

Co-funded by the
Erasmus+ Programme
of the European Union



UNIVERSITAT DE
BARCELONA



UNIVERSITÀ
DEL SALENTO

SHORT COURSE CLIMAST

“Climate change in a complex society”

4-5 May 2021

Co-funded by the
Erasmus+ Programme
of the European Union



UNIVERSITAT DE
BARCELONA



UNIVERSITÀ
DEL SALENTO

5th of may 2021

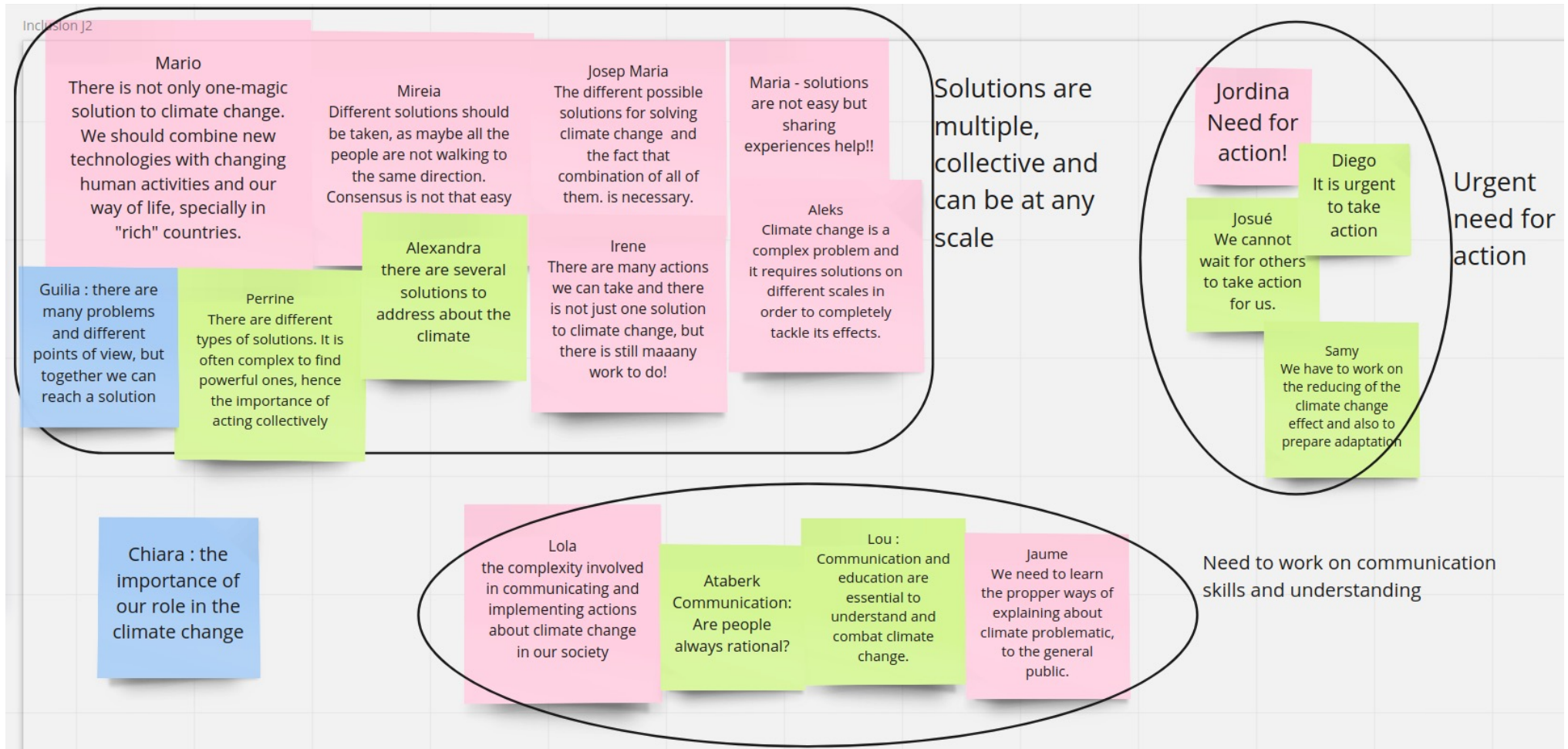
DAY 2

Inclusion DAY 2



Inclusion

What did you retain from yesterday ?



