QIBA Vol CT Study 3A Clinical Data Schedule and Logistics

Software and Systems Division
National Institute of Standards and Technology/U.S. Department of Commerce

Overview

1. Upon notification, download the QIBA 3A Clinical Data from the private QIBA 3A Study site
2. Run volumetric algorithm or CAD tool the Pivotal Data
3. Report your anonymized results using your ID to the RSNA

Participant Anonymization

- The RSNA will keep the participant's identity in confidence from the QIBA 3A Group and directly communicate individual results back to the participants
- RSNA will generate an anonymized ID for each participant
- Participants are responsible for anonymization of their submissions

Information Participant Must Provide

- CAD tool/algorithm workflow name and description
- CAD tool developer, the algorithm used, and version number (if applicable)
- References to available publications
- Character and degree of user interaction with software
  - Use the VOLCANO'09 categories (http://www.via.cornell.edu/challenge/)
- Documented procedure used so that results are reproducible by trained users
- Permission for study organizers to publish results, acknowledge participating institutions and investigators in the manuscript

What the QIBA 3A Group Will Do

- Analyze reported results by comparison to ground truth and other participating methods
- Provide participants with a study report within 3 months of the participant submission deadline
- Consult with individual participants on their results
- Report results at an open meeting
- Publish results
  - In an archival journal or conference proceeding
  - Without identifying participant scores

Schedule

- Participants
  - Send Participation Agreement to RSNA by March 11th, 2013
  - Receive anonymized ID and download study data
  - Report results to the RSNA by June 17th, 2013




Clinical Data is at QI-Bench Website

QI-BENCH
Optimizing Performance Through Characterization

Flexible, free and open source software tooling to develop and optimize quantitative medical imaging.

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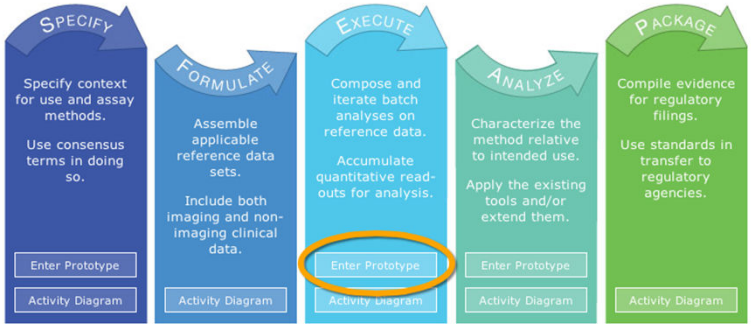
Quantitative imaging applications such as imaging biomarkers advance the utility of medical imaging. They may detect and characterize disease, before, during or after a course of therapy. They may also predict the course of disease, with or without therapy.

A precondition for use is the demonstration of performance according to recognized descriptive statistics:

