



CULTIVATING NATIVE ECONOMIES IN THE 21ST CENTURY

Data Summit

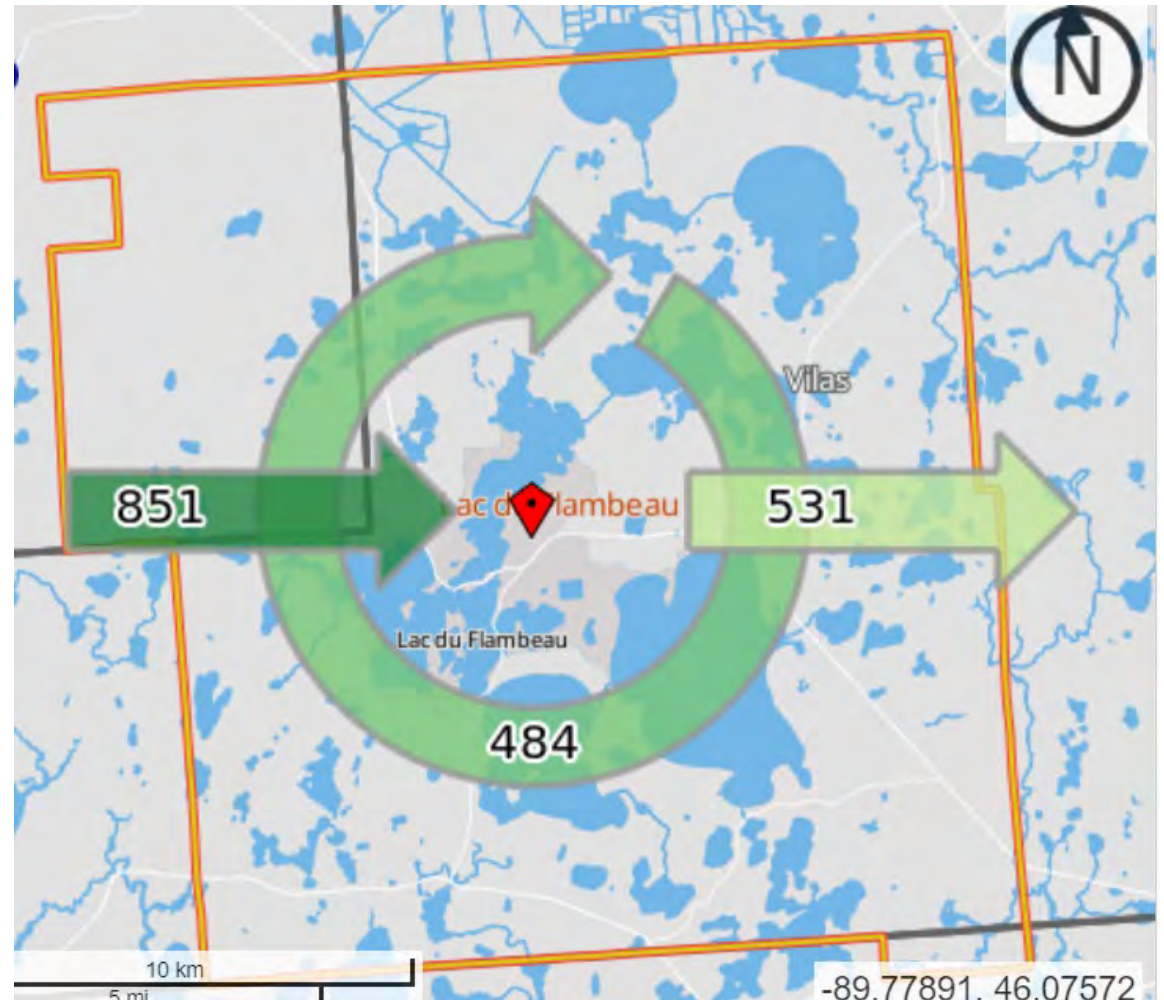
DECEMBER 13, 2023



The views expressed here are the presenter's and not necessarily those of the Federal Reserve Bank of Minneapolis or the Federal Reserve System.

