



SIMONA CERRATO | 15 OCTOBER 2021

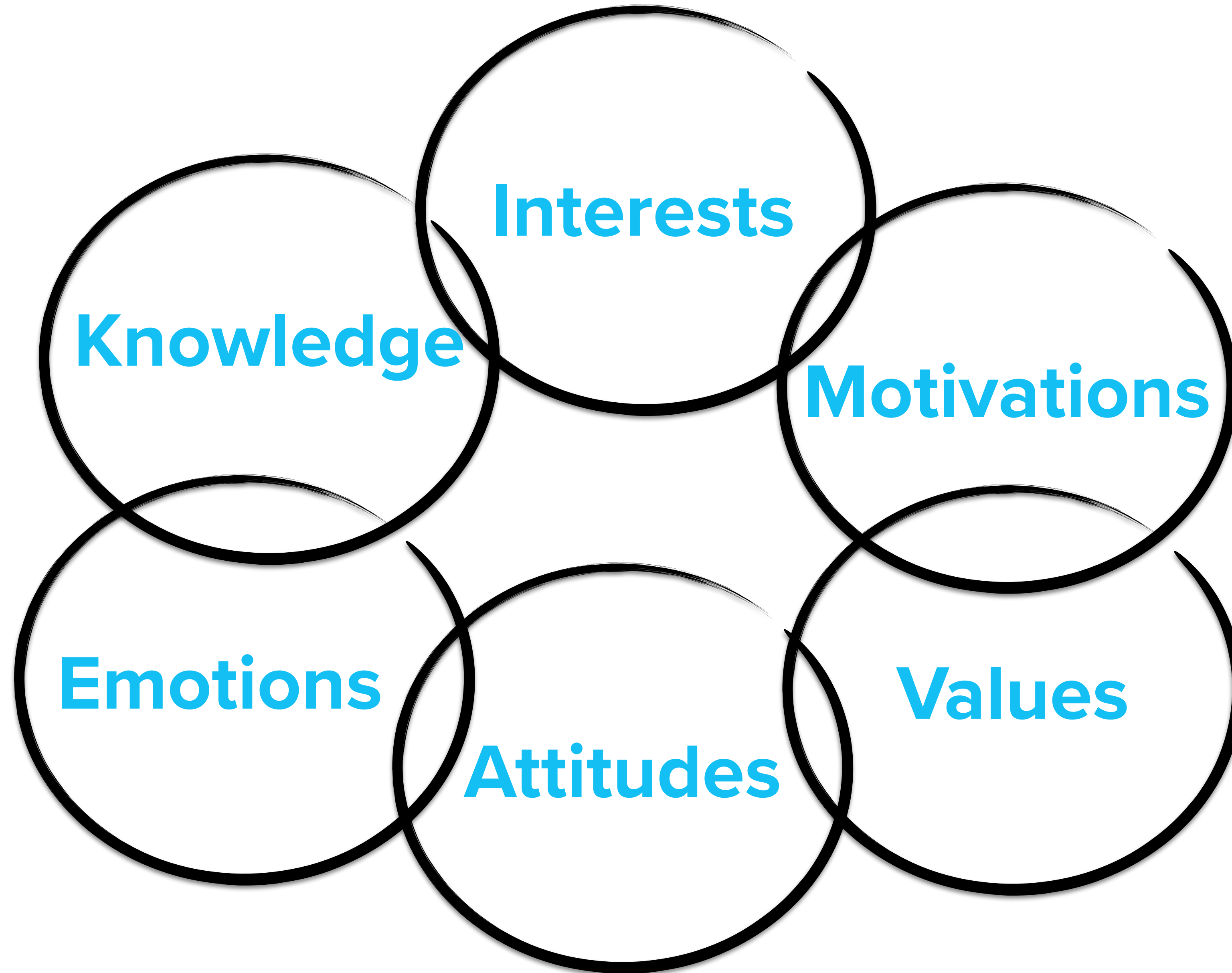
SCIENTIFIC COMMUNICATION TECHNIQUES: US AND THEM

PUBLIC PERCEPTION OF SCIENCE AND TECHNOLOGY

Who is the public?
Or, better, who are the publics?



