PCAST Reference Slides

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\$644

Annual average cost to Michiganders due to driving on roads in need of repair

20%

Monitored beaches have been closed for bacterial pollution

8.8 Billion

Annual gallons of untreated sewer overflows into Michigan waterways

43rd

Michigan's rank among States in power grid reliability

11.4%

(1,292 bridges) — Michigan bridges that are structurally deficient

33%

Percentage of Federal-Aid
Pavement in Poor Condition

50%

Rivers and streams in Michigan that exceed the water quality standards for E. coli **47%**

Percentage of Non-Federal-Aid
Pavement in Poor Condition

308,885

Community Water Services known to contain lead or likely to contain lead

EXHIBIT 3. Road Condition and Preservation



DAMS

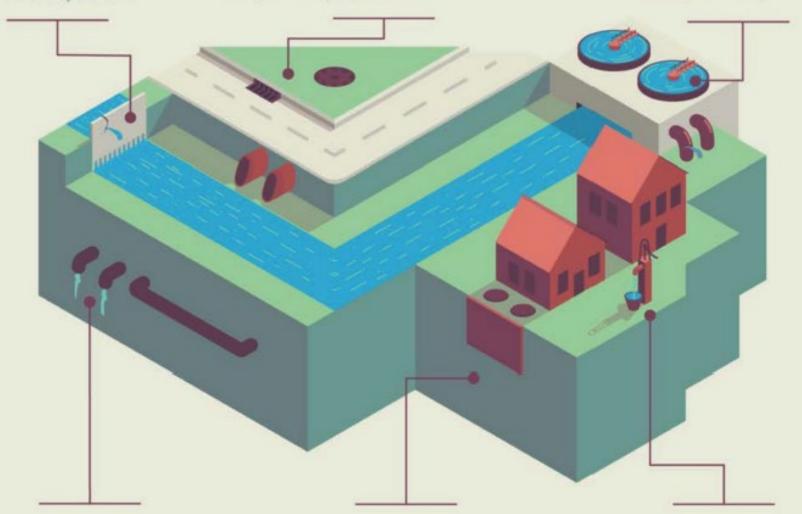
- Michigan has an estimated 2,600 dams, many of which were built decades ago.
- More than 10 percent of rated dams are in poor or unsatisfactory condition.

DRAINAGE SYSTEMS

- Drainage systems capture stormwater through open ditches, underground pipes, retention, and treatment systems to prevent flooding.
- 35,000 miles of county drains serve more than 17 million acres.
- Many communities lack sustainable funding mechanisms to support drainage systems.

MUNICIPAL WASTEWATER

- ▶ 1,080 community municipal wastewater treatment systems serve 70 percent of Michigan residents.
- Since 2008, an average of 5.7 billion gallons of untreated sewage flowed into Michigan waterways.



RAIL LINES ROADS NONMOTORIZED BRIDGES ► Michigan has more than 20,000 ► Approximately 3,600 miles of active rail lines ► Michigan has more than ► Michigan's 600 road miles of trails, including 2,700 carry 100 million tons of freight cargo. 11,000 bridges. agencies manage over 120,000 route miles. miles of rail trails supporting ► Ridership on passenger rail routes has ▶ 1,200 of the state's increased by nearly 40 percent in the last bridges are structurally ▶ 38 percent of Michigan transportation, recreation, and deficient or functionally roads are in poor tourism. ten years. ▶ While Michigan's nonmotorized ► The lack of passenger rail capacity and the condition. obsolete. options continue to grow, it is sharing of track between freight and still a patchwork system that can passenger trains restricts mobility and prevent safe connections economic development. between communities. PORTS ► The state's 33 active cargo ports and 112 cargo terminals TRANSIT AVIATION SOO LOCKS handle approximately 70 million tons of ► More than 70 local transit systems ► More than 38.4 million passengers are ▶ 67 million tons of cargo yearly. provide approximately 90 million served through Michigan airports each cargo travel ▶ For the past few passenger trips annually. through the Soo year. decades, many of ► Airports accommodate over 672.8 million ► Three intercity passenger rail routes serve Locks each year.

Prior to 1840	Gains fluctuating with losses, ending with 9,000 persons in Detroit, 103,000 in the total region most people live on farms.
1840 - 1900	Both city and region grow at a good rate. As manufacturing and trading economy rapidl expands, Detroit gains 277,000 (more than 30 times its 1840 population); region gains 479,00 (more than five times its 1840 total).
1900 - 1930	Rapid growth in both as automobile manufacturing booms. Detroit gains 1,283,000 person (a five-fold increase); region gains 1,800,000 (a four-fold increase).
1930 - 1940	Relatively little growth, due to economic stagnation, drop in birthrate, and limited residential construction during the Great Depression. Detroit gains 55,000 (four percent); region gains 232,00 (10 percent).
1940-1950	Economic recovery, World War II defense production, wartime restrictions slow non-defens construction, and post-war boom begins. Detroit's gain of 626,000 (a 14 percent increase comprises 86 percent of the total region's gain of 731,000 (a 28 percent increase).
1950 - 1970	Diverging trends. After reaching a peak population of 1,850,000 in 1950, Detroit's population begins to decline. The city has a net loss of 338,000 (seven percent), while the region gains 1,391,00 (42 percent).
1970 - 1990	Oil embargoes, global competition, and the severe recession of 1979-1982 hit hard, causin out-migration from region. Population losses in both areas. Detroit loses 484,000 (32 percent) region loses 146,000 (three percent).
1990 - 2000	Another divergence. Detroit population loss slows, but still is 77,000 (seven percent), while region gains 243,000 (five percent)