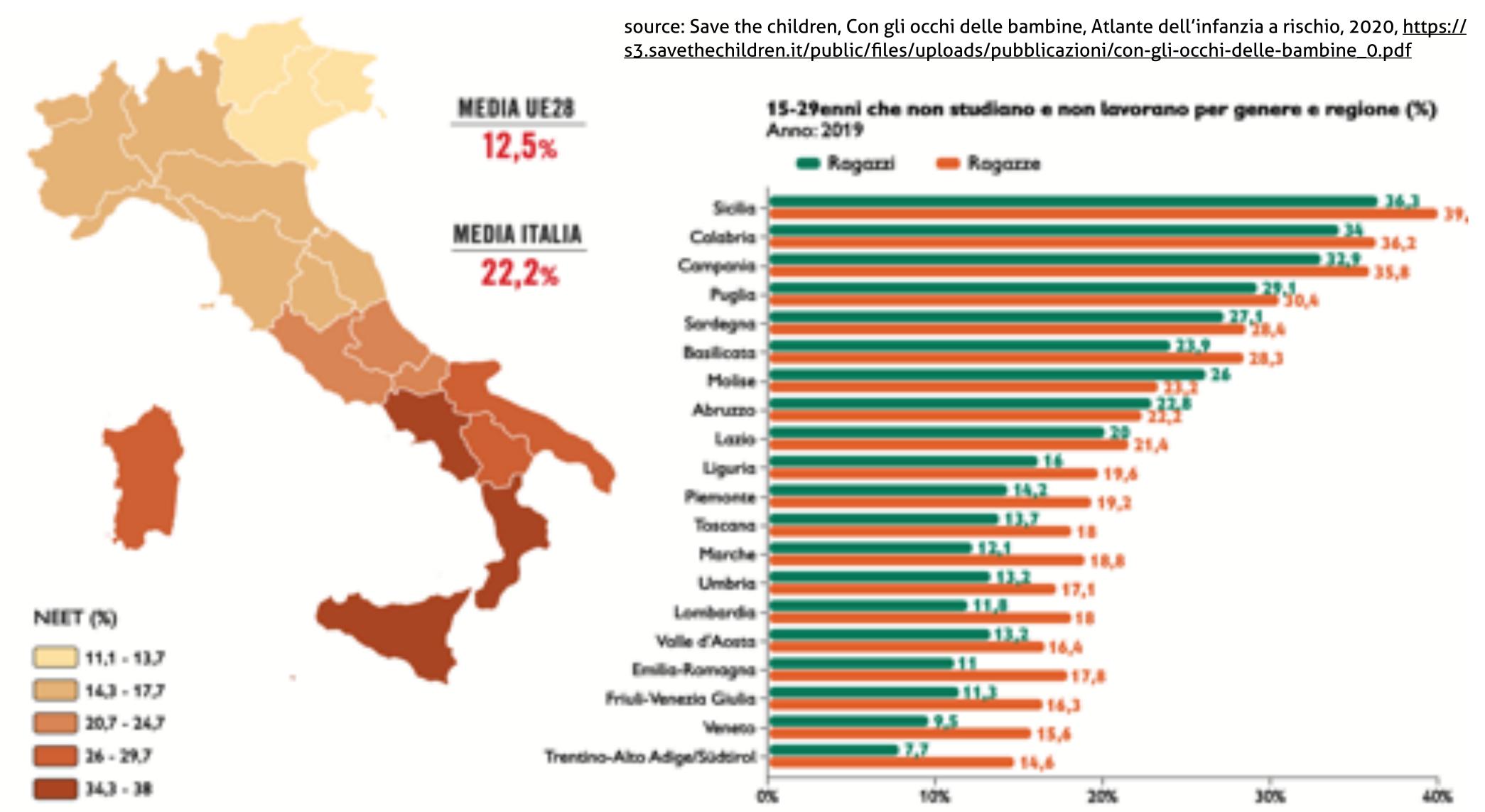
2008 **375.000** 2019

1.137.000

source: Save the children, Con gli occhi delle bambine, Atlante dell'infanzia a rischio, 2020, https://s3.savethechildren.it/public/files/uploads/
pubblicazioni/con-gli-occhi-delle-bambine_0.pdf



NEET (NOT IN EMPLOYMENT EDUCATION, TRAINING)