**TO WHOM AM I COMMUNICATING?
HOW WILL MY MESSAGE BE
UNDERSTOOD?
RECEIVED?
INTERPRETED?
WILL MY PUBLIC BE INTERESTED?**



Knowledge

Interests

Motivations

Emotions

Attitudes

Values

You don't want this...



rather...



TRUST

ABOUT YOUR PUBLIC

- **age**
- **gender**
- **class**
- **education**
- **attitudes**
- **motivations**
- **what they know already**
- **expectations**
- **etc.**

WHAT DO EUROPEANS THINK ABOUT SCIENCE?

➔ EUROBAROMETER N.516 SEPTEMBER 2021

- **86% think that the overall influence of science and technology is positive**
- **they expect positive effects from technologies**

92% solar energy

86% vaccines and combatting infectious diseases

61% artificial intelligence

<https://europa.eu/eurobarometer/surveys/detail/2237>



What Europeans think about science and technology

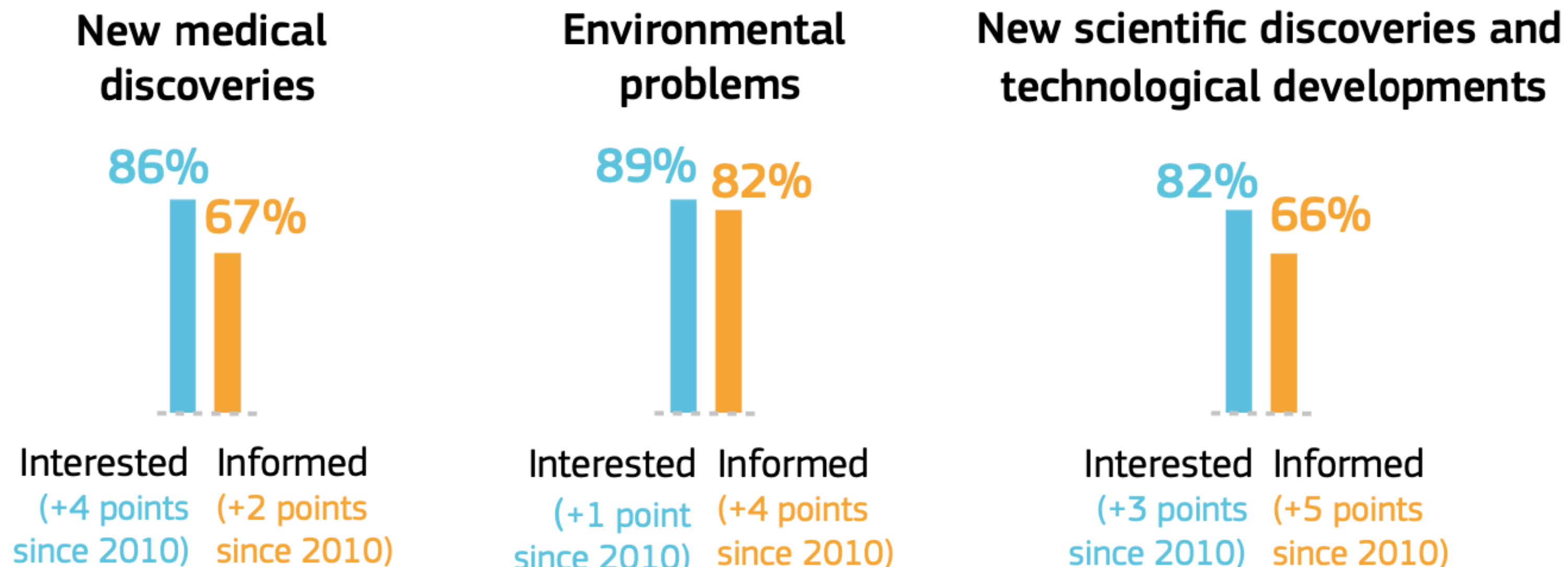
Special Eurobarometer 516

Interest and knowledge

Being interested in and feeling informed about science and technology



EU citizens are interested in various fields... But interest does not always translate to feeling informed



Sources of information about scientific and technological developments

Respondents get most of their information about science and technology from...



