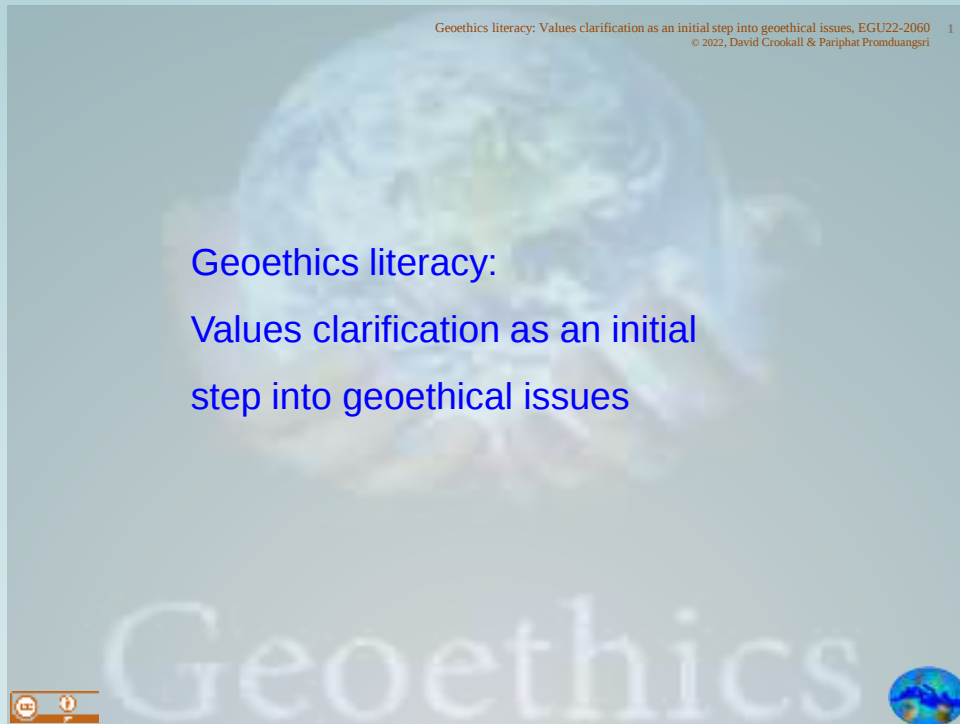




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Svitlana Krakovska (quotes)

- Ultimate geoethical question: Survival of humanity
- Underpinned by fundamental values – human values

“I started to think about the **parallels** between **climate change** and this **war** and it is clear that the **roots** of both these threats to humanity are found in **fossil fuels**. This is a **fossil fuel war**. It is clear we cannot continue to live this way, it will destroy our civilization.”

“Someone could question us that IPCC is not a political body, and should only assess science related to climate change. Let me assure you that this **human-induced climate change** and **war** against Ukraine have direct connections and the same **roots**. They are **fossil fuels** and **humans** ... dependent on them.”

“While emissions of GHG have changed the **energy balance** of the planet, the ease of receiving energy from burning coal, oil, and gas has changed the **balance of power** in the human world. We cannot change the **laws of the physical world**, but it is our **responsibility** to change the **laws of human civilization** towards a climate-resilient future.”



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Ethics, values & climate -- geoethics

Weigh the ethics of plans to mop up carbon dioxide (2018)

Ethicists neglect the science; modellers neglect the ethics.
Ethicists need a better understanding of climate-mitigation research
... modellers inevitably make value-laden assumptions in charting different policy pathways
A lack of transparency and ethical discussion has ... consequences
A cultural change is required across the climate-change community.
... ethicists need to be involved from the outset in developing, modelling and evaluating scenarios for reducing emissions.

Lenzi et al, 2018, *Nature*, 561 p303



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Two 'areas' (branches?) of geoethics ?

- Geoethics for **geoscientists**
 - Academic integrity in the Earth sciences
- Geoethics for **people**, lay public, humanity
 - Ethical behaviour towards the Earth, nature, ...

