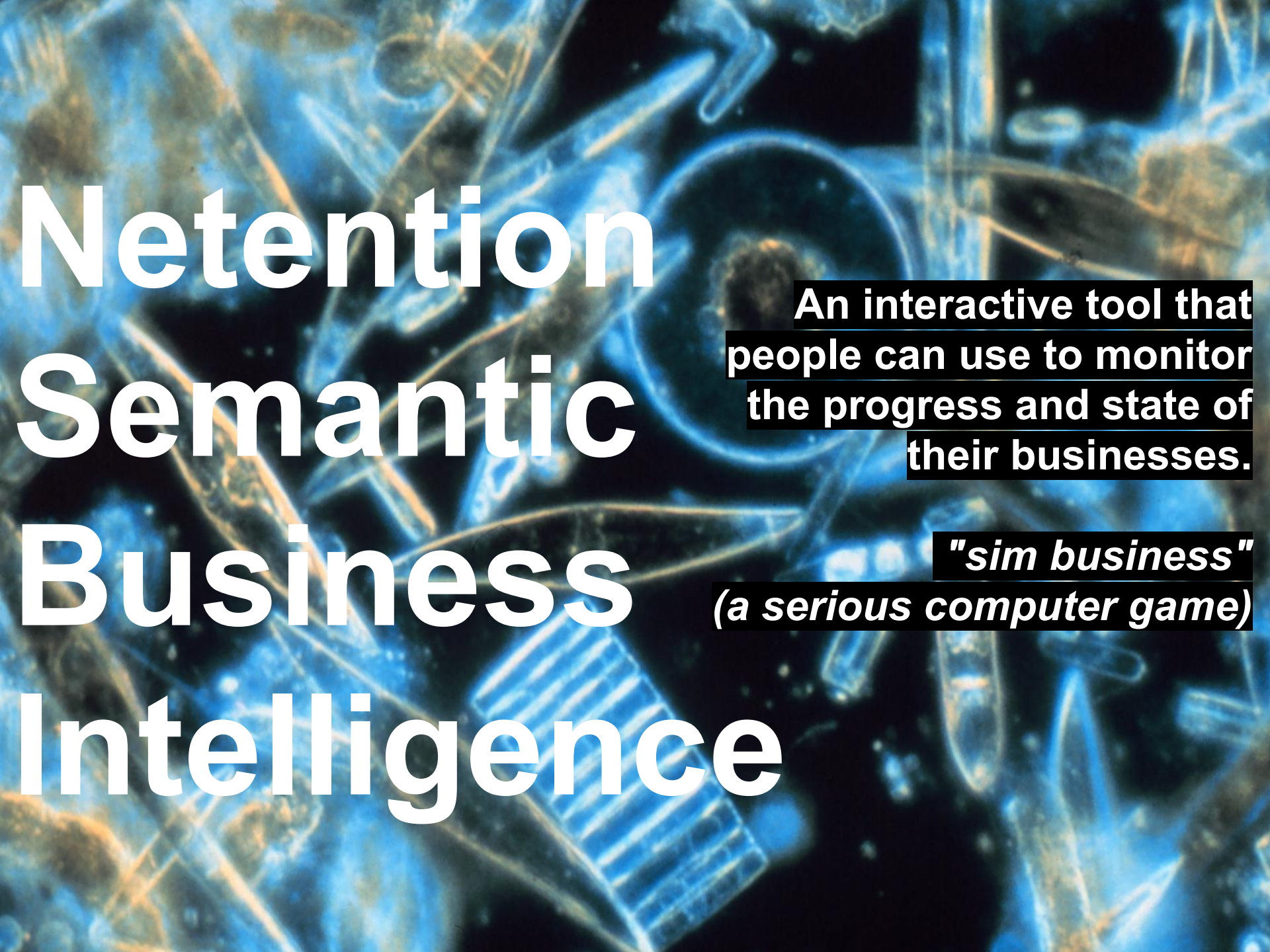

Netention
Semantic
Business
Intelligence
An interactive tool that people can use to monitor the progress and state of their businesses.
"sim business"
(a serious computer game)

Inputs ("Expense"):

Resources, Money, People, Time, Attention

Outputs ("Income"):

Profits / Achievements
Accomplishments / Products / Rewards

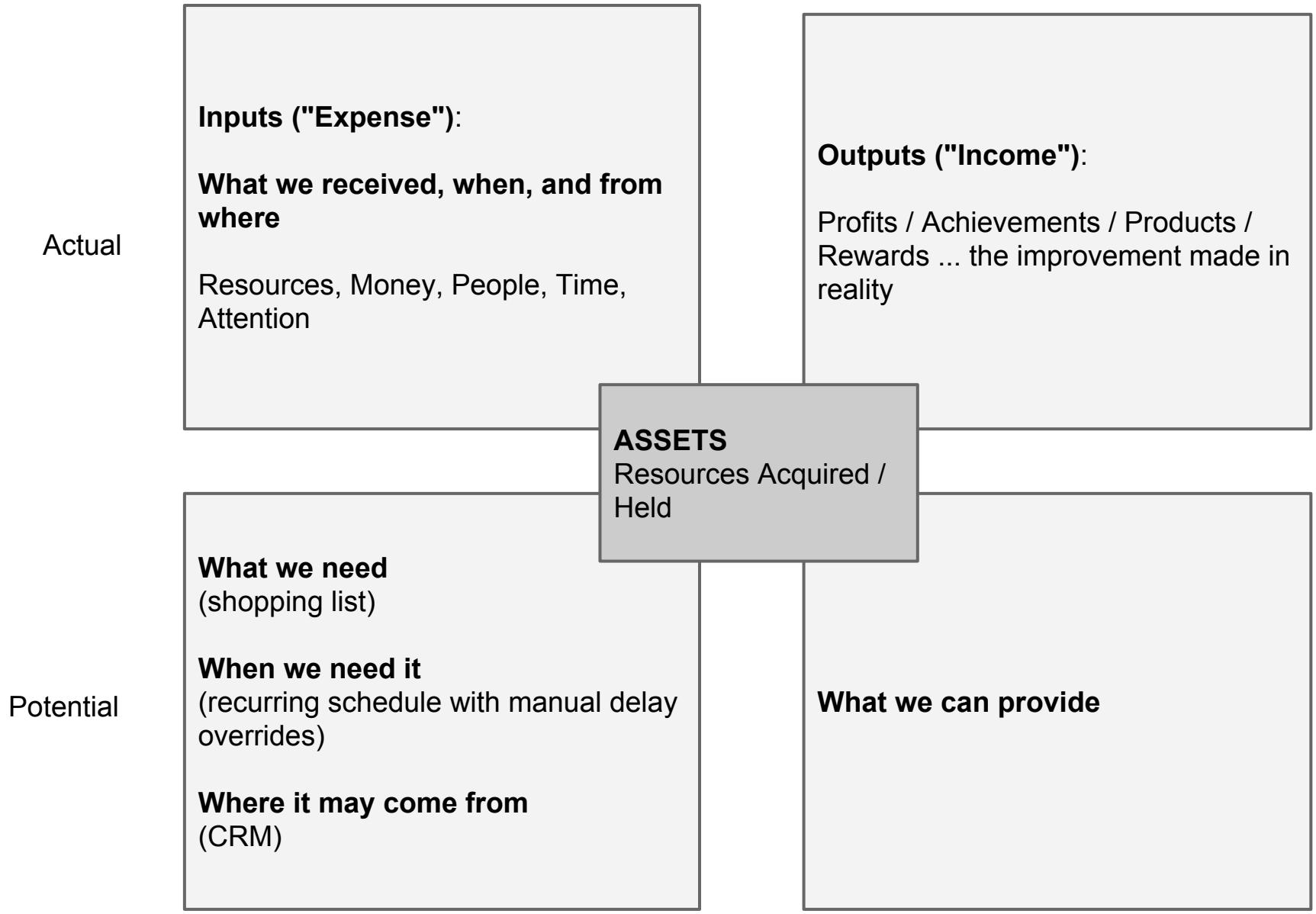
... the improvement made in reality

Created products and services are actually "income" - when sold, they "become" the money received, which is also "income".

Income: ____
Expenses: ____
Profit? Loss?

Business Plan

- Ideally, what do we expect "success" to look like in "x" number of years?
- Describe why your company is relevant. What is the need being addressed?
- Explain the overall state of the market and any important trends.
- Explain why customers will buy your product or service.
- Describe, in detail, who your customers are.
- Explain who your current competitors are and their advantages.
- Explain which competitors you will displace.
- Describe your product offerings, how they compete with other brands and why they are needed.
- Provide an overview of the various resources, including the people that will be needed to deliver what’s expected by the customer.
- Describe corporate priorities and the processes to achieve them.
- Included three thorough financial plans; one that’s conservative, one moderate and one optimistic, each with realistic and achievable sales revenues, margins, expenses and profits on a monthly, quarterly and annual basis.


