Collecting & Sharing Geo-Located Data in Crisis Situations

Decision-making tools for practitioners

Purpose

The decision trees that follow are meant to be used together with "Location-based data in crisis situations: Principles & Guidelines," produced by the Scientific Responsibility, Human Rights and Law Program (SRHRL) of the American Association for the Advancement of Science (AAAS). They build upon this document to further explore how geo-located data is collected and shared in crisis situations, and how it can be done so ethically. Consult the full set of principles and guidelines for more considerations around aggregation, storage, archiving and deletion.

To learn more about SRHRL, visit: https://www.aaas.org/programs/scie ntific-responsibility-human-rights-law

How to use the tool

- Follow the flow of questions, answering truthfully!
- **Potential stopping points** are indicated by a caution symbol, and are a darker shade. These points are meant to encourage you to consider how you might make more ethical decisions in your plan.
- If you reach a stopping point, take some time to explore how you could alter
 your data collection and/or data sharing plans accordingly—but don't be
 afraid to explore where different answers might have led you in the decision tree.
 Once you've explored the different ways you could have answered questions in
 that series, move on to the next so that you can continue planning your project.
- You'll notice that stopping points happen quite frequently. That's because
 data collection and data use in crisis situations is complex and presents a
 number of risks. Engaging in these activities ethically requires a number of
 safeguards to mitigate potential harm. The goal is to demonstrate the many
 points at which geo-located data processes could potentially put people and
 communities represented in harm's way without adequate planning.
- This is not meant to be an exhaustive resource covering all potential scenarios, but a starting point to guide your thinking around data collection and sharing in the context of crisis situations. Read the full principles and guidelines, consult with colleagues and do your own research to make sure that your projects are ethical and effective.

Should I collect location-based data in this crisis situation?



Considerations for Data Collection



Data Minimization

Once you collect something, it could exist forever. That means the risks of breaches, leaks and misuse could, too. Collect only the data you need, and make a plan for deletion, too.



Do No Harm

If you build projects without contextual knowledge or partnerships, you may unintentionally bring harm to the populations you're aiming to help.

You still have questions

about the context.

Not at all -

the context.

You are new to



Informed Consent

It's best to only collect data that individuals agree to share after they understand how their data will be used and what risks it might bring.



Anonymization

Identifiable information (e.g. names, home addresses, IP addresses, phone numbers) should never be provided. You don't need many data points to identify someone.

with the context, available resources

Seek out partnerships. Do not

collect this data until you have

with the crisis context.

relationships with those familiar

and history.



Train Volunteers

"Do no harm" applies to data collectors, too. Poorly collected data puts the data collectors, those represented in the data and your project at

Continued on

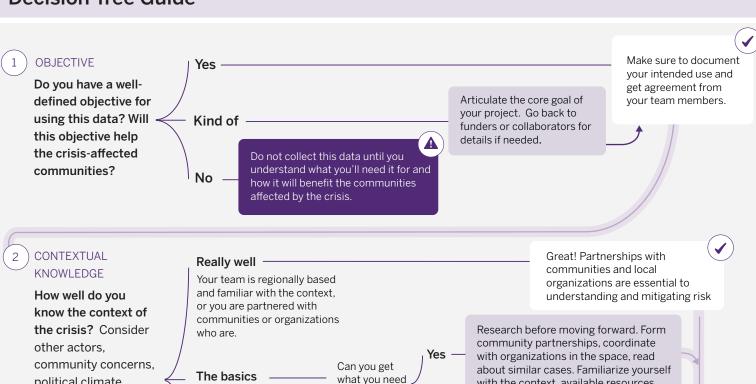
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political climate,

context.

language and cultural



to know from

your network?

Are you working

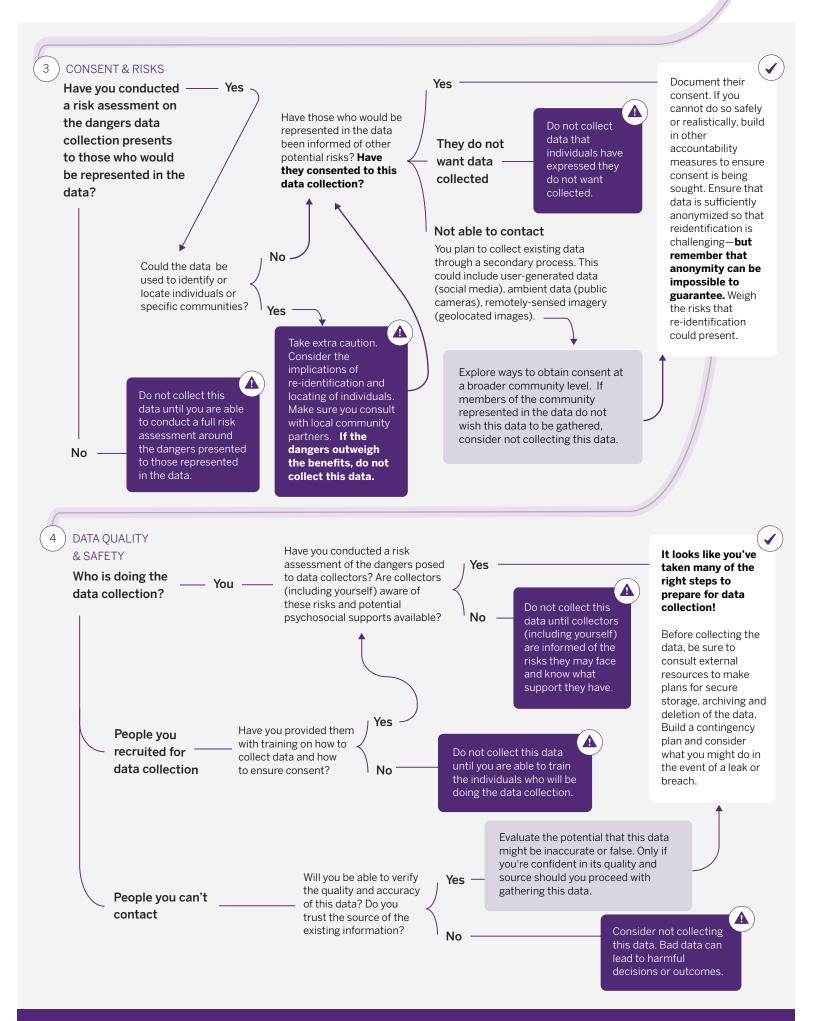
with those familiar

with the context?

No

Yes

No



Should I <u>share</u> location-based data in this crisis situation?



Considerations for Data Sharing



Share With a Purpose

Ensure decisions about data-sharing are mission-driven and goal-oriented. Make sure that you have clearly defined use cases in mind.



Extra Caution in Conflict Situations

Data affiliated with conflict situations may lead to serious consequences for vulnerable populations if adversarial groups gain access to the



Manipulation and Misuse of Data

There are implications for sharing data, including the possibility that people will misinterpret maps and visualizations or actively manipulate and mis-use data in a way that leads to harm.



Stewardship and Knowledge Repatriation

Communities have a right to access data collected about them, as well any insights derived from these data. Meaningful engagement may require capacity-building around data literacy.

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