Geoethics



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Ethics for geoscientists - Cape Town Statement on Geoethics

Geoethics is defined as the
“Research and reflection on the values that underpin appropriate behaviours and practices, wherever human activities interact with the Earth system. Geoethics deals with the ethical, social and cultural implications of geoscience knowledge, education, research, practice, and communication, and with the social role and responsibility of geoscientists in conducting their activities” (Peppoloni and Di Capua)

Ability, individual and joint responsibility, collaborative attitude, reliability, transparency, impartiality: these are basilar values capable of allowing scientists to develop good science. (2014).

Honesty, integrity, transparency, and reliability;
Competence, including regular training;
Sharing knowledge at all levels;
Working with a spirit of cooperation and reciprocity;
Respecting natural processes and phenomena;
Respect for the scientific method, being rigorous in verifying the sources of information and data, and applying objective, unbiased peer-review processes to technical and scientific publications;
Promoting geo-education and outreach to further sustainable economic development, geohazard prevention and georisks mitigation, environmental protection, and increased societal resilience and well-being.



Examples of values for ordinary people

Ordinary values (A-L) (examples)

Authenticity, Achievement, Authority, Autonomy
Balance, Beauty, Boldness, Belonging
Compassion, Challenge, Citizenship, Community, Contribution, Creativity, Curiosity, Collaboration, Change, Determination, Decisiveness, Democracy, Diversity
Equality, Excellence (personal), Excitement, Expertise, Effectiveness
Fairness, Fame, Friendship, Freedom, Family Growth
Happiness, Honesty, Humor, Harmony, Integrity, Independence, Innovation, Justice
Kindness, Knowledge

Earth values (examples)

Respect for others
Respect for nature
Academic integrity
Biodiversity
Geodiversity
Environmental rights
Rights of nature
Capitalism
Earth resources are free for all to grab
Earth resources are a commons
Sustainability
Nature is subservient to humans
Nature has limits



Values → Ethics

Core Ethical Values	Supporting Ethical Principles
Trustworthiness	honesty, integrity, confidentiality, good character, loyalty, honesty
Respect	respect for others, equality, self-determination
Responsibility	responsibility, accountability, transparency, integrity, honesty
Fairness	justice, equity, equality, equity
Caring	caring, kindness, compassion
Citizenship	citizenship, participation, voting

<https://www.lawnow.org/values-ethics-and-civil-society/>



Goebelet al
10.36001/jphm.2019.v10i1.2743



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Values clarification as an initial
step into geoethical issues

EGU General Assembly 2022, EGU22-2060
<https://doi.org/10.5194/egusphere-egu22-2060>
David Crookall & Pariphat Promduangsri

BASIS FOR COMPARISON	ETHICS	VALUES
Meaning	Ethics refers to the guidelines for conduct, that address question about morality.	Value is defined as the principles and ideals, that helps them in making judgement of what is more important.
What are they?	System of moral principles.	Stimuli for thinking.
Consistency	Uniform	Differs from person to person.
Tells	What is morally correct or incorrect, in the given situation.	What we want to do or achieve.
Determines	Extent of rightness or wrongness of our options.	Level of importance.
What it does?	Constrains	Motivates

<https://examnightslive.wordpress.com/2017/05/06/morals-values-and-ethics/>

	ETHICS	MORALS
What is it?	The rules of conduct recognized in respect to a particular class of human actions or a particular group, culture, etc. it defines how things are according to the rules.	Principles or habits with respect to right or wrong conduct. It defines how things should work according to an individual's ideas and principles.
Source	Social system/ external	Individual / internal
Why we do it?	Because society says it is the right thing to do.	Because we believe in something being right or wrong.
What if we don't do it?	We will face peer/ societal disapproval, or even be fined from our job.	Doing something against one's morals and principles can have different effects on different people, they may feel uncomfortable, remorse, depressed etc.

