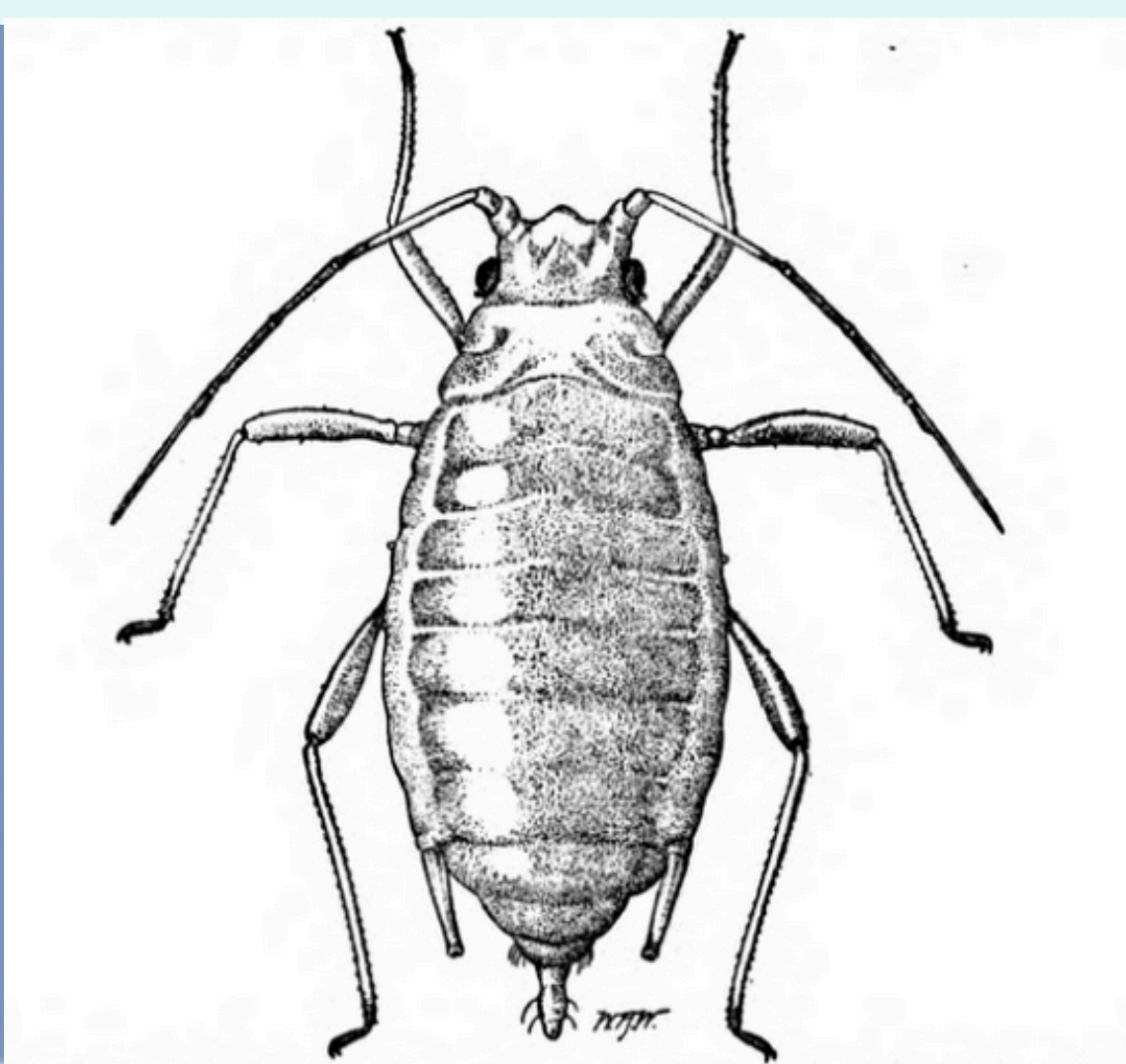# FROM FARMERS' BULLETINS TO NASA SPACE PLANS

Using Crowdsourcing and Gamification Elements to Enhance the HathiTrust U.S. Federal Government Documents Registry

CHALLENGE

Experts estimate there are up to 2.2 million volumes—roughly equivalent to 500 million pages—of U.S. federal government documents. HathiTrust is working to implement a comprehensive registry of U.S. federal government documents published since 1789. They have acquired metadata from various institutions, yet the collected records contain an unknown number of duplicates. We were tasked with creating a quality control method to help ensure consistent metadata.

PROCCESS

We investigated crowdsourcing techniques used by libraries, archives, and museums, while considering our key requirement: to evaluate and integrate records. We also examined complimentary strategies, including games with a purpose and quality assurance mechanisms.

OUTCOME

We designed a manual record review process that incorporates aspects of crowdsourcing, games with a purpose, and gamification elements. We explored crowd-sourced game design, player motivation, and a data quality assessment framework to help enhance the HathiTrust U.S. federal government document registry with normalized and accurate metadata.

A 2015 CAPSTONE PROJECT BY

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