

09:20:35 From Leif to Everyone:

On the "Soil Carbon - Quality" slide where you reviewed the different standards - are those rating all relative, or do you have a definitions behind what scores a 1, 2, or 3 bar?

09:21:39 From Freya Chay | CarbonPlan to Everyone:

There are definitions for the scores. You can find the full analysis and the scoring definitions here: <https://carbonplan.org/research/soil-protocols>

09:25:22 From Ron to Hosts and panelists:

It seems like methods that increase soil organic matter and produce food would be preferred - having social benefits...

09:29:54 From Tess D to Hosts and panelists:

The presentation of the 5 issues on the previous slide would make a great shareable clip!

09:32:00 From John Peck, Family Farm Defenders (US) to Hosts and panelists:

Recent Bloomberg article on how corporations easily manipulate carbon offset markets: <https://www.bloomberg.com/news/articles/2022-03-17/timber-ceo-wants-to-reform-flawed-carbon-offset-market>

09:35:04 From Klaus to Everyone:

we have to fundamentally rethink how we farm; we are hosting a discussion focused on 'funding the transition', here is the abstract:

<https://docs.google.com/document/d/1QQQMyyvB6NMadetjnmKIEOsiF4YU0cA4-xkcJpMYkDE/edit?usp=sharing>

09:35:17 From Katie to Everyone:

Fabulous interventions, thank you.

09:35:30 From Klaus to Everyone:

It makes no sense to look at carbon in isolation

09:35:45 From Patti to Everyone:

excellent presentations

09:35:46 From Pascoe to Hosts and panelists:

wow. Thanks you Darrin. Laid it out so clearly and convincingly!

09:35:48 From Antonio to Everyone:

Thank you both! Great presentations

09:43:40 From Patti to Everyone:

thank you John

09:43:50 From Hanna to Hosts and panelists:

Thank you John!

09:44:01 From Isabel to Everyone:

Thanks, John!

09:45:08 From David to Everyone:

Darrin What practical advise do you have which will result in changing 80 million acres in Western Canada to move from being part of the problem to being part of the solution to global warming

09:46:35 From Klaus to Everyone:

industrial agriculture is damaging the environment beyond releasing carbon; top soil loss, water pollution, loss of nutrients, chemical pollution. Additionally requires regenerative practices such as cover crops, crop rotations, no till, introducing livestock.

09:46:37 From Niall to Everyone:

There is significant evidence of land grabbing in Ireland (and in other European countries). Large pension funds etc are beginning to buy up land in order to take advantage of future potential offsets. Land is always seen as a good investment.

09:48:14 From John Peck, Family Farm Defenders (US) to Everyone:

Yes, here is a recent article about the carbon land grabbing going on in Scotland - the new Enclosure underway: <https://www.ft.com/content/2ae63752-cefd-45b9-9282-a97584cc2cb2>

09:49:16 From Klaus to Everyone:

the regeneration of soil is a hyper local issue: different types and conditions of soil, access to water, climate down to micro-climates, and socioeconomic conditions require customized approaches. That in turn will impact the entire supply chain, is the industry ready for that?

09:50:17 From John Peck, Family Farm Defenders (US) to Everyone:

Truterra (the high-tech partner of Land O Lakes()) used proprietary software - is data mining farmers for valuable info

09:52:08 From Ben Lilliston/IATP to Everyone:

For those interested, a fact sheet with the Natl Family Farm Coalition on problems with carbon markets - https://www.iatp.org/sites/default/files/2020-02/2020_01_CarbonMarketsAndAg_FINAL.pdf

09:52:14 From Ron to Hosts and panelists:

@ David Rourke <https://farmersfootprint.us> <https://soilhealthacademy.org/> a couple initiatives to transition 200 million acres of GMO corn and soybean land to regenerative ag

09:54:23 From Klaus to Everyone:

Business Climate Leaders will be hosting a conversation on 'Funding the Transition', the 5th in a series focused on the Growing Climate Solutions Act, moving beyond carbon markets by aggregating environmental benefits. I will be moderating the discussion: 1klaus.mager@gmail.com
<https://www.businessclimateleaders.org/the-soilution-revolution-april19>

09:54:46 From John Peck, Family Farm Defenders (US) to Everyone:

Recent Bloomberg expose on corporate manipulation of carbon offsets:
<https://www.bloomberg.com/news/articles/2022-03-17/timber-ceo-wants-to-reform-flawed-carbon-offset-market>

09:57:46 From Myrto Tilianaki, CCFD - Terre Solidaire to Everyone:

Here is the link of the analysis on France's label bas carbone: https://reseauactionclimat.org/wp-content/uploads/2020/11/decryptage-label_bas_carbone_20_11_17_web.pdf

09:58:42 From Matt to Hosts and panelists:

Myrto: Is there an English translation of this analysis?

09:59:26 From Myrto Tilianaki, CCFD - Terre Solidaire to Hosts and panelists:

Hi Matt, it should be available in a couple of days please email me at m.tilianaki@ccfd-terresolidaire.org to get a copy!

10:01:20 From Ulrich to Hosts and panelists:

Attila, I am very interested in what you are saying; do please get in touch [REDACTED] I am just completing a paper on Harmonise with Nature. Thank you

10:01:36 From Selina to Everyone:

Position paper by German NGOs: https://www.arc2020.eu/wp-content/uploads/2021/12/Position-Paper-Carbon-Soils_engl_10122021.pdf

10:02:31 From Patti to Everyone:

excellent points

10:03:02 From Devlin to Everyone:

As an example, this site for online farmland selling, already integrates carbon farming:
<https://www.acrevalue.com/>

10:03:37 From Per Ivar to Everyone:

Very convincing arguments from Attila Szöcs!

10:04:20 From Emma Courtine | Ecvc to Everyone:

ECVC Publication: Carbon farming: A "new business model"... for who?

<https://www.eurovia.org/ecvc-publication-carbon-farming-a-new-business-model-for-who/>

10:04:56 From Katie to Hosts and panelists:

Great presentation Attila, thank you!

10:05:04 From Emma Courtine | Ecvc to Everyone:

En Français! Publication de ECVC: Carbon farming : Un 'nouveau modèle économique' ... pour qui ?

<https://www.eurovia.org/fr/publication-de-ecvc/>

10:05:42 From Emma Courtine | Ecvc to Everyone:

En Español: Publicación de ECVC: "La agricultura del carbono: Un 'nuevo modelo de negocio'... ¿para quién?" <https://www.eurovia.org/es/publicacion-de-ecvc-la-agricultura-del-carbono-un-nuevo-modelo-de-negocio-para-quien/>

10:05:48 From Klaus to Everyone:

the industrial food sector has created a vertically integrated supply chain that depends on monoculture practices. Highly specialized to require standardized inputs that require genetic modifications and fossil fuel based chemicals. It is not possible to restore soil back to health with monoculture practices, which implies that the solution needs to involve the entire supply chain.

10:13:45 From Klaus to Everyone:

+1 benoit

10:15:24 From Antonio to Everyone:

Merci!

10:17:39 From Klaus to Everyone:

+1 Frau Noichl spot on required is a change in practices, an exit from synthetic nitrogen fertilizers and toxins

10:23:25 From John Peck, Family Farm Defenders (US) to Everyone:

It would be part of existing CRP programs that are publicly funded

10:24:44 From Klaus to Everyone:

thank you for this amazing discussion, sorry I have to run

10:25:19 From Dietmar to Everyone:

Thank you very much – very helpful, but I have to leave.