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Prepared by Biren Mer

BASIS FOR COMPARISON	ETHICS	MORALS	Values
Meaning	Ethics are the guiding principles which help the individual or group to decide what is good or bad.	Morals are the beliefs of the individual or group as to what is right or wrong.	Values are associated with the thought process, a person's sense of what is wrong and what is right.
What is it?	Response to a specific situation.	Principles of right and wrong.	Values are associated with personal aspects of a person.
Root word	Ethics which means character.	Moral which means custom.	Values which means worth.
Governed By	Individual or Legal and Professional norms	Social and cultural norms	One's own judgement of Right or Wrong.
Deals with	Right and wrong conduct	Principles of right and wrong	Individual's own ability of selecting (between/judging) right or wrong.
Applicability in Business	Yes	No	Yes
Consistency	Ethics are generally uniform.	Morals may differ from society to society and culture to culture	Values vary from person to person, it need not be consistent.
Expression	Ethics are abstract.	Morals are expressed in the form of general rules and statements.	Values are in abstract.
Freedom to think and choose	Yes	No	Yes

<https://medium.com/@birenmer/difference-between-ethics-morals-and-values-a2d085427c4b>

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Ethics

“The term *ethics* often refers to a **code of conduct** or a **set of rules** that is supposed to govern or **guide behavior**.”

*Encyclopedia of
Environmental
Ethics and
Philosophy,
p.XVIII (2009)*

No mention of geoethics

Values



“The value of values in climate science” *Nature Climate Change*

AR6 of the IPCC acknowledges that values play a role in the construction of climate change information.

AR6 recognizes that science has its own values, including openness, objectivity and evidence-based thinking.

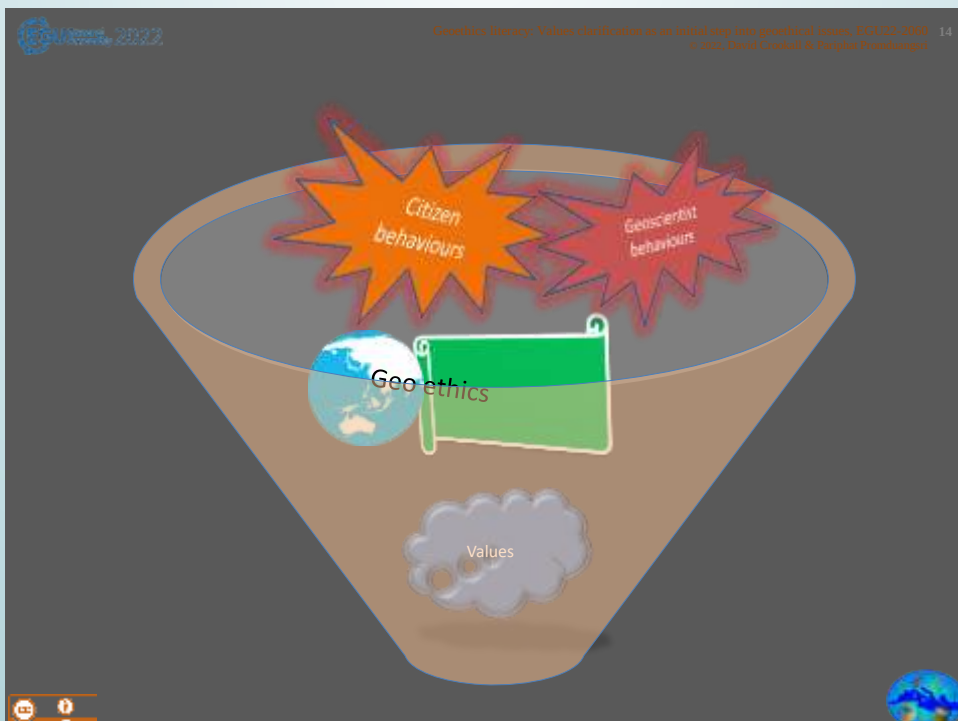
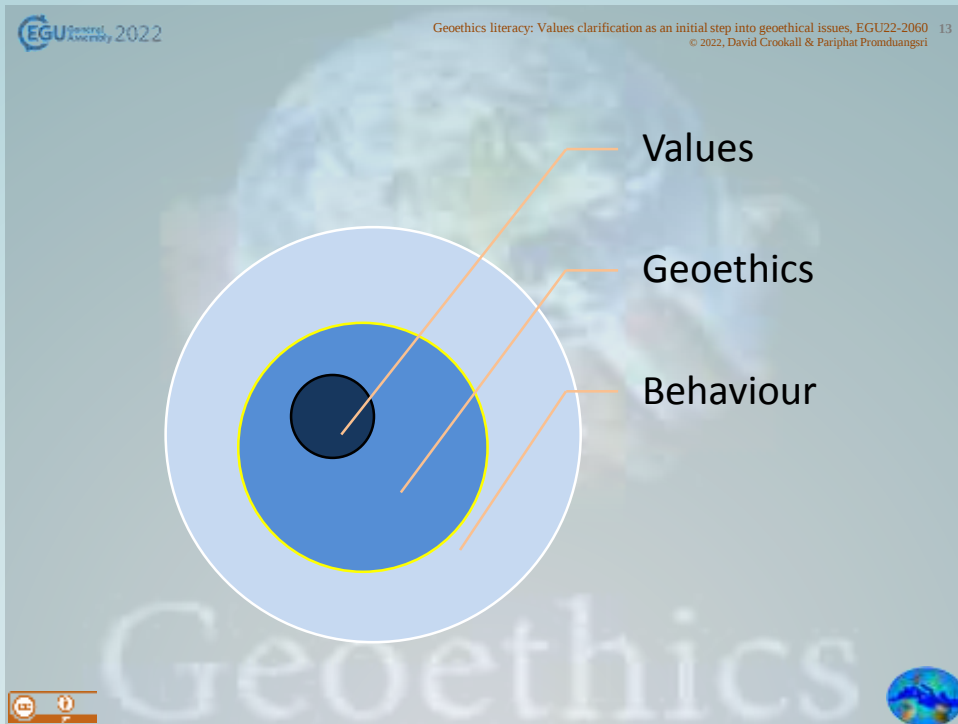
No mention of geoethics

