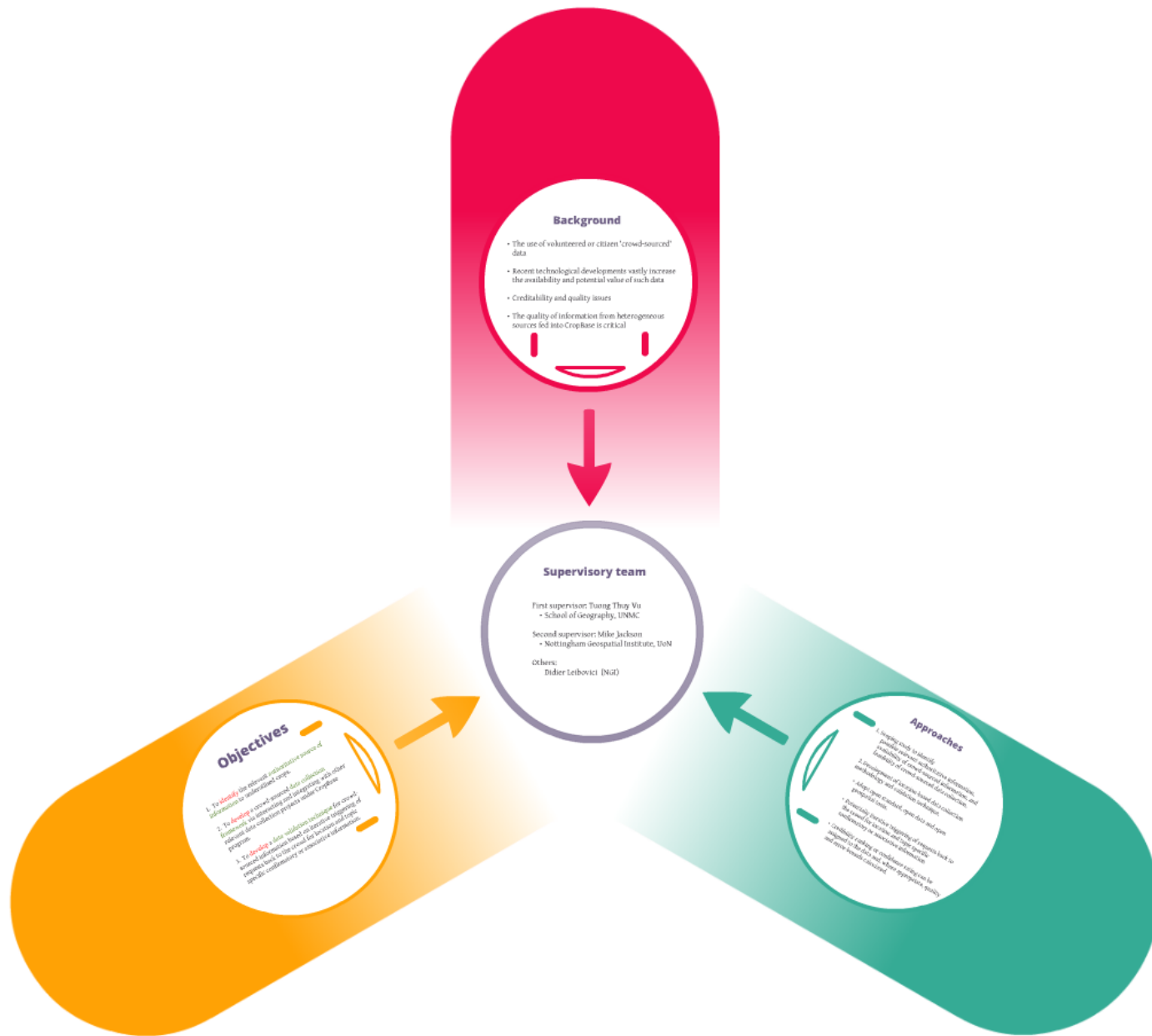


Interactive quality assessment of crowd-sourced location data for agricultural research



Interactive quality assessment of crowd-sourced location data for agricultural research

Supervisory team

First supervisor: Tuong Thuy Vu

- School of Geography, UNMC

Second supervisor: Mike Jackson

- Nottingham Geospatial Institute, UoN

Others:

Didier Leibovici (NGI)