Short course May 2021 session

DAY 1

What is climate change

Start knowing each other

Get a global understanding of
climate change based on 5th
report of IPCC

Call for action !

Explore the scope of possible
actions in mitigation and
adaptation

DAY 2

Role of the scientist and expert

Understand the role of scientist
today and tomorrow

Analyse scientific communication
to influence

Actors for responses : who and how

Identify obstacles and levers for
transformative actions

Short course May 2021 session

DAY 2

Exchanges with :

**** Piero Lionello, involved in IPCC report writing***

**** Joël Guiot , involved in Medecc report writing***

In groups : to prepare questions

In plenary session : to exchange with scientists

Based on experiences of :

**** Guillaume Leduc, active citizen-scientist***

**** Julie Gattacceca, GREC Sud***

**** Anna Perez Catal, Climate traker NGO***

In groups : to analyse the experiences

Plenary session : to debrief and conclude

Role of the scientist and expert

Understand the role of scientist
today and tomorrow

Analyse scientific communication
to influence

Actors for responses : who and how

Identify obstacles and levers for
transformative actions

Exchanges with scientists

→ Debate will be structured based on your concern

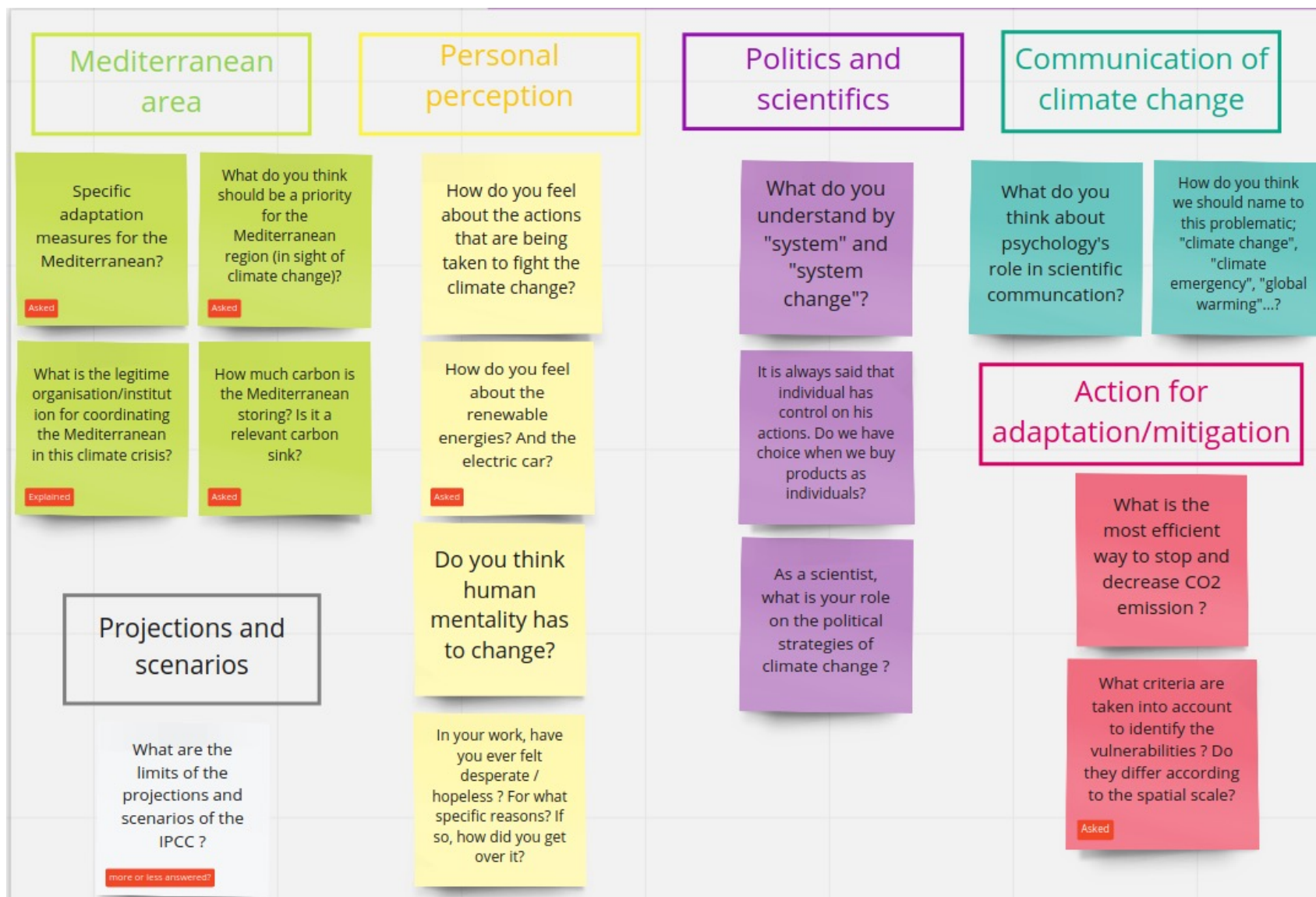
In 4 groups, you have 45 minutes to prepare all the questions you would like to ask to Joël Guiot and Piero Lionello about their rôle, their commitment, their mission...