63%
Television
(TV set or
via the internet)



29%
Online social
networks
and blogs



14%
Radio, including
podcasts



13%
Online
encyclopaedias
e.g. Wikipedia



61%
Scientists
working
in the
public sector



40%
Scientists
working
in the
private sector



29%
Doctors



19%
Journalists



16%
Environmental
protection associations

How citizens engage with science and technology



59%
watch documentaries, or read science and
technology-related publications, magazines or books



55%
talk about science and technology-related issues
with family or friends



33%
visit science and technology museums



19%
sign petitions or join demonstrations on science
and technology matters



14%
attend public meetings or debates about science
and technology



12%
actively take part in scientific projects



8%
contact public authorities or political leaders about
science and technology-related issues

What EU citizens think of scientists



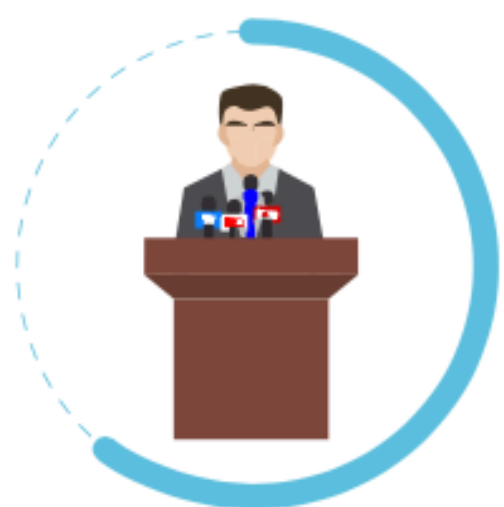
The characteristics that best describe them



The qualities they'd like to see



Opinions on the role of scientists in society



68%

say that **scientists should intervene in political debate** to ensure that decisions take into account scientific evidence



51%

say that scientists **do not spend sufficient time meeting people** to explain their work



45%


say that scientists **should be held accountable for the misuse of their discoveries**

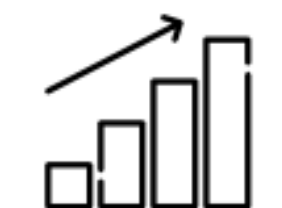
Inclusion and social responsibility in science and technology


EU citizens and gender equality

 **55%** say gender equality is **important** for them personally

And when it comes to promoting gender equality in the workforce...