Economic Inflows and Outflows

- Inflows: broadly describes the economic activity flowing into an area
- What do we know about inflows into reservations?
- What do we know about visitors flowing into reservations?
 - We can get an idea of the inflows and the interconnectedness of reservations into the local and regional economy using Advan data



Source: LODS Data, U.S. Census Bureau

Data Gaps

- Sample sizes for Native Americans and their areas are often very small
 - “Asterisk nation” - too difficult to enumerate or too costly to be sampled appropriately
- Mismatched geographies: statistical products do not always match tribal boundaries
- Alternative data may bring additional insights for Native Geographies and their economies

Advan Data

- Advan Weekly Patterns is a phone-mobility dataset that has visitation counts and distances traveled by visitors to places-of-interest (POI)
 - Covers about ~10% of the U.S. population
 - Visitors in dataset have a smart phone and certain apps installed
 - Visitors are anonymized and we do not see identifying information
 - Places are "notable areas"
 - Places are categorized into NAICS industries
- We know the exact location of the POIs and have an idea of where people come from
- Use boundaries of reservations to...
 - Determine if a POI lies within a reservation
 - Calculate distances traveled by visitors to POIs on reservation
 - Use U.S. Census Bureau shapefiles!

An aerial photograph of a wide river valley, likely the Snake River, with rolling hills and mountains in the distance. The entire image is overlaid with a semi-transparent blue filter. The text 'TRIBAL ECONOMIC ZONES' is centered in white, bold, sans-serif font.

TRIBAL ECONOMIC ZONES

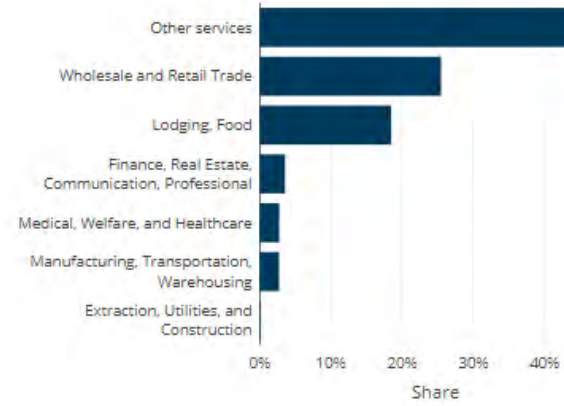
Tribal Economic Zones

Choose a Native geography Lac du Flambeau Reservation

Average distance traveled to places of interest



Visit shares by industry



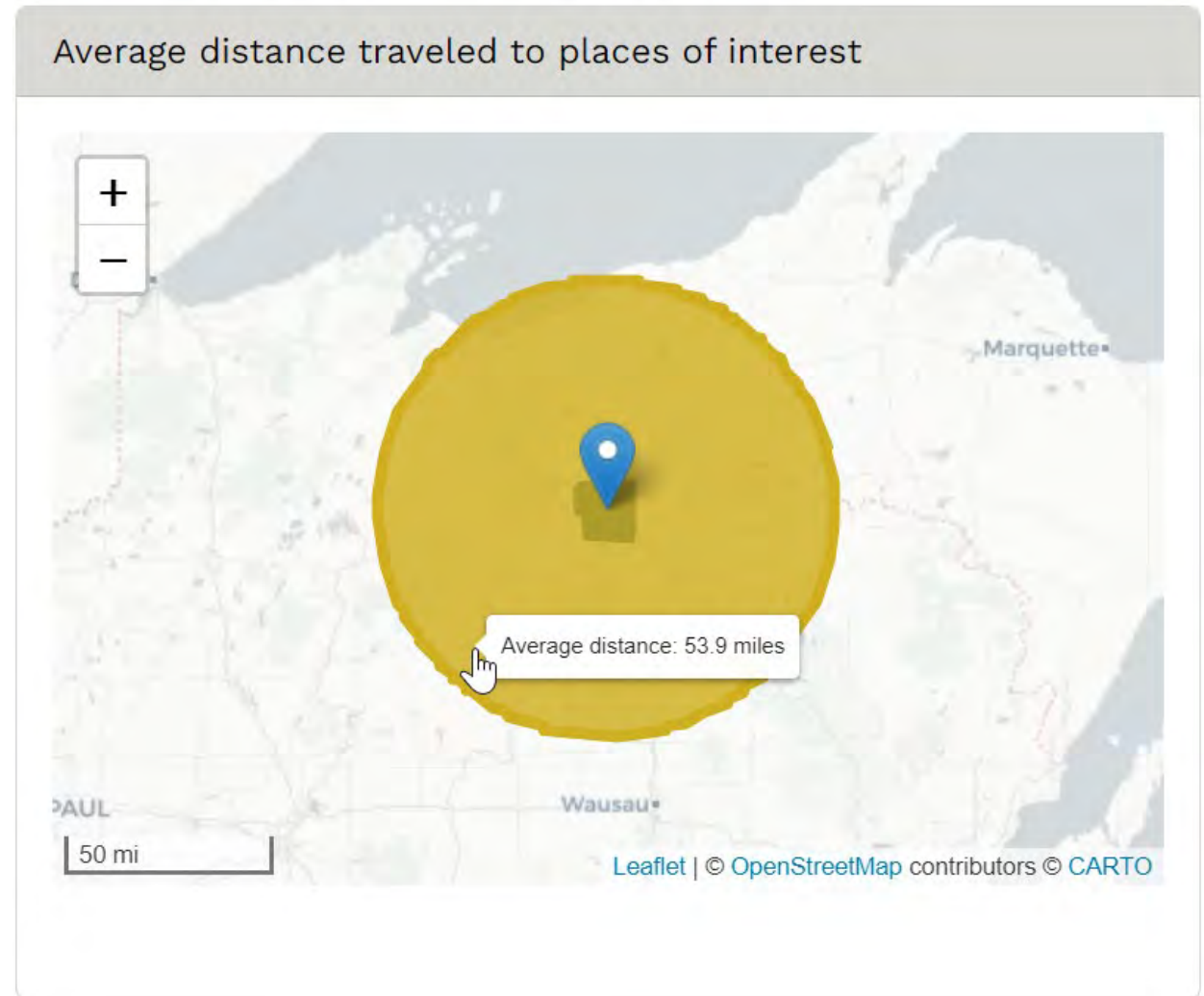
Average distance traveled to places of interest over time