Actual
Potential
Inputs ("Expense"):
What we received, when, and from where
Resources, Money, People, Time, Attention
Outputs ("Income"):
Profits / Achievements / Products / Rewards ... the improvement made in reality
ASSETS
Resources Acquired / Held
What we need
(shopping list)
When we need it
(recurring schedule with manual delay overrides)
Where it may come from
(CRM)
What we can provide

ok good start. can you try to merge CRM (customer relations management) into this. it's basically a system for tracking customers. these would supply potential inputs / resources. so taking the list of elements you found, try to simplify them as much as possible because each one will roughly correspond to its own section of the user-interface, which we want to minimize the number of them.

i've used business plan software before and it was extraordinarily complex to me. i want this to be simple for both operating existing AND simulating potential business. that's why i divided it into actual and potential, so that they can be morphed into each other as necessary.

for example i might design some "potential" products (including their ingredients or input resources) and then later move them to "actual", ie. i begin trying to acquire them for my production. the same for any kind of material fabrication process, and the same for any kind of abstract service (gathering people, arranging an education curriculum, etc..).

a complete business plan. note that it may not necessarily *resemble* a conventional business plan. i am just trying to make sure that all of the main components of it are present.

this is an opportunity to redefine what business actually *is*, and the way people think about it.

imagine an interactive overview screen that people can use to monitor the progress and state of their businesses. if you were to take a screenshot of it and print it, it would function the same as a business plan that one would show to an investor to convince them that a business is profitable.

netention as a tool could allow us to adaptively focus on whichever goals are most important at any given time. this way we can collectively manage MANY "businesses" in a coherent framework.

for netention we will want to adapt the best features of "open source business models": http://en.wikipedia.org/wiki/Business_models_for_open-source_software

which if i remember correctly are primarily *service* (not *product*) oriented. this allows the software to be distributed and developed freely while services such as installation, training, and development work can be purchased

Item Editor


name
desc
Count
Weight
Location
(40.3, -40.2) <Default>
Other Tag
Other Prop
image
(drag here to upload)
SAVE

Netention

PROBLEM
List your top 1-3 problems

2

EXISTING ALTERNATIVES
List how these problems are solved today

SOLUTION
Outline a possible solution for each problem

4

KEY METRICS
List the key numbers that tell you how your business is doing

8

UNIQUE VALUE PROPOSITION
Single, clear, compelling message that turns an unaware visitor into an interested prospect

3

HIGH-LEVEL CONCEPT
List your X for Y analogy (e.g. YouTube = Flickr for videos)

UNFAIR ADVANTAGE
Something that can't be easily copied or bought

9

CHANNELS
List your path to customers

5

CUSTOMER SEGMENTS
List your target customers and users

1

EARLY ADOPTERS
List the characteristics of your ideal customers

COST STRUCTURE
List your fixed and variable costs

7

REVENUE STREAMS
List your sources of revenue

6

Screenshots from:
SENSORICA Value Network

http://valnet.webfactional.com

A Value Network...

is people creating value together, by contributing work, money and goods, and sharing the income.

Learn more

Work to do

- **manufacturing - electronics:** due March 12, 2013 do this work
  for process: Assemble Mosquito electronics layer
- **shopping:** due March 15, 2013
  do this work
  for process: Make something
- **R&D optics:** due March 15, 2013
  do this work
  for process: Make Joint-type transducer
- **infrastructure:** due April 2, 2013
  do this work
  for process: Make something
- **infrastructure:** due April 2, 2013
  do this work
  for process: Make something
- **infrastructure:** due April 2, 2013
  do this work
  for process: Create knowledge management system
- **PCB layout:** due April 26, 2013
  do this work
  for process: Make low cost tape sensor

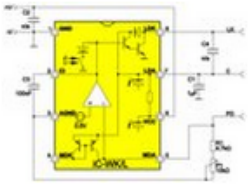
Resources we need

- **Tape sensor electronics:** 1.00
  get this for us
- **joint shrinking device :** 1 get this for us
- **silver coating device:** 1 get this for us

Value being created

- **Recruiting Campaign:** created March 4, 2013
  use this
- **project proposal:** created March 7, 2013
  use this
- **scientific journal article:** created March 7, 2013 use this
- **Electronics - Battery Charging Circuit:** created March 12, 2013 use this
- **Photonics - Joint-type transducer:** created March 15, 2013

  use this
- **Laser Driver (German one chip solution):** created March 28, 2013



  use this
- **Mosquito Sensor:** created April 30, 2013

Demand

Open Orders:

- Customer order 64 , Seller: Unknown , Buyer: Unknown due: 2013-04-18 created by None
- Customer order 65 , Seller: Unknown , Buyer: Unknown due: 2013-04-28 created by None
- Customer order 67 , Seller: Unknown , Buyer: Unknown due: 2013-05-10 created by None
- Customer order 74 , Seller: Unknown , Buyer: Unknown due: 2013-06-02 created by None
- Customer order 76 , Seller: Unknown , Buyer: Unknown due: 2013-06-04 created by None
- Customer order 85 , Seller: Unknown , Buyer: Unknown due: 2013-07-03 created by None

Open R&D Projects:

- R&D order 56 , Make 850nm LED Mosquito prototype , provider: Unknown , receiver: Unknown due: 2013-04-30 created by None
- R&D order 60 , provider: Unknown , receiver: Unknown due: 2013-05-01 created by francois
- R&D order 63 , 1 axis piezo driver , provider: Unknown , receiver: Unknown due: 2013-05-10 created by None
- R&D order 59 , Make low cost tape sensor , provider: Unknown , receiver: Unknown due: 2013-06-30 created by None

Inventory

3D modeling (Category: Type of Work, Domain: Mechanical, Stage: Design, Work: Manufacturing)

DAQ Card Schematic

1.00 Time - Hours

Quality: 0

Documentation

3D printer (Category: Equipment, Domain: Mechanical, Source: purchased OR partner)

3D printer - EchoFab

1.00 Each

Quality: 8

Documentation

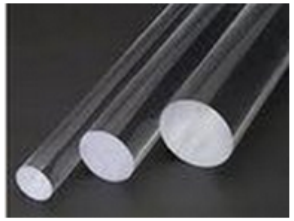
3D printer - Phil's

1.00 Each

Quality: 5

Acrylic Rod (Category: Component/Product, Domain: Mechanical, Source: purchased)

Acrylic Rod 3/16" diameter, 20mm



2.00 Length - Meter

Quality: 0

Documentation

Bath design (Category: Component/Product, Domain: Mechanical, Source: SENSORICA, Stage: Design)

Bath 3 layer bath with electrical stim

Filter the List

- [x] All

Category

- [ ] Component/Product
- [ ] Design
- [ ] Equipment
- [ ] Marketing
- [ ] Process
- [ ] Product
- [ ] Publication
- [ ] Set of Tools
- [ ] Space
- [ ] Type of Work

Domain

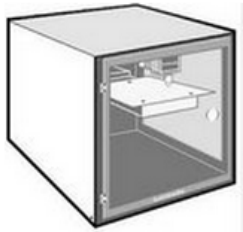
- [ ] Biological
- [ ] Chemical
- [ ] ElectroMechanical
- [ ] ElectroOptical
- [ ] Electronic
- [ ] Mechanical
- [ ] Optical
- [ ] OptoElectroMechanical
- [ ] OptoMechanical

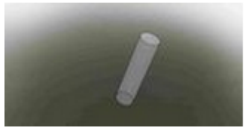
Source

- [ ] SENSORICA
- [ ] network affiliate
- [ ] network partner

Resource Types

- **3D modeling**
  Category: Type of Work, Domain: Mechanical, Stage: Design, Work: Manufacturing
  This is part of prototyping or fabrication projects. Relates to mechanical aspects of physical objects. Requires computer skills, to use specialized software.

- **3D printer**
  
  Category: Equipment, Domain: Mechanical, Source: purchased OR partner
  Equipment used in mechanical prototyping and manufacturing of mechanical parts.

- **Acrylic Rod**
  
  Category: Component/Product, Domain: Mechanical, Source: purchased
  Used in photonics parts manufacturing or others.

- **Aluminum etching**
  Category: Process, Domain: Chemical
  microfabrication - etching aluminum using sodium hydroxide.

