### Metabolic Internship

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Amsterdam, Netherlands





\*Metabolic

- \*Clean Tech Tool
- \*Analytics for World Wildlife Fund (WWF)
  - \*Research
  - \*Chord Diagrams
  - \*Sankey Diagrams

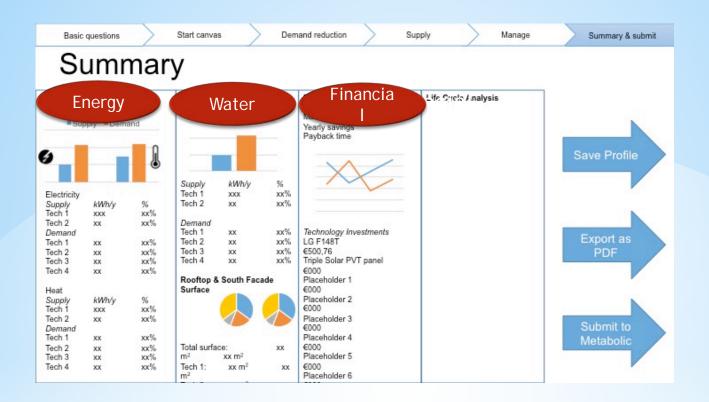


### Welcome!

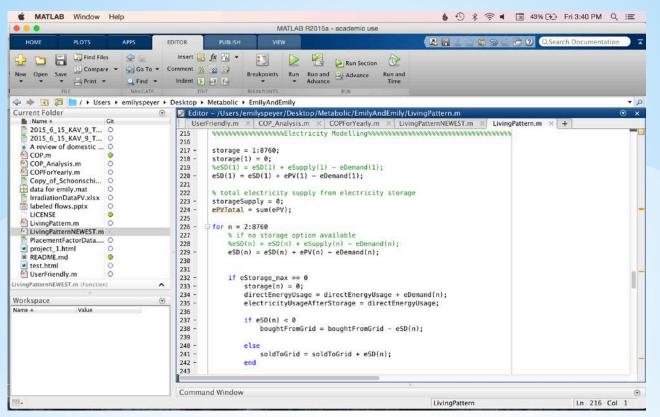
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## \*Clean Tech Tool



# \*Clean Tech Tool



### \*Clean Tech Tool

- \*Research
- \*Chord Diagrams
- \*Sankey Diagrams

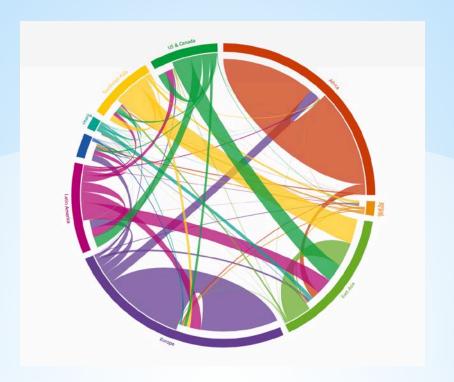


- \*What are they doing?
- \*Snapshot
- \*European Subsidies Analysis

## \*WWF Research

- \*In Progress
  - \*Data on Farmers total income
    - \* Subsidies provided to farmers
    - \* Production Data
  - \*Should farmers be receiving these subsidies?
    - \* What percent of their income is from subsidies?
    - \* What crops receive the largest subsidies?
    - \* What percent of food is wasted?

### \*Subsidies Research



# \*WWF Chord Diagrams

- \*Trade Analysis
  - \*Global
  - \*European
  - \*Palm Oil
  - \*Sugar
  - \*Coffee
- \*d3, Javascript, CSS and HTML

```
<!DOCTYPE html>
                                  charst-st-st-very
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                                                src="javascripts/d3.v3.min.js"></script>
                                                src="main.js"></script>
                  width: 75%; height: 75%; top: 12.5%; left: 12.5%; background-color: white; border: 2px solid #6F99C6; display: none; overflow: scroll;
                width: 95%; height: 95%; position: absolute; top: 2.5%; left: 2.5%; background-color: #668D87; overflow: scroll;
                  width: 95%; height: 90px; text-align: center; color: #6F99C6; font-size
                  margin-top: 20px;
            .results-container {
  width: 705px; background-color: #fff;
  margin-left: auto; margin-right: auto;
                  height: auto:
                margin-bottom: 150px;
border-left: 1px solid white;
                  width: 77px;
height: 100px;
                     text-align: center;
                   border-left: 1px solid white:
                   color: white;
                  font-weight: bold;
width: 100%;
```

### \*WWF Chord Diagrams

### Chord Diagram Creation By Emily Speyer July 2015

\*\*\*Add pics!! \*\*\* upload some onto google drive \*\*\*ask for cys format \*\*\*sometimes refreshing doesn't work

