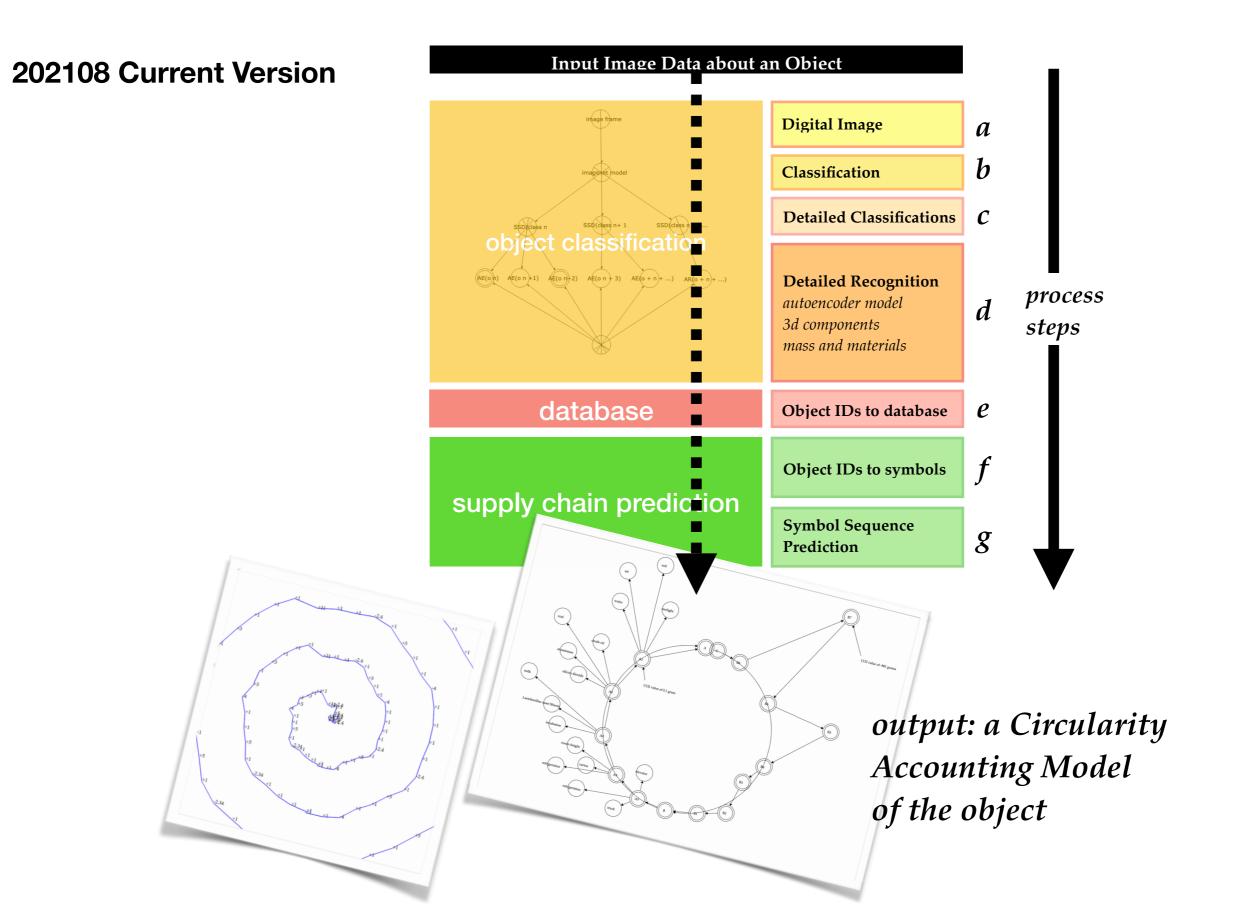
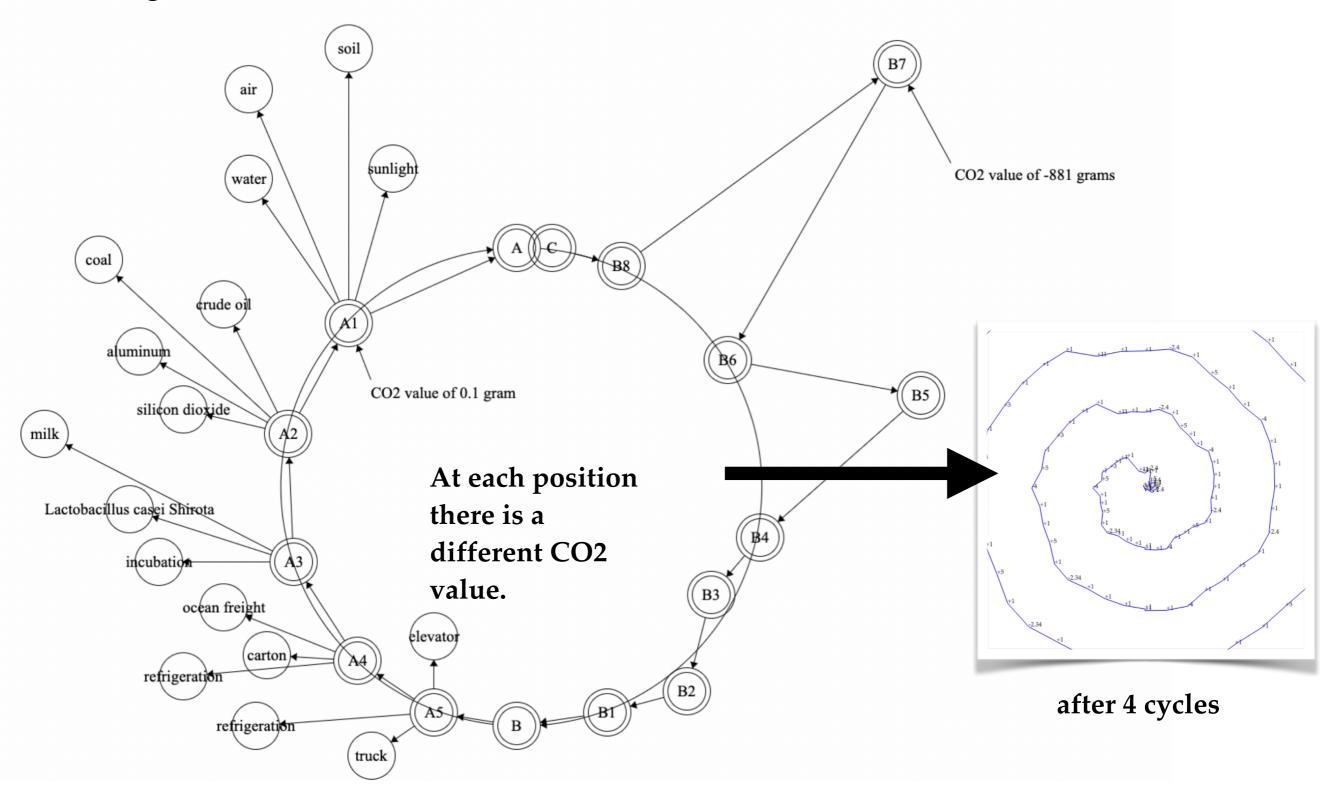
Overview concepts of data input for building CO2 sequestration networks and vectors

20210910WA_ data_input_CVM_network and vectors

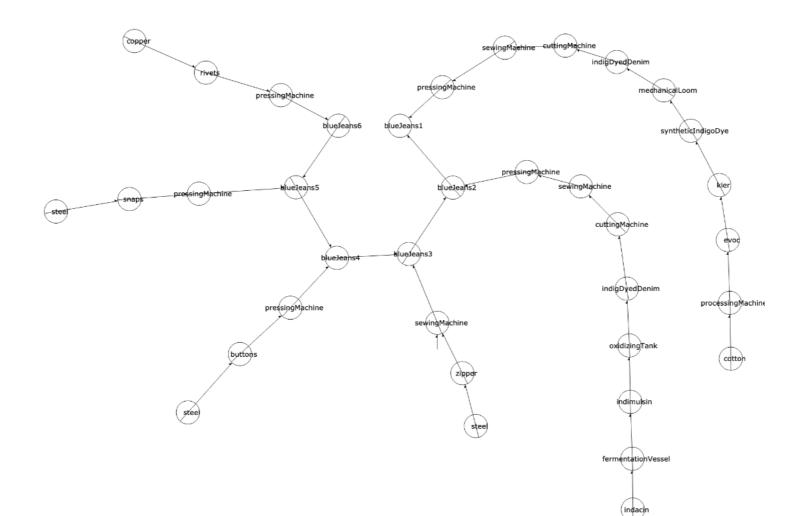


The simplified version of the graph is what we are using as the *'circularity economy'* diagram, which shows the carbon values as distances from a circle.



