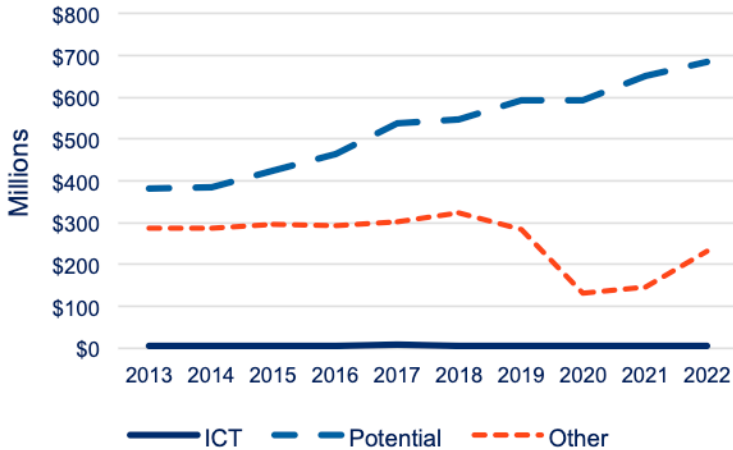




# Michigan's 4th and Digital Trade

MI-4 Services Exports, 2013-2022



ICT services exports fell from \$5.7 million in 2013 to \$5.2 million in 2022 (-9%), but still supported 16 direct and 11 indirect jobs in 2022.

Potentially ICT-enabled services exports grew from \$382 million to \$686 million (79%), supporting 1,736 direct and 1,248 indirect jobs in 2022.

Exports of other services declined from \$287 million in 2013 to \$283 million in 2019 (-1%), and then fell sharply due to Covid-19. They have not yet fully recovered.

**Michigan's 4th district's digitally tradeable services exports supported 1,753 direct and 1,260 indirect American jobs in 2022.**

Top Markets for Digitally Tradeable Services from MI-4, 2022 (\$M)

| Country                    | ICT   | Potential | Total |
|----------------------------|-------|-----------|-------|
| Europe                     | \$2.1 | \$424     | \$426 |
| Asia & Pacific (ex. China) | \$1.3 | \$134     | \$135 |
| North America              | \$0.9 | \$46      | \$47  |
| China                      | \$0.2 | \$35      | \$35  |
| Central & South America    | \$0.6 | \$33      | \$34  |
| Middle East & Africa       | \$0.1 | \$14      | \$15  |

Europe was Michigan's 4th district's top market for digitally tradeable services, followed by Asia & Pacific (ex. China).

Michigan's 4th district's exports of potentially ICT-enabled services to Singapore grew from \$13 million in 2013 to \$57 million (+349%) in 2022.

The "Digital Dozen" accounted for \$205 million out of Michigan's 4th district's \$691 million in exports of digitally tradeable services in 2022.

Top Digitally Tradeable Services Exports from MI-4, 2022 (\$M)

| Type (ICT in bold)                                   | Total |
|--|-------|
| Royalties from Industrial Processes                  | \$328 |
| Research and Development and Testing Services        | \$165 |
| Business Management and Consulting Services          | \$45  |
| Misc. Business, Professional, and Technical Services | \$37  |
| Payments for Trademarks                              | \$36  |
| Other  | \$80  |

Computer software services are the top ICT services export, growing from \$1.4 million in 2013 to \$4.6 million in 2022 (224%).

Royalties from industrial processes are Michigan's 4th district's top potentially ICT-enabled services export, growing from \$170 million in 2013 to \$328 million in 2022 (93%).