

Midwest Alliance for Clean Hydrogen (MachH2)

MachH2 Overview and Opportunities

Project ID: OCED003



MIDWEST ALLIANCE FOR CLEAN **HYDROGEN**

Delivering on the Promise of U.S. Department of Energy's Clean Hydrogen Hub Program

May 2024

Agenda

- I. MachH2 four pillars
- II. Midwest Resources and Infrastructure
- III. MachH2 proposed project overview/locations
- IV. Demand Sectors
- V. Regional Impact
- VI. Investment in American Workforce and DEIA
- VII. Inclusive Entrepreneurship
- VIII. Staying Connected

The MachH2 Hub is Founded on 4 Pillars

PILLAR 1

a core of **nuclear, renewable, and natural gas** with **carbon capture** for safe clean hydrogen production to support decarbonization in the Midwest

PILLAR 2

a leading **transportation corridor** with a concentration of agriculture, manufacturing, industrial sectors

PILLAR 3

financially strong project sponsors with demonstrated **management and operational excellence**, bringing a robust governance structure that enables a **single, integrated hub**

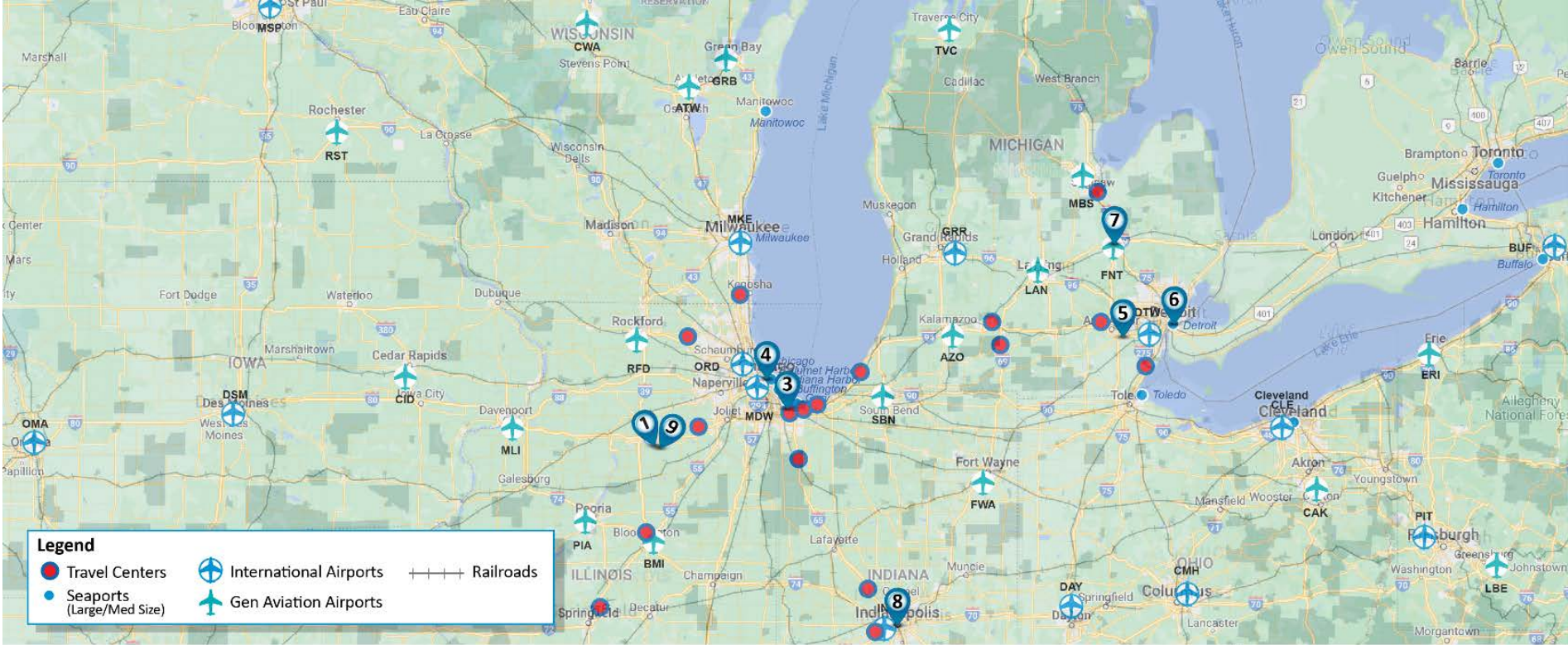
PILLAR 4

Holistic approach to CBP where EJ opportunities supporting **quality jobs and entrepreneurship** in DACs at regional project sites

Accelerating the nation's clean hydrogen energy transformation with a market-driven, regional approach

