Michigan Economic Recovery Council

Governance

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Executive Chairman
DTE Energy

**Nancy Schlichting**
Retired CEO
Henry Ford Health System

Healthcare Advisory Group

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**John Fox**
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Chief Deputy Director – MI Dept. of Health & Human Services

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President & CEO – Munson Healthcare

**Ora Hirsch Pescovitz**
President – Oakland University

**Brian Peters**
CEO – Michigan Health & Hospitals Association

**Mark Schlissel**
President – University of Michigan

**Samuel Stanley, Jr.**
President – Michigan State University

**M. Roy Wilson**
President – Wayne State University
<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mary Barra</td>
<td>Chairman &amp; CEO, General Motors</td>
</tr>
<tr>
<td>Ron Bieber</td>
<td>President, Michigan AFL-CIO</td>
</tr>
<tr>
<td>Jeff Donofrio</td>
<td>Director, Michigan Department of Labor &amp; Economic Opportunity</td>
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<tr>
<td>Jay Farner</td>
<td>CEO, Quicken Loans</td>
</tr>
<tr>
<td>Jim Fitterling</td>
<td>CEO, Dow</td>
</tr>
<tr>
<td>Rory Gamble</td>
<td>President, UAW</td>
</tr>
<tr>
<td>Milan Gandhi</td>
<td>Med-Share &amp; Chairman, Small Business Association of Michigan</td>
</tr>
<tr>
<td>Ron Hall, Jr.</td>
<td>President &amp; CEO, Bridgewater Interiors</td>
</tr>
<tr>
<td>Jim Keane</td>
<td>President &amp; CEO, Steelcase</td>
</tr>
<tr>
<td>Rick Keyes</td>
<td>President &amp; CEO, Meijer</td>
</tr>
<tr>
<td>Blake Krueger</td>
<td>Chairman, President &amp; CEO, Wolverine World Wide</td>
</tr>
<tr>
<td>Ryan Maibach</td>
<td>President, Barton Malow</td>
</tr>
<tr>
<td>Andi Owen</td>
<td>President &amp; CEO, Herman Miller</td>
</tr>
<tr>
<td>Ray Scott</td>
<td>President &amp; CEO, Lear</td>
</tr>
<tr>
<td>Gary Torgow</td>
<td>Chairman, TCF Financial</td>
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</tbody>
</table>
Framework for making return to work decisions

Critical industries only
Selective reopening, but only if disciplined best practices certified
Essentially all segments open (with certain high-risk exceptions) with best practices in place

Workplace Risk
High
Medium
Low

Pandemic Risk
Urgent
Recovery
Stabilizing

All segments open with best practices in place
Consider reopening essentially all low-risk segments
Consider reopening segments with extremely low risk
All segments open

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Framework for making return to work decisions
### Michigan Economic Recovery Council Reporting Regions

<table>
<thead>
<tr>
<th>MERC Regions</th>
<th>Population</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Detroit Region</td>
<td>5,243,543</td>
<td>52.5%</td>
</tr>
<tr>
<td>2 Grand Rapids Region</td>
<td>1,535,115</td>
<td>15.4%</td>
</tr>
<tr>
<td>3 Kalamazoo Region</td>
<td>964,202</td>
<td>9.7%</td>
</tr>
<tr>
<td>4 Saginaw Region</td>
<td>606,319</td>
<td>6.1%</td>
</tr>
<tr>
<td>5 Lansing Region</td>
<td>591,102</td>
<td>5.9%</td>
</tr>
<tr>
<td>6 Traverse City Region</td>
<td>445,159</td>
<td>4.5%</td>
</tr>
<tr>
<td>7 Jackson Region</td>
<td>302,566</td>
<td>3.0%</td>
</tr>
<tr>
<td>8 Upper Peninsula</td>
<td>298,851</td>
<td>3.0%</td>
</tr>
</tbody>
</table>

Total Michigan: 9,986,857 (100.0%)

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1. Containment differs by region and ranges from ~90% containment in region 1 and ~60% containment in region 5
Cases for MERC Region