- **Bath design**
  
  Category: Component/Product, Domain: Mechanical, Source: SENSORICA, Stage: Design
  Physiological bath is a prototype and product that can be sold alone or as part of the Mosquito Scientific Instrument System

- **Bath elec. stimulation module** View Recipe
  Category: Component/Product, Domain: Electronic, Source: purchased OR partner, Stage: Prototype
  Electrical stimulation module from the physiological bath
  [LF changed this, unclear if it is a prototype or a component. Prorotype was in the name, category was

Help

Filter the List

- [x] All

Category

- [ ] Component/Product
- [ ] Design
- [ ] Equipment
- [ ] Marketing
- [ ] Process
- [ ] Product
- [ ] Publication
- [ ] Set of Tools
- [ ] Space
- [ ] Type of Work

Domain

- [ ] Biological
- [ ] Chemical
- [ ] ElectroMechanical
- [ ] ElectroOptical
- [ ] Electronic
- [ ] Mechanical
- [ ] Optical
- [ ] OptoElectroMechanical
- [ ] OptoMechanical

Source

- [ ] SENSORICA
- [ ] network affiliate
- [ ] network partner
- [ ] purchased
- [ ] purchased OR SENSORICA
- [ ] purchased OR partner

Stage

- [ ] Design
- [ ] Idea

- **Building SENSORICA** Contributions: 171 Work in process: 1
  - **Infrastructure** Contributions: 18
  - **Infrastructure-physical** Contributions: 11
  - **Infrastructure-virtual** Contributions: 50 Work in process: 3
    - **Knowledge Management** Contributions: 7 Work in process: 9
  - **Legal system** Contributions: 1
    - **Intelectual Property Strategy** Contributions: 2
  - **Marketing and sales** Contributions: 6
  - **Normative system** Contributions: 1
- **DAQ card** Contributions: 3 Work in process: 1
  Create an open source DAQ card
- **Flow sensor** Contributions: 1
- **Laser and LED driver** Contributions: 0
  Create an open source laser and LED driver.
- **Mosquito educational system** Contributions: 0
- **Mosquito field system** Contributions: 0
- **Mosquito scientific instrument system** Contributions: 32 Work in process: 6
  - **Mosquito** Contributions: 108 Work in process: 17
    - **2D strain transducer** Contributions: 24
    - **Constriction transducer** Contributions: 12 Work in process: 2
    - **Evanescent wave transducer** Contributions: 0
    - **Fluid level sensor** Contributions: 1 Work in process: 1
    - **Intrinsic transducer** Contributions: 5
    - **Joint-type transducer** Contributions: 25 Work in process: 10
    - **Microfiber transducer** Contributions: 9 Work in process: 1
    - **Radial transducer** Contributions: 0
    - **XYZ piezo positioner** Contributions: 65 Work in process: 6
  - **Physiological bath** Contributions: 0 Work in process: 4
- **Not defined** Contributions: 78
- **Sensing and sensemaking for food system** Contributions: 14
  - **Plant counter** Contributions: 0
  - **Smartphone sensing** Contributions: 0
- **Skunkworks** Contributions: 1 Work in process: 1

All Contributions

Help

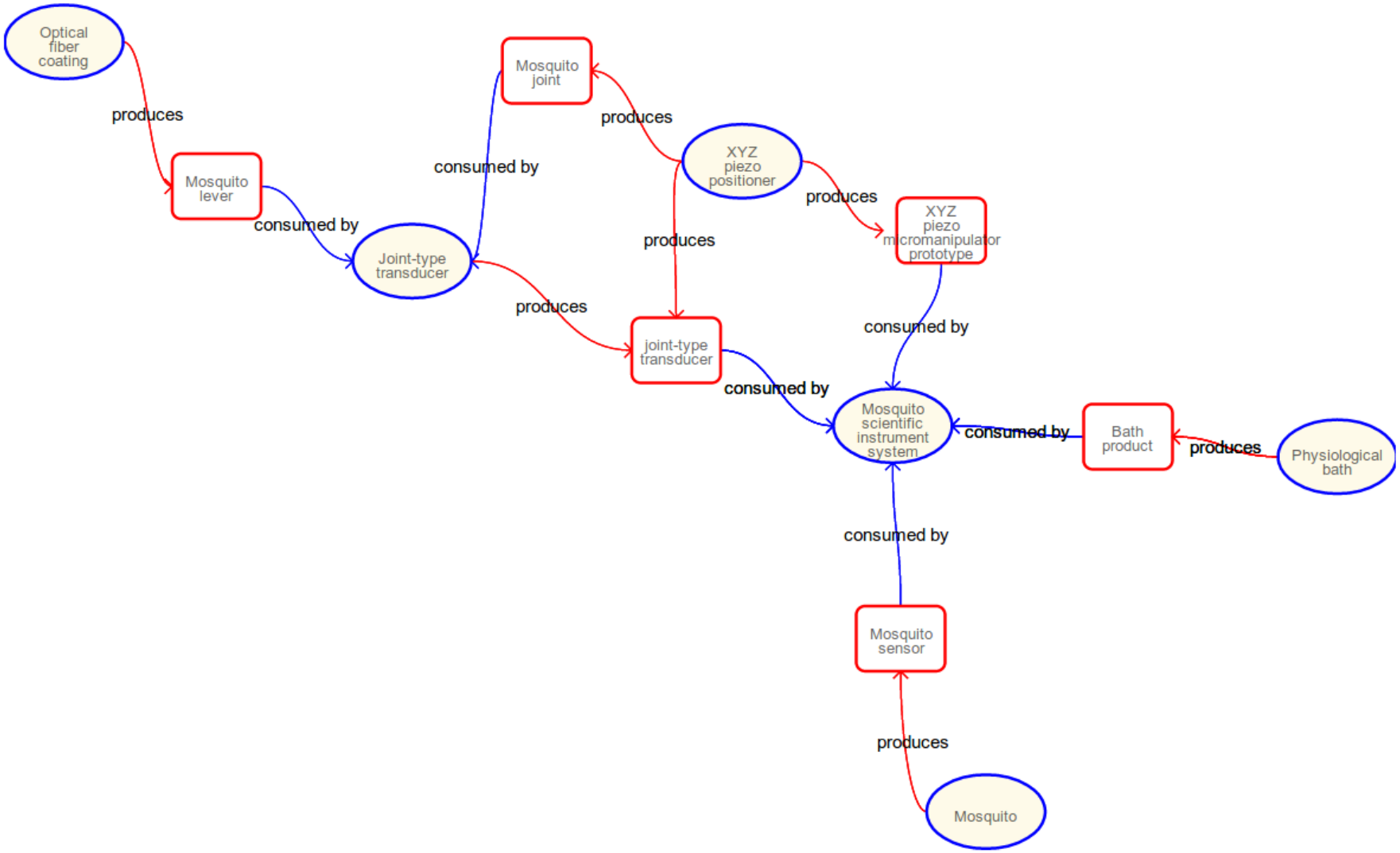
Date	Type	From	Resource Type	Qty	URL	Description
July 25, 2013	work	Rodrigo	R&D optics	2.00 HR		Manufacturing notes: https://docs.google.com/document/d/1zdmiAOmFeQItxXapPoQMGcESIo45ba9OjiSVuGQv_HU/edit https://docs.google.com/spreadsheet/ccc?key=0An3nky8B3vGvdDBURUF2cm5CMzNTVVJuUm0tUUNzSWc#gid=0 https://docs.google.com/drawings/d/1rmfqwBVCDX67FDc1AA79UqCfruJWfc0nDq1F0DaCJf8/edit Manufacturing pictures: https://docs.google.com/drawings/d/1rmfqwBVCDX67FDc1AA79UqCfruJWfc0nDq1F0DaCJf8/edit https://docs.google.com/file/d/0B33nky8B3vGvRmRtZHU1RzA5TW8/edit Interesting sources: http://www.roctest-group.com/sites/default/files/bibliography/pdf/c103.pdf http://www.micronoptics.com/uploads/library/documents/Micron%20Optics%20Optical%20Sensing%20Guide.pdf http://www.roctest-group.com/sites/default/files/bibliography/pdf/c147.pdf
July 23, 2013	work	Tibi	meeting	1.00 HR		Meeting with Andy and Antonio to decide on what Andy can work. We closed in for the DAQ project, writing a LabView driver in C++ for integration with all the other instruments.
July 23, 2013	work	Frederic	PCB layout	10.00 HR		None
July 23, 2013	work	Rodrigo	R&D optics	3.00 HR		Manufacturing notes: https://docs.google.com/document/d/1zdmiAOmFeQItxXapPoQMGcESIo45ba9OjiSVuGQv_HU/edit https://docs.google.com/spreadsheet/ccc?key=0An3nky8B3vGvdDBURUF2cm5CMzNTVVJuUm0tUUNzSWc#gid=0 https://docs.google.com/drawings/d/1rmfqwBVCDX67FDc1AA79UqCfruJWfc0nDq1F0DaCJf8/edit Manufacturing pictures: https://docs.google.com/drawings/d/1rmfqwBVCDX67FDc1AA79UqCfruJWfc0nDq1F0DaCJf8/edit https://docs.google.com/file/d/0B33nky8B3vGvRmRtZHU1RzA5TW8/edit Interesting sources: http://www.roctest-group.com/sites/default/files/bibliography/pdf/c103.pdf http://www.micronoptics.com/uploads/library/documents/Micron%20Optics%20Optical%20Sensing%20Guide.pdf http://www.roctest-group.com/sites/default/files/bibliography/pdf/c147.pdf
July 23,	work	Tibi	office	1.50 HR		Introduced Wen to the collaboration space around sensing for local food systems. Also, sent him an email detailing the path forward. I also gave him some links to learn more about SENSORICA.

Project-level Value Network

Help

redraw or just drag stuff around...