10:27:06 From Patti to Everyone:

to truly transform agriculture, need to address the economics: <https://disparitytoparity.org/>

10:28:04 From Ulrich to Everyone:

All of this has been most inspiring - we really should be able to promote the small agroecologist as the standard way of producing our food. (like we do at home for the family) Thank you, I will leave now but listen to the recording

10:33:49 From Per Ivar to Everyone:

This site may be of interest to some: <https://oardc.osu.edu/facility/carbon-management-and-sequestration-center>

10:36:11 From John Peck, Family Farm Defenders (US) to Everyone:

But will the monitoring software be proprietary? That is the TruTerra model - and they want to "partner" (contract) to manage the USDA/NRCS program

10:36:16 From John to Hosts and panelists:

I have to slip away - many thanks to all, good to sharpen my understanding

10:37:02 From Stephen to Everyone:

Bravo! I learned a lot but am left very discouraged because I don't think USA taxpayers are ready to pay farmers for improved practices; we are ready to spend hundreds of billions on "defense" and billions on subsidies for fossil fuels but cavil at millions to support carbon farmer.

10:39:16 From Niall to Everyone:

Peatlands in the new CAP post 2020: <https://www.nweurope.eu/projects/project-search/care-peat-carbon-loss-reduction-from-peatlands-an-integrated-approach/news/position-paper-preserve-peatlands-in-post-2020-cap>

10:40:09 From Paul to Hosts and panelists:

Useful discussion (from Australia) on "Soil carbon is a highly flawed climate policy" in 3 parts by David Pannell: <https://www.pannelldiscussions.net/2021/04/346-soil-carbon-1/>

10:40:57 From Niall to Everyone:

White Paper on Peatland Carbon Credits and Ecosystem Services:
<https://www.nweurope.eu/projects/project-search/care-peat-carbon-loss-reduction-from-peatlands-an-integrated-approach/news/white-paper-on-carbon-credits-and-ecosystem-services/>

10:43:35 From Niall to Everyone:

Sorry the correct link is here: <https://www.eurosite.org/wp-content/uploads/CAP-Policy-Brief-Peatlands-in-the-new-European-Union-Version-4.8.pdf>

10:43:58 From Attila Szöcs, ECVF to Everyone:

Thank you, John. Well put!

10:45:34 From Andrew to Everyone:

A portion of the atmospheric carbon can be reestablished in the soil, but only to a point. My farms soil used to hold just over #6,000 of carbon and now, it holds #194,000 per acre... But we have to maintain the levels long term. Methane needs to be addressed along with carbon. Soil is part of solution

10:45:59 From Antonio to Everyone:



10:46:47 From David to Everyone:

Andrew , how did you make such a large change

10:47:19 From David to Everyone:

and how deep is the carbon now

10:47:28 From Paul to Everyone:

Should NOT even think of offsetting methane emissions with CO2 removal via CO2eq (even if such removals could be guaranteed). Reducing total annual methane emissions is essential for climate action as it can *reduce* the total methane warming to date (so cutting methane emission rate permanently has same °C effect as CO2 removal). If CO2 removals worked at (??) then could “balance” long-lived agri N2O, but not CH4.

10:47:54 From John Peck, Family Farm Defenders (US) to Everyone:

Neoliberalism!

10:47:56 From Pascoe to Hosts and panelists:

In response to Russia’s invasion of Ukraine, the EU wants 35 bcm of biome thane by 2030. Which is crazy.

10:49:04 From Anita to Everyone:

Thanks - there is a lot of litterature explaining, why 50 mio bisons did not produced a problem for the environment an why 50 intensively raised cows do. And please have a look on the MetaStudy by Terrer et al 2021!