Joël Guiot and Piero Lionello will give a 10-minute presentation in turn.

You will be able to exchange with them from the questions you collectively prepared (but also from spontaneous questions!)

Exchanges with scientists

Questions prepared by the students Room 1



Exchanges with scientists

Questions prepared by the students Room 2

GENERAL QUESTIONS

- What are your strategies to synthesize all the information necessary to prepare your reports?
- Which are the most remarkable predicted impacts in Mediterranean Region? Which adaptation measures should be taken in the Mediterranean region?

CLIMATE MODELLING

How is the chaos that characterizes natural systems represented in climate modeling? Which are the most difficult climatic phenomena to parameterize and simulate?

Are dynamical and statistical models both useful in Mediterranean Region?

How reliable are the state-of-the-art global circulation models in predicting the impacts of climate change?

POLITICS

- How much do politics and decision makers care about IPCC reports?
- How do you feel when politicians (such as Trump) deny climate change? How can we combat these hoaxes?
- Are you involved in any political group or participating in some parliament? Do you think climate scientists should get more involved in politics?
- Do you think that liberal democracies are capable of dealing with the challenge of climate change or would it be necessary to move towards other forms of social organization?

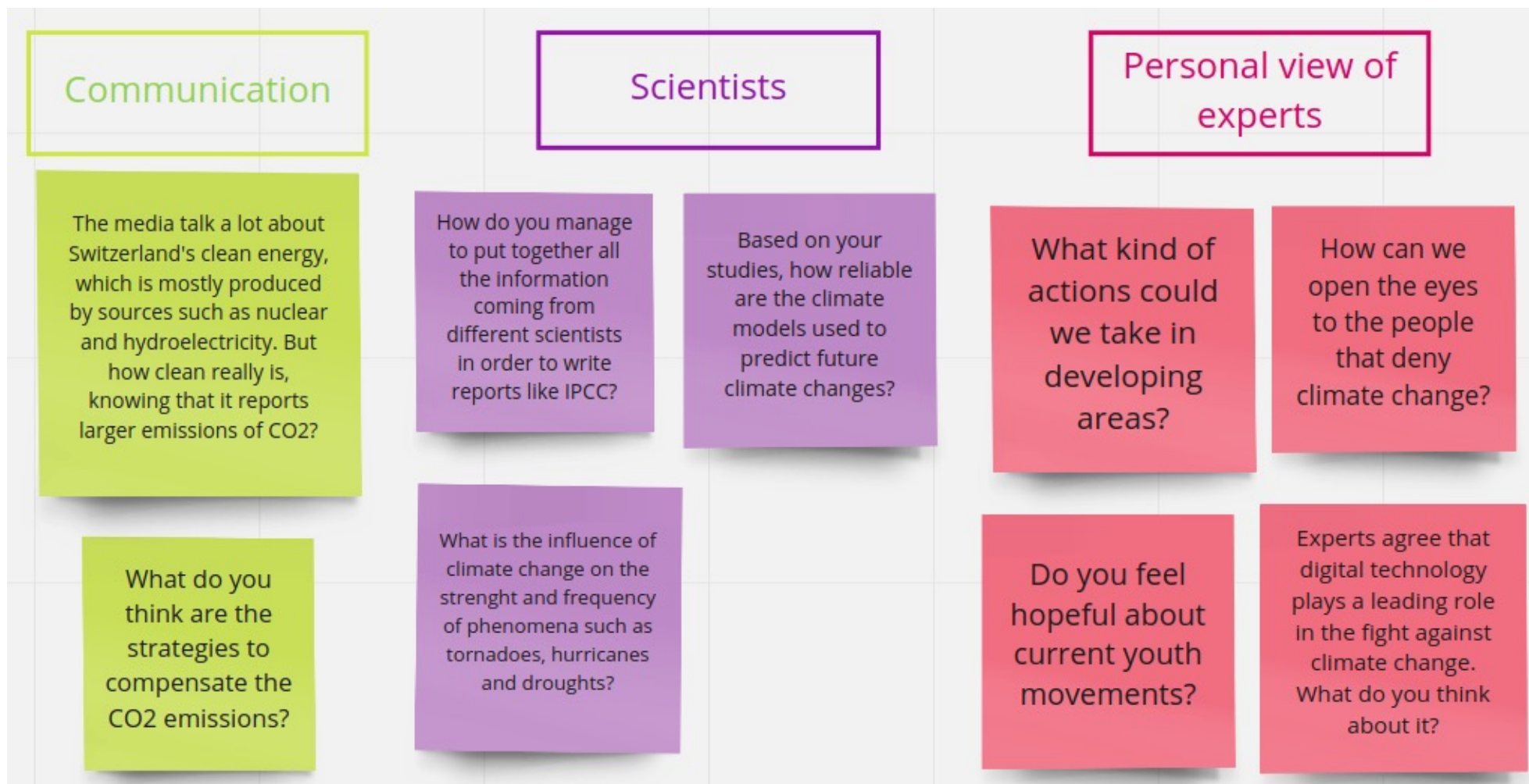
Exchanges with scientists

Questions prepared by the students Room 3

Which do you think is the best way to combat climate change deniers? Should we engage in a debate with them or simply ignore them? ANSWERED	What is your opinion on the 2015 Paris Agreement? Do you think it is an effective tool to combat climate change or is it simply not ambitious enough? ANSWERED	Do you take the socioeconomic background of each country into account in writing the special report for policy makers ? ANSWERED / EXPLAINED	How have you get involved in climate change reports?