Blue oval = Project
Red rectangle = Resource



Work Today Timeline Labnotes History

Start date 2013-07-25 End date 2013-08-01 Reload

Work in process

None

Todo list Todo History

Due	Who	
2013-05-14	Doer: Francois Poster: Francois	take more information about how to transfer money from about Xu Fey's idea Data Science Collaboration Project buy laser driver from O/E land if nothing from OZ.
2013-05-14	Doer: Vince Poster: Francois	generate and share a short document (mini business pla targeted markets (Kickstarter, other), needs, steps (mak sell a kit.
2013-05-14	Doer: Daniel Poster: Francois	cheap 3D printer. Request samples, or even better ask
2013-06-08	Doer: Tibi Poster: Tibi	document aluminum etching technique
2013-07-08	Doer: Tibi Poster: Tibi	NEED PICTURES AND OPERATION MANUAL for the Put in doc https://docs.google.com/document/d/1IUcR376j7tqXnkw

Today

Work in process today

None

Todos due today

None

Today's events

work Rodrigo 2.00 Time - Hours R&D optics

Process: Make low cost tape sensor ending 2013-07-02 starting 2013-04-26

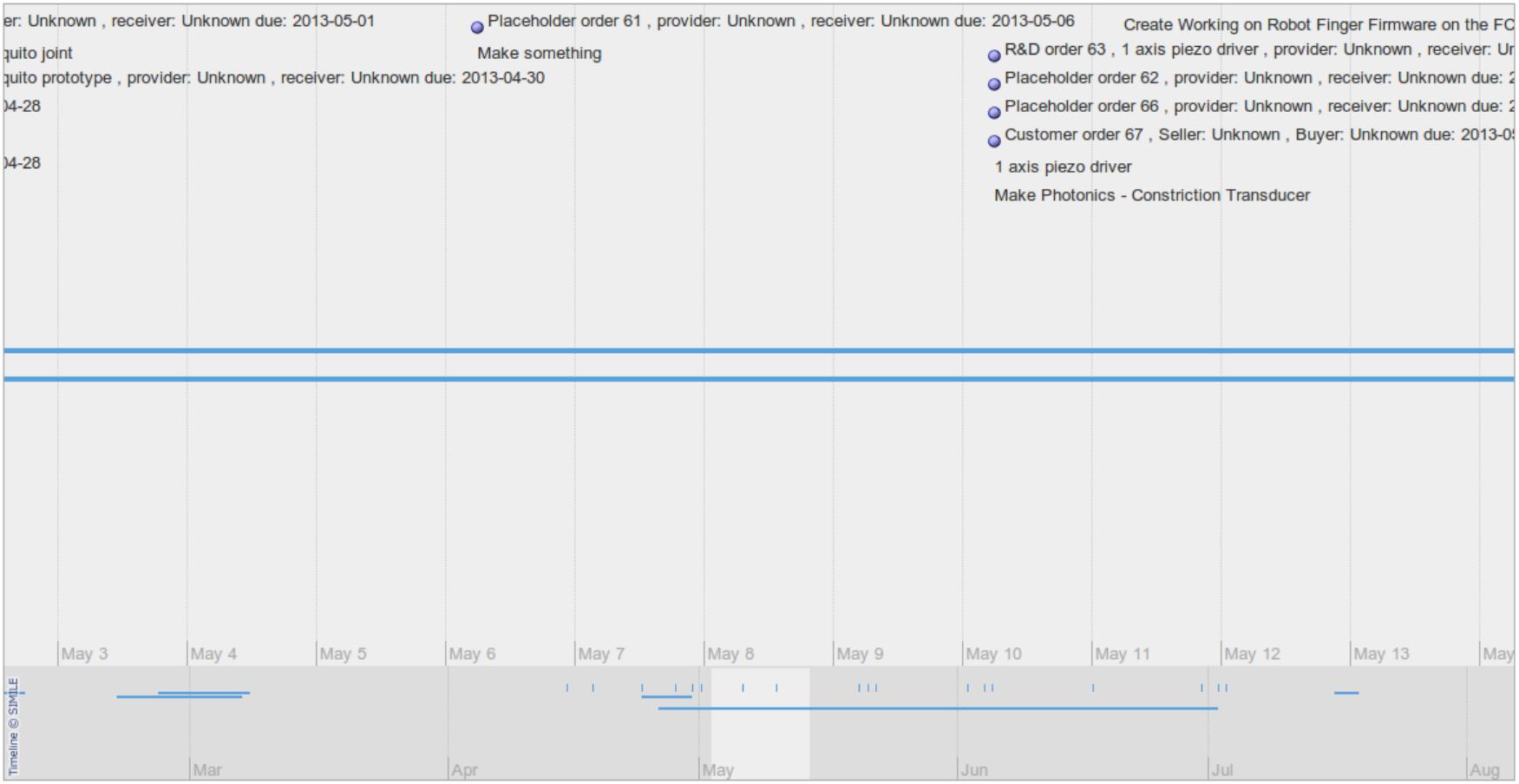
Manufacturing notes:
https://docs.google.com/document/d/1zdmiAOmFeQItxXapPoQMGcESIo45ba9OjiSVuGQv_HU/edit
https://docs.google.com/spreadsheet/ccc?key=0An3nky8B3vGvdDBURUF2cm5CMzNTVVJuUm0tUUNzSWc#gid=0
https://docs.google.com/drawings/d/1rmfqwBVCDX67FDc1AA79UqCfruJWfc0nDq1F0DaCJf8/edit

Manufacturing pictures:
https://docs.google.com/drawings/d/1rmfqwBVCDX67FDc1AA79UqCfruJWfc0nDq1F0DaCJf8/edit
https://docs.google.com/file/d/0B33nky8B3vGvRmRtZHU1RzA5TW8/edit

Interesting sources:
http://www.roctest-group.com/sites/default/files/bibliography/pdf/c103.pdf
http://www.micronoptics.com/uploads/library/documents/Micron%20Optics%20Optical%20Sensing%20Guide.pdf
http://www.roctest-group.com/sites/default/files/bibliography/pdf/c147.pdf

Timeline

Double-click on months to slide days. Click on event in day to show details.



Unassigned Tasks

Due Date	Process	Project	Description	Url	Role	Type	
March 12, 2013	Assemble Mosquito electronics layer ending 2013-04-23 starting 2013-03-12	None				manufacturing - electronics	Take it!
March 15, 2013	Make something ending 2013-03-15 starting 2013-03-15	None				shopping	Take it!
March 15, 2013	Make Joint-type transducer ending 2013-03-15 starting 2013-03-15	None	Francois, test this			R&D optics	Take it!
April 2, 2013	Create knowledge management system ending 2013-06-30 starting 2013-03-01	Knowledge Management				infrastructure	Take it!

Labnotes History

Characterization of the Piezo Micromanipulator ending 2013-07-19 starting 2013-07-16

Tibi labnotes:

June 17, 2013
See documentation in this doc
https://docs.google.com/document/d/180NuS2Rn6rIUfML0skvjQJAYBXNdBNxFsIZbZXa3HwU/edit#

The setup was made before, there is another labnote for it.
http://valnet.webfactional.com/accounting/labnotes/324/

June 17, 2013
Continued the work. See the Google doc for more details. Jonathan and Antonio were also involved.
We discovered that the analog out of the Labjack is limited to steps of 0.02Volts. We need 0.002Volts resolution, in order to test below 0.5um piezo steps. Jonathan will make a circuit for this.

July 18, 2013
Continued work on characterization. I am doing long acquisitions for precision tests. These results will be entered in the document in the Precision section.

Build testing setup and create test report for the Piezo micromanipulator ending 2013-07-03 starting 2013-07-03

Tibi labnotes:

Other work was logged previously as non-production work.

The goal is to build a setup and a protocol to test and characterize the xyz piezo.
The deliverable is a report and piezo specs sheet.

Piezo driver tested
https://docs.google.com/file/d/0BzzRJF5Y0kumN21YWWRFMnpobG8/edit
CREATE DESIGN AND PROTOTYPE AND ENTER AS INPUT

Piezo tested is a piezo stack - PROVENANCE

The previous days I mounted an optical fiber stretch sensor on the Piezo.
I also prepared the LabView program for the tests.

JULY 03, 2013
Today I worked with Jonathan on mounting the new LED 850nm Mosquito to monitor the piezo motion.
We tried to use the Chinese MM circulator in the Mosquito, instead of the Y coupler/splitter, but no light seems to pass through it. the LED and the PD/TIA were coupled directly to make sure that they functioned properly.
I tried to make a Y coupler/splitter using our microsplicer - fusing 3 fibers together, but I was unsuccessful in the first trial. The second one was not completed today, testing will be done tomorrow.

Jul 10 2013
I had to redo the optical fiber attachment to the piezo. The problem was that the piezo was not connected to the fiber holders and was sliding under protective tape. I had to directly connect the piezo the both ends of the piezo ceramic. This her arrangement was tested succesfully. I also adjusted the gain of the mosquito to increase the swing of the signal. We are using an LED mosquito at 850 nm, with the circuit of a mosquito prototype made by Jonathan for the 1550 nm mosquito. I am also using Frederic D laser driver which I connected to a power supply.

Make Prototype - Mosquito 850nm ending 2013-07-02 starting 2013-07-02

Jonathan labnotes:

Take the filter/amplifier prototype (breadboard) and the optics components assembled by Tibi and create the clone of the 850nm mosquito for use in the lab.