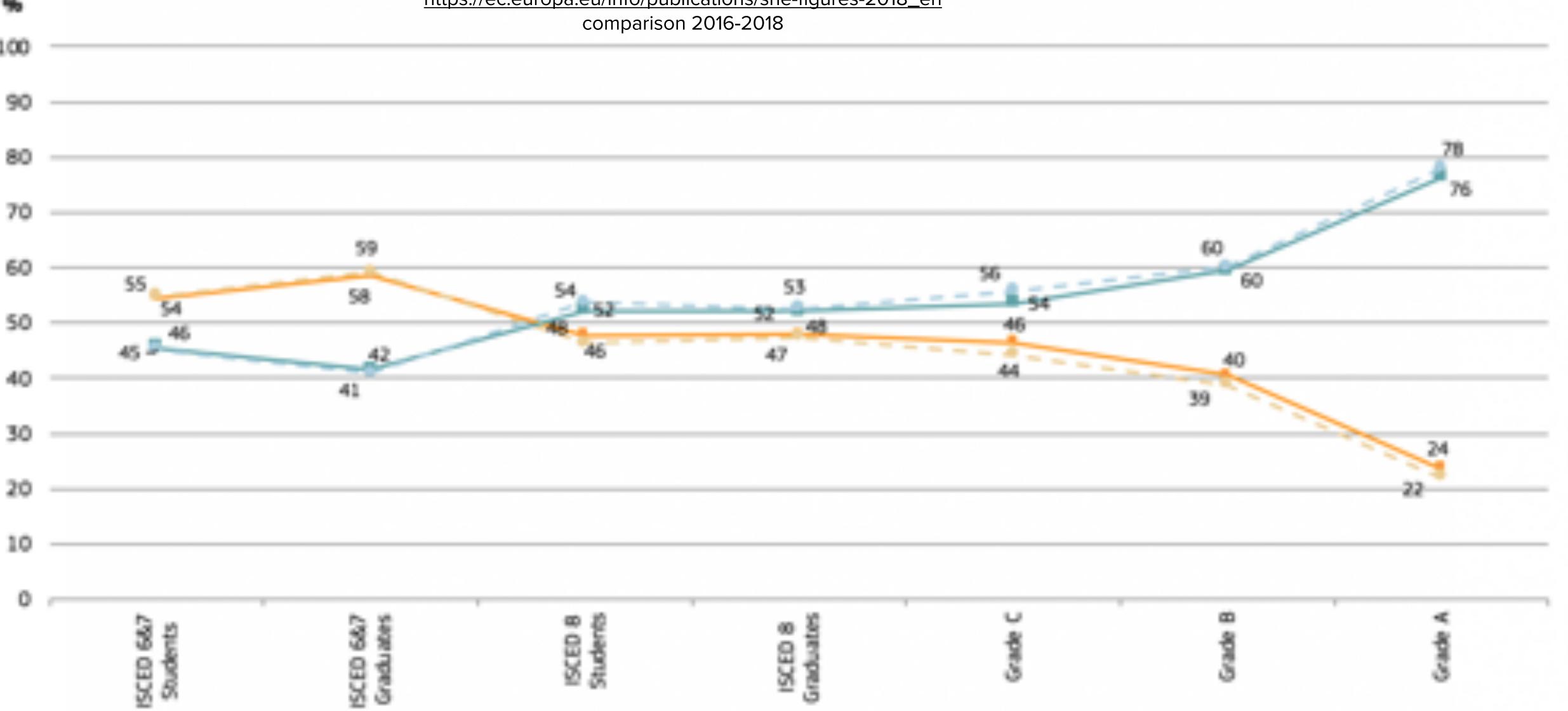


The gender gap in science: How long until women are equally represented?