How important is it to convince societies and citizens on their role to play in fighting the climate change ?	Regarding climate modeling, what are the most difficult things, parameters, to take into account ?	Do you feel like the IPCC reports translate into actual political actions destined to combat climate change? If so, could you give an example of such a policy? Is there a fluent feedback between policy-makers and climate scientists? ANSWERED	
As climate scientists with a Physics background what is your opinion on nuclear energy? Do you think it should play a significant role in the battle against climate change?	Which is the ecosystem that is more likely to experience a high impact in the Mediterranean area?	Do you think social media is important to fight against climate change?	Are you personally involved in any citizen action group ?
Did your research makes you change your way of life ? Are you vegan ? Do you often ride your bicycle ?	Could we as a individual or as a group (of student for example) have a significant impact on Climate or is that over without the help of decision-makers ?	What do you think about the Greta Thunberg phenomenon?	If you have to choose an action to fight climate change, which will be?

Exchanges with scientists

Questions prepared by the students Room 4



Invited speakers presentations (10 mn each)

P. Lionello

J. Guiot

(available on the website)

Exchange with Climate experts (1H)

(based on the questions prepared by the students)

Exchange with Climate experts (1H) (continuing in the chat box....)

11:24:16 De Diego Chávez à Tout le monde : how to strengthen the role of other countries with fewer resources in climate change research?