requires data that describes the supply chain and the disposal chain

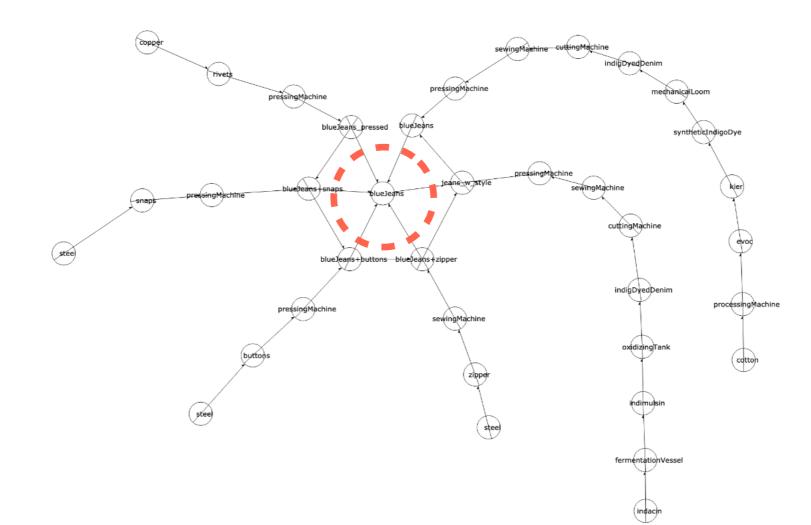
how to conceptualize and encode the steps in a supply-destruction chain model



From the consumption vectors, we can make this graph,

which shows the inputs of carbon on the production 'circle' of blueJeans.

The circle is the the beginning to the end of the blueJeans product.

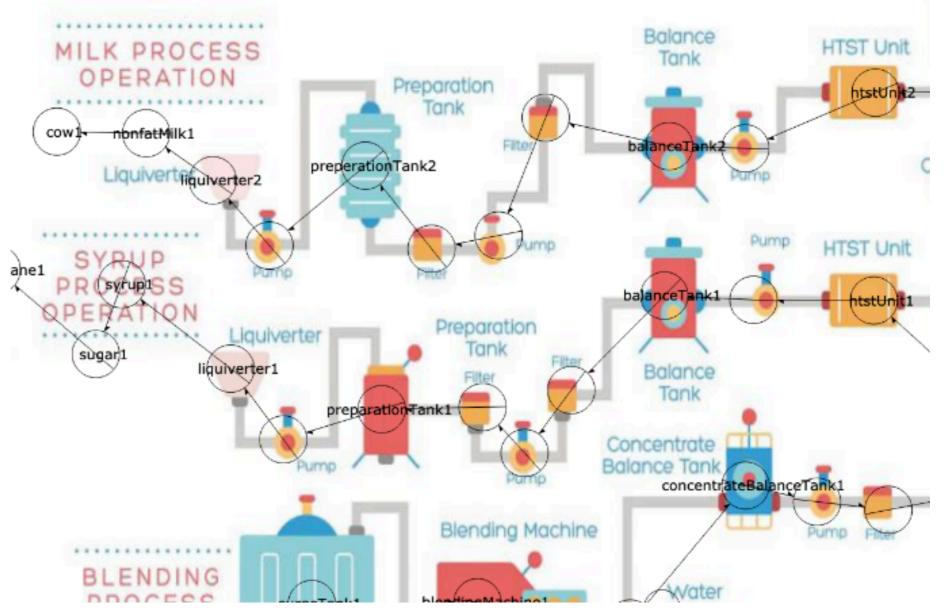


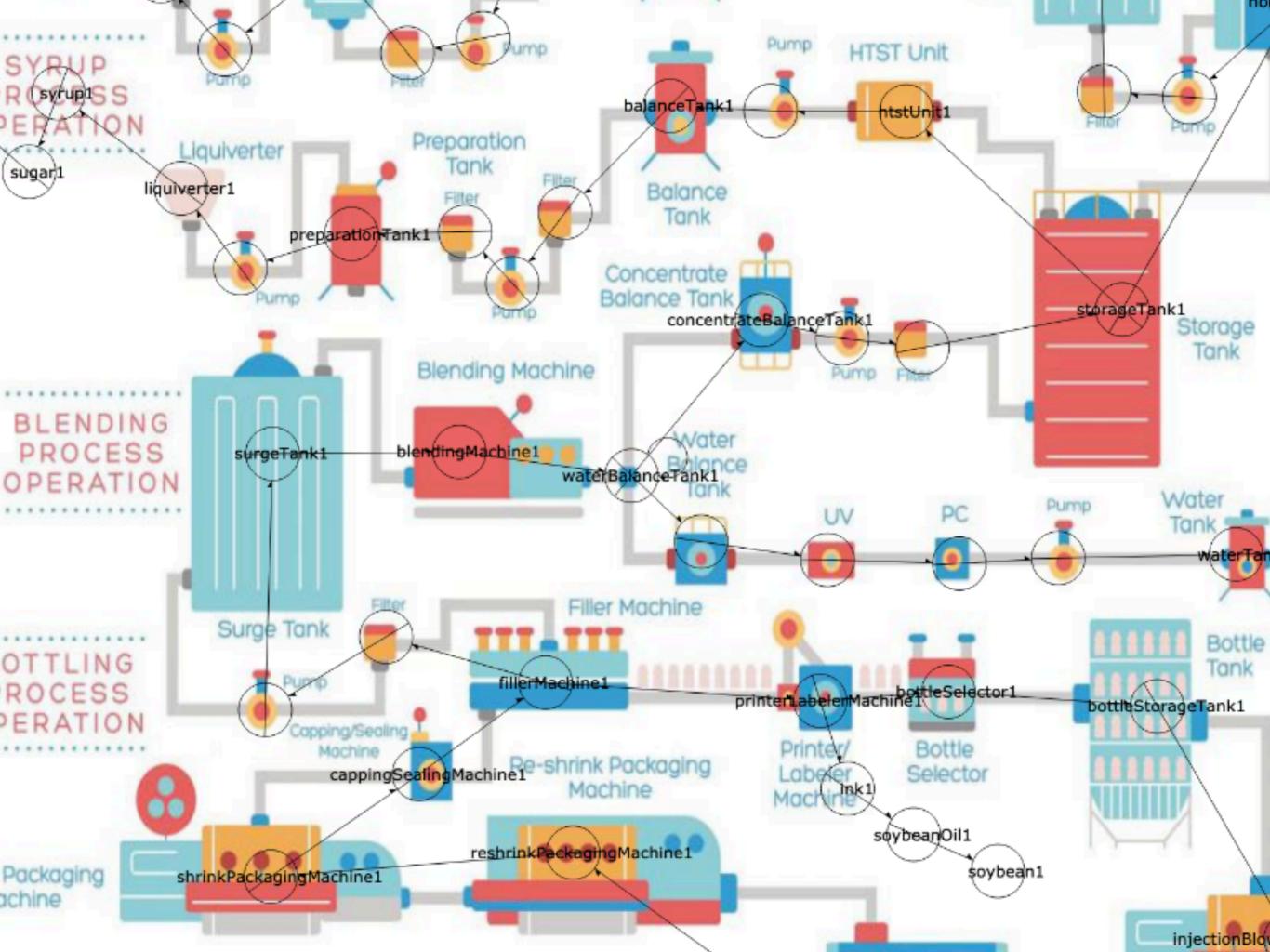
Note the addition of the center node, and the requirement to sum all the component vectors.