https://doi.org/10.1371/journal.pbio.2004956

15 million authors, 36 millions papers, 6000 journals, 15 years, 100 countries

https://ec.europa.eu/info/publications/she-figures-2018_en

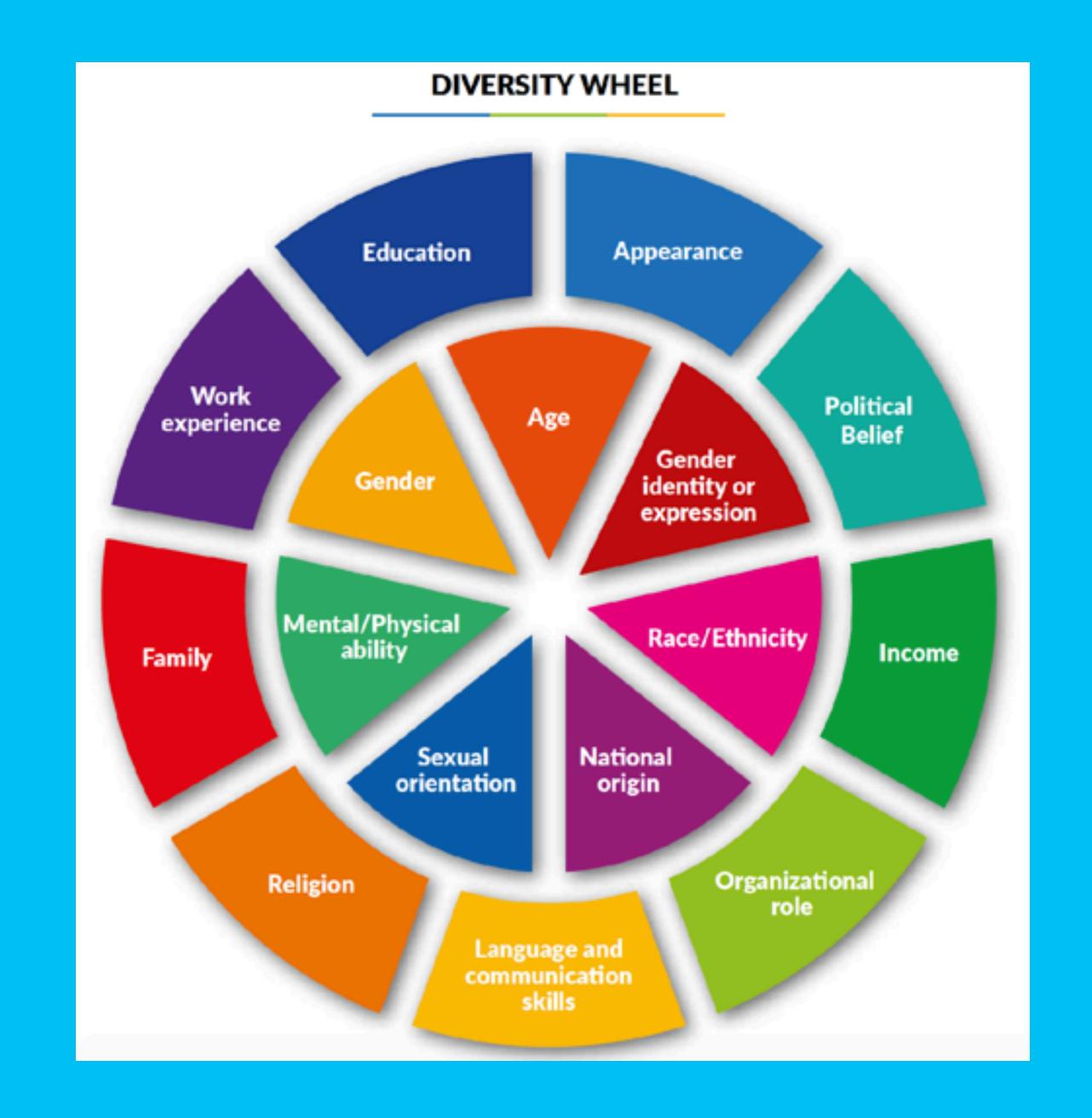


CAN WE DO SOMETHING?

CAN WEDO SOMETHING?