Daily case doubling rate (in days)\(^1\)

<table>
<thead>
<tr>
<th>Michigan</th>
<th>Region 1</th>
<th>Region 2</th>
<th>Region 3</th>
<th>Region 4</th>
<th>Region 5</th>
<th>Region 6</th>
<th>Region 7</th>
<th>Region 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

1. Day 0 represents the point at which a region first reached 10 cases. Last statewide case doubling data represents day 41

\(^1\) The daily case doubling rate is calculated as the number of days it takes for the number of cases to double.
The key indicators of readiness for economic restart

| Flatten the curve | Epidemic spread | A | Density and trajectory of spread  |
|                  |                | B | Community exposure / immunity     |
| Safely diagnose  | Healthcare      | A | Critical personnel                |
| and treat patients| system capacity | B | Beds                               |
|                   |                | C | Ventilators                        |
|                   |                | D | PPE                                |
| Track and         | Public health   | A | Infrastructure contact tracing     |
| isolate contacts  | capacity        | B | Effective isolation / quarantine   |
Michigan’s labor force by workplace

- **Office**: 29%
- **Industrial**: 19%
- **Healthcare**: 13%
- **Retail**: 12%
- **Restaurant & Lodging**: 8%
- **Schools**: 6%
- **Construction**: 4%
- **Outdoor**: 4%
- **Other**: 4%

Workers are tied to other workplace types
- Large, medium and small industrial
- Hospital and outpatient healthcare
- Big box and smaller retailers
- From large chains to single proprietors
- K-12 and Higher Education
- Commercial and residential construction
- A range of outdoor occupations
- A wide variety of smaller jobs/facilities
## Occupation specific transmission risk boils down to...

### Worker interaction
- Interaction with general public *(sustained or intermittent)*
- Contact with fellow coworkers in normal course of work
- Shared tooling / machinery

### Workplace characteristics
- Indoor / Outdoor
- Number of workers
- Worker density *(number per square foot active workspace)*
- Required travel
- Basic industrial hygiene *(sanitation facilities, airflow, etc.)*

### Worker type
- Demography
- Preexisting conditions
- Contact outside of work
- Transit options
- Immunity
Workplace best practices have been rapidly developed for the 9 workplace types

Best-practice risk mitigation strategies fall into five buckets

<table>
<thead>
<tr>
<th>Access control</th>
<th>Social distancing</th>
<th>Sanitation / Hygiene</th>
<th>PPE</th>
<th>Contact tracing / Isolation</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Daily “symptom diaries” <em>(mandatory questionnaires concerning symptoms)</em></td>
<td>• Remote work standards</td>
<td>• Frequent disinfection / cleaning of facilities and equipment</td>
<td>• Masks</td>
<td>• Investigation standards</td>
</tr>
<tr>
<td>• On-site temperature checks</td>
<td>• Restrictions on common areas like cafeterias, break rooms and conference rooms</td>
<td>• Availability of handwashing facilities</td>
<td>• Gloves</td>
<td>• Isolation protocols</td>
</tr>
<tr>
<td>• Rapid diagnostic testing protocols</td>
<td>• Restrictions on in-person meeting size</td>
<td>• Restrictions on shared tooling / machinery</td>
<td>• Face shields</td>
<td>• Notification protocols <em>(HR, first responders, government authorities)</em></td>
</tr>
<tr>
<td>• Intake procedure for visitors</td>
<td>• Physical barriers between workspaces</td>
<td>• HEPA filters on HVAC units</td>
<td>• Gowns</td>
<td>• Quarantine and return-to-work guidelines</td>
</tr>
<tr>
<td>• Guidelines for delivery areas</td>
<td>• Restrictions on travel and non-essential external meetings</td>
<td>• Local exhaust ventilation</td>
<td></td>
<td>• Facility cleaning / shutdown procedure</td>
</tr>
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Contact tracing / Isolation

- • Investigation standards
- • Isolation protocols
- • Notification protocols *(HR, first responders, government authorities)*
- • Quarantine and return-to-work guidelines
- • Facility cleaning / shutdown procedure
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