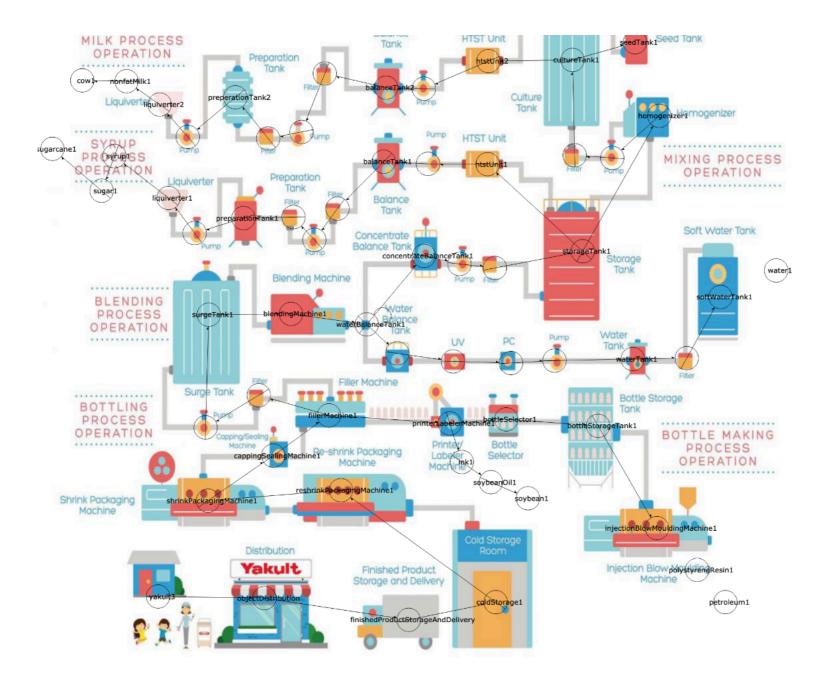
Yakult Manufacturing

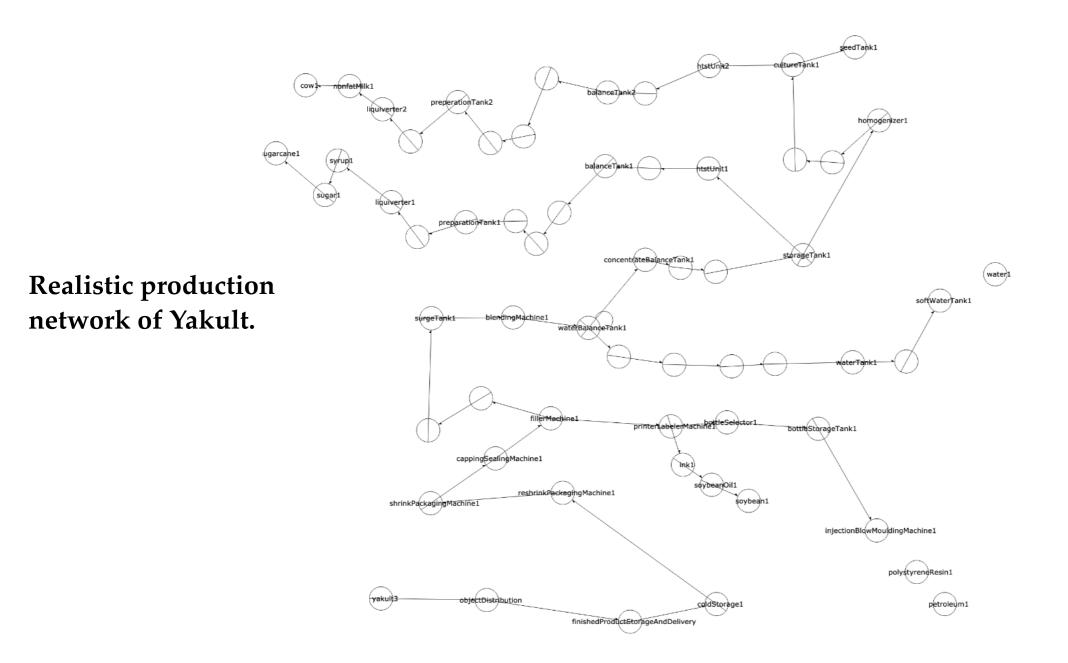
We can make a realistic graph, from the inputs of carbon on the production network of Yakult.

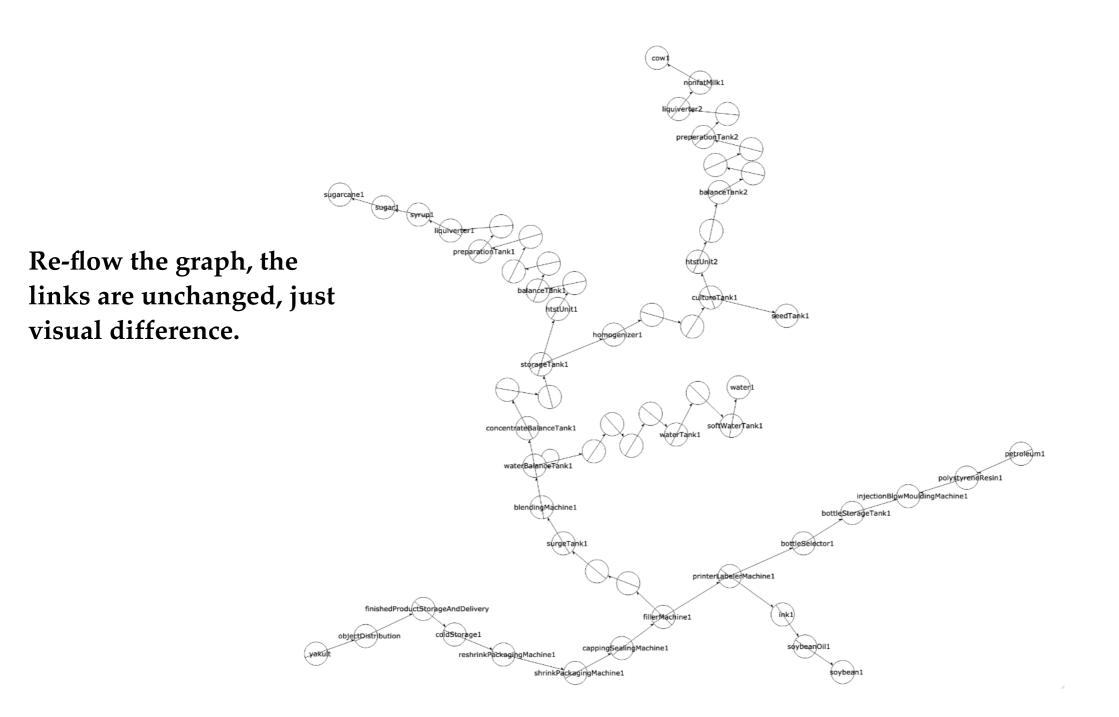
This network is not circular.