11:53:59 De Diego Chávez à Tout le monde : How is the chaos that characterizes natural systems represented in climate modeling? and Which are the most difficult climatic phenomena to parameterize and simulate?

12:01:05 De Ataberk Bagci à Tout le monde : Climate Change Activists vs Skeptics: Can They See Eye To Eye? | Middle Ground
https://www.youtube.com/watch?v=6EFHZfISGp4&t=259s&ab_channel=Jubilee there is this interesting video where they gather climate activists and skeptics to discuss (the current discussion reminded me this)

12:21:52 De Chiara 251397 à Tout le monde : when we talk about the impact of agriculture on emissions, what kind of agriculture are we talking about? the intensive one? because for example in Italy there are many family-run farms

12:22:17 De Joel Guiot à Tout le monde : I spoke about agroecology, agroforestry

12:35:30 De DJEBBAS à Tout le monde : Thank you because I realise that scientists are fully engaged to find efficient solutions to make changes and we should not only studies the climate change in a physical way and we should give suggestions to policy makers.

12:35:48 De Jordina Gili à Tout le monde : thank you for this final positive words

12:36:43 De Lola Riesgo à Tout le monde : Ambitious political actions should be done, also scientist

12:36:53 De Aleks à Tout le monde : It was very interesting to hear from climate scientists directly involved in the international efforts to tackle climate change!

12:36:55 De Jaume Ruiz de Morales à Tout le monde : The need to be proactive when face the climate problematic

12:37:02 De Mario Rodrigo à Tout le monde : Damage on climate and environment is already done, but it still can be limited and even reversed! I hope IPCC and other reports are taken more seriously in the future.

12:37:16 De Josué à Tout le monde : Seems like it's gonna be hard to have a impact as an individual and that we'll need decision-maker to finally take their responsibilities.

12:37:34 De Perrine Poirier à Tout le monde : Thank you for your time and for your answers to our questions. It was very interesting to hear from your point of view.

12:37:39 De Lou Gomez à Tout le monde : To be skeptical is not to deny, and it is important to doubt in order to achieve proven results. The experts are asking the right questions, it is up to us to find the various right solutions. Thank you very much for this very enriching session.

12:39:05 De Diego Chávez à Tout le monde : Thank you so much. Your messages were very interesting. It really seems very overwhelming, but there are actions we must take to make changes.

12:40:02 De Alessandra à Tout le monde : Thank you for the extreme competence

12:40:31 De Irene à Tout le monde : thank you for your time and your positivity!

Afternoon session

Actors for responses

Testimony from (1H)

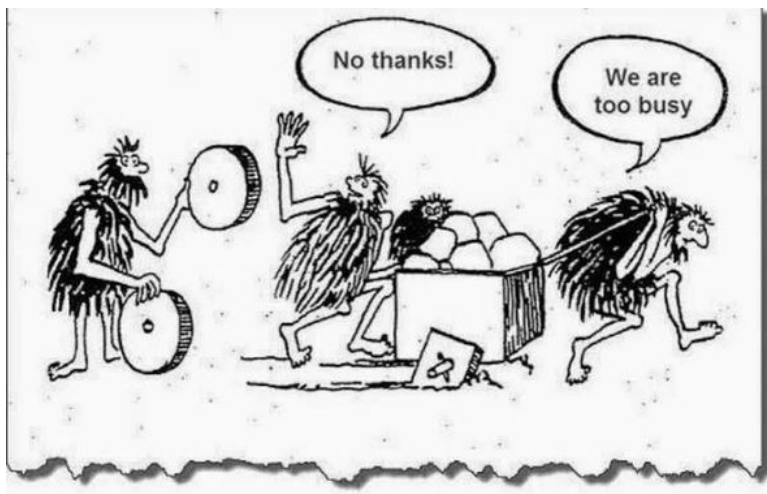
- An active citizen, paleoclimate researcher from CEREGE : Guillaume Leduc (*presentation available*)
- An NGO Activist : Anna Perez Catala from Climate Tracker, (an international non-profit organization, aiming to support, train and encourage better climate journalism globally) (*presentation available*)
- A scientist involved in a group of experts : Julie Gattacceca from GREC-Sud (regional group of experts on climate in the South of France) (*presentation available*)

Actors for responses : how ?