However, it also recognizes that social values — fundamental views on what is good, right and important — guide a number of decisions in the “construction, assessment and communication of information (high confidence)” ...

Social values may enter climate change research on many levels, such as setting the aim or purpose of studies, formulating research questions, constructing and evaluating models and communicating results. Many such steps in research are mediated by choices, and so developing an awareness of values can be aided by developing an awareness of choices. ...

value judgements should be made transparent; they should reflect social and ethical priorities, and be scrutinized through engagement with multiple stakeholders.





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Values clarification (VC)

Values → attitudes → ethics → behaviours

- In **ordinary** situations: Assumption = share **same** values
- In **difficult** situations: Value **clashes** emerge → say ≠ do

To make **change** (in values, attitudes, ethics & behaviour):

- Need to make values **explicit**
- Confront, recognize, accept (clarify) value **differences**

Values clarification exercise (game, activity, ...)

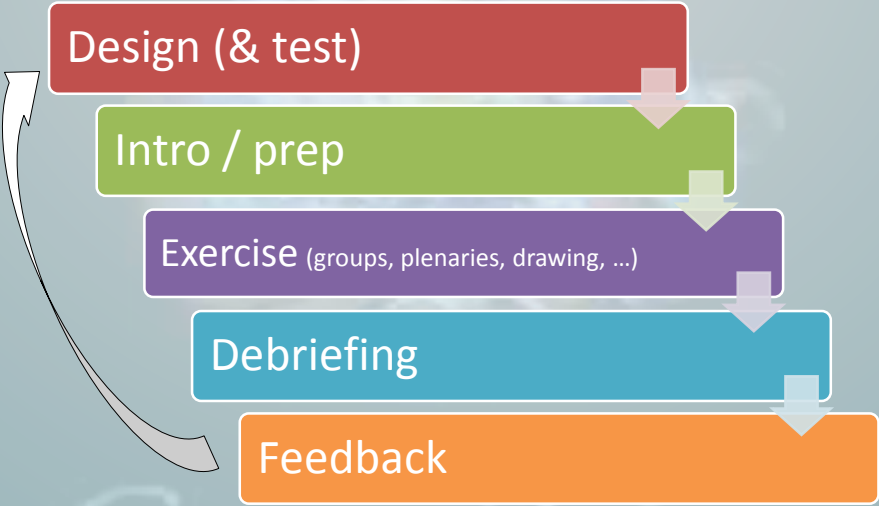
- Useful & versatile
- Work together to explore values (& beliefs)
- Develop a shared & grounded purpose (for behaviour change)
- Create a shared, personal connection to the desired transformation