### Material Needed

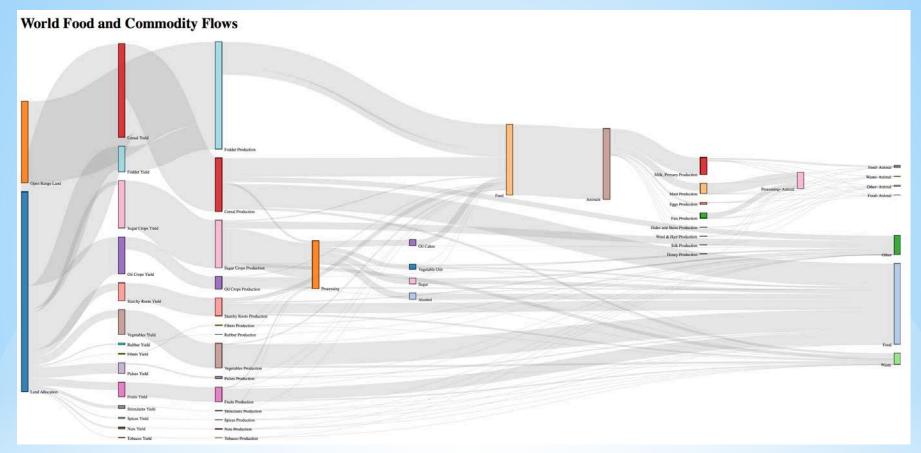
- 1. The example folder: European Data
  - Everything you need should be in this folder but most documentation is originally from the website <a href="http://d3js.org">http://d3js.org</a> incase you ever want to explore the software further
- Sublime (coding text editor): <a href="http://www.sublimetext.com/">http://www.sublimetext.com/</a> the free version is fine
- 3. Optional:
  - a. GitHub account (for sharing content see step 10)
  - More example folders for more/increasingly complex chord diagrams
    - You can access them through my GitHub: https://github.com/espeyer7

### Make a Chord Diagram

- Duplicate the <u>European Data</u> folder and, for consistency in these instructions, rename the folder <u>My Chord Diagram</u>
- 2. Prepare your given CSV data
  - a. NOTE: you will be altering your CSV spreadsheet, so make sure you have a backup of the original
  - b. ALSO NOTE: what should be on x/y axis for input/output (Speak to Peter about this\*\*\*\*\*)?
  - c. Make sure your column and row labels match each other identically
  - d. If not already there, add two rows and columns containing only zeros as their data points. Do not label these two rows/columns (if there is a



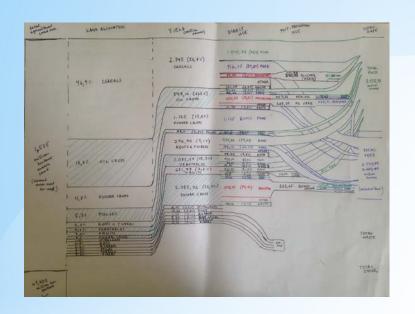


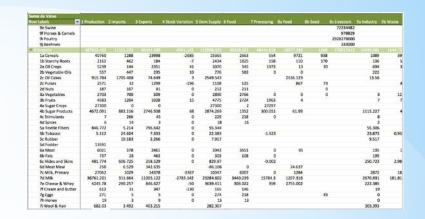


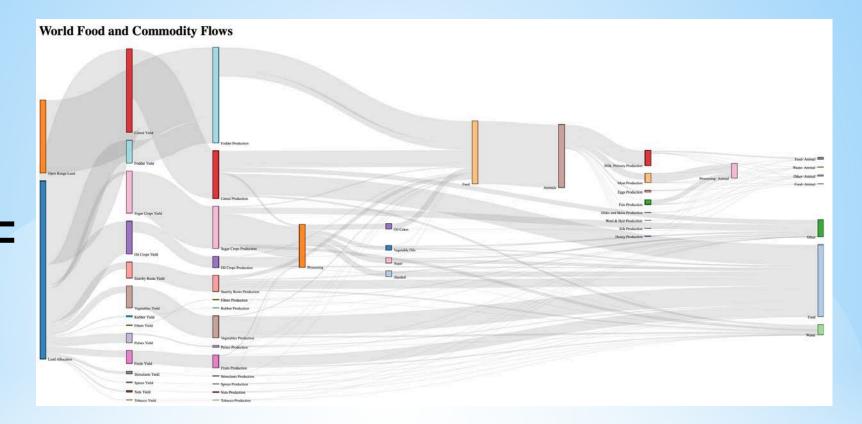
### \*Food and Commodity Flow

- \* World
- \*Regions in the World
  - \* US & Canada
  - \* Latin America
  - \* Europe
  - \* Middle East
  - \* Africa
  - \* East Asia
  - \* Central and South Asia
  - \* South East Asia
  - \* Oceania
- \*d3, Javascript, CSS and HTML

```
<!DOCTYPE html>
                                      charstemetr.see="incomplex" color block of the color block of the
                                                   src="main.js"></script>
                   width: 75%; height: 75%; top: 12.5%; left: 12.5%; background-color: white; border: 2px solid #6F99C6; display: none; overflow: scroll;
            .text-results {
   width: 95%; height: 98px; text-align: center; color: #6F99C6; font-size
                   : 18px;
margin-top: 20px;
            results-container {
  width: 705px; background-color: #fff;
  margin-left: auto; margin-right: auto;
           .indicators {
  width: 77px;
  height: auto;
  float: left;
                   margin-top: 5px;
margin-bottom: 150px;
border-left: 1px solid white;
                   width: 77px;
height: 100px;
                      text-align: center;
                   position: relative;
border-left: 1px solid white;
            #issue-name {
  color: white;
                   font-weight: bold;
width: 100%;
```







# \*Thank You