# **ATExplorer (RoboLeila) Product Strategy**

# **Vision**

# **Turn a convoluted quality/data control process into a user friendly and interactive software that will provide suggestions and directions to the user to adjust the data as necessary.**

***What problems does this product solve?***

1. Long, complex workflow for raw data visualization and image processing and alignment, that requires programming experience.

2. Due to inconsistencies in biological data quality, the workflow is not yet standardized and requires a lot of technical improvisation

***What benefits does it provide?***

1. provide a user-friendly program, to allow users to upload data, visualize, quality control and process into aligned volumes

2. integrates, encapsulates and hides several complex software components

3. have everything packaged in a Docker image or something of the likes

# **Target Group**

# **Goals**

***What is the product?***

A software package that fully encapsulates AT image processing as done by Synapse Biology. It is envisioned to be in the form of a Docker image (with all code on Github) that includes Render, render-python-apps, render-modules, API, project database and the GUI

***What are the product’s high level functional goals?***

1. Ingest freshly acquired data from mosaic planner, new Zeiss software (based of Zen), AxioVision (old Zeiss software)

2. Aligned and registered volumes

3. Volume cutting and exporting, compatible with Fiji

***What are the product’s high level usability goals?***

1. Open source community where the software and grows and evolves
2. Incorporate an interactive Help section to aid data quality control
3. High and low level documentation for users and potential collaborators

***What makes ATExplorer stand out?***

1. Cross modal registration

\*\*\*Can we send coordinates from this software to Atlas, acquire EM images for desired region, and ingest that data back into render?

***Documentation:***

- User manual

- Under the hood documentation (specific, detailed, for anyone to add to the software)

1. Module/tool descriptions

2. Software design (high level and low level)

3. Render documentation

# **Timeline**

# **Roadmap**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Oct. 2018** | **Jan. 2019** | **Summer 2019** |
| **Functionality** | Ingest LM data |  |  |
| **GUI** |  |  |  |
| **Documentation** | Create\_fast\_stacks | RPA, RM, (Render?) | All functionality and software design |
| **Information Transfer** |  | Totte self-sufficient with LM-VA |  |
| **User Feedback** | Jenna, Kristina | Reach out to other potential users for early spring testing? |  |