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VC exercises – structure



```
graph TD; A[Design (& test)] --> B[Intro / prep]; B --> C[Exercise (groups, plenaries, drawing, ...)]; C --> D[Debriefing]; D --> E[Feedback]; E --> A;
```

VC exercises – examples





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Costa Rica, Nov 2017 – CIRAD & CATIE

SVG: Sustainability Values & Beliefs Game v1.3

Grégoire Leclerc, Pierre Bommel, David Crookall, Pariphat Promduangsri

- Discussion rules
- Consensus rules
 - Exercise goals
 - Learning objectives
 - Substance
 - Process

Community **water** management, Costa Rica

- Climate change context

Differential interests by local stakeholders

- Farmers, citizens, authorities, industry

Community sustainability

- Preparing for future generations

Searching for consensus (in a potentially conflictual situation)

The Sustainability Framework

ENVIRONMENTAL
Natural resources and
Environmental Mgt. Practices
Preventive and restorative
measures

SOCIAL
Solidarity of living
Education, Community
Equal Opportunity

ECONOMIC
Good Savings
Economic growth
Resource use & Development

CULTURAL
Values

Sustainable Society
Society that meets the
needs of the present
without compromising
the ability of future
generations to
meet their own
needs



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Presentation

3rd Conference on Agricultural Economics of the
UCR,
University of Costa Rica, 1 Nov 2017

***Modelación multiagente como medio para el estudio de los
ecosistemas:***

**Participatory methods for improving rural values-
based sustainability**

- Pierre Bommel, CIRAD, France
- David Crookall, Université de Nice Sophia Antipolis, France
- Grégoire Leclerc, CIRAD, France
- Pariphat Promduangsri, Lycée Renoir, France

Used with groups of farmers and stakeholders (in Nicoya)









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Earth Action Hub - 2021

EAH “a pioneering 3-day online global event and collaborative online community dedicated to inspiring and supporting local environmental action.”

**Sharing and clarifying sustainability values:
Helping each other to thrive into the future**

Online workshop, 4 hours, 15 participants (groups, plenaries)

- Introduction + short film
- Small group work
- Plenary session
- Small group debriefing
- Plenary debriefing

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1. Select and rank values
2. Develop actions deriving from values

Selection: 5 / 12
Rank order

8. A clean environment (eg, clean air & water) is essential for human health	2. Collaborative work & action(s) are essential for social & personal success	1. Global warming & climate change are major threats to human life	1. Global warming & climate change are major threats to human life	13. To survive, people & industry must stay within Planetary Boundaries
11. Biodiversity, insects, trees, water, ... influence wellbeing & survival	9. Listening to other people's views contributes to a healthy group	5. Learning (ada) & skills is a basic right for all (all ages, incl women)	15. Strengthen individual and collective capacity to combat global warming and climate change	3. Modern capitalism is destructive of life, health, the future of humanity
1. Global warming & climate change are major threats to human life	15. Jobs: Positive science must be included in education (STEM)	12. All native & indigenous rights and land must be respected	16. Environmental health is essential to human health. Biodiversity must be preserved	6. Collective aspirations & actions must prevail over individual ones
	5. Learning (ada) & skills is a basic right for all (all ages, incl women)	7. Politicians & directors must prove a best or better way in order to exercise	4. Modern capitalism is destructive of life, health, the future of humanity	12. All native & indigenous rights and land must be respected
			4. Politicians found guilty of lying must be stripped of their powers	

→ Actions:

Teach global warming and **climate change** in all schools at all levels

Introduce **laws** to protect **indigenous rights** and land

Introduce **laws** that guarantee that biodiversity will be protected

Use collective action to **hold politicians** and directors **to account** on climate issues

Promote and educate **alternative economic models/systems** from capitalism

Prioritise **Indigenous voices** in decision making processes.