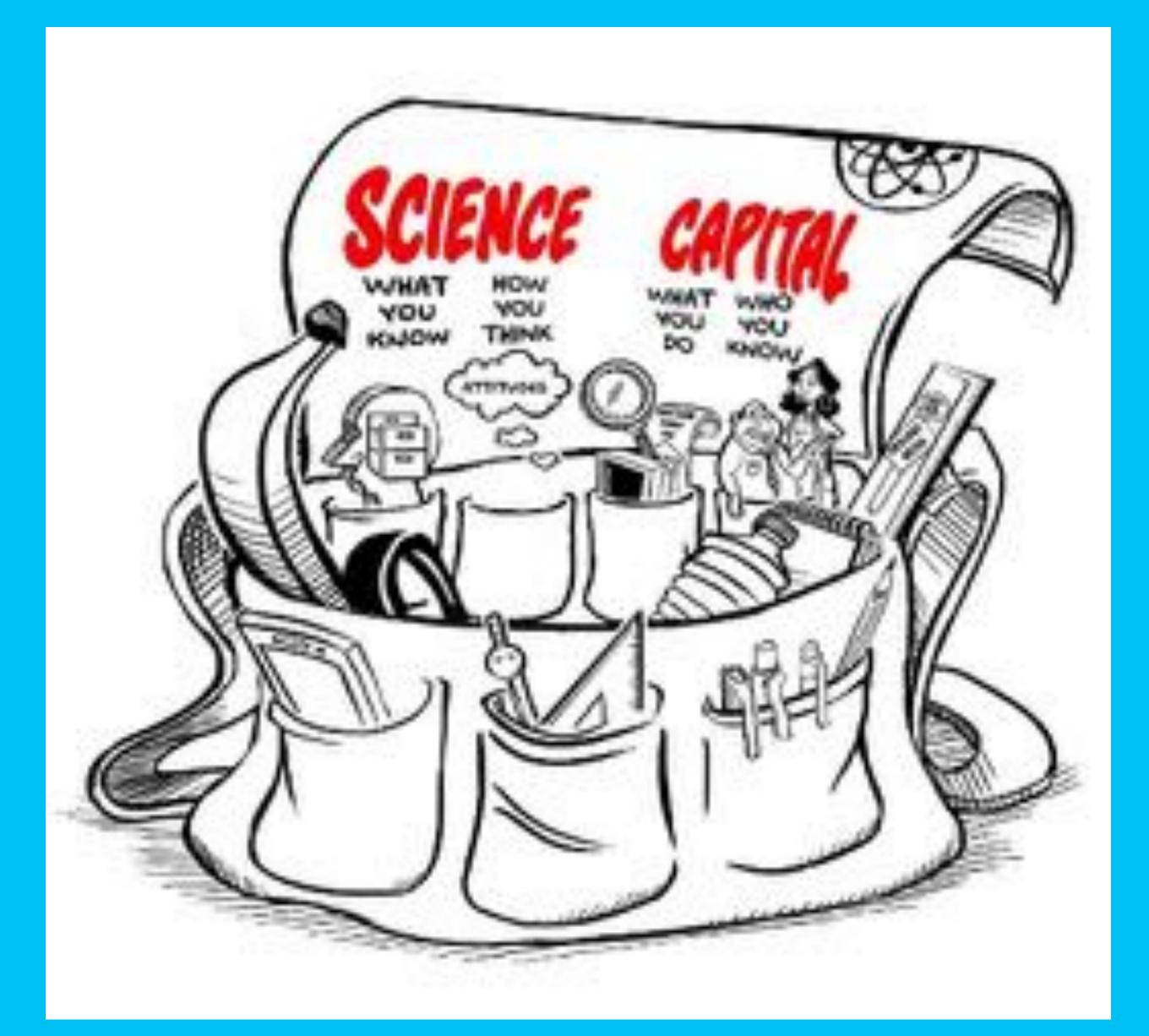
1 -> OBSERVE

how would you describe yourself?

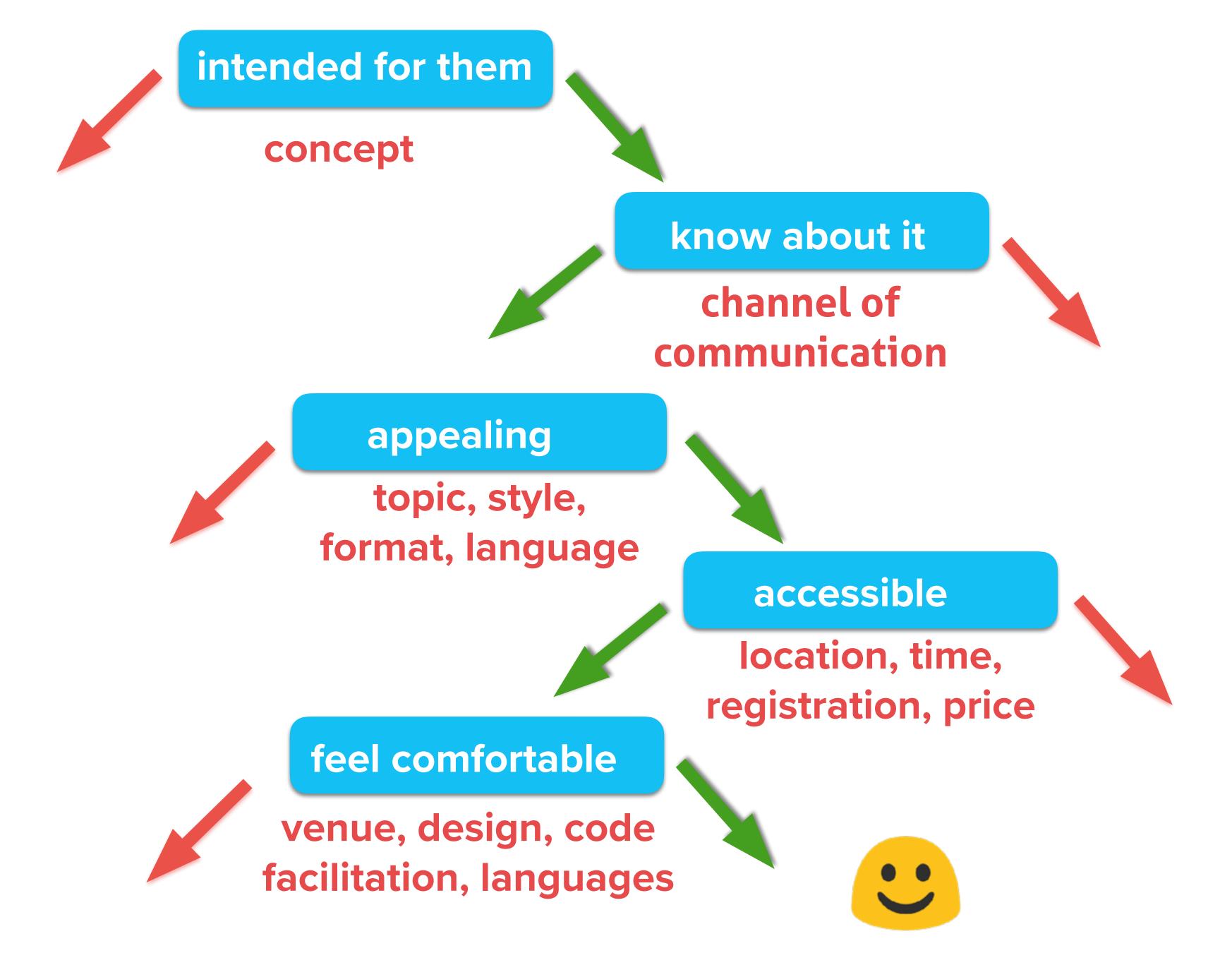


2 -> MEASURE

- Science literacy ("what you know")
- Attitudes and values ("how you think")
- Out of school behaviors ("what you do")
- Science at home ("who you know")







SPACE

Safe and inclusive opportunity to form and express a view

Views are expressed

Views are given due weight

VOICE

Facilitate to express views freely in medium of choice

AUDIENCE

The view must be listened

INFLUENCE

The view must be acted upon

CODING LABS

- A series of workshops to produce games
- Mentors in a Coder Dojo event@ SISSA



RESULTS OF THE GODING LAB

- Knowledge: programming and logical thinking
- Attitudes: trust toward science, higher education, adults, learning
- Experience: new environment, new challenges
- Social context: new relationships, responsibility towards the others
- Identity: I am not so stupid... I can do it!