Screenshots from:

Local Economic Development

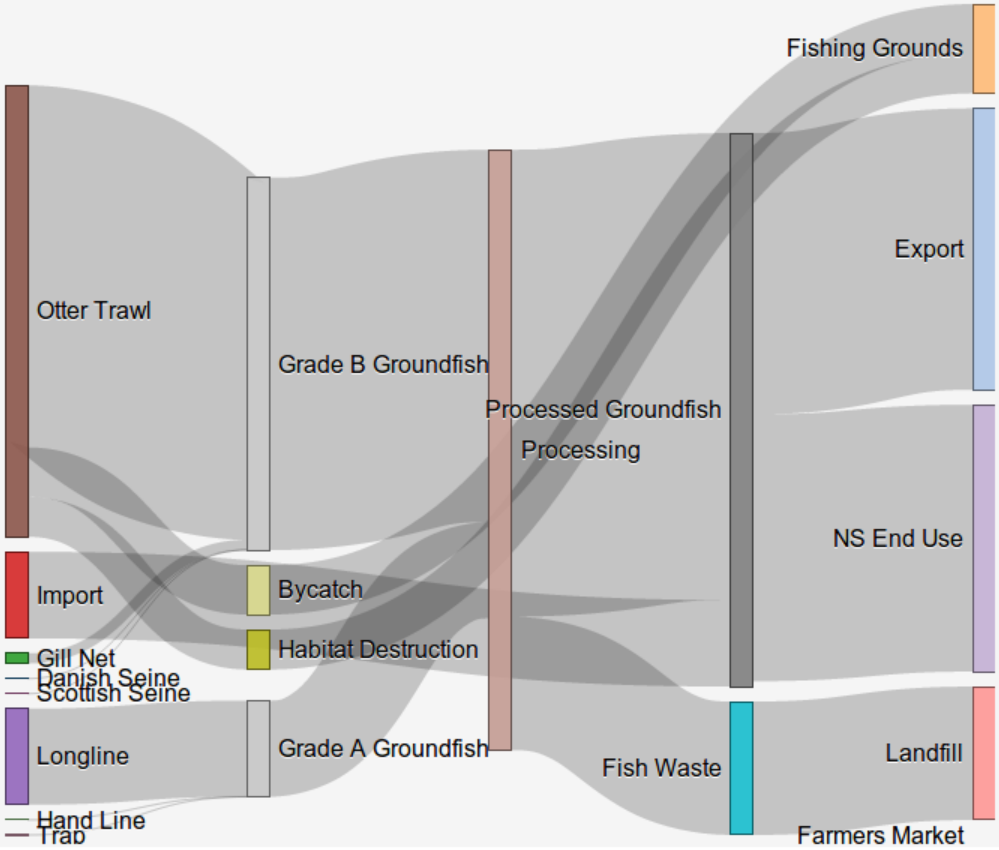
http://www.LOCECON.org

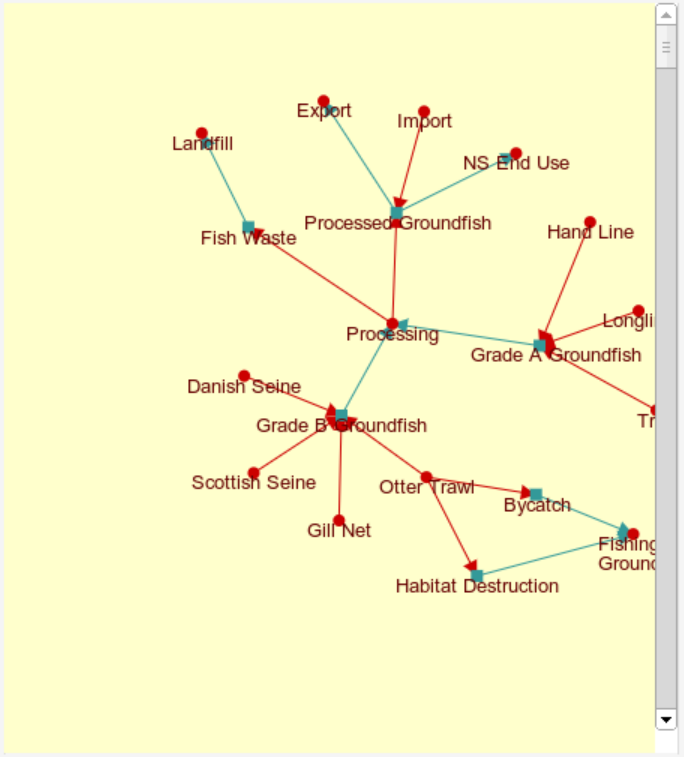
local economic development

Communities, Clusters, Networks and Resources
Resource Maps, Network Flows
As-is vs To-be, Gaps, Opportunities

This site is now in collaborative development with invited communities. If you would like to participate, please send us an email.

Featured Cluster: Nova Scotia Groundfish





local economic development

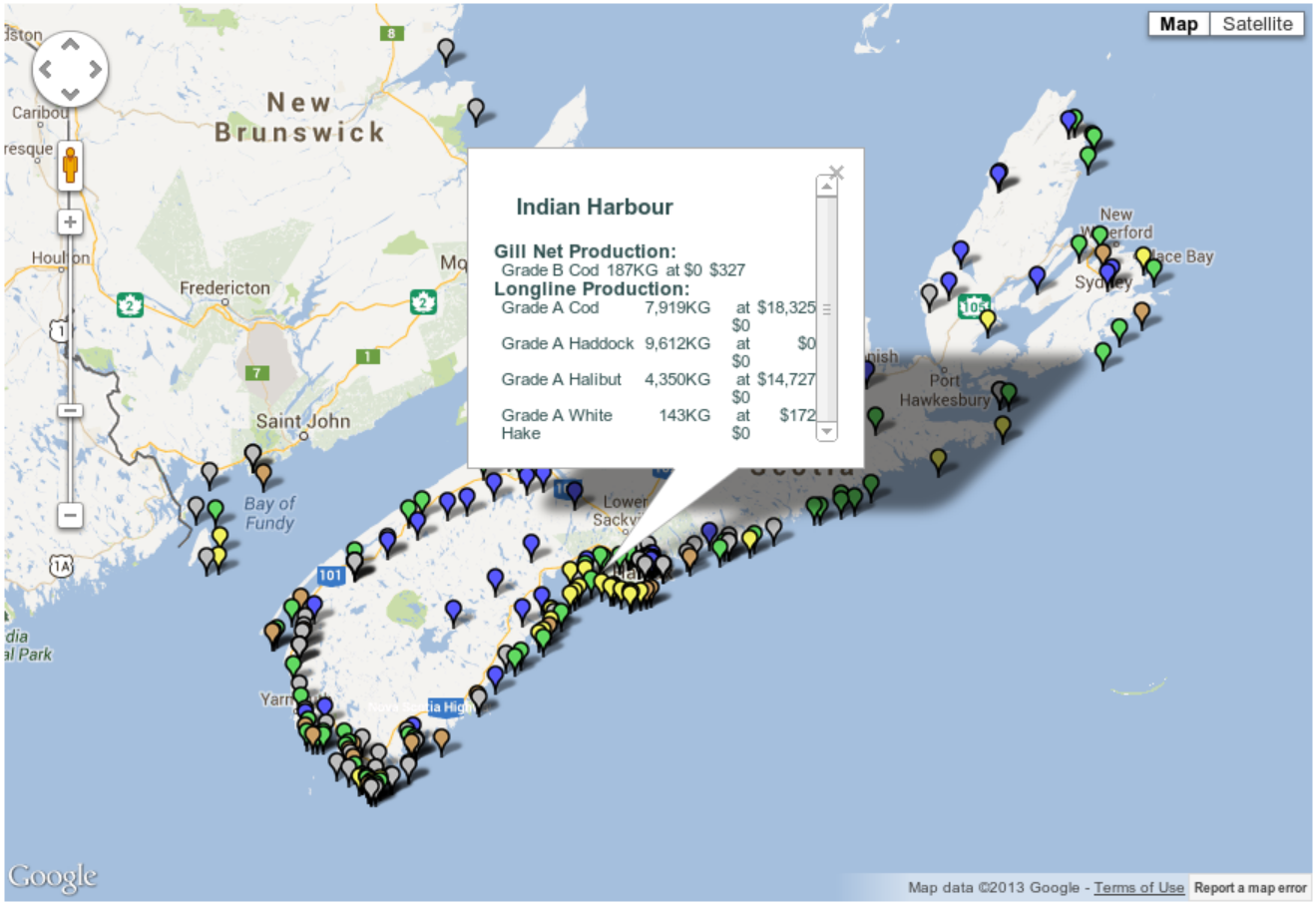
Map of Nova Scotia Groundfish

Markers: (•) Agent or ( ) County

Using 2010 data from http://www.dfo-mpo.gc.ca

Legend:

- Farmers Market
- Otter Trawl
- Hand Line, Longline, Trap
- Danish Seine, Gill Net, Scottish Seine
- Processing



Economic Functions for Cluster: Nova Scotia Groundfish

Functions:

		Qty	Price	Value
Danish Seine				
Produces:	Grade B Groundfish	5,473	0	8,108
Export				
Consumes:	Processed Groundfish	21,089,616	0	85,788,378
Farmers Market				
Fishing Grounds				
Consumes:	Bycatch	3,700,000	0	0
	Habitat Destruction	3,000,000	0	3,000,000
Gill Net				
Produces:	Grade B Groundfish	761,707	0	1,223,387
Hand Line				
Produces:	Grade A Groundfish	19,948	0	42,521
Import				
Produces:	Processed Groundfish	6,489,064	0	27,486,439
Landfill				
Consumes:	Fish Waste	10,000,000	0	0
Longline				
Produces:	Grade A Groundfish	7,193,558	0	10,166,648
NS End Use				
Consumes:	Processed Groundfish	20,000,000	0	0
Otter Trawl				
Produces:	Bycatch	3,700,000	0	3,700,000
	Grade B Groundfish	27,135,649	0	20,044,540
	Habitat Destruction	3,000,000	0	3,000,000
Processing				
Consumes:	Grade A Groundfish	7,213,693	0	10,209,169
	Grade B Groundfish	27,914,894	0	21,300,265
Produces:	Fish Waste	10,000,000	0	0
	Processed Groundfish	35,000,000	0	143,000,000
Scottish Seine				
Produces:	Grade B Groundfish	12,065	0	24,230
Trap				
Produces:	Grade A Groundfish	287	0	0

Resources:

Grade A Groundfish
- Produced By: Hand Line, Longline, Trap
- Consumed By: Processing

Grade A Halibut

Grade A Cod

Grade A Greenland Halibut/turbot

Grade A Haddock

Grade A White Hake

Grade B Groundfish
- Produced By: Danish Seine, Gill Net, Otter Trawl, Scottish Seine
- Consumed By: Processing

Grade B Cod

Grade B Greenland Halibut/turbot

Grade B Haddock

Grade B Halibut

Grade B White Hake

Grade A Dogfish

Grade A Groundfish, Unspecified

Grade B Groundfish, Unspecified

Grade B Dogfish

Grade B Red Hake

Grade B Silver Hake

Grade A Red Hake

Grade A Silver Hake

Habitat Destruction
- Produced By: Otter Trawl
- Consumed By: Fishing Grounds

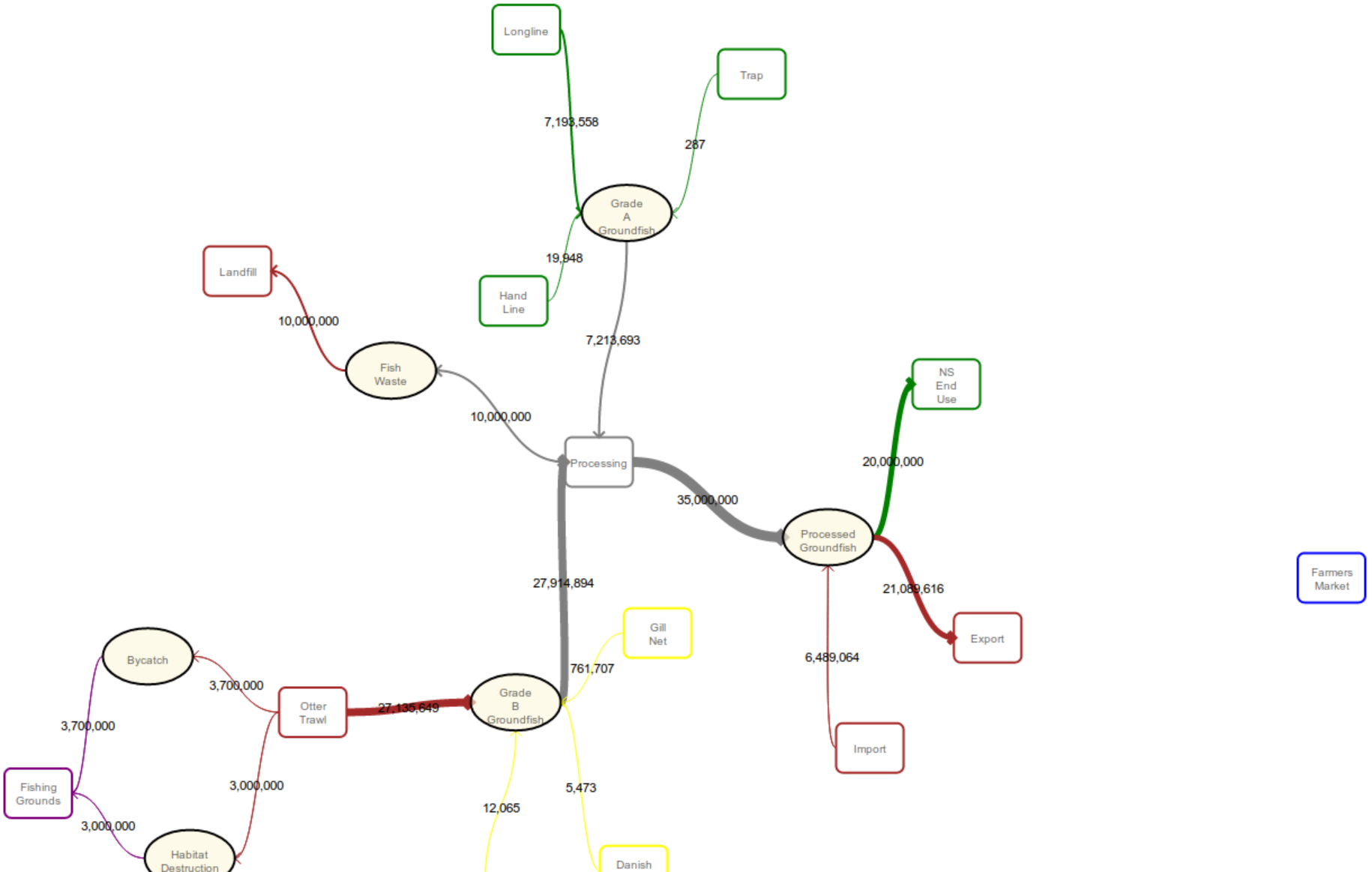
Bycatch
- Produced By: Otter Trawl
- Consumed By: Fishing Grounds

Fish Waste
- Produced By: Processing
- Consumed By: Landfill

Processed Groundfish
- Produced By: Import, Processing
- Consumed By: Export, NS End Use

Network Diagram: Nova Scotia Groundfish

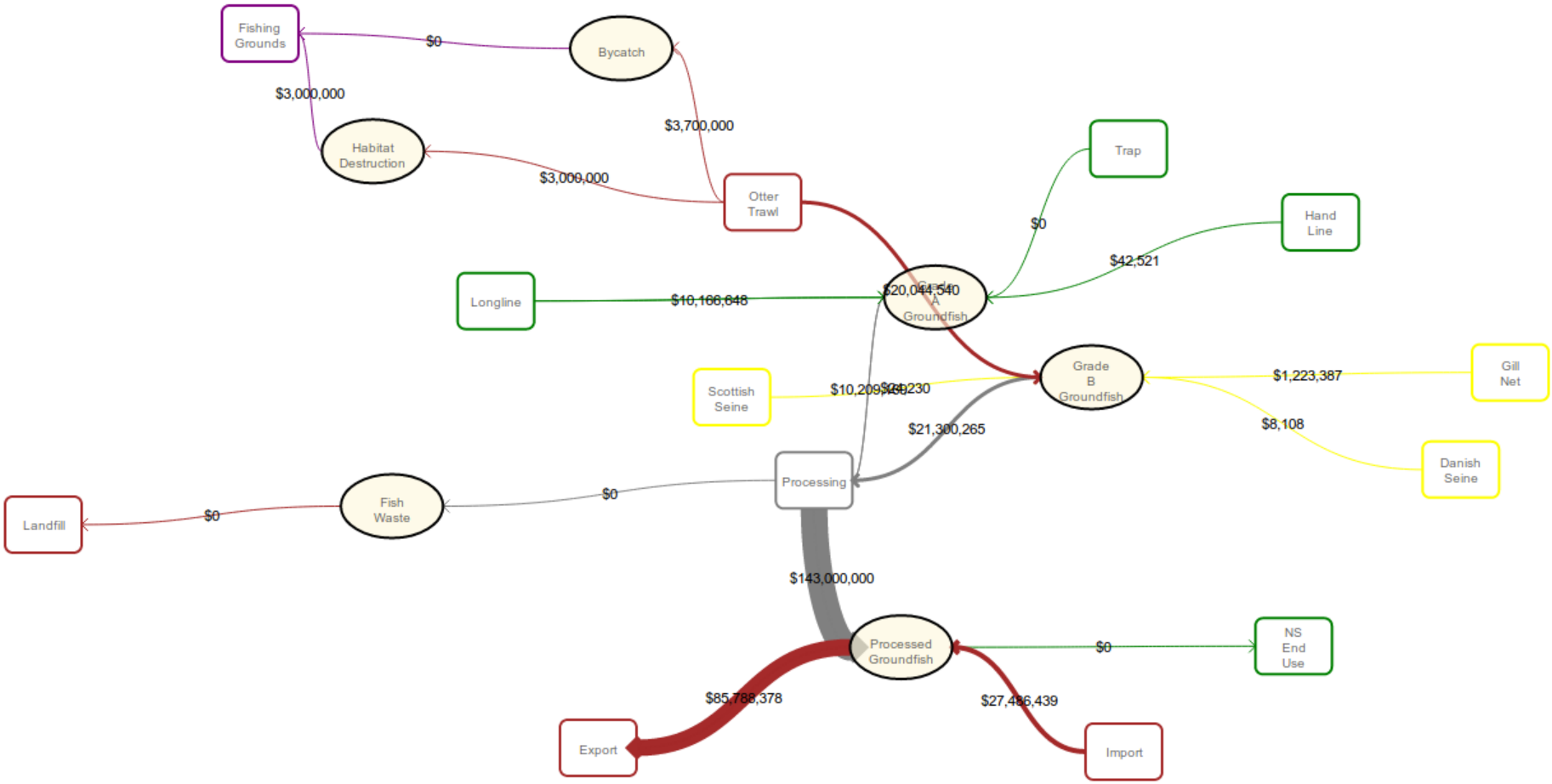
redraw Show: [Quantity or Price or Value] [Functions or Agents or Groups]