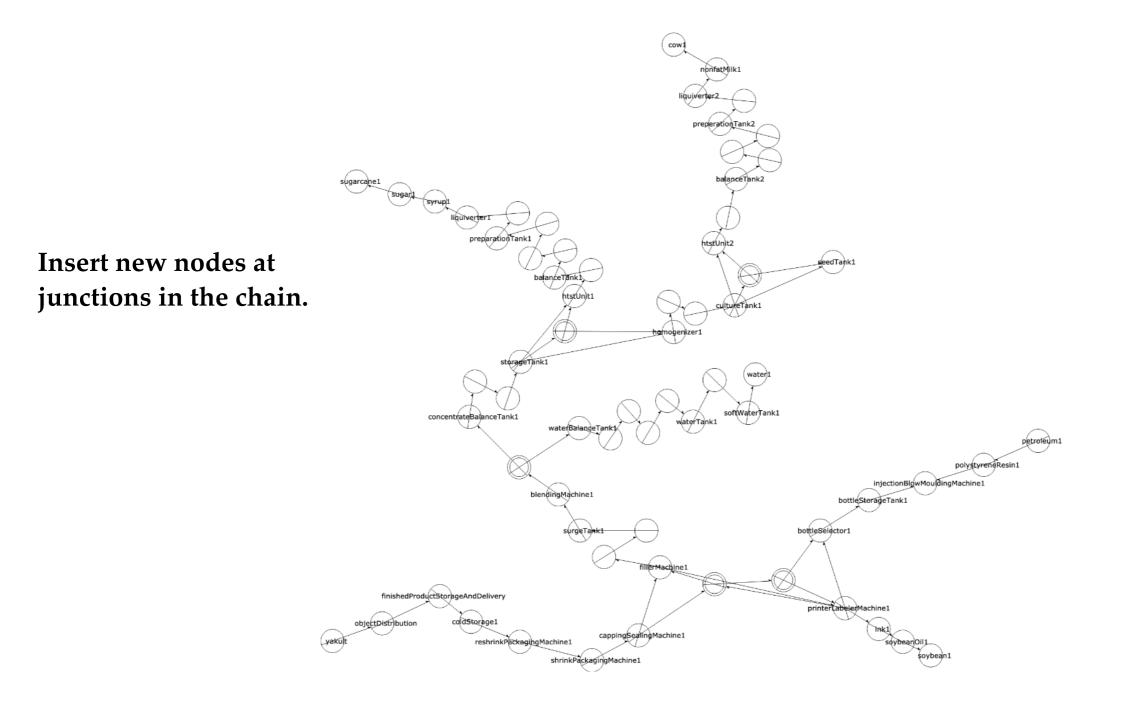


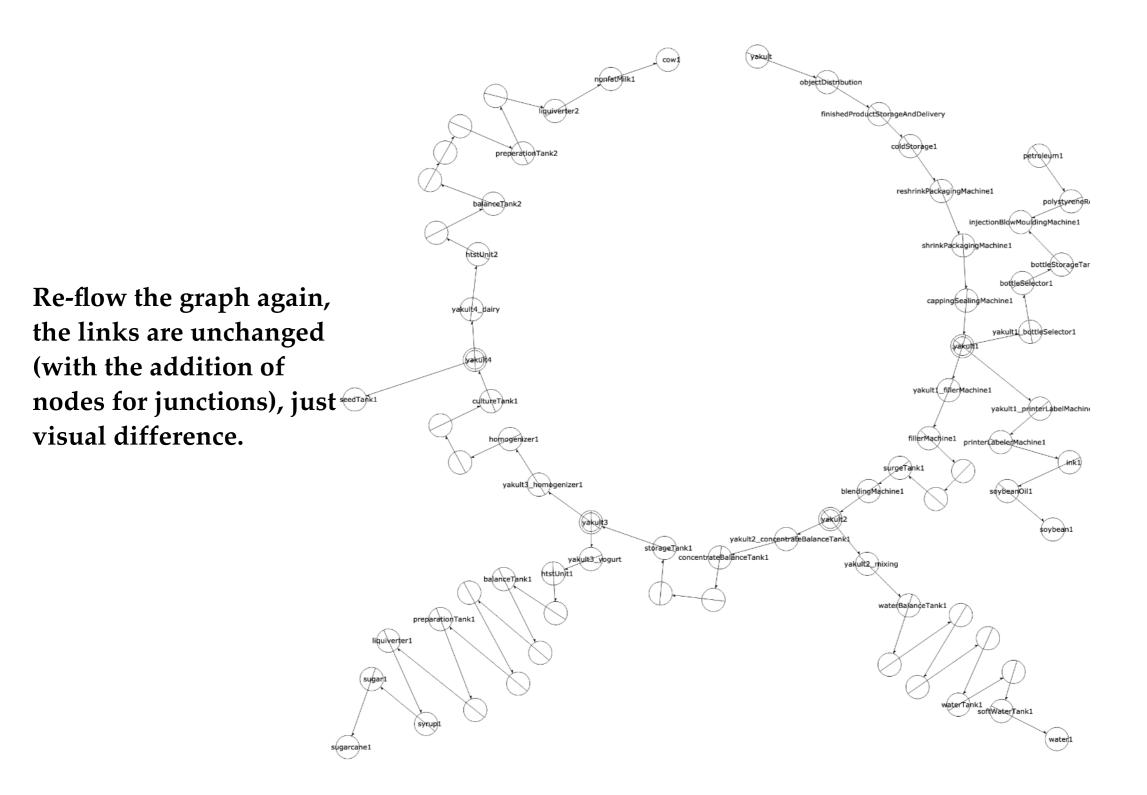


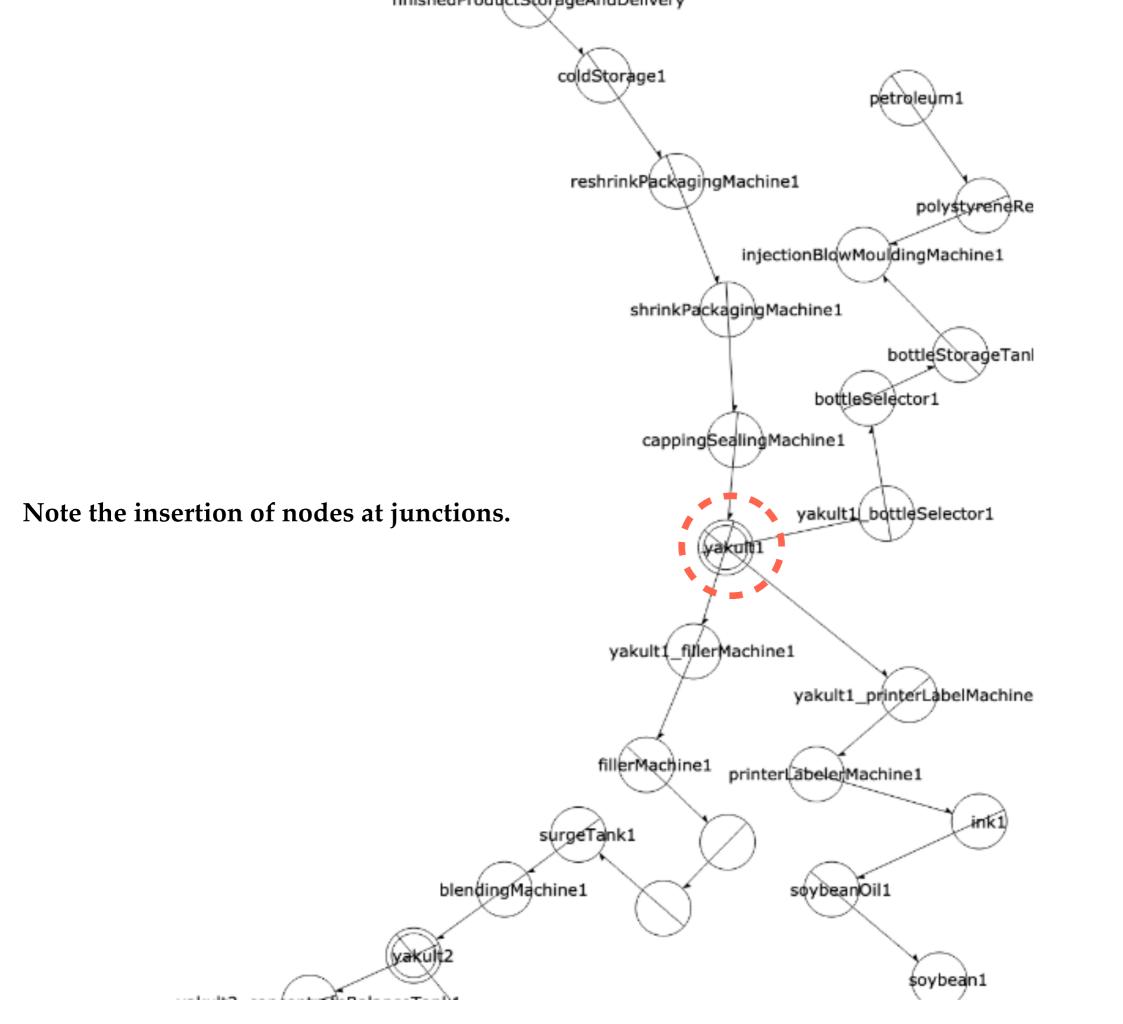


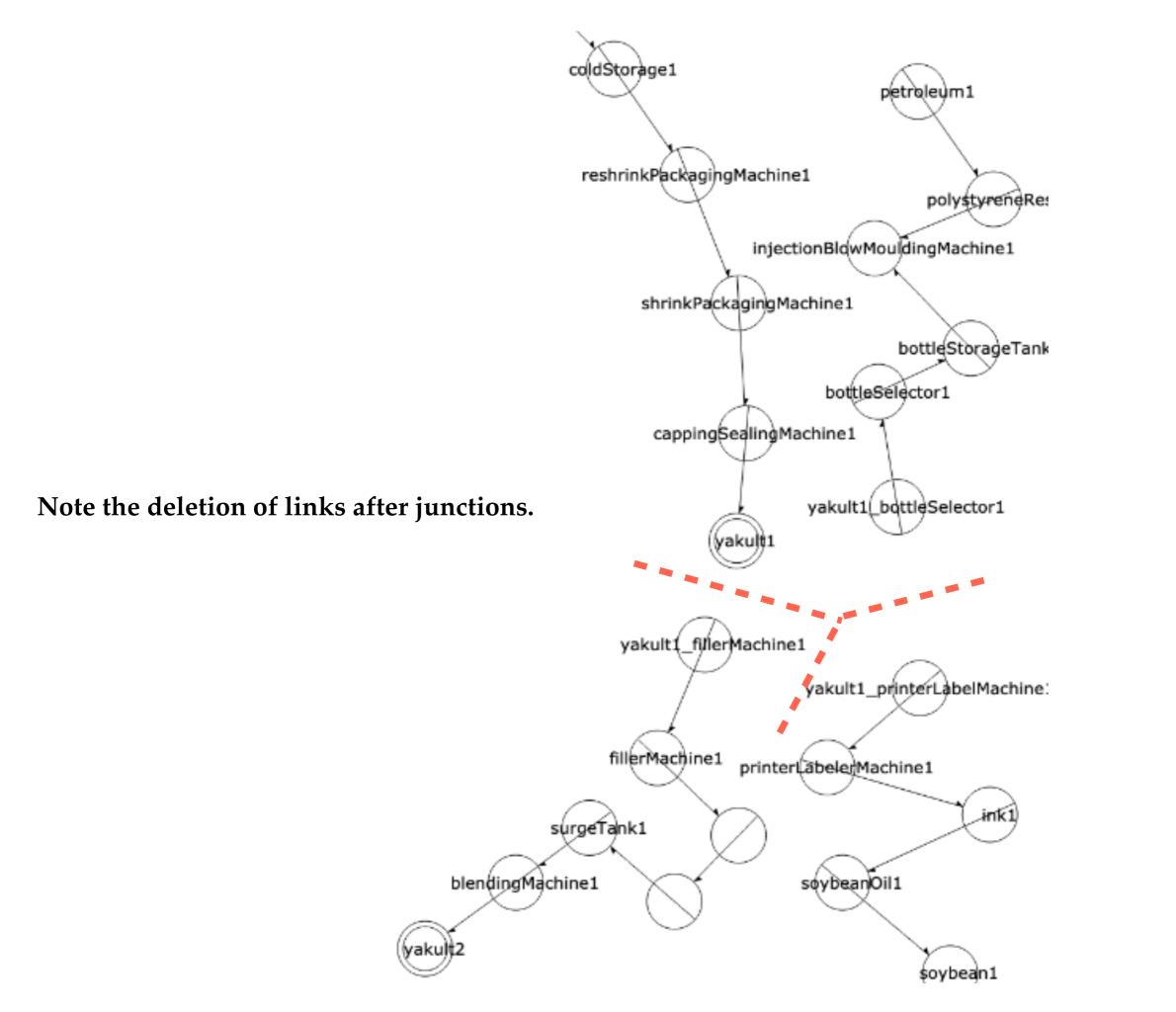


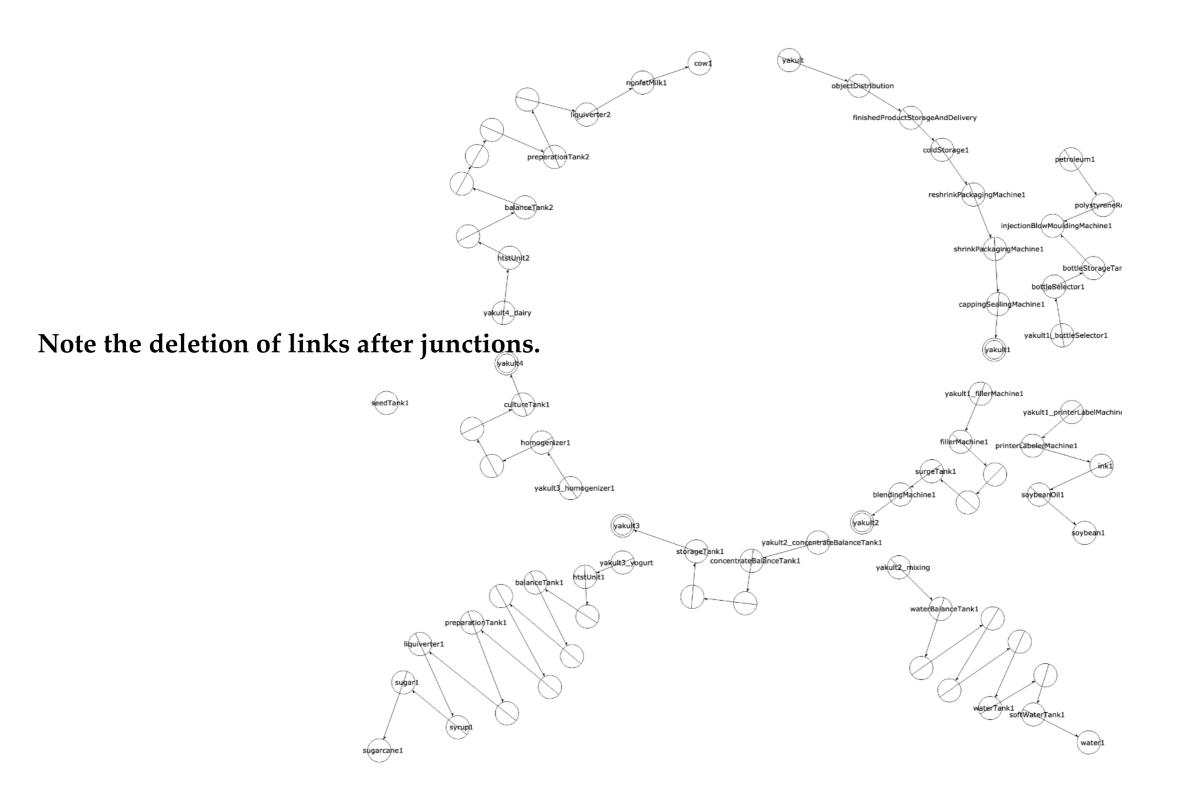