In 4 groups in 30 minutes,

Groups 1 and 2 identify and list the constraints/difficulties for action at individual, collective, national and international level

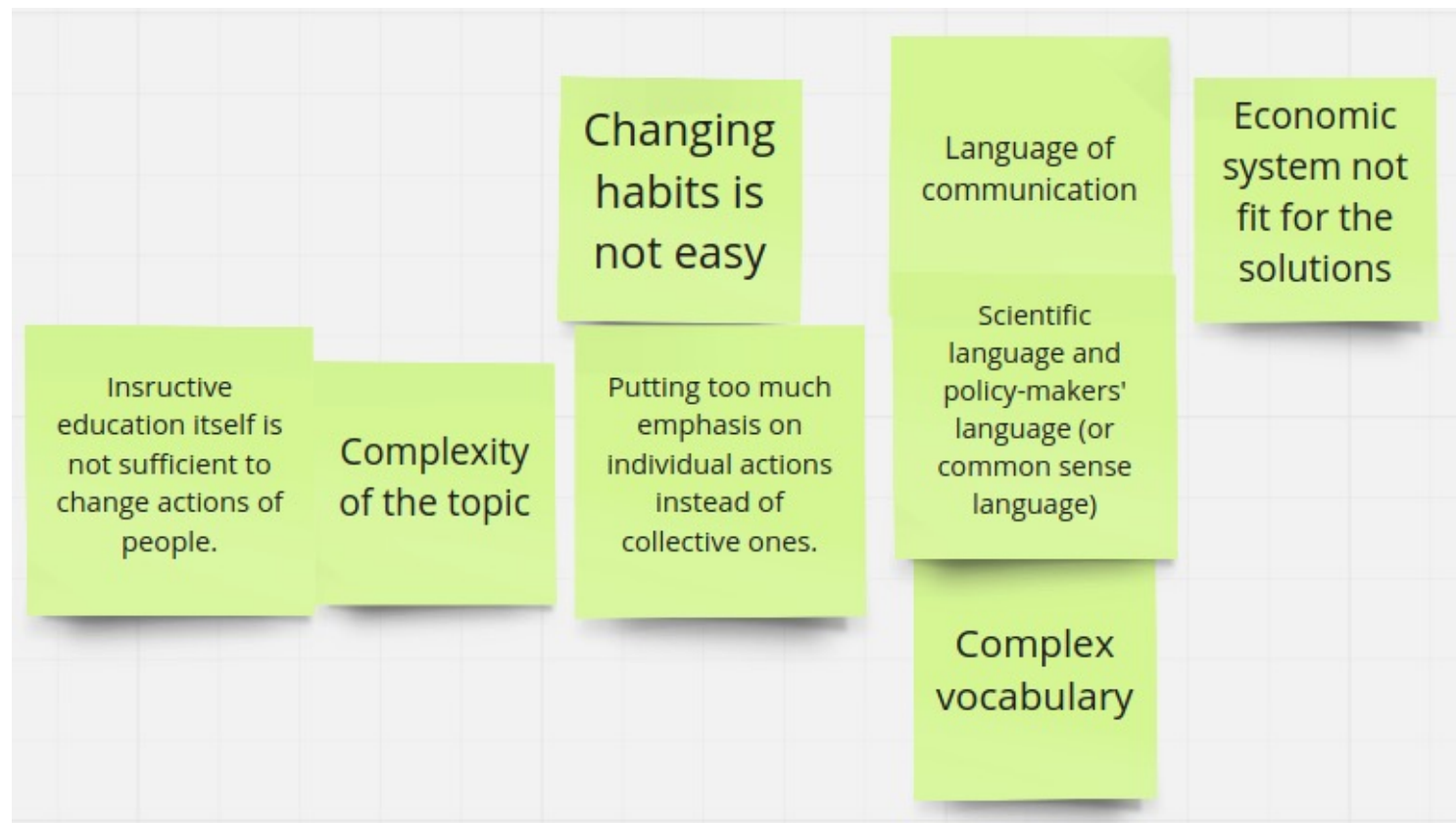
Groups 3 and 4 identify and list the enabling factors, what helps today to transform information into action