local economic development

Network Diagram: Nova Scotia Groundfish

redraw Show: [Quantity or Price or Value] [Functions or Agents or Groups]



local economic development

Function-Resource Table Nova Scotia Groundfish

Show: (•) Quantity or ( ) Value

Positive numbers = production, negative numbers = consumption

Function\Resource	Bycatch	Fish Waste	Grade A Groundfish	Grade B Groundfish	Habitat Destruction	Processed Groundfish	Totals
Danish Seine				5,473			5,473
Export						-21,089,616	-21,089,616
Fishing Grounds	-3,700,000				-3,000,000		-6,700,000
Gill Net				761,707			761,707
Hand Line			19,948				19,948
Import						6,489,064	6,489,064
Landfill		-10,000,000					-10,000,000
Longline			7,193,558				7,193,558
NS End Use						-20,000,000	-20,000,000
Otter Trawl	3,700,000			27,135,649	3,000,000		33,835,649
Processing		10,000,000	-7,213,693	-27,914,894		35,000,000	9,871,413
Scottish Seine				12,065			12,065
Trap			287				287
Totals	0	0	100	0	0	399,448	399,548

local economic development

Economic Diagnostics for Cluster: Nova Scotia Groundfish

Gaps Show ◉ Functions or ○ Agents

Function production lacking consumption in cluster:

Otter Trawl produces Bycatch	Missing value:	-3,700,000
Processing produces Processed Groundfish	Missing value:	-57,211,622

All function consumption is produced within this cluster

local economic development

Model Diagnostics for Cluster: Nova Scotia Groundfish

Disconnected functions:

Either these functions do not belong in this cluster, or they lack connections to other cluster functions through resources.

Farmers Market This function will not appear in the cluster diagram

Differences between Function and Agent Quantities:

Danish Seine produces Grade B Groundfish Value:	8,108	Agent Total: 0
Export consumes Processed Groundfish Quantity:	21,089,616	Agent Total: 0
Export consumes Processed Groundfish Value:	85,788,378	Agent Total: 0
Fishing Grounds consumes Bycatch Quantity:	3,700,000	Agent Total: 0
Fishing Grounds consumes Habitat Destruction Quantity:	3,000,000	Agent Total: 0
Fishing Grounds consumes Habitat Destruction Value:	3,000,000	Agent Total: 0
Gill Net produces Grade B Groundfish Value:	1,223,387	Agent Total: 0
Hand Line produces Grade A Groundfish Value:	42,521	Agent Total: 0
Import produces Processed Groundfish Quantity:	6,489,064	Agent Total: 0
Import produces Processed Groundfish Value:	27,486,439	Agent Total: 0
Landfill consumes Fish Waste Quantity:	10,000,000	Agent Total: 0
Longline produces Grade A Groundfish Value:	10,166,648	Agent Total: 0
NS End Use consumes Processed Groundfish Quantity:	20,000,000	Agent Total: 0
Otter Trawl produces Bycatch Quantity:	3,700,000	Agent Total: 0
Otter Trawl produces Bycatch Value:	3,700,000	Agent Total: 0
Otter Trawl produces Grade B Groundfish Value:	20,044,540	Agent Total: 0
Otter Trawl produces Habitat Destruction Quantity:	3,000,000	Agent Total: 0
Otter Trawl produces Habitat Destruction Value:	3,000,000	Agent Total: 0
Processing consumes Grade A Groundfish Quantity:	7,213,693	Agent Total: 0
Processing consumes Grade A Groundfish Value:	10,209,169	Agent Total: 0
Processing consumes Grade B Groundfish Quantity:	27,914,894	Agent Total: 0
Processing consumes Grade B Groundfish Value:	21,300,265	Agent Total: 0
Processing produces Fish Waste Quantity:	10,000,000	Agent Total: 0
Processing produces Processed Groundfish Quantity:	35,000,000	Agent Total: 0
Processing produces Processed Groundfish Value:	143,000,000	Agent Total: 0
Scottish Seine produces Grade B Groundfish Value:	24,230	Agent Total: 0

local economic development

Hardwick Community

Food System Cluster:
This model is based on work done by The Center for an Agricultural Economy, Hardwick, Vermont - 2009.
http://www.hardwickagriculture.org/
Cluster Map | Functions | Agents | Diagrams | Reports

Nova Scotia Community

This community is currently being developed by a project of the Ecology Action Centre to improve the economies of local hook-and-line fishing ports.
Read more here: http://www.ecologyaction.ca/content/marine

Groundfish Cluster:
Using 2010 data from http://www.dfo-mpo.gc.ca
Cluster Map | Functions | Agents | Diagrams | Reports

Direct Marketing (Simple) Cluster:
Cluster Map | Functions | Agents | Diagrams | Reports

Direct Marketing (Complex) Cluster:
Cluster Map | Functions | Agents | Diagrams | Reports

Regional Food Hub Cluster:
Cluster Map | Functions | Agents | Diagrams | Reports

Nova Scotia International Export Cluster:
Based on destination countries of exports and source of 're-imports'. Quantities are in whole weight equivalents.
Cluster Map | Functions | Agents | Diagrams | Reports

Southern Minnesota Community

Farmer Network Cluster:
This model is an excerpt from a real farmer network.
Cluster Map | Functions | Agents | Diagrams | Reports

Farms to Restaurant Cluster:
Based on some real but anonymous data.
Cluster Map | Functions | Agents | Diagrams | Reports