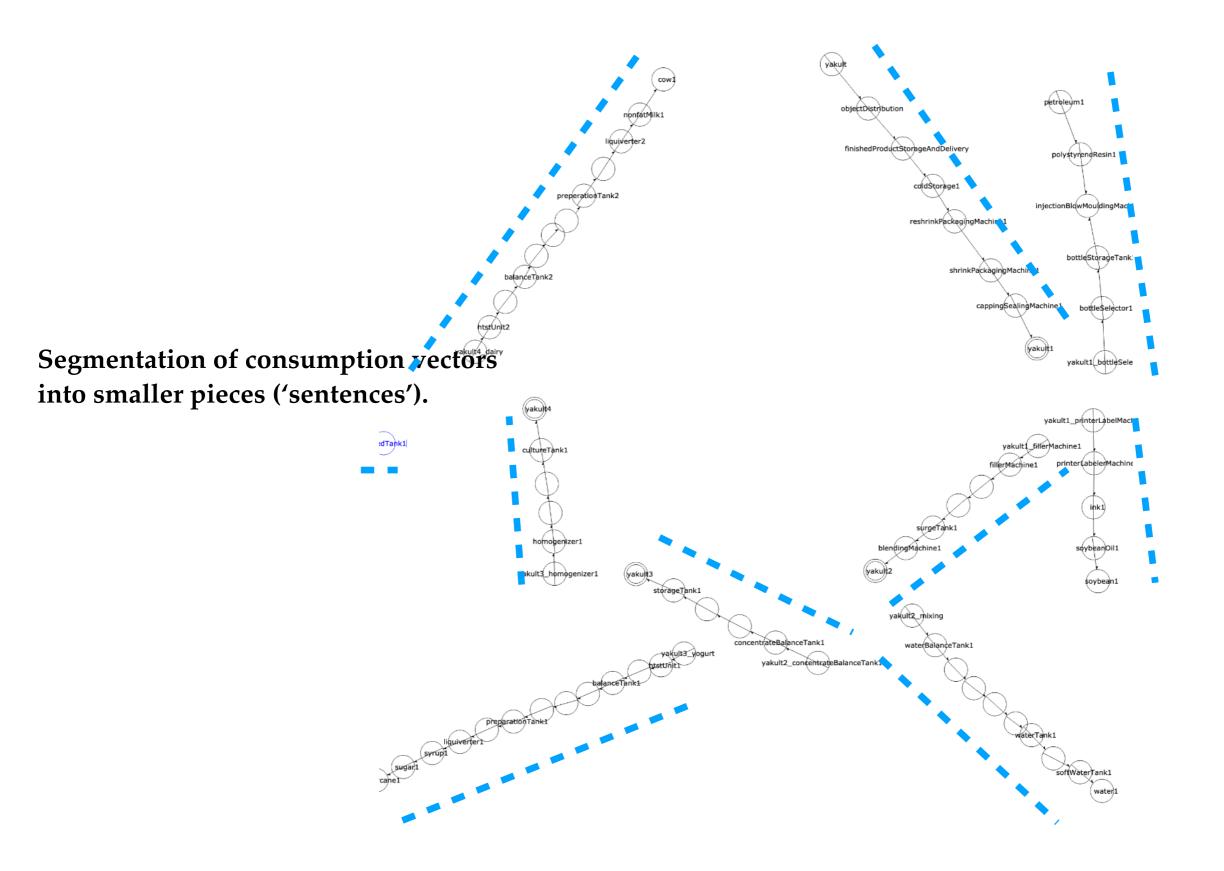


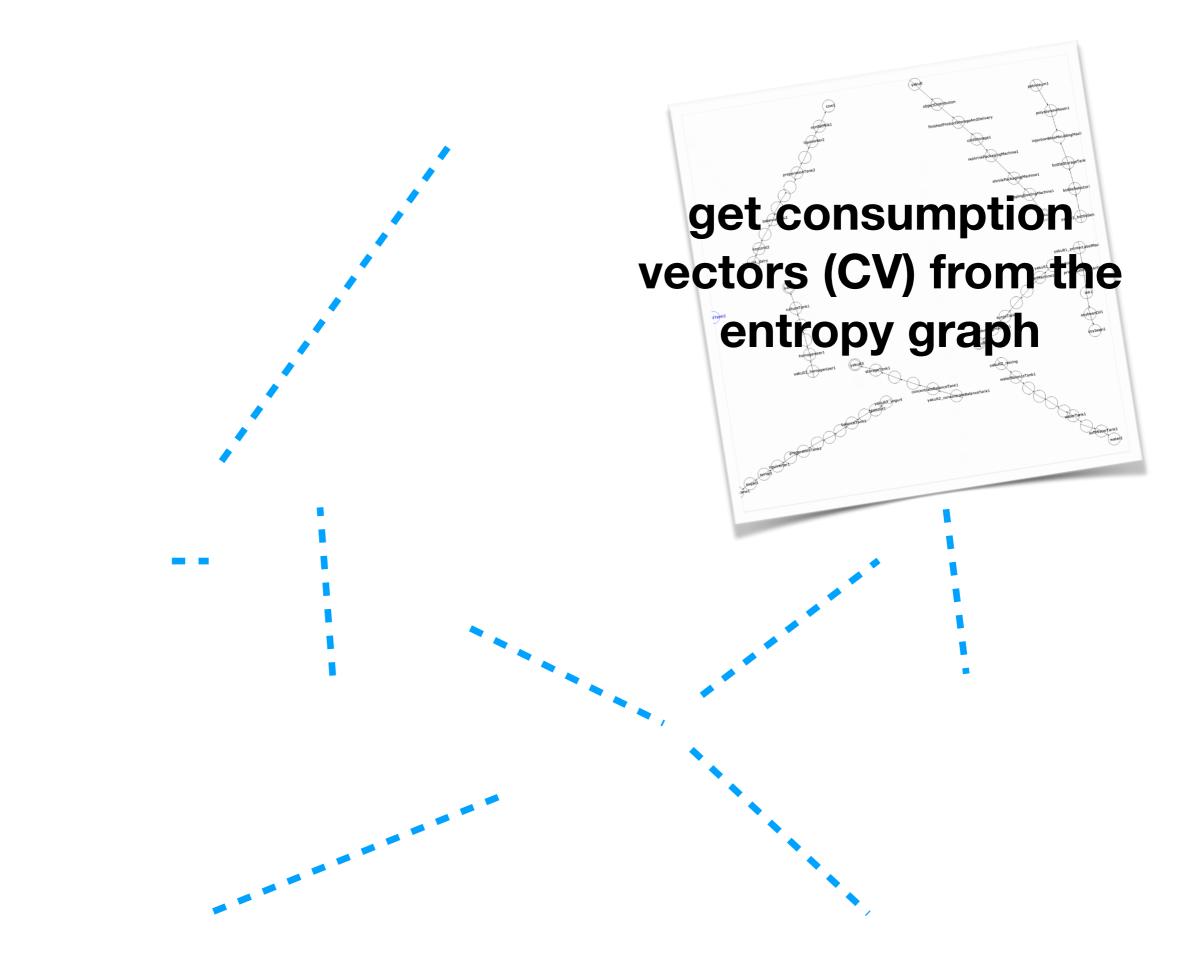








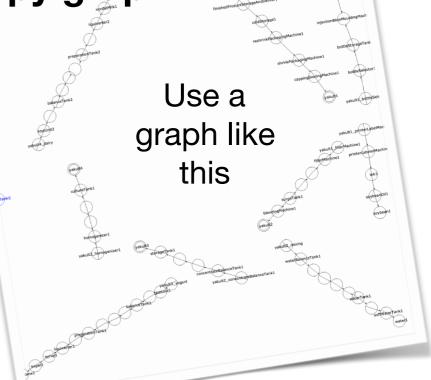




How To: Get consumption vectors (CV) from the entropy graph

Use this tool:

http://www.entropynetwork.com/doc2/? jsonURL=%2Fpub%2Fdata%2Feco2%2F20210910023129jesse-yakult-CVM-diverge6-segment2diagram.json&xres=2048&yres=2048&imageURL=