 **47%** say gender equality would help us live in a **fairer and more equal society**

 **46%** say gender equality would **improve the outcomes of science and technology**

 **43%** say gender equality would improve **business profits and the economy**

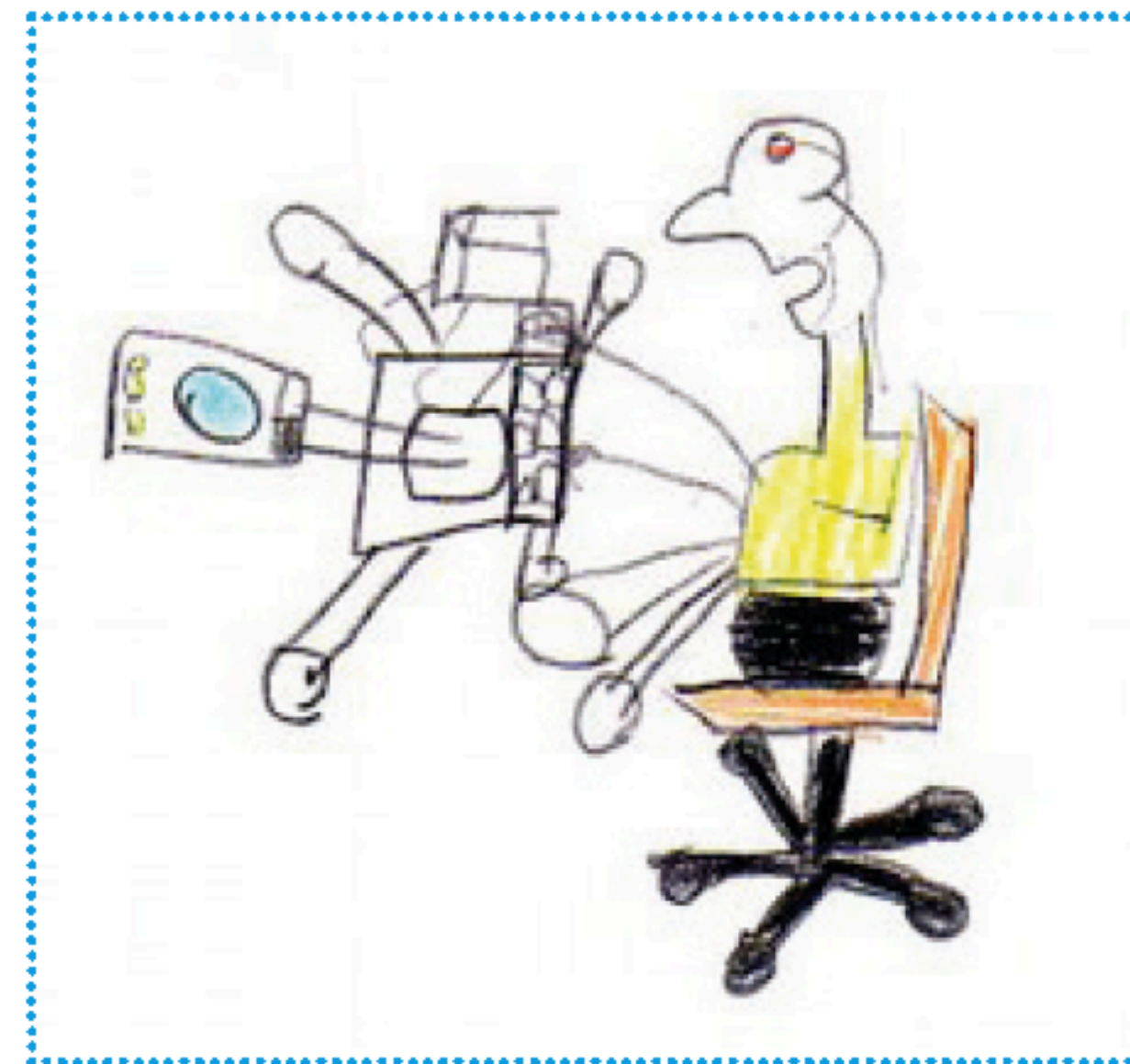
EU citizens and social responsibility in science and technology

 **79%** say that the government should **make private companies tackle climate change**

 **78%** say that the **needs of all groups of people should be considered** when developing new solutions and products

 **72%** say that the government should take responsibility to ensure that **new technologies benefit everyone**

ATTITUDINAL GROUPS



Scientists drawn by European children (source: SEDEC project)

5 MAIN ATTITUDES

- **Confident:** very interested in science and shows the most positive attitude
- **Sceptical enthusiast:** positive towards science, but sceptical about authority
- **Less confident:** science is too difficult for people like themselves
- **Distrustful:** don't think that science is particularly beneficial
- **Indifferent:** science is something necessary but they don't not understand it and don't not have strong feelings towards it

SCHOOLS

WHAT IS YOUR EXPERIENCE IN SCHOOL?

PARTICIPANTS CAN VOTE AT [SLIDO.COM](https://www.slido.com) WITH #111981

WHAT WOULD YOU LIKE TO BE YOUR IDEAL SCHOOL?

PARTICIPANTS CAN VOTE AT [SLIDO.COM](https://slido.com) WITH #111981

Formal and informal learning

Formal	Informal
Guided by the teacher	Guided by the learners
Dependent on the type of school and class	Diverse and various environments
Programmed and structured	Occasional and unpredictable
Compulsory	Free
Progressive	Non linear
Based in verbalization and acquisition of a vocabulary	Based on experiences, hands-on, laboratories
Few unexpected results	Many unexpected results
Social aspects not crucial	Social aspects crucial
Time not chosen by the learners	Time chosen by the learners
Evaluated and certified	Not evaluated nor certified