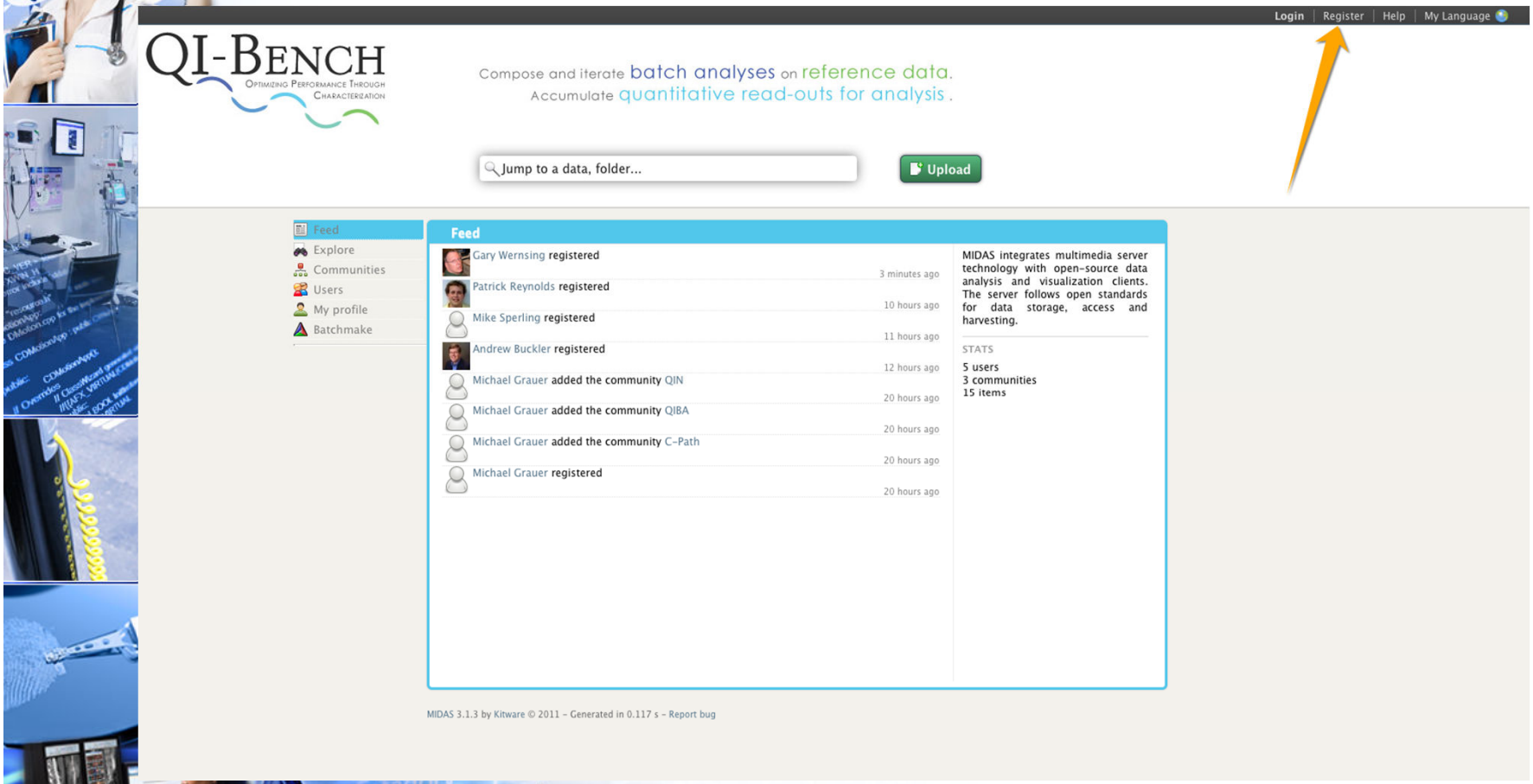
- In a defined patient population,
- For a specific biological phenomenon associated with a known disease state,
- With evidence in large patient populations,
- Externally validated.



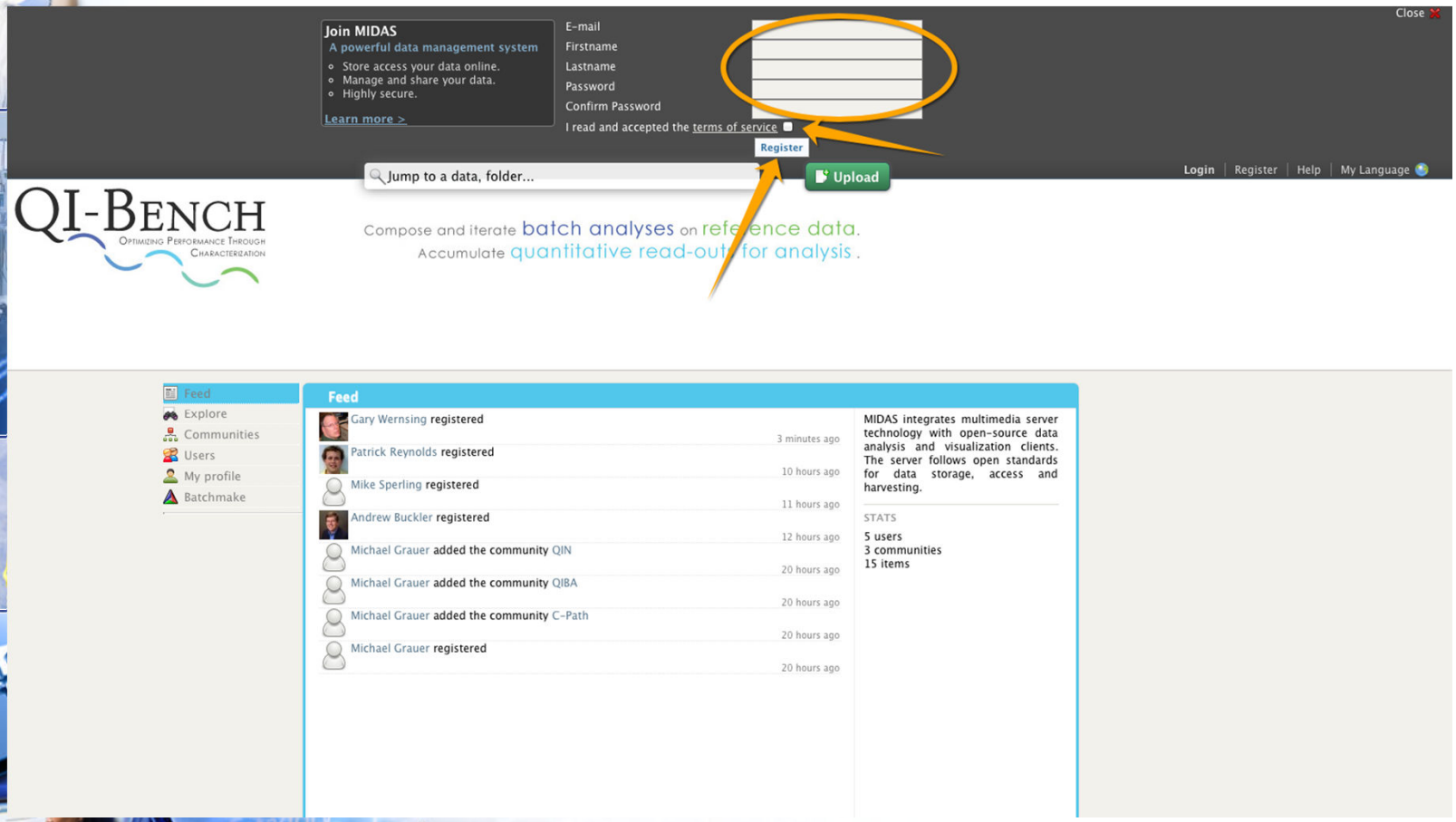
Open-source informatics tooling used to characterize the performance of quantitative medical imaging as needed to advance the field. These tools may be deployed internal to an organization or used for collaborative work across organizations. The data on which they work may be accessible only to identified individuals, or more broadly in an open archive, to suit the specific project purpose.