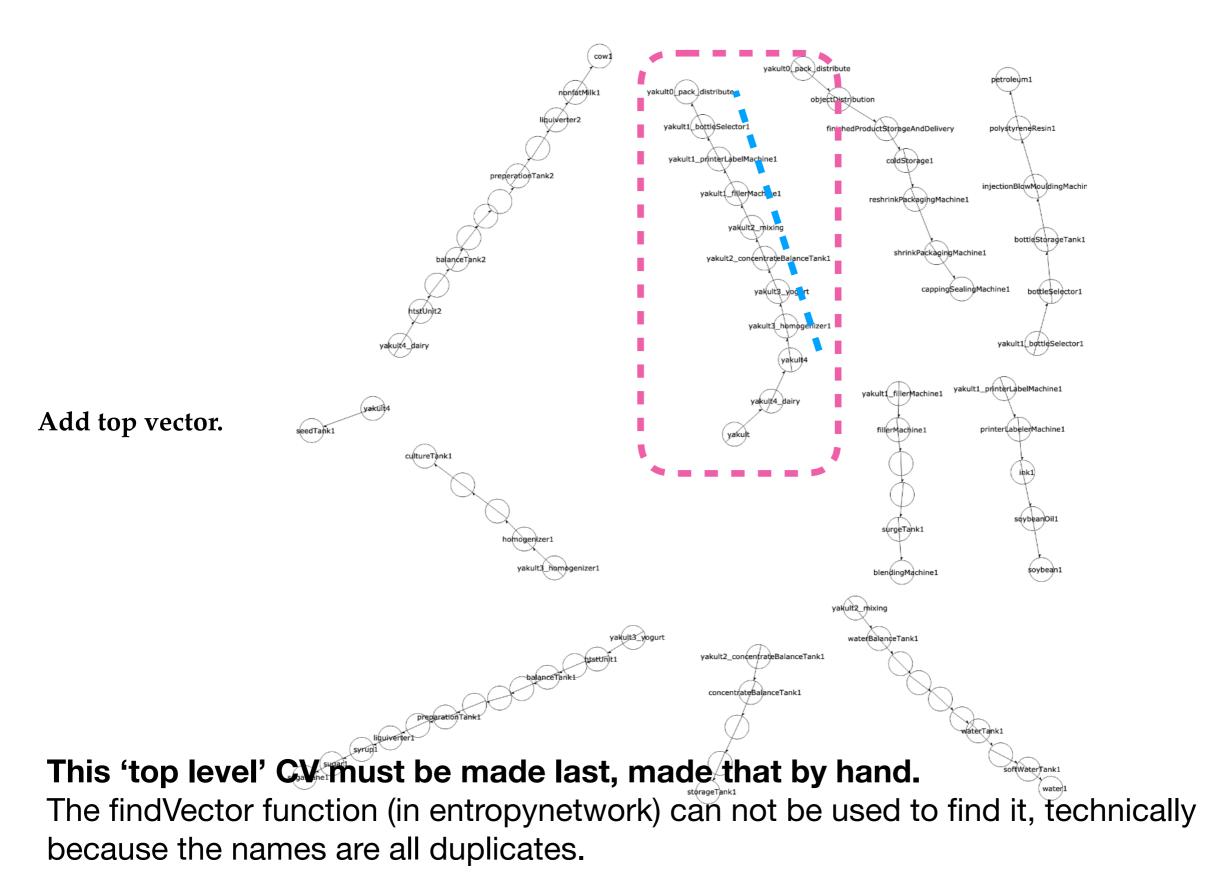


Click the observer node that observes the chain (CV).
Now click "findVector" button that appears near the "Set Text" box.

3] The text of the vector as a sentence will appear in the output box.

4] The top level CV must be made last, make that by hand.

The findVector function can not be used to find it because the names are all duplicates.



water1 softWaterTank1 waterTank1 waterBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

sugarcane1 sugar1 syrup1 liquiverter1 preparationTank1 balanceTank1 htstUnit1 storageTank1 concentrateBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

lactobacillus seedTank1 cultureTank1 homogenizer1 storageTank1 concentrateBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

cow1 nonfatMilk1 liquiverter2 preperationTank2 balanceTank2 htstUnit2 cultureTank1 homogenizer1 storageTank1 concentrateBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

naturalflavors homogenizer1 storageTank1 concentrateBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

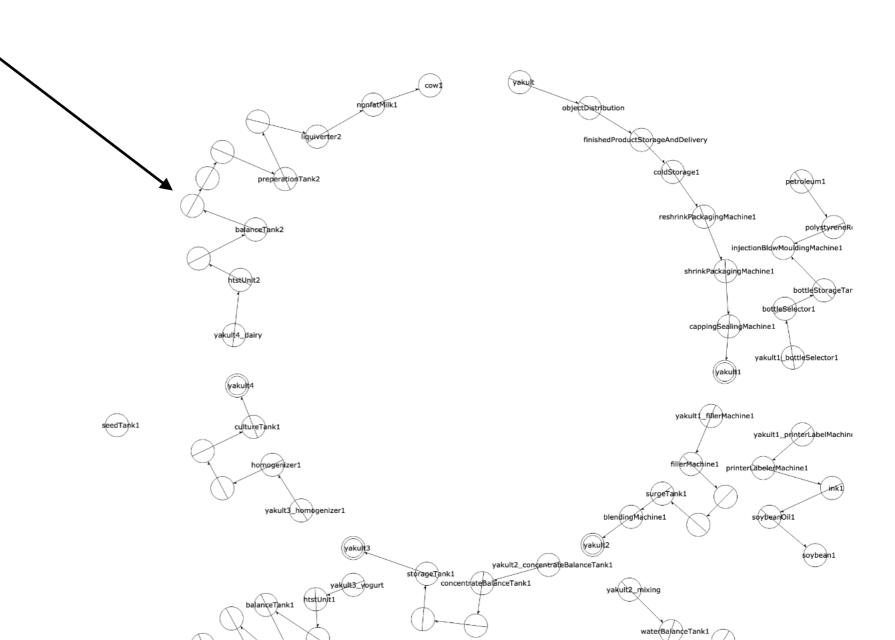
petroleum1 polystyreneResin1 injectionBlowMouldingMachine1 bottleStorageTank1 bottleSelector1 printerLabelerMachine1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

soybean1 soybeanOil1 ink1 printerLabelerMachine1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

From the consumption vectors, we can make this graph,

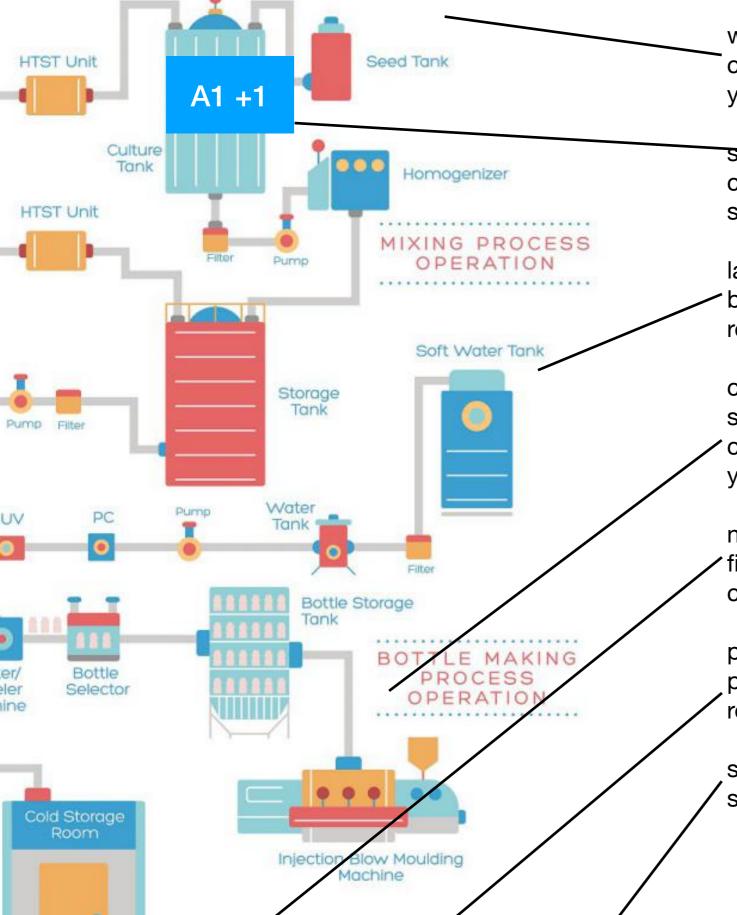
which shows the inputs of carbon on the production 'circle' of Yakult.

The circle is the the beginning to the end of the Yakult product.



Ing Process Flow

consumption vectors



water1 softWaterTank1 waterTank1 waterBalanceTank1 bler cappingSealingMachine1 shrinkPackagingMachine1 reshrin yakult1

sugarcane1 sugar1 syrup1 liquiverter1 preparationTank1 ba concentrateBalanceTank1 blendingMachine1 surgeTank1 fil shrinkPackagingMachine1 reshrinkPackagingMachine1 colo

lactobacillus seedTank1 cultureTank1 homogenizer1 storage blendingMachine1 surgeTank1 filterMachine1 cappingSealin reshrinkPackagingMachine1 coldStorage1 yakult1

cow1 nonfatMilk1 liquiverter2 preperationTank2 balanceTanl storageTank1 concentrateBalanceTank1 blendingMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrin yakult1

naturalflavors homogenizer1 storageTank1 concentrateBalar filterMachine1 cappingSealingMachine1 shrinkPackagingMa coldStorage1 yakult1

petroleum1 polystyreneResin1 injectionBlowMouldingMachi printerLabelerMachine1 filterMachine1 cappingSealingMach reshrinkPackagingMachine1 coldStorage1 yakult1

soybean1 soybeanOil1 ink1 printerLabelerMachine1 filterMa shrinkPackagingMachine1 reshrinkPackagingMachine1 colo

water1 softWaterTank1 waterTank1 waterBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

sugarcane1 sugar1 syrup1 liquiverter1 preparationTank1 balanceTank1 htstUnit1 storageTank1 concentrateBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

lactobacillus seedTank1 cultureTank1 homogenizer1 storageTank1 concentrateBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

cow1 nonfatMilk1 liquiverter2 preperationTank2 balanceTank2 htstUnit2 cultureTank1 homogenizer1 storageTank1 concentrateBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

naturalflavors homogenizer1 storageTank1 concentrateBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

petroleum1 polystyreneResin1 injectionBlowMouldingMachine1 bottleStorageTank1 bottleSelector1 printerLabelerMachine1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

soybean1 soybeanOil1 ink1 printerLabelerMachine1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

water1 softWaterTank1 waterTank1 waterBalanceTank1 blendingMachine1 surgeTank1 filterMachine1 cappingSealingMachine1 shrinkPackagingMachine1 reshrinkPackagingMachine1 coldStorage1 yakult1