Actors for responses

-> barriers

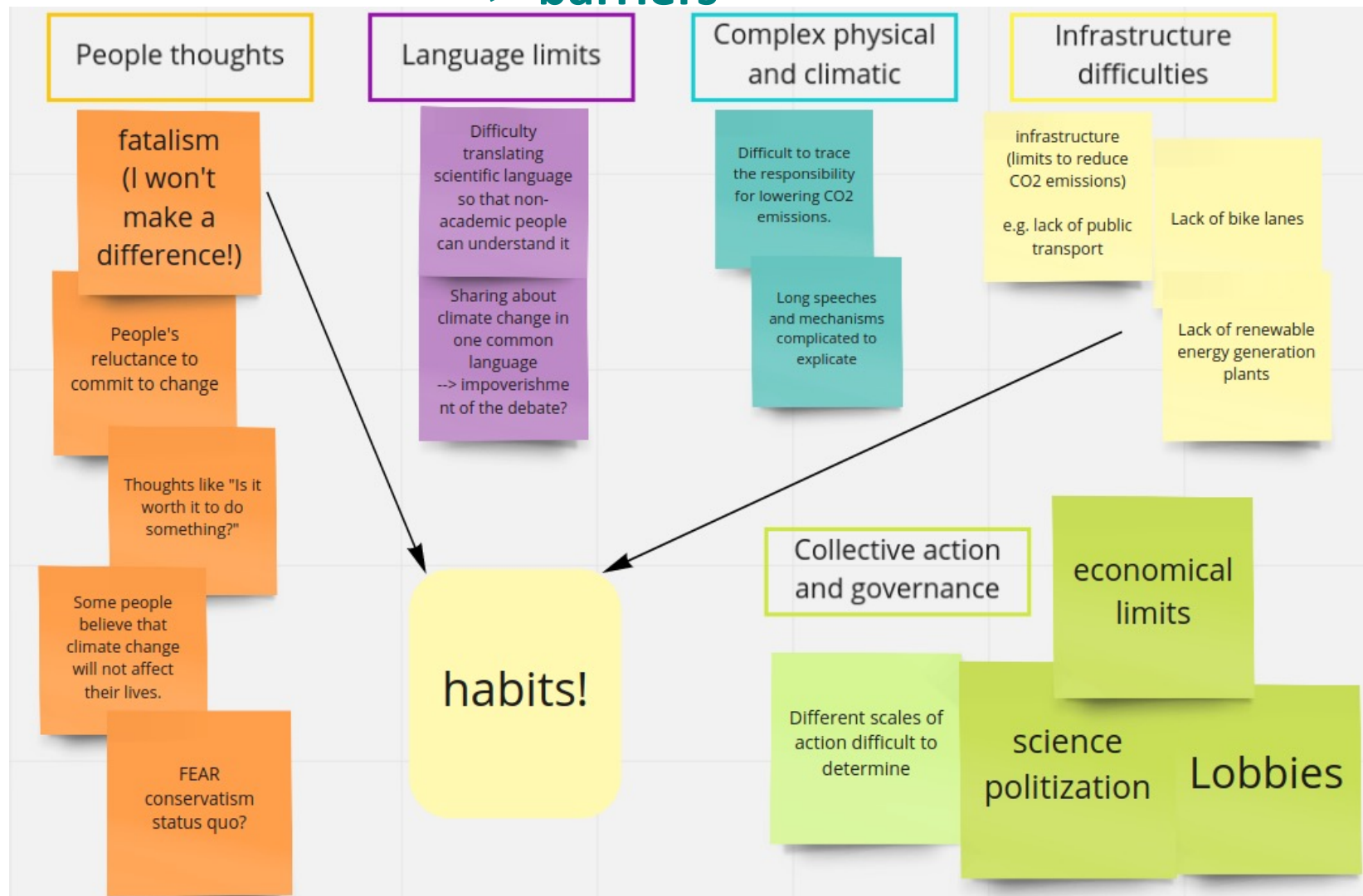
From group 1



Actors for responses

-> barriers

From
group 2



Actors for responses

-> facilitating factors

From
group 3



Actors for responses

-> facilitating factors

From
group 4



Actors for responses : how? (1H)

Levers for action identified by the whole group :

- Infrastructure
- regulation/law
- finance/economic
- Using leaders/ community groups (eg : youth)
- Skills for a positive and adapted communication
- Having together citizens, authorities and experts
- Uncouple politics from ecology concern
- Start even as individual, even small...