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Results (qnr)

- ✓ Feelings, emotions
- ✓ Trust, confidence, teamwork
- ✓ Clarification of values
- ✓ Group process & teamwork
- ✓ Changes in values
- ✓ Actions
- ✓ Any other thoughts?

- worried, confused, shy, happy, excited
- Amazing and great
- Enlightened, connected, interested
- I felt intrigued and calm
- There was areal and positive connect with all team members and we arrived at key pints through consensus
- We discussed and listened to each other a lot, which is very nice and relaxing.
- Tolerance of other view points- has become stronger
- I've also learned others may not think like me about my core values like justice.



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EMUNI - Euro-Mediterranean University - 2021



“It is designed as a simulation exercise in which participants will have to prioritize **common values** and **cooperative policy measures** in three different parts of the Mediterranean: West, Centre and East.

Each part is facing different challenges regarding economic development, resources management, climate change consequences and geopolitical issues.”

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17→5or6 cards

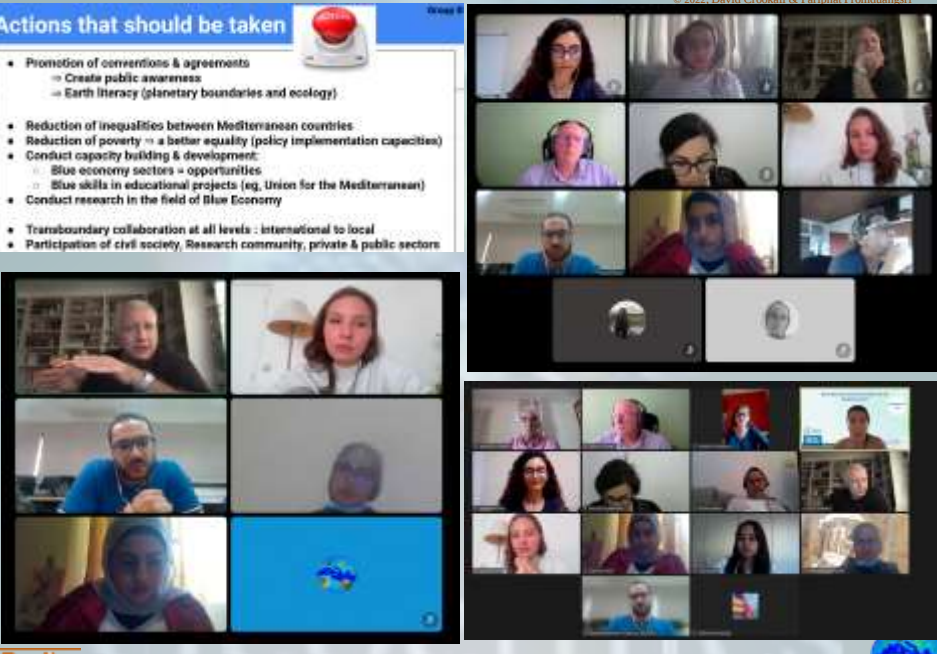
Individual + Group
Presentation +
feedback
Actions / values
Presentation
Debrief



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Actions that should be taken

- Promotion of conventions & agreements
 - ⇒ Create public awareness
 - ⇒ Earth literacy (planetary boundaries and ecology)
- Reduction of inequalities between Mediterranean countries
- Reduction of poverty ⇒ a better equality (policy implementation capacities)
- Conduct capacity building & development:
 - ⇒ Blue economy sectors ⇒ opportunities
 - ⇒ Blue skills in educational projects (eg. Union for the Mediterranean)
- Conduct research in the field of Blue Economy
- Transboundary collaboration at all levels : international to local
- Participation of civil society, Research community, private & public sectors



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Geoethics values clarification exercise

Future



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Ideas for a geoethics values clarification exercise

For

- (Geoscientists)
- Earth citizens

Procedure / steps

- Intro
- Individual selection
- Group selection
- Group presentations
- (Mix group membership)
- Action decisions
- Presentations
- Debriefing
- Follow-up

Sample cards for a geoethics clarification exercise

Every human being must respect nature and the Earth	Live according to the SDGs	Live in harmony with nature
Live within the Earth's carrying capacity	All heavy industry must respect the environment (materials source, work place,	Reduce & eliminate waste
All government ministers are 100% responsible for any environmental damage	Fossil fuels lead to war & to global heating	Never fly if there is a lower carbon footprint travel method

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Quotes

Underlying values

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Quotes 1/4

- ❖ Ethics is knowing the difference between what you have a right to do and what is right to do. Potter Stewart
- ❖ **Action** indeed is the sole medium of expression for ethics. Jane Addams
- ❖ Grub first, then ethics. Bertolt Brecht
- ❖ The first step in the evolution of ethics is a sense of **solidarity** with other human beings. Albert Schweitzer
- ❖ I do not believe in immortality of the individual, and I consider ethics to be an exclusively **human** concern with no superhuman authority behind it. Albert Einstein
- ❖ Great people have great values and great ethics. Jeffrey Gitomer.

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Quotes 2/4

- ❑ It is forbidden to kill; therefore, all murderers are punished unless they kill in large numbers and to the sound of trumpets. Voltaire.
- ❑ Ethics are more important than **laws**. Wynton Marsalis.
- ❑ There is no need for temples; no need for complicated philosophy. Our own **brain**, our own **heart** is our temple; the philosophy is **kindness**. Dalai Lama XIV.
- ❑ Ethics must begin at the top of an organization. It is a leadership issue and the chief executive must set the example. Edward Hennessy.
- ❑ Even the most rational approach to ethics is defenseless if there isn't the **will** to do what is right. Alexander Solzhenitsyn.

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Quotes 3/4

- ❖ The **top environmental problems** are **disconnection, zero sum mindsets, and disempowerment**, and to deal with these we need a **cultural and spiritual transformation**. And the systems we have in place are working to prevent that.“
Daniel Hires, Robert Christie
- ❖ “I used to think the top environmental problems were biodiversity loss, ecosystems collapse and climate change. I thought that with 30 years of good science we could address those problems. But I was wrong. The **top environmental problems** are **selfishness, greed and apathy**... and to deal with those we need a spiritual and cultural transformation and we scientists, don't know how to do that.”
- ❖ “**Value change** can change our pathetic capitulation to consumerism, which will help us psychologically as well as environmentally.”
James Gustave (Gus) Speth

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Quotes 4/4

When you arise in the morning, think of what a precious privilege it is to be alive, to breathe, to think, to enjoy, to love. Marcus Aurelius

The very air in which you live is an inspiration. William Henry

Air, an undervalued necessity, that earns your gratitude when you inhale it for the last time. Shaun Neil King

The earth is what we all have in common. Wendell Berry

The earth is the general and equal possession of all humanity and therefore cannot be the property of individuals. Leo Tolstoy

We abuse land because we regard it as a commodity belonging to us. When we see land as a community to which we belong, we may begin to use it with love and respect. Aldo Leopold

The health of our waters is the principal measure of how we live on the land. Luna Leopold

Water is fundamental for life and health. The human right to water is indispensable for leading a healthy life in human dignity. It is a prerequisite to the realization of all other human rights. United Nations

The first law of ecology is that everything is related to everything else. Barry Commoner

Relationships are the core message of ecology. Frances Moore Lappé

Ecology is the overall science of which economics is a minor specialty. Garrett Hardin

The economy is a wholly-owned subsidiary of the environment, not the other way around. Gaylord Nelson, Earth Day Founder

The highest function of ecology is the understanding of consequences. Frank Herbert

Probably the most visible example of unintended consequences, is what happens every time humans try to change the natural ecology of a place. Margaret J. Wheatley

We need to renegotiate our contract with nature. Ecology is a unifying force. Gregory Colbert

We won't have a society if we destroy the environment. Margaret Mead

The earth is what we all have in common. Wendell Berry

Touch the earth, feel the earth, her plains, her valleys, her hills, and her seas; rest your spirit in her solitary places. Henry Beston