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type	type				
type consumptio	type				

shrinkPackagingMachine1	["water1 0","softwatertank1 1",	water1 0	water1 softwatertank1
reshrinkPackagingMachine	"watertank1 2", "waterbalancetan	softwatertank1 1	watertank1 waterbalancetank1
1 coldStorage1 yakult1	k1 3", "blendingmachine1 4", "sur	watertank1 2	blendingmachine1 surgetank1
	getank1 5", "filtermachine1 6", "	waterbalancetank1 3	filtermachine1
petroleum1	cappingsealingmachine1 7", "shri	blendingmachine1 4	cappingsealingmachine1
polystyreneResin1	nkpackagingmachine1 8", "reshrin	surgetank1 5	shrinkpackagingmachine1
injectionBlowMouldingMac	kpackagingmachine1 9", "coldstor	filtermachine1 6	reshrinkpackagingmachine1
hine1 bottleStorageTank1	age1 10", "yakult1 11", "sugarcan	cappingsealingmachine1 7	coldstorage1 yakult1.
bottleSelector1	e1 12","sugar1 13","syrup1 14",	shrinkpackagingmachine1 8	sugarcanel sugar1 syrup1
printerLabelerMachine1	"liquiverter1 15", "preparationt	reshrinkpackagingmachine1	liquiverter1
filterMachine1	ank1 16", "balancetank1 17", "hts	9	preparationtank1
cappingSealingMachine1	<pre>tunit1 18","storagetank1 19","c</pre>	coldstorage1 10	balancetank1 htstunit1
shrinkPackagingMachine1	oncentratebalancetaaki 20","lac		storagetank1
reshrinkPackagingMachine	tobacillus 21", "seedtank1 22", "	sugarcanel 12	concentratebalancetank1
1 coldStorage1 yakult1	culturetank1 23", "homogenizer1	sugar1 13	blendingmachine1 surgetank1
	24", "cow1 25", "nonfatmilk1 26",	syrup1 14	filtermachine1
soybean1 soybean0il1	"liquiverter2 27", "preperationt	liquiverter1 15	cappingsealingmachine1
ink1	ank2 28", "balancetank2 29", "hts	preparationtank1 16	shrinkpackagingmachine1
printerLabelerMachine1	<pre>tunit2 30", "naturalflavors 31",</pre>	balancetank1 17	reshrinkpackagingmachine1
filterMachine1	"petroleum1 32", "polystyreneres	htstunit1 18	coldstorage1 yakult1.
cappingSealingMachine1	in1 33", "injectionblowmouldingm	storagetank1 19	lactobacillus seedtank1
shrinkPackagingMachine1	achine1 34", "bottlestoragetank1	concentratebalancetank1 20	culturetank1 homogenizer1
reshrinkPackagingMachine	35", "bottleselector136", "prin	lactobacillus 21	storagetank1
1 coldStorage1 yakult1 🥼	terlabelermachine1 37", "soybear	seedtank1 22	concentratebalancetank1

CO2 values

	water1	1
	softwatertank1	2
	watertank1	23
	waterbalancetank1	34
Symbol is a	blendingmachine1	34
label for an	surgetank1	?
object.	filtermachine1	?
	cappingsealingmachine1	?
	shrinkpackagingmachine1	?
	reshrinkpackagingmachine1	?
	coldstorage1	?
	yakult1	?
	sugarcane1	?
	sugar1	?
	syrup1	?
	liquiverter1	?
	preparationtank1	?
	balancetank1	?
	htstunit1	?
	storagetank1	?

Naming: Machine + Protocol

20210909 Naming: Machine + Protocol

In production we may describe the actions of a machine, as in: Machine + Protocol. In our model, instead of being domain restricted, we can use general terms, 'Object', and 'Behavior' of the object.

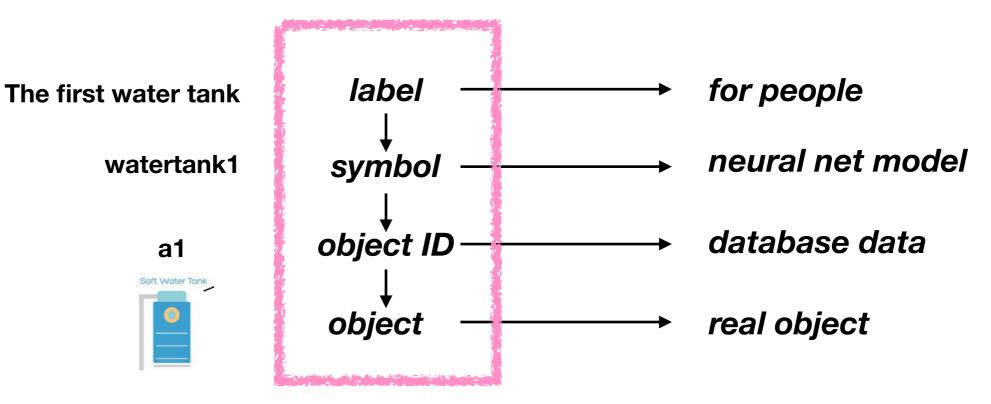
Object_Behavior like this shrinkPackagingMachine1_StirFor37000ms

For non-machines, for example trees, Object_Behavior may be something like 'tree_grow', or for a human 'Person_DriveCar'.

The Symbols which we use, that represent positions in the chain, can only have one CO2 value. If an object may have multiple CO2 values, it is necessary to create multiple symbols. For example,

Person_DriveCar1 Person_DriveCar2

Symbol is a label for an object,	a1
and the label for several	b2
models of that object	b1
	b4
There are infinite objects,	a33
models, and symbols.	b78



same use, different systems

. . .

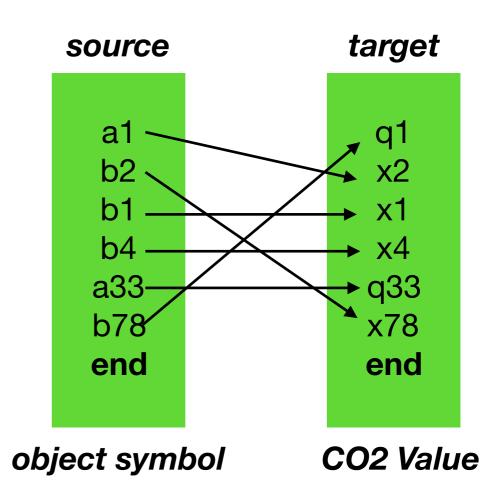
provides a finite deterministic mapping of objects between model domains

There are infinite objects, models, and symbols.

However,

The model which encodes production-consumption chains requires *a limited universe of symbols*, at accomplish mapping a **source** to a **target**

All symbols must be unique of course.



CO2 values

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	softwatertank1	2
	watertank1	23
	waterbalancetank1	34
Symbol is a	blendingmachine1	34
label for an	surgetank1	?
object.	filtermachine1	?
	cappingsealingmachine1	?
	shrinkpackagingmachine1	?
	reshrinkpackagingmachine1	?
	coldstorage1	?
	yakult1	?
	sugarcane1	?
	sugar1	?
	syrup1	?
	liquiverter1	?
	preparationtank1	?
	balancetank1	?
	htstunit1	?
	storagetank1	?

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