Background

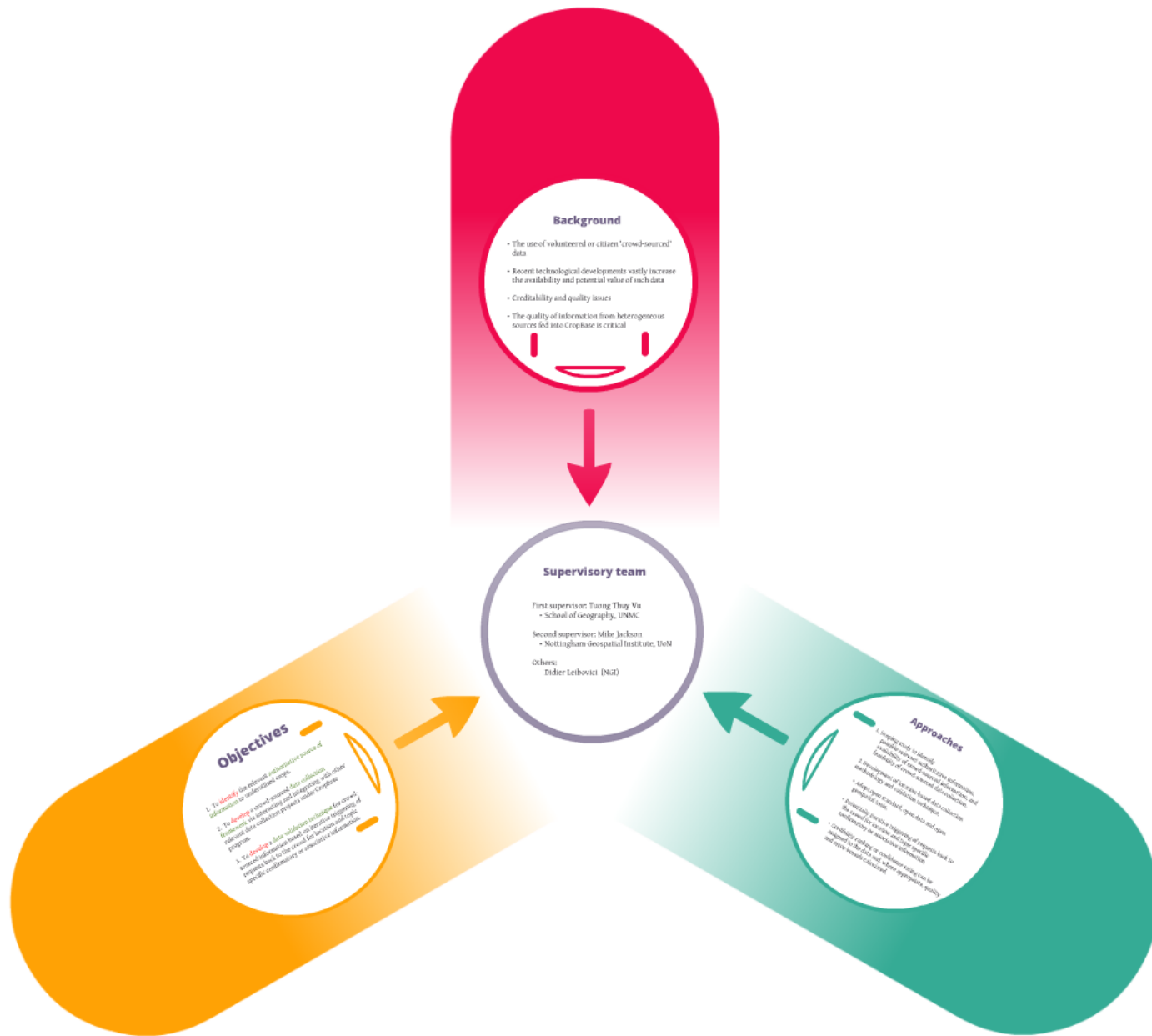
- The use of volunteered or citizen 'crowd-sourced' data
- Recent technological developments vastly increase the availability and potential value of such data
- Creditability and quality issues
- The quality of information from heterogeneous sources fed into CropBase is critical

Objectives

1. To **identify** the relevant **authoritative source of information** to underutilised crops.
2. To **develop** a crowd-sourced **data collection framework** via interacting and integrating with other relevant data collection projects under CropBase program.
3. To **develop** a **data validation technique** for crowd-sourced information based on iterative triggering of requests back to the crowd for location and topic specific confirmatory or associative information.

Approaches

1. Scoping study to identify possible relevant authoritative information, availability of crowd-sourced information, and feasibility of crowd-sourced data collection.
2. Development of location-based data collection methodology and validation technique.
 - Adopt open standard, open data and open geospatial tools.
 - Potentially iterative triggering of requests back to the crowd for location and topic specific confirmatory or associative information
 - Credibility ranking or confidence rating can be assigned to the data and, where appropriate, quality and error-bounds calculated.



Interactive quality assessment of crowd-sourced location data for agricultural research