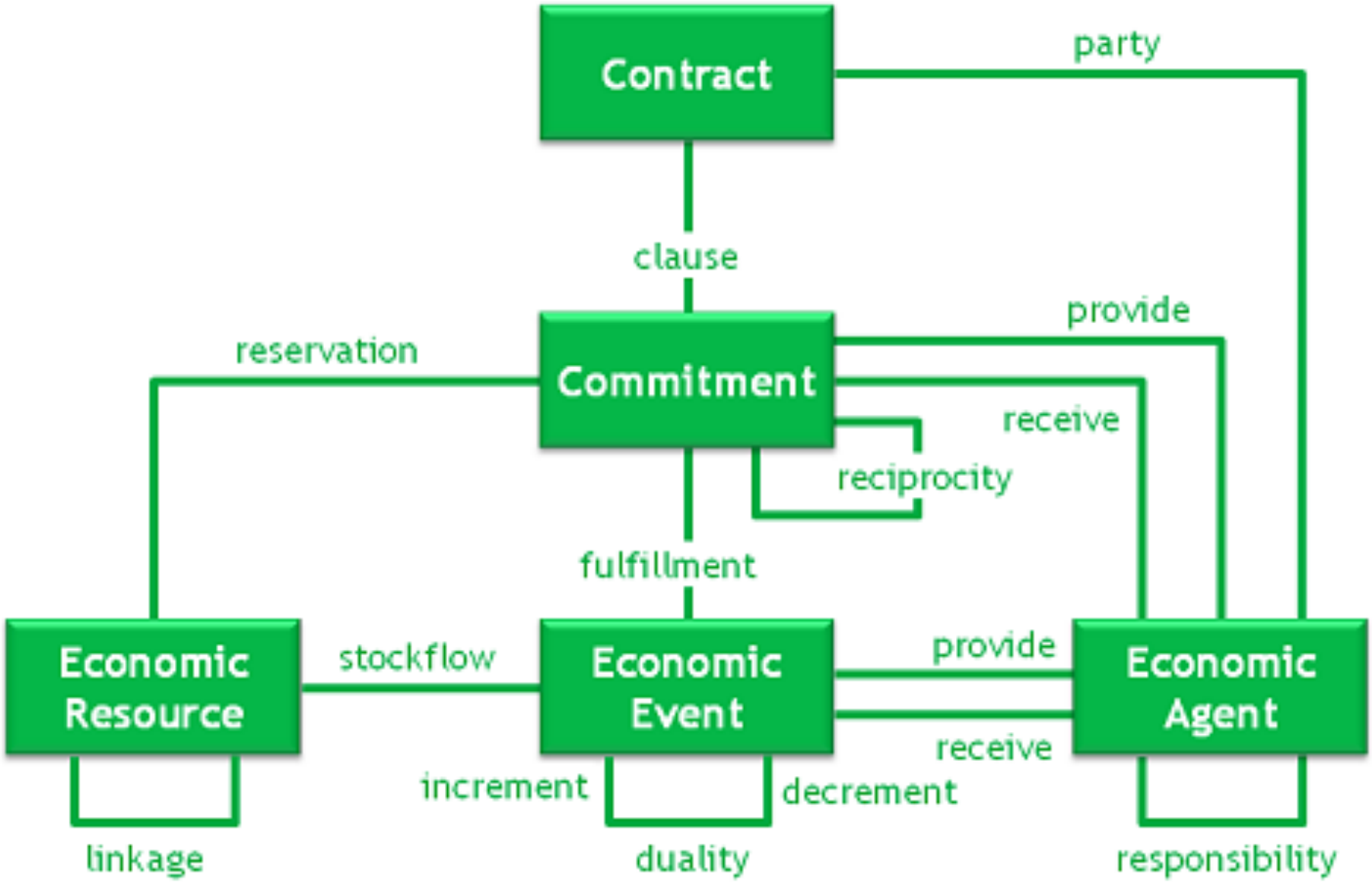
REA Enterprise Ontology

Value System and Value Chain Modeling

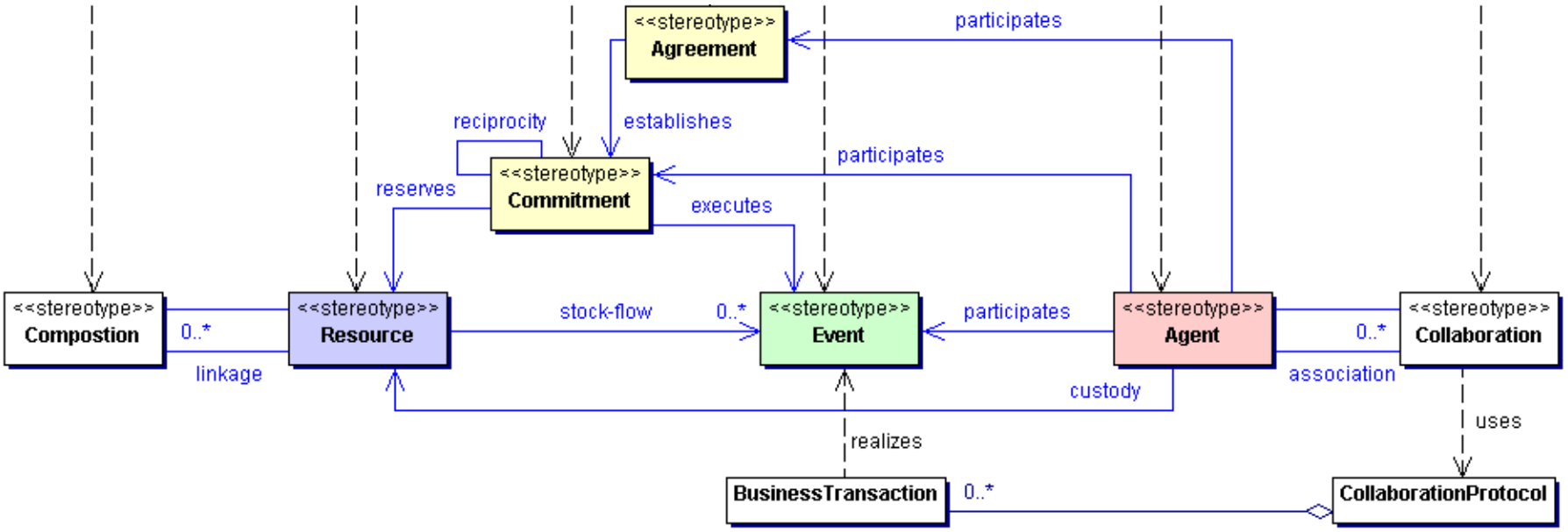
Resources

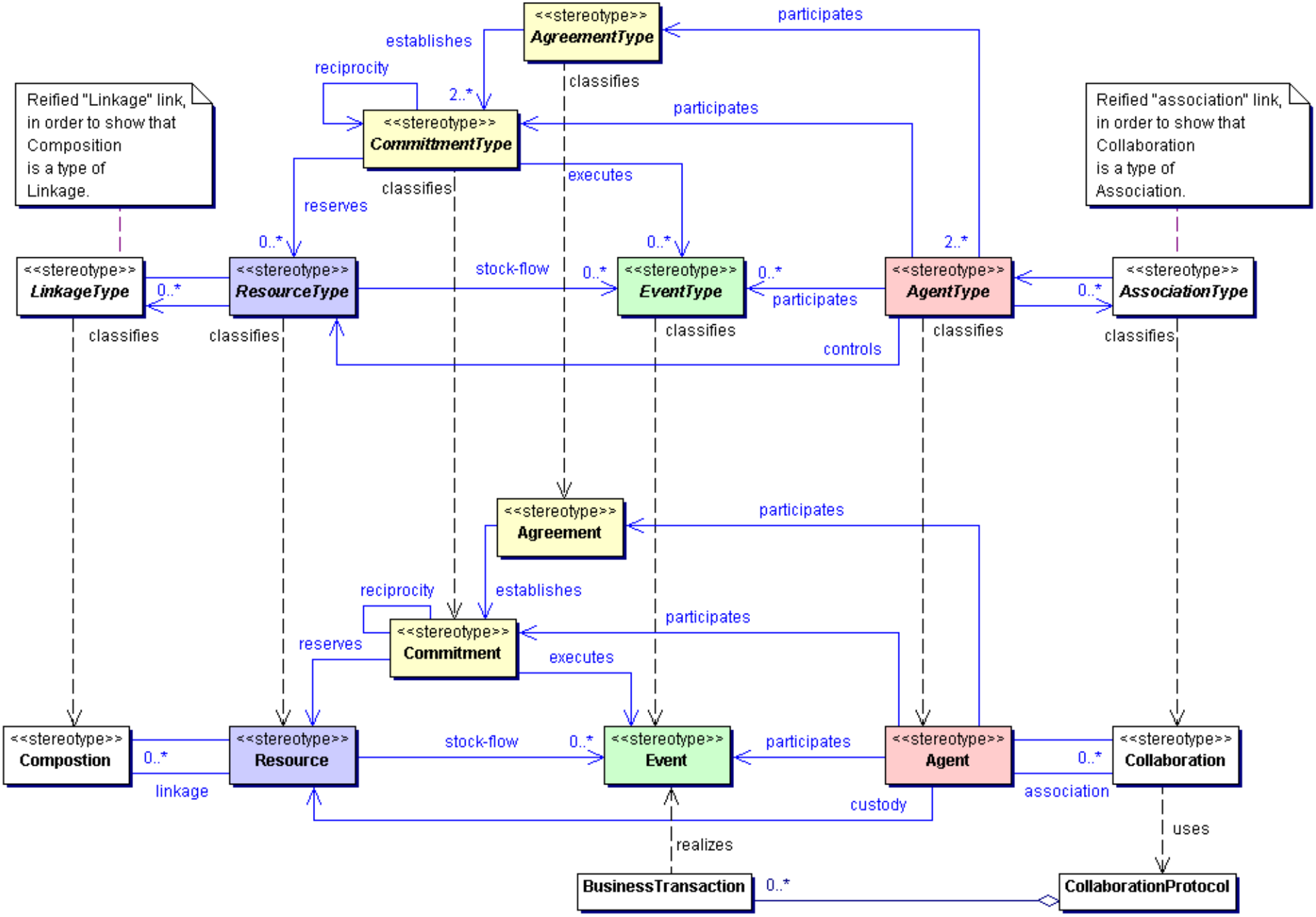
Events

Agents


Contract
party
clause
provide
reservation
Commitment
receive
reciprocity
fulfillment
Economic Resource
stockflow
Economic Event
provide
Economic Agent
receive
increment
decrement
linkage
duality
responsibility

Want/Need -> Offer/Agreement -> Commitment(=Potential Event)




«stereotype» AgreementType
participates
establishes
reciprocity
2..*
classifies
Reified "Linkage" link, in order to show that Composition is a type of Linkage.
«stereotype» CommittmentType
participates
Reified "association" link, in order to show that Collaboration is a type of Association.
executes
classifies
reserves
0..*
0..*
2..*
«stereotype» LinkageType
0..*
«stereotype» ResourceType
stock-flow
0..*
«stereotype» EventType
0..*
participates
«stereotype» AgentType
0..*
«stereotype» AssociationType
classifies
classifies
classifies
classifies
controls
«stereotype» Agreement
participates
reciprocity
establishes
«stereotype» Commitment
participates
reserves
executes
«stereotype» Compostion
0..*
«stereotype» Resource
stock-flow
0..*
«stereotype» Event
participates
«stereotype» Agent
0..*
«stereotype» Collaboration
linkage
association
custody
uses
realizes
BusinessTransaction
0..*
CollaborationProtocol