http://www.qi-bench.org

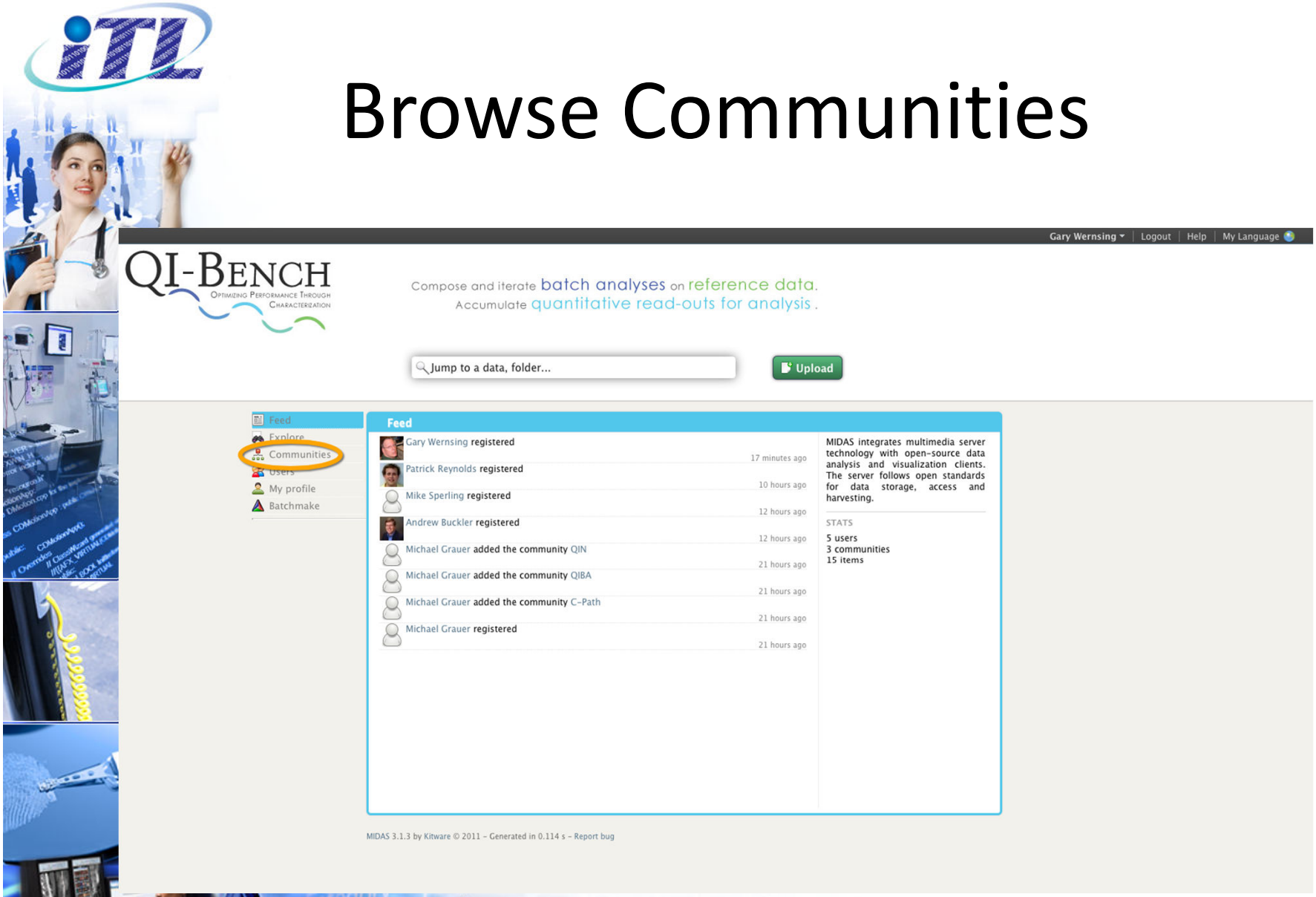
Register as a User



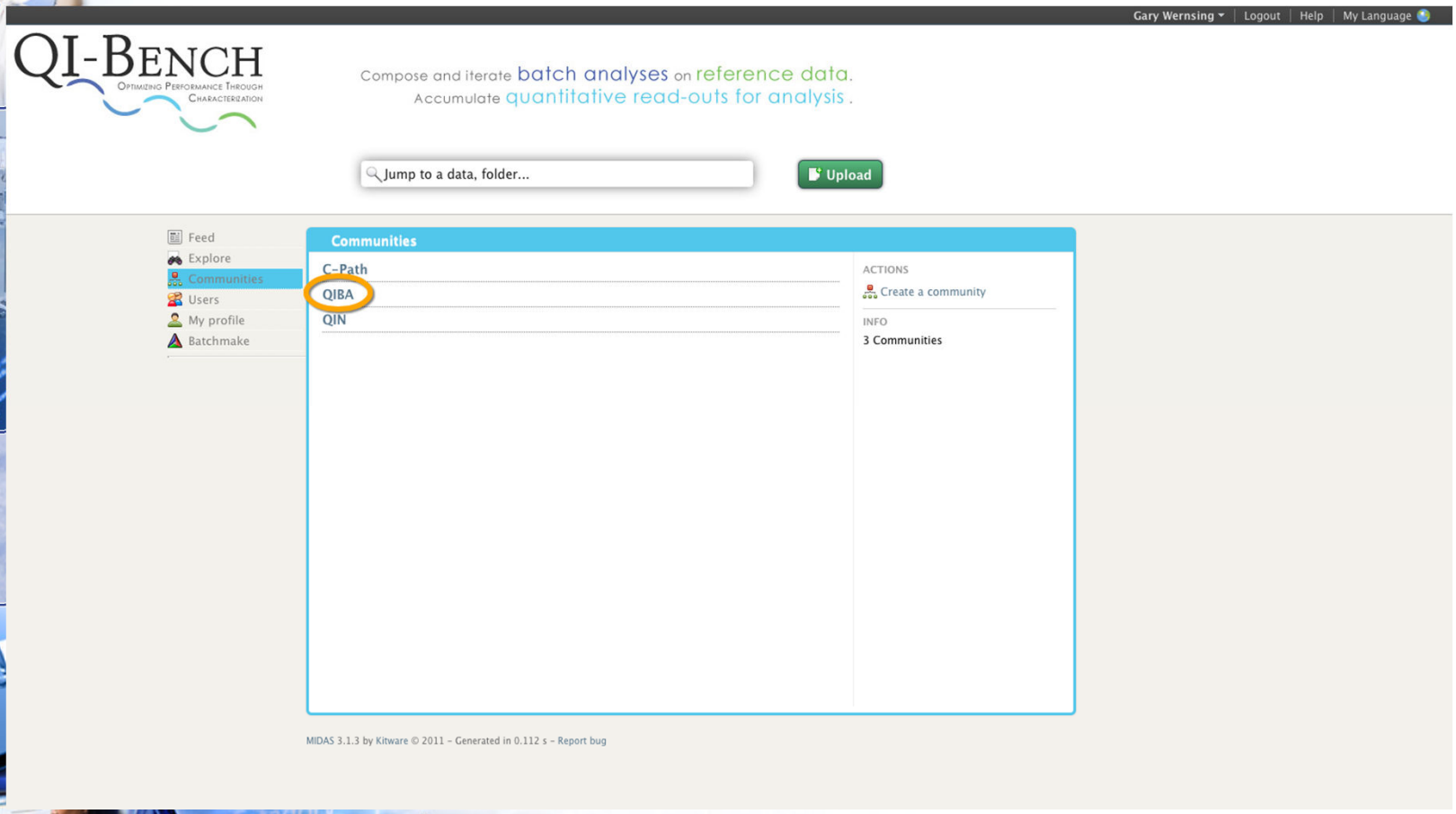
Creating Account



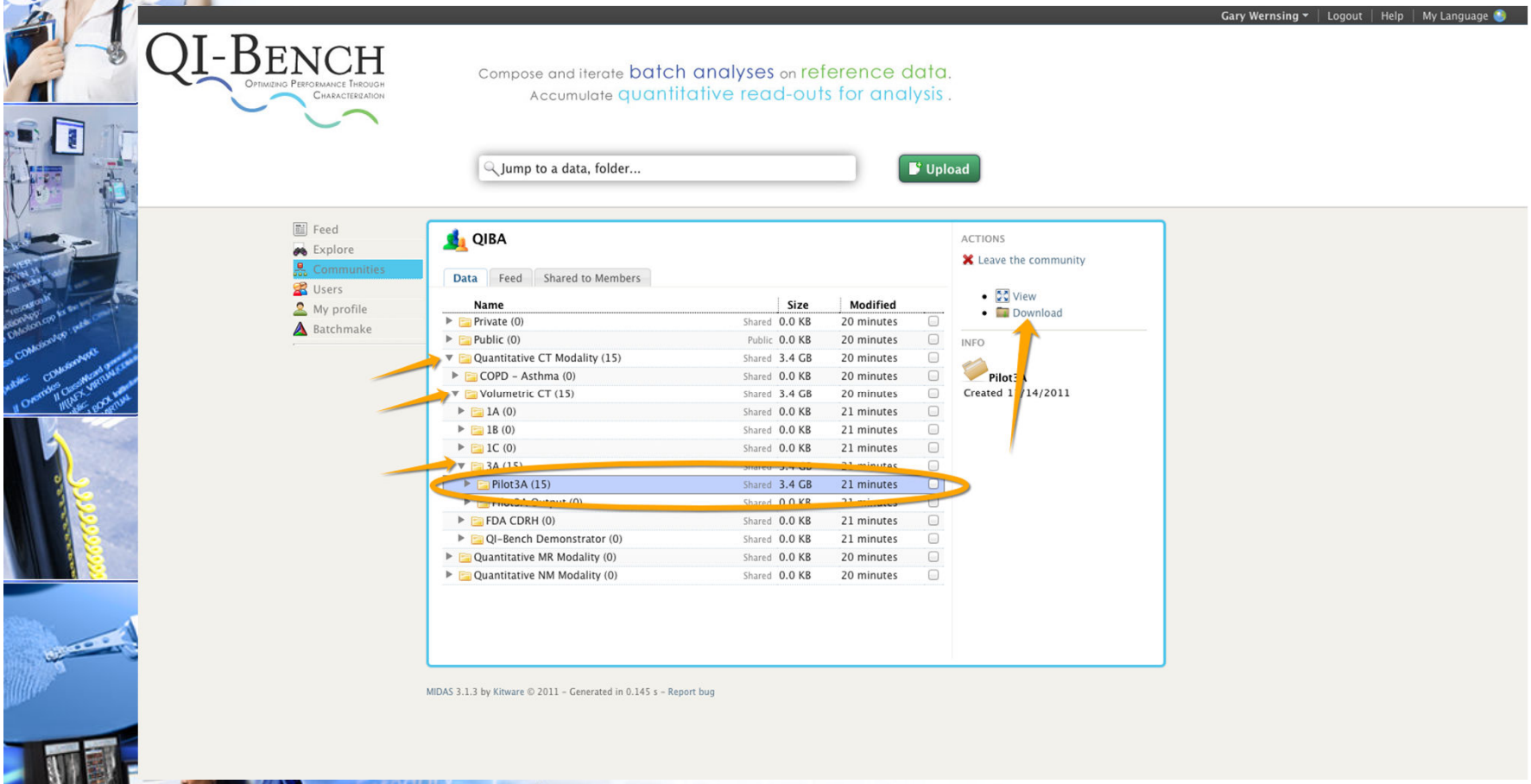
Browse Communities



Find QIBA Community



Download Data



Important URLs

- For registering and sending anonymized results:
  - qibachallenge@rsna.org
- For downloading Study Data:
  - http://www.qi-bench.org/
- Data Download instructions:
  - http://www.qi-bench.org/wiki/index.php?title=Manually_access_data