Simona Cerrato, Francesca Rizzato, Lucia Tealdi and Elena Canel A coding lab to increase science capital of school dropout teenagers https://jcom.sissa.it/archive/17/04/JCOM_1704_2018_N03

KNOWLEDGE ROOMS IN VIENNA



ASTRONOMY ON A CAMEL

Manthan Educational Program India

https://mepsindia.org/projects/special-programmes/100-hours-of-astronomy/



HTTP://PISEA.EA.GR/

PISEA

Promoting Intercultural
 Science Education in Adults



HTTP://PISEA.EA.GR/

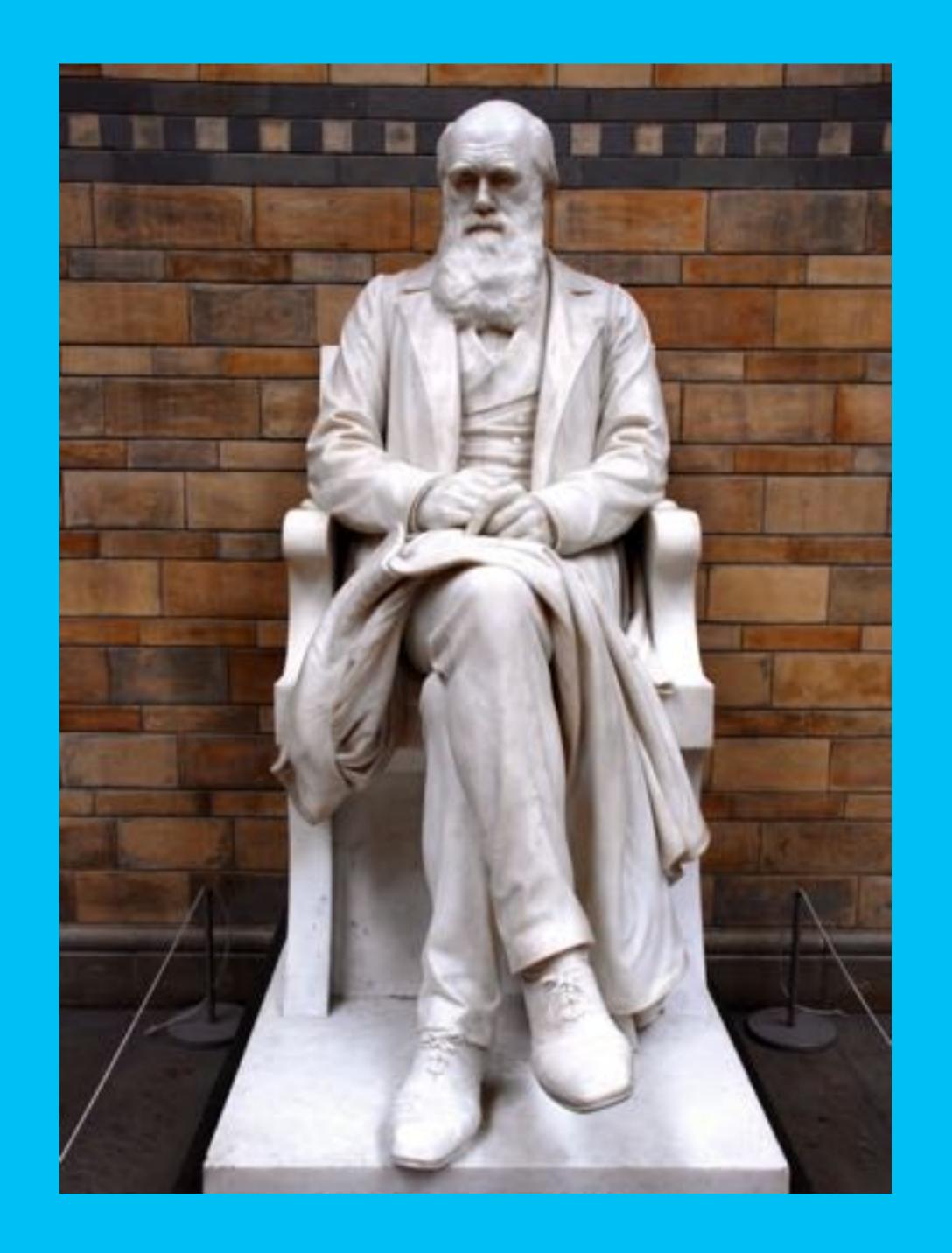
PISEA

Promoting Intercultural
 Science Education in Adults



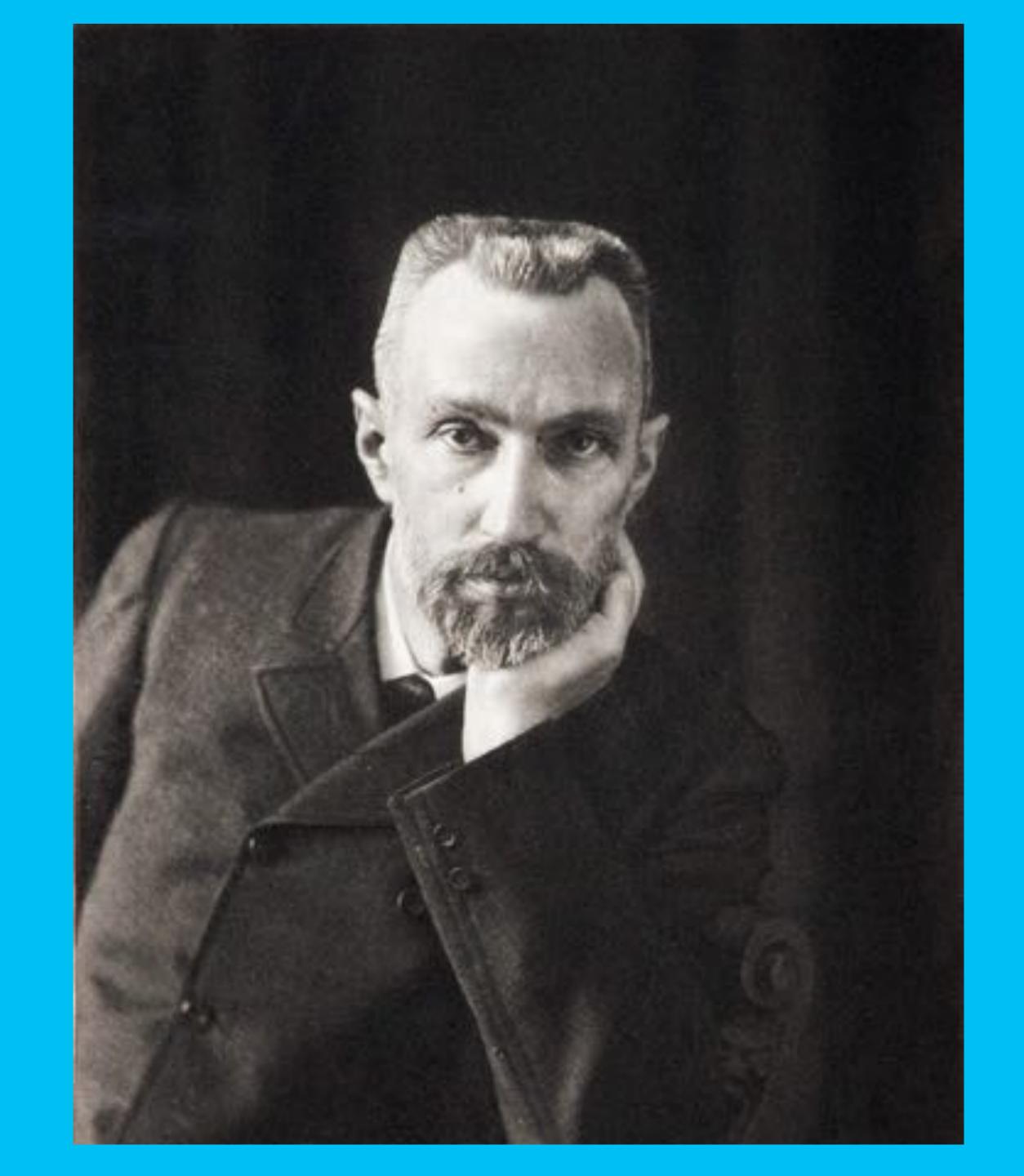
CHARLES DARWIN

"A devout husband and father, Darwin balanced his family duties with the study of the specimes he brought from his travels."