Evaluation of the short course

Thanks for your feedback on Miro





The best of the 2 days



Exchange
between
different
scientific
disciplines

1. Asking IPCC and
MedECC experts
2. The climate collage
game

- The intervention of
the IPCC and
MedECC
- Seeing so many
invested people to
find solutions to this
crisis

To share ideas and
to see the point of
view of the scientific
experts about the
climate change
issue.

The interaction with students
from other countries that share
the interest in climate change
and also the possibility to speak
with climate scientists and
communicators that are actively
working in order to tackle this
complex issue.

Knowing many
projects in
different areas
of the world

To have the
experts sharing
their opinions and
showing us their
organizations in
deep

The interventions of the
scientists and the actors
help to better understand
how the problem of CC is
addressed at different levels

Identify the obstacles that
we can face in
the communication

-Different point of view
-The importance of
scientific community
in this historical context

-Working in groups.
-The participation of
the experts
involved on climate
science studies.



Understand how science
communication should be
adapted and how is
currently having a real
impact (such as
ClimateTracker NGO) and
also share ideas with other
people from other
countries

-Having representation of
different disciplines. Particularly I
found very enriching the
intervention of IPCC and MedECC
-Exchange the perceptions about
climate change with students
from other countries. It's a
release to get to know people
with the same climate change
preoccupations
Thank you for this initiative!!

Talks by
IPCC
experts

Exchange ideas
to avoid despair
and fight
climate change
together!



-See different points of view on
climate change, whether from
scientific experts, other students

- The working groups with
students from other universities,
with different backgrounds, was
really great, interesting and
enriching

The
kindness of
Delphine

Have other
perspectives of
climate change
like the social one
not other scienci
perspective

It was very beautiful
to share climate
knowledge, between
different disciplines
and nations.



Seeing so many
people (students
and pros) involved
in Climate
communication is
comforting !!

The preparation of the
3min presentation in
groups of 3
Or the card game on
climate change.
Exchanges between
students

To be improved, included, adjusted...



An ice-breaker
game to know
each other
better at the
beginning

To dedicate some
time at the
beginning of the
course to introduce
ourselves, maybe
with some "game"
or activity.

Knowing each
other and our
background
and interest

Including students with other
backgrounds such as
Sociology/Politics and also to be
able to talk with an actual policy-
maker tasked with putting these
solutions into tangible actions.
Additionally, an icebreaker game
between all people involved in
the course would be nice.

Includes
student from
other
backgrounds

Inviting other
students for next
sessions ? (not
climate-students I
mean)

Talk more about new
technologies, specific solutions
and applications to tackle
climate change: new electricity
sources, new building materials
with less CO₂, stratospheric
aerosols, etc. Maybe bring some
experts from these fields:
engineers, economists, etc.

To have some
training about
expressing climate
change in a very
plain language and
in social media

To have some more
practical exercise to
communicate climate
change (framed to
the general public)

Invite someone
from a company
who can tell us
about their
perspectives on
climate change

For intervenants, including
someone from social
sciences especially in the
domain of climate change
communication (depending
on the subject)



Try to test the
microphone of the
expert next time ?
Cause I could not
follow very well Piero
Lionello, and I'm feeling
a little bit frustrating.



To work with the same
group at least a half-
day, so we can have
time to knowing each
others and to adapt to
way of working of each
one.

add some time
dedicate to
debate around
a predefined
subject

More time
for doing
the tasks

More days to
explore other
topics and
opinions

Give more time for the
working group activities. In
particular the first and the
last one.

Include a CLIMAST part II

Working
group time
has been
very short.

Increase the duration of
discussion time with
students in working
groups. Very often, the
work was done in a rush,
without really having time
to discuss or get to know
each other.