Present after lunch

20 minutes for pres

* not just results
* also learnings, also stuff that do not work (like market shares :) )
* feedback on autumn school

Groupe U1

Article: <https://link.springer.com/article/10.1007/s42773-022-00144-3>

Article on biochar in concrete: [Biochar from residual biomass as a concrete filler for improved thermal and acoustic properties - ScienceDirect](https://www.sciencedirect.com/science/article/pii/S0961953418303039)

Initial first plan from yesterday (^^)

1. Create processes for biochar and charcrete, for both production and end-of-life

Limitations

* Climate change only
* Disregard from allocation (cutoff - energy from biochar)
* Maybe just look at production? As in not end-of-life

Basecase:

* biochar prod
* energy mix
* concrete production location
* functional unit: 1 m3 of concrete?

1. Basic contribution analysis (at an activity level)
2. Contextualisation/regionalisation of processes, (geographic location for concrete production, biochar production technologies, energy mixes)
3. Biogenic carbon in biochar sequestration in soil
4. Comparative analysis including uncertainty (?) - e.g. biochar stability
5. GSA - find most influential parameters?
6. Building scale - correlated sampling (parametrized model?)
7. Changing the market for concrete
8. Replace concrete in ei with charcrete - dont just add new stuff but manipulate
9. Check how this affects climate change impact concrete products
10. Markets for buildings?
11. Manipulating data in concrete ei activities, e.i. changing electricity mixes
12. Parametrization of dependent params?

create diff modules

work in github

tasks :

* creating git repo (and responsible for commit) -> (who?)
* creating processes (bw2?) ->
* data collection (lisa)
* regionalization of concrete production?
* uncertainties analysis?

Disclaimers: don’t know of any projects for charcrete in buildings… functionality the same?

Use lca\_algebraic?

Uncertain/choices parameters (continuous/discrete):

* biochar prod:process : [
* biochar prod:energy mix : [Sweden, Switzerland, …]
* charcrete production:energy mix/cement: [

waste wood to biochar?

Commit protocol :

* work on your own server space in project “ei teaching25”
* download jupyter notebook on your computer
* push it on git hub
* pull it on the group server space

Commit for geeks (in a new terminal in your space server):

* change directory to “Charcrete-LCA” (cd Charcrete-LCA)
* git pull (just to check you have the right version of the work)
* git add .
* git commit -m “blablabla” (do not forget the message -m blabla or it will crash)
* git push

if you have made unintentional modifications to the “main” file, you can clean it with :

git checkout HEAD -- main.ipynb

What do we have done in bw2 :

* a new database for our processes
  + we have managed to have a nice excel template working fine with the brightway excel importer and managed to integrate our data on biochar in a new database linked to ecoinvent
* could be easily turned into a datapackage