MachH2 Resources and Infrastructure

- Great Lakes & Rivers
- Major Transit & Pipeline Hub
- 6 Class A Rail Lines
- 6 Major Airports



Projects

Projects to Establish and Integrate the Regional H2 Hub

- 1 Nuclear-Powered Electrolysis**
Constellation Energy
- 2 Liquid H2 to Decarbonize
Midwestern Logistics**
Invenergy and Air Liquide
- 3 Northern Indiana Clean H2 Node**
bp
- 4 SWITCH – Solutions Working
to transform Industry and
Transportation to Clean H2**
GTI Energy

Projects to Decarbonize Midwestern Transportation Corridors

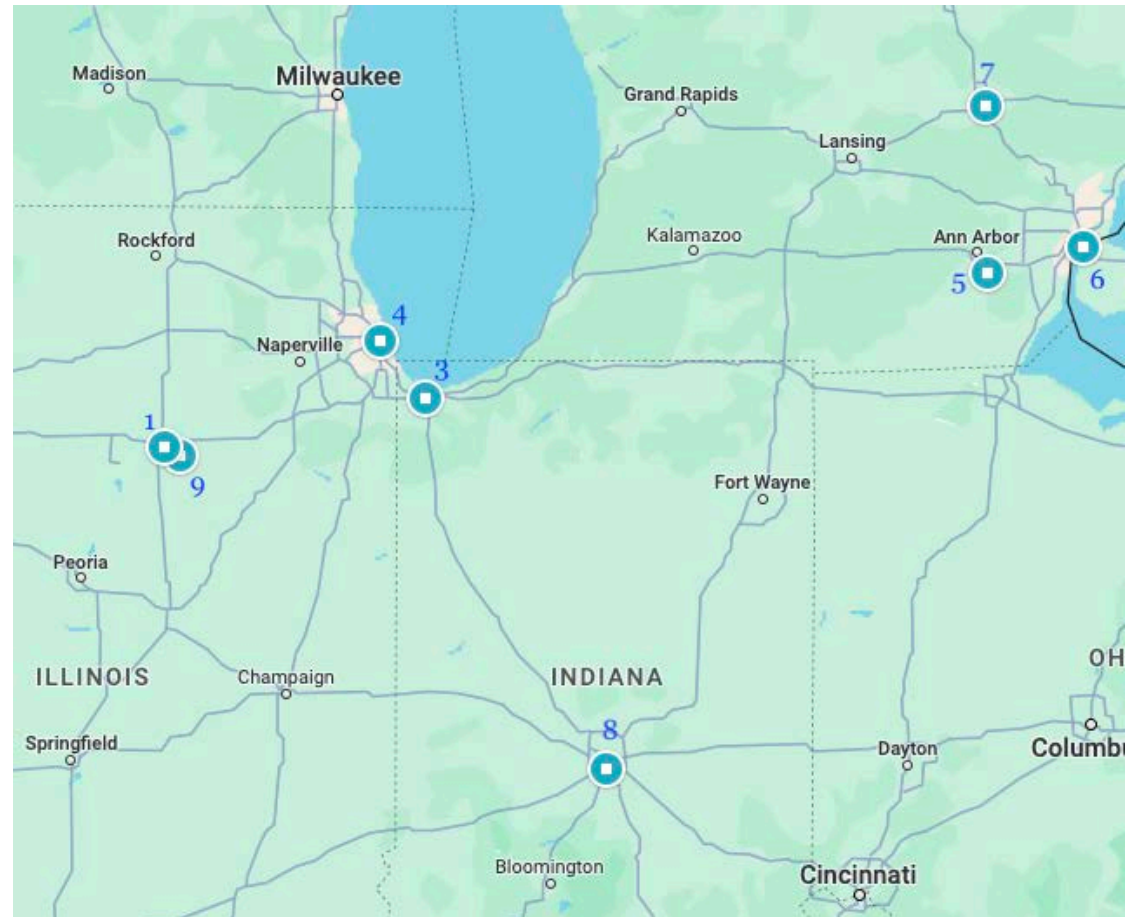
- 5 H2 for MI Freight and Transit**
American Center for Mobility
(ACM)
- 6 H2 Truck Stop of the Future**
Michigan Infrastructure Office
(MIO)
- 7 H2 Fueling Station Expansion**
Mass Transportation Authority
(MTA)
- 8 Midwest Mobility Project**
Midwest Hydrogen Corridor
Coalition, LLC (MHCC)

Projects to Decarbonize Industrial Processes and Products

- 9 H2 Pipeline Distribution and
End Use**
Nicor Gas

Information accurate as of August 7, 2023, note that project 2 location TBD

MH2_134



Midwestern High-Impact Demand Sectors



Regional Impact to Communities

1,210