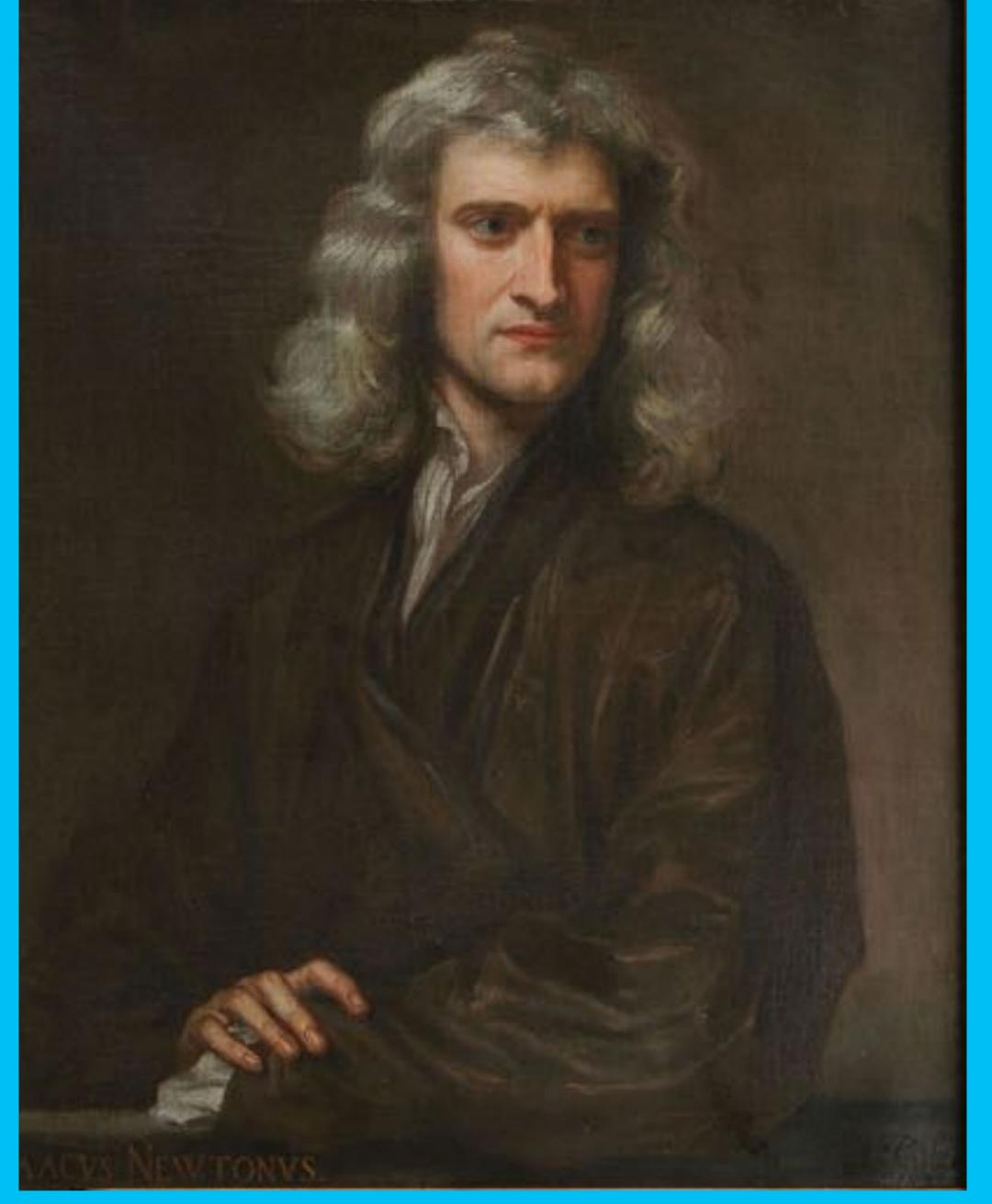
PIERRE GURIE

"Pierre Curie, married and proud father of two, found time for love and family during his short scientific career."



ISAAC NEWTON

"No one could imagine that behind Newton's large eyes and frail appearance hid one of the most prodigious brains in the world."



Godfrey Kneller, Portrait of Sir Isaac Newton (1642-1727), 1689, Isaac Newton Institute

