How can government officials better target their actions during a pandemic to help lower transmission in lower income communities?

What are different ways that field data can be collected and integrated?

**RELATED GEOGRAPHY CAREERS:**
- Logistics Analysts
- Medical Records Specialist
- Cartographers and Photogrammetrists
- Geographic Information Systems Technologists and Technicians
- Urban and Regional Planners

**INTERVIEW DIGEST:**
CARMEN LEEDHAM

"With geocomputation, and computation in general, we run the risk of turning people, plants, and places into numbers or into commodities and into binaries and, through geography, we can return people from numbers and binaries back into real life, things that have special life circumstances and have value to one another."

**APPLICATIONS:**
- Cultural geography
- Socioeconomic conditions
- Humanizing statistics
LESSON ACTIVITY EXAMPLE:
Using a map of your school, randomly assign 3-5 locations of the school to be represented as a point of interest (POI). These can be imagined as homeless shelters, food deserts, or something of that nature. Send students to collect location data of the identified points. Once these points are mapped, have a discussion on what a least-cost path is. Ask the students to hypothesize based on their location data, where the best location would be for a handwashing station or grocery store that is closest to an equal distance apart from every location. This activity can be repeated at larger scales and with more grocery stores or handwashing locations (>1).

GLOSSARY:

SKILLS:
- ArcGIS, QGIS
- Excel functions
- Geocoding
- Remote Sensing
- Geographic information systems (GIS)

BACKGROUND RESOURCES:
- ArcGIS collector background, examples, and tutorial
- Least-cost path background, examples, and tutorial

DATA:
- Field collected latitude and longitude coordinates
- Aerial imagery
- San Diego’s Regional Planning Agency (SANDAG)
- 211 San Diego

Photo: A market full of ripe produce