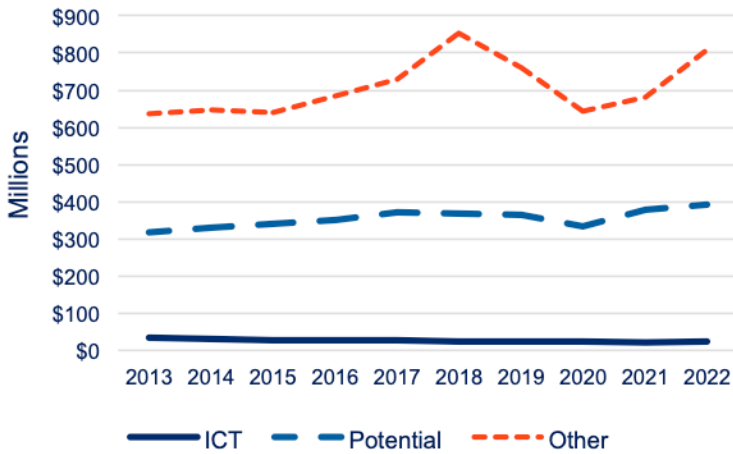




Michigan's 9th and Digital Trade

MI-9 Services Exports, 2013-2022



ICT services exports fell from \$33 million in 2013 to \$23 million in 2022 (-29%), but still supported 56 direct and 52 indirect jobs in 2022.

Potentially ICT-enabled services exports grew from \$317 million to \$391 million (23%), supporting 1,276 direct and 933 indirect jobs in 2022.

Exports of other services grew from \$635 million in 2013 to \$759 million in 2019 (20%), before falling sharply due to Covid-19. They have not yet fully recovered.

Michigan's 9th district's digitally tradeable services exports supported 1,332 direct and 985 indirect American jobs in 2022.

Top Markets for Digitally Tradeable Services from MI-9, 2022 (\$M)

| Country | ICT | Potential | Total |
|----------------------------|-------|-----------|-------|
| Europe | \$10 | \$191 | \$201 |
| Asia & Pacific (ex. China) | \$5.8 | \$76 | \$82 |
| North America | \$3.5 | \$56 | \$60 |
| Central & South America | \$2.5 | \$28 | \$30 |
| China | \$1.0 | \$21 | \$22 |
| Middle East & Africa | \$0.5 | \$19 | \$20 |

Europe was Michigan's 9th district's top market for digitally tradeable services, followed by Asia & Pacific (ex. China).

Michigan's 9th district's exports of potentially ICT-enabled services to Netherlands grew from \$9.1 million in 2013 to \$20 million (+123%) in 2022.

The "Digital Dozen" accounted for \$163 million out of Michigan's 9th district's \$414 million in exports of digitally tradeable services in 2022.

Top Digitally Tradeable Services Exports from MI-9, 2022 (\$M)

| Type (ICT in bold) | Total |
|--|-------|
| Royalties from Industrial Processes | \$100 |
| Architectural, Engineering, and Misc. Technical Services | \$84 |
| Business Management and Consulting Services | \$49 |
| Misc. Business, Professional, and Technical Services | \$43 |
| Payments for Trademarks | \$28 |
| Other | \$111 |

Computer software services are the top ICT services export, growing from \$10 million in 2013 to \$13 million in 2022 (21%).

Royalties from industrial processes are Michigan's 9th district's top potentially ICT-enabled services export, growing from \$73 million in 2013 to \$100 million in 2022 (36%).