RICHARD FEYNMANN

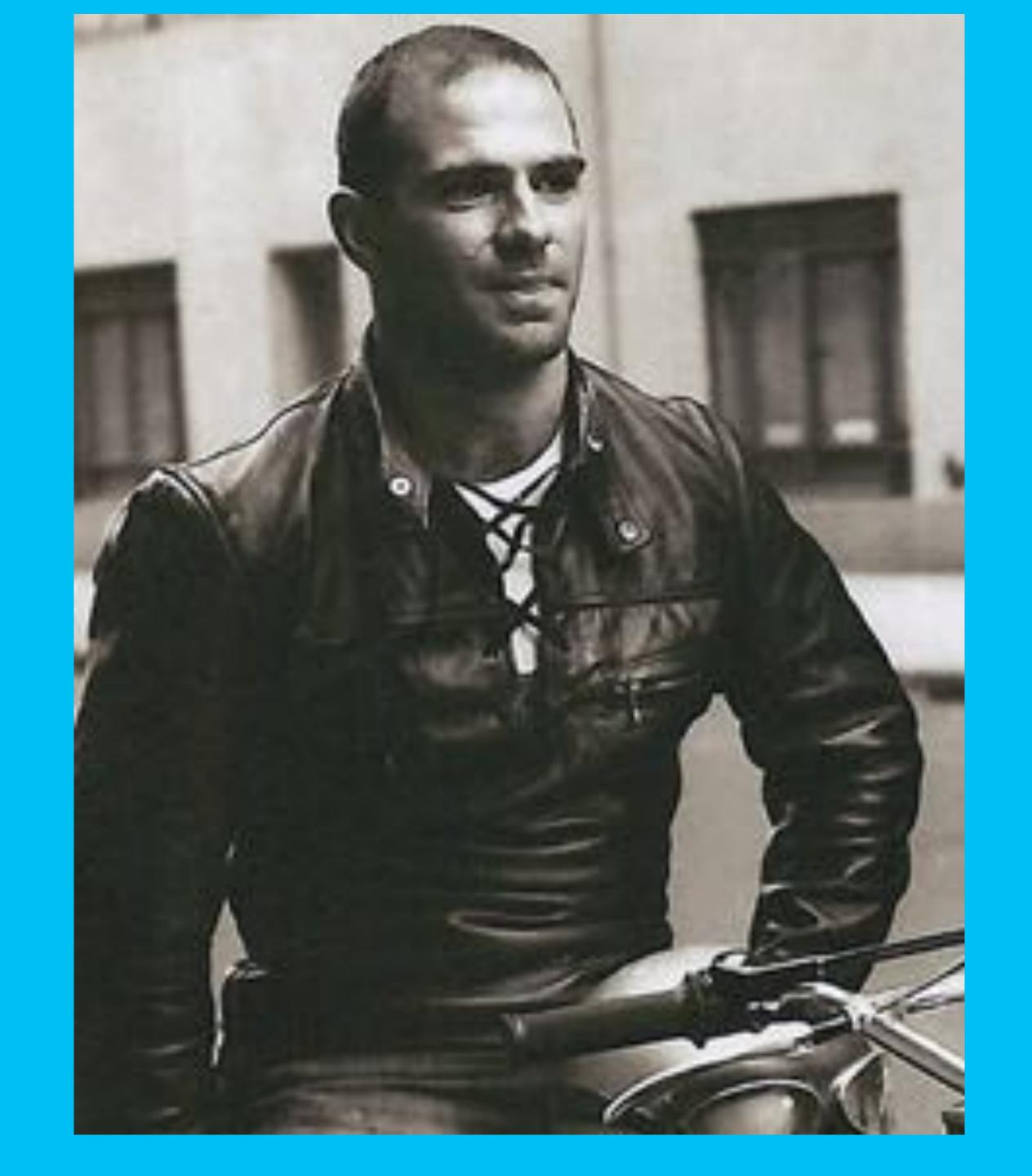
"Sassy and carefree Feynmann challenged social mores as he worked on his research. He broke hearts all over USA."



Richard Feynman, in 1984 in the woods of the Robert Treat Paine Estate in Waltham, MA, USA (credits: Tamiko Thiel 1984)

OLIVER SACKS

"He had the body of an athlete and the face of a movie star. But Oliver Sacks chose science over glamour."



ERWIN SCHRÖDINGER

"His dour personality made everyone think he'd never marry. Even so, Schrödinger got a wife and a Nobel Prize."



MORE SERIOUSLY...

IN YOUR ACTIVITY

- create a welcoming environment
- avoid stereotypes of female and male identities
- ensure diversity
- involve a variety of personalities and origins
- encourage everybody to participate and set high expectations for all
- avoid stereotypical task distribution
- ensure a variety of learning approaches
- choosing images, avoid stereotyped roles
- use a gender neutral language
- reflect on your way of interacting

GENDER SENSITIVE LANGUAGE

- ensure that women and men are represented
- do not stereotype roles and vocations (doctors are male, nurses are female)
- do not use expression as "have balls" or similar taken from the sexual sphere
- avoid compound with "man" and replace with "person" or "human"
- avoid feminine nouns or adjectives diminishing meaning (girlish, cute, sweet, pretty, etc.)
- use alternatively he or she (his and her) to indicate a generic person or the plural
- promote gener equity through titles, labels and names (Ms without reference to the marital status)
- pay attention to the selection of images

GENDER NEUTRAL LANGUAGE

Gender-biased noun	Gender inclusive noun
Actor/actress	Performer
Average/common man	Average person, ordinary person, typical worker
Businessman/businesswoman	Businessperson, entrepreneur, manager
Cameraman/camerawoman	Camera operator, cameraperson
Chairman/chairwoman	Chairperson, coordinator, head
Cleaning lady /maid	Cleaner, housekeeper, housecleaner
Councilman/councilwoman	Councilmember
Craftsman	Artisan, craftsperson, crafter
Dear Sir	Dear Sir or Madam, To whom it may concern
Fatherland	Native land
Fireman	Firefighter
Forefather/foremother	Ancestor, ascendant, progenitor
Founding fathers	Founders, founding leaders, pioneers
Housewife/househusband	Homemaker
Layman	Layperson

Mailman/postman/postwoman	Letter carrier, mail carrier, postal worker
Man/woman	Individual, someone, person
Man in the street	Average person, ordinary person
Manhood/womanhood	Adulthood, maturity
Man-hours	Staff hours, work hours
Mankind	Humankind, humanity, people, human beings
Man-made	Artificial, synthetic
Middleman	Go-between, liaison
Middleman Policeman/policewoman	Go-between, liaison Police officer
Policeman/policewoman	Police officer
Policeman/policewoman Salesman/saleswoman	Police officer Salesperson, sales representative
Policeman/policewoman Salesman/saleswoman Showgirl	Police officer Salesperson, sales representative Performer
Policeman/policewoman Salesman/saleswoman Showgirl Spokesman	Police officer Salesperson, sales representative Performer Representative, spokesperson