Source: Advan Weekly Patterns

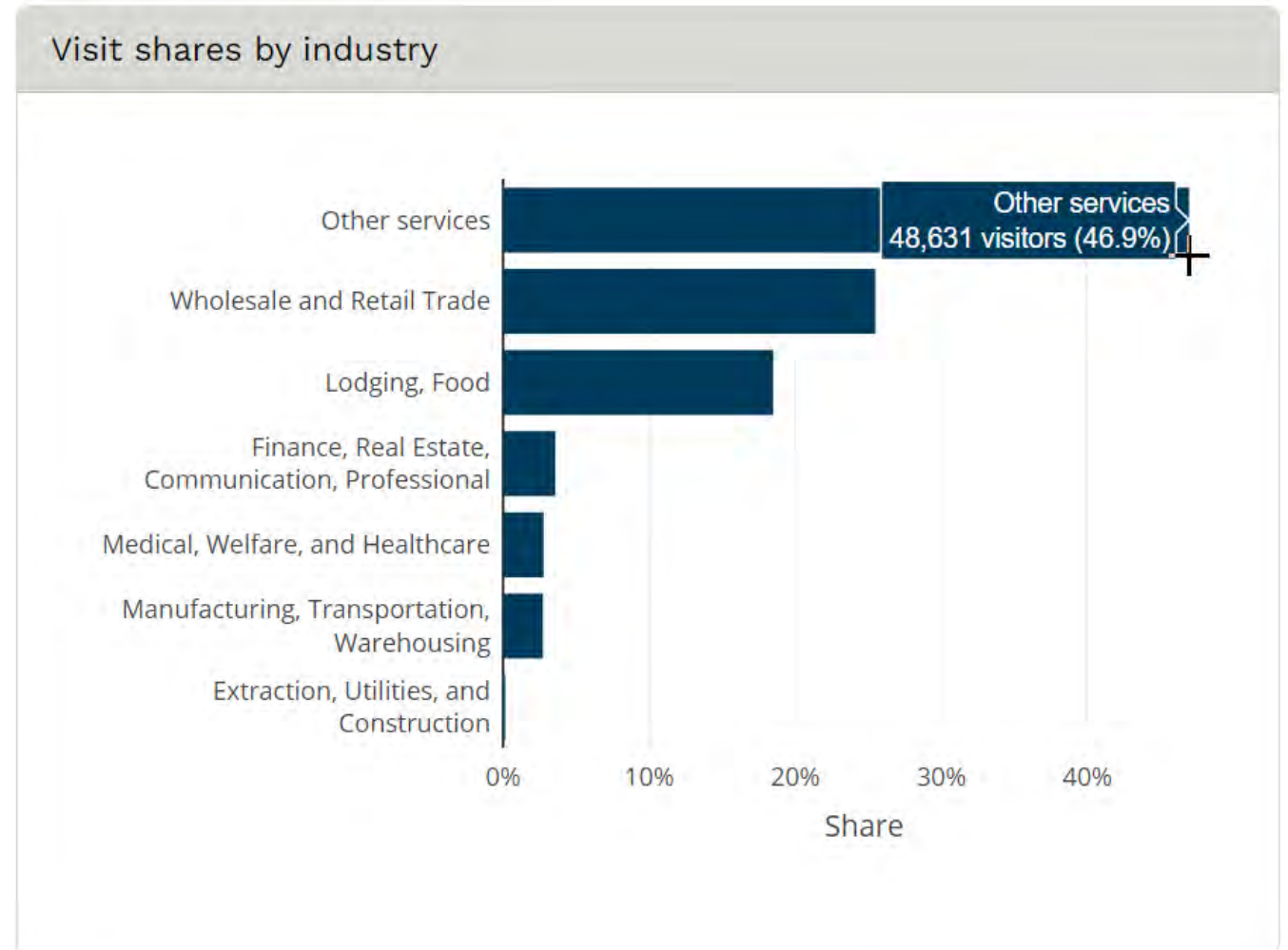
How far do people travel to places located on reservations?

