Use case for resource management within a value network
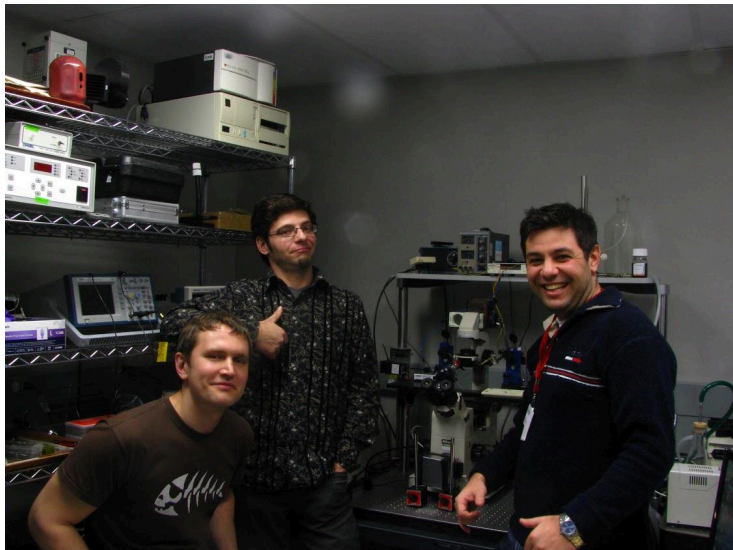
Important links
http://ovn.world/index.php?title=Physical_resource_governance

This document describes the case of Philippe Comtois from Montreal Heart Institute.

See Philippe's project on Sensorica's website

Between 2011 and 2013 Sensoricans have used Philippe's lab at MHI for the Mosquito project and the CSA project. The project started with an ENGAGE grant for the Mosquito project. In 2013 we submitted a proposal to the Canadian Space Agency for another project.

Prototypes (Mosquito, Aestuarium, the Piezo) are developed at CTS (Sensorica lab in Montreal) and tested in Philippe's lab.

See more Photo Albums
Testing the Mosquito sensor

The value Philippe provides to Sensorica

In general:

- lab space with equipment,
- technical and scientific expertise,
- credibility for projects and scientific publications,
- academic network,
- students to work on projects
- real life testing of prototypes and feedback for improvements
- participate in the design process

More details:

Philippe has access to biological samples which are used to test prototypes developed by sensoricans.

Philippe also has equipment that the Sensorica lab doesn't have, among the most important:
- Inverted microscope
- Optical table (anti vibration)
- Incubateur

During experiments we use tools and consumables that we find in the lab. Examples are: tools and parts for mechanical and electronic assemblies, some optics, glass slides, glues, we use the fridge, power supply, oscilloscope, computers, access to the Internet (you can restructure this!!!)

We also occupy a permanent space, we have a shelf assigned for Sensorica.

Three Sensorica affiliates (Tibi, Jonathan, Ivan) had access to the lab.
For timesharing we coordinate with Philippe's students. At some point we reserved one day a week for Sensorica-related activities.

Value Philippe gets from Sensorica

Philippe students have never come to work in the Sensorica lab.
In October 2003 Daniel made a 3D design and printed some parts for Phil's lab. This work was not related to any project we have in common. No fees were charged to Philippe's lab. For this Daniel used his computer with software for 3D design and Sensorica's 3D printer.

NOTE: Philippe has not responded to the form Value sought and contribution of value as reported by participants

Transfer of tools and equipment

Some equipment gets transferred between the labs. For example, Philippe gave us a CCD camera (picture needed) and a blue micromanipulators. Prototypes like the Mosquito and the piezo are installed at Phil's lab and when they are not used they are stored in our dedicated shelf in his lab. We don't have a formal system to log that, and many times Philippe asked us if we had some tools at our lab.
One idea we explored at the lab is to attach a QR code to equipment that gets transferred and use a smartphone or a tablet with GPS to read it and log it to a specific location and project.

Questions:

- How do you arrange to use Philippe's lab? Is the one day a week now established without further interaction? Or do you need to ask each time?
- What if you want to use more time on another day? How would that be arranged? If that happens, what would be the usual interactions?
- Are Tibi, Jonathan, and Ivan the only Sensoricans who can use Philippe's lab?
  - If you wanted somebody else to have permission, what would it take? What would the interactions be like?
- How do you account for the consumables that you consume in Philippe's lab?
- Re Philippe's lab equipment that Sensorica lab doesn't have: would one process typically use all of that equipment? That is, are those tools usually used together? Or separately? Or maybe both ways?

Questions outside of the use case of Philippe's lab, for use cases in the proposed hub.
(Will move later if another document develops. These are probably more complicated use cases, since the space is shared.)
- Who have you talked to who is concerned about their equipment or tools?
- What are their concerns?
- What will be the physical restraints for people an organization's equipment and tools? Will there be separate rooms there, or is it just a big room where all will have access to all? Are there locks?