OPEN SCHOOLING



Children's Universities

A Children's University means

- * Encouraging children to be curious and to think critically – the mainsprings of research and science
- * Communicating to them the idea of universities and providing insights into academic culture as well as their role in the society at large
- * Working with young people in such a way as to help universities to be more responsive and open
- * Making encounters between children and “the university” (as a community of academic staff and students) possible
- * Enthralling them with diverse scientific fields (from humanities, to social sciences and natural sciences) and with diverse scientific methods unbiased by commercial interest
- * Giving young people an understanding of their future educational choice and options

THE EUCU.NET
CHARTER

A Children's University is based on the aims of

- * Providing access for all children without boundaries and on a voluntary basis
- * Involving and providing benefit for children from disadvantaged groups (including barriers caused by social or economic, impairment, language or gender)
- * Providing an atmosphere of respect without pressure to perform
- * Contributing to the enhancement of universities as concerning organisational, didactical and research development

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



PHERECLOS



www.phereclos.eu

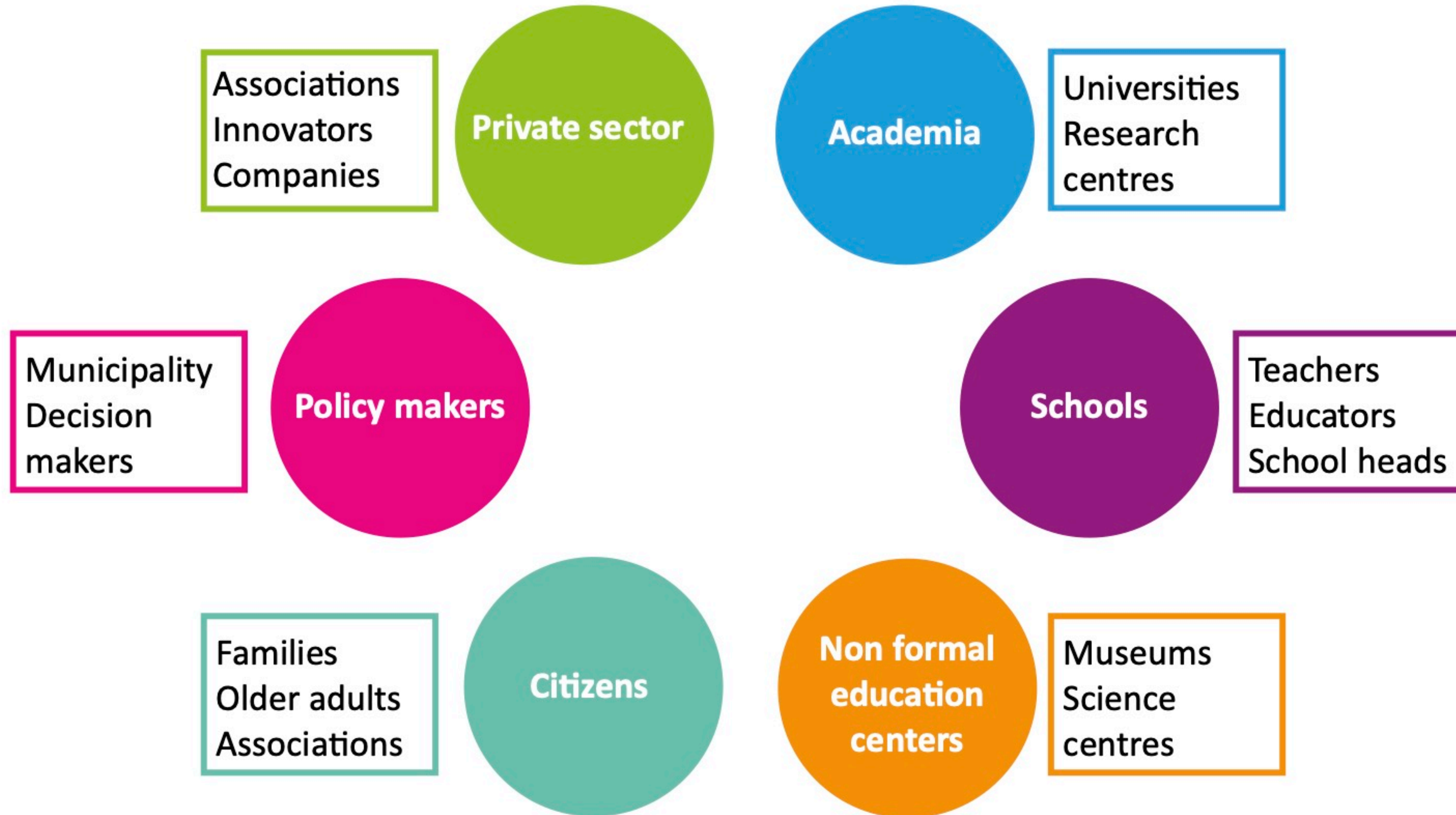


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LOCAL EDUCATIONAL CLUSTER TRIESTE

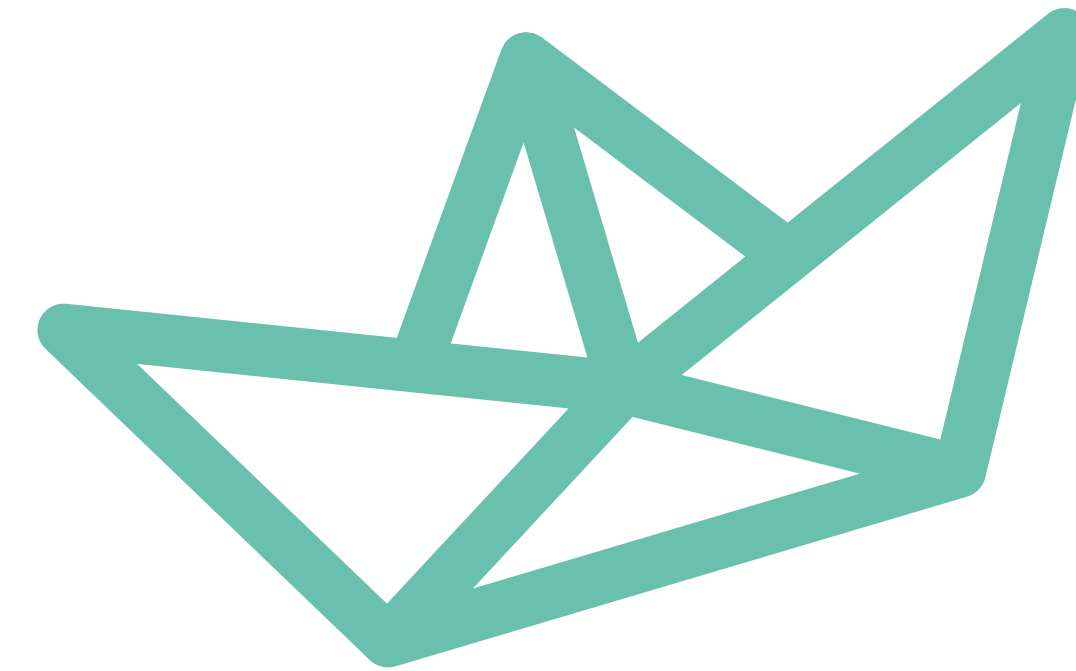
TRIESTE CITTÀ DELLA CONOSCENZA



Six Local Educational Cluster



What is Phereclos for us



“Our life boat to bring us to better shores”

“An opportunity to reflect on the post covid schools!”

“Networking is now more important than doing activities”

“Let's work for the well-being of the school and the community”

“Let's get out of the logic of disciplines and watertight compartments”

PHERECLOS

LEC Local Educational Cluster Trieste



Un progetto di



EVENTI



Webinar Sissa MediaLab
Trieste
15 settembre 2021



Workshop «AI at school»
Trieste
30 ottobre 2021



COMMUNITY



Project work: cerco un
UI designer!
Udine



Paper di Biotecnologie,
vorrei un parere esterno
Trieste



ACADEMY



Comunicare nella scienza
Durata corso: 80 ore

FREE



Master in data analysis
Durata corso: 120 ore