- Map where tribe is located
- Radius of yellow circle is an approximation for how far people travel to places inside of reservation boundaries
- Blue bordered area are the boundaries of the reservation
- Flag is placed at the center of the reservation
- Reservation economies contributing to regional economies!



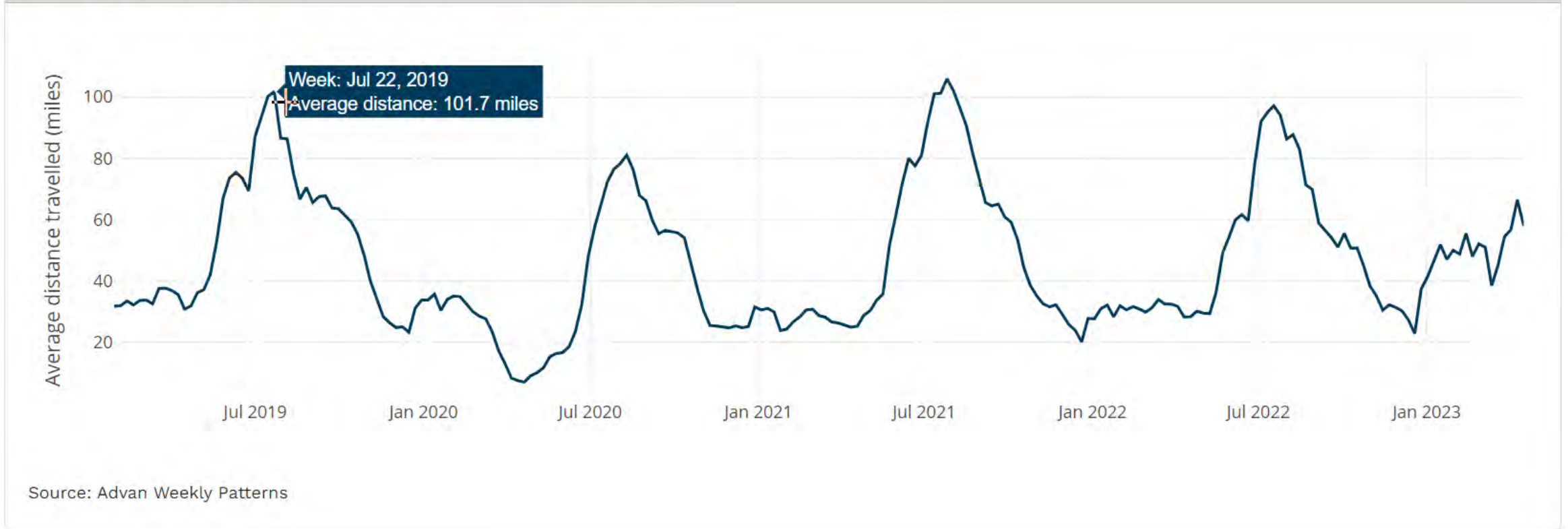
What type of places are people traveling to?

- Visit shares by industry reflect the fraction of visitors traveling to POIs in a particular type of industry
- Industries are based on 2-digit NAICS codes



Do distances traveled to places vary over time?

Average distance traveled to places of interest over time



Tribal Economic Zones

- Things to keep in mind...
 - Visits include on and off reservation residents
 - Customers to businesses, employees to organizations, etc...
 - Tribal Economic Zones describe one layer of the economy
 - It does not describe the flows of reservation residents to surrounding non-reservation areas
 - Native economies contribute in different ways to economies
 - Native-owned businesses operating outside of reservations
- Look forward to this product in the coming weeks at the following URL:
<https://www.minneapolisfed.org/indiancountry/resources>



THANK YOU

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