Those who contemplate the beauty of the Earth find reserves of strength that will endure as long as life lasts. Rachel Carson

An understanding of the natural world and what's in it is a source of not only a great curiosity but great fulfillment. David Attenborough

Every great dream begins with a dreamer. Always remember, you have within you the strength, the patience, and the passion to reach for the stars to change the world. Harriet Tubman

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Values clarification

“Values clarification is a technique used in cognitive-behavioral therapy (CBT) that aims to **help people understand their value systems.**”
<https://positivepsychology.com/values-clarification/>

“You can think of **values** as like **guideposts**. They are words that describe the things that are the **most important** to you. They are the things that your **heart** says are important, as well as your **mind.**”
<https://www.artofwellbeing.com/2015/07/14/values/>

“Values are the **deep-seated, personal standards** that influence every aspect of our lives. Examples include integrity, privacy, family, honesty, harmony, and loyalty.”
<https://www.thebalancecareers.com/values-clarification-exercise-2275847>

“Values clarification is crucial to **making choices** that lead to adaptive living. This is because one’s **values**, an individual’s judgment of what is important, useful, and worthy in life, are central **mediating processes for behavior** at individual and societal levels.”
<https://www.psychologytoday.com/us/blog/theory-knowledge/201802/personal-value-exploration-experiential-activity>

Shealy, C.N. (2015). Imagining a world where beliefs and values make sense: Future directions and further reflections. In Craig N. Shealy (Ed.), Making sense of beliefs and values: Theory, research, and practice (pp. 625-667). New York, NY: Springer Publishing.



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Townhall - TM8

Exploring the nexus of geoethics and climate change education

<https://meetingorganizer.copernicus.org/EGU22/session/44689>

- **Today, 24 May, 19:00–20:00 (CEST)**
- **Room 1.14**

With:

- Participants from geoethics, EOS4, and climate literacy, EOS1.8
- **Dr Svitlana Krakovska**
Senior Scientist, Ukrainian Hydrometeorological Institute and IPCC author
- **Views & values related to fossil fuels, climate & war**



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thank you - merci



crookall.consulting @ gmail.com
pariphat.promduangsri @ gmail.com

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EGU22-2020 abstract submitted (1/2)

Ethics are built on values. Values underly ethics. How are they related? Can we talk about ethics without reference to values? Do values necessarily imply ethics? Do they form a unit, as in 'ethical values'? Are values and ethics driven by beliefs, or should values remain unchanged despite changing beliefs? Those are some of the questions that people will ask when confronted with the idea of ethics in life and in the geosciences. Values include honesty, compassion, nature, learning, quality, patience, truth, respect, individualism, creativity, wealth, justice, fame, humour, harmony, power, peace and beauty. How are these related to ethics? How are they related to geoethics? Often an ethical dilemma stems from two or more underlying value conflicts, such as individual identity and social value.

It is not easy to understand the principles and dynamics of such relations. Reading can of course help. However, for newcomers to the area, as well as those already familiar with concepts and dilemmas, one way into this quagmire is by using a values clarification exercise or game (VCE or VCG). A VCE can be a useful geoethics literacy tool to help people explore the complexities of the above relationships, to allow them to express their own ideas, to confront their ideas with those of others and to gain a rich understanding of the values that underly geoethics.

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EGU22-2060 abstract submitted (2/2)

We have designed and used VCEs and VCGs in a variety of settings, such as:

- A workshop for farmers in Costa Rica, organized by CIRAD and CATIE.
- A session on sustainability in an international conference on simulation/games.
- In an online conference organized by the Earth Action Hub, a global, online community dedicated to supporting one another in taking climate and environmental action.
- An online workshop for the Eastern Mediterranean University (EMUNI) on the topic of blue economy values.

Our EGU Geoethics session will summarise our previous experience of this kind of methodology, indicating that it is relatively easy to implement, show some sample materials (such as values cards and debriefing forms) and outline a blueprint for such an exercise to be used for geoethics literacy. We will also answer audience questions.

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end
fin

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