A trade-off between plant and soil carbon storage under elevated CO2

C. Terrer^{1,2} ✉, R. P. Phillips³, B. A. Hungate^{4,5}, J. Rosende⁶, J. Pett-Ridge¹, M. E. Craig^{3,7}, K. J. van Groenigen⁸, T. F. Keenan^{9,10}, B. N. Sulman⁷, B. D. Stocker^{11,12}, P. B. Reich^{13,14}, A. F. A. Pellegrini^{2,15}, E. Pendall¹⁴, H. Zhang¹⁶, R. D. Evans¹⁷, Y. Carrillo¹⁴, J. B. Fisher^{18,19}, K. Van Sundert²⁰, Sara Vicca²⁰ & R. B. Jackson^{2,21}

<https://doi.org/10.1038/s41586-021-03306-8>

We found that overall, SOC stocks increase with eCO2 in grasslands (8 ± 2 per cent) but not in forests (0 ± 2 per cent), even though plant biomass in grasslands increase less (9 ± 3 per cent) than in forests (23 ± 2 per cent). (...)

Ecosystem models do not reproduce this trade-off, which implies that projections of SOC may need to be revised.

10:49:05 From Guus to Everyone:



10:49:36 From Erik to Hosts and panelists:

At Mongabay we're publishing a lot about agroecology, the New IPCC report has spurred more to come soon, too, about agroecology as a soil carbon solution:

<https://news.mongabay.com/list/agroecology/>

10:50:07 From Hanna to Everyone:

Excellent event, thank you everyone

10:50:10 From Tracy to Everyone:

Water restoration — and reversing desertification — is another strategy for addressing climate change. Here is a resource for learning: <https://www.waterstories.com>

10:50:22 From Andrew to Everyone:

My soil carbon results represent the first 6.7" of soil. I have not tested the carbon levels in the next zone which is an important zone to test. This is based on 58% of O.M. being carbon... so aiming for high O.M. and then maintaining that is key.

10:50:57 From Niall to Everyone:

There is a real problem on emissions from Peatlands. In Europe roughly 25% of all agricultural GHG emissions come from degraded Peatland areas. These comprise of only 3% of the farmland area in the EU. This is skewing the argument enormously and there is a very strong argument for using all money available to solve this problem.

10:51:34 From David to Everyone:

Andrew , did you do that with cattle or grain farming

10:52:18 From David to Everyone:

Andrew I am in Canada 1-204-534-7531 I would like to discuss further

10:53:52 From Guus to Everyone:

Yes limit GHG (in EU):

- by higher ecotaxes on GHGs
- combined with higher import taxes to avoid carbon leakage and reach food sovereignty
- supply management, and so stop general hectare payments, and use most of CAP budget for green services.

See also this alternative by Dutch civil society and farmers organizations and trade unions:
<https://handelanders.nl/wp-content/uploads/2021/01/English-version-of-our-publication.pdf>

10:54:06 From John Peck, Family Farm Defenders (US) to Everyone:

Value does not have to be market determined, these are public goods

10:55:12 From Tracy to Everyone:

Excellent point, John. Thank you. Take the corporations out of climate action. They are parasites.

10:55:53 From Antonio to Everyone:

Food is a Human Right, not a commodity!

10:58:09 From Leif to Everyone:

This webinar focused on the negatives of markets. If there is a "suggestion box" for future webinars, I think it would be very interesting to explore the alternative options for inspiring farmers to change practices (ie. incentives, regulation, markets) and dive into the pro and cons, political realities, time it'll take for change, etc of those different alternatives.

10:59:16 From Isabel to Everyone:

Thanks John

10:59:29 From Per Ivar to Everyone:

@Leif Fixen. Good suggestion!

10:59:32 From Isabel to Everyone:

Leif, that would be a very useful webinar!

11:00:10 From Paul to Everyone:

Worth noting: IPCC AR6 scenario for 1.5°C assumes a 47% cut in global agri CH₄/yr by 2050 with biggest fraction by 2030.

11:00:31 From Karen to Hosts and panelists:

Such an important conversation! Thanks so much for hosting!

11:01:03 From Tess to Everyone:

Thanks for highlighting that Ben - not to mention the impacts of extraction and pipeline infrastructure on Indigenous and rural communities as well.

11:01:09 From Philip -Leist to Hosts and panelists:

Thanks to all for the insights stemming from so many perspectives. I hope the chat might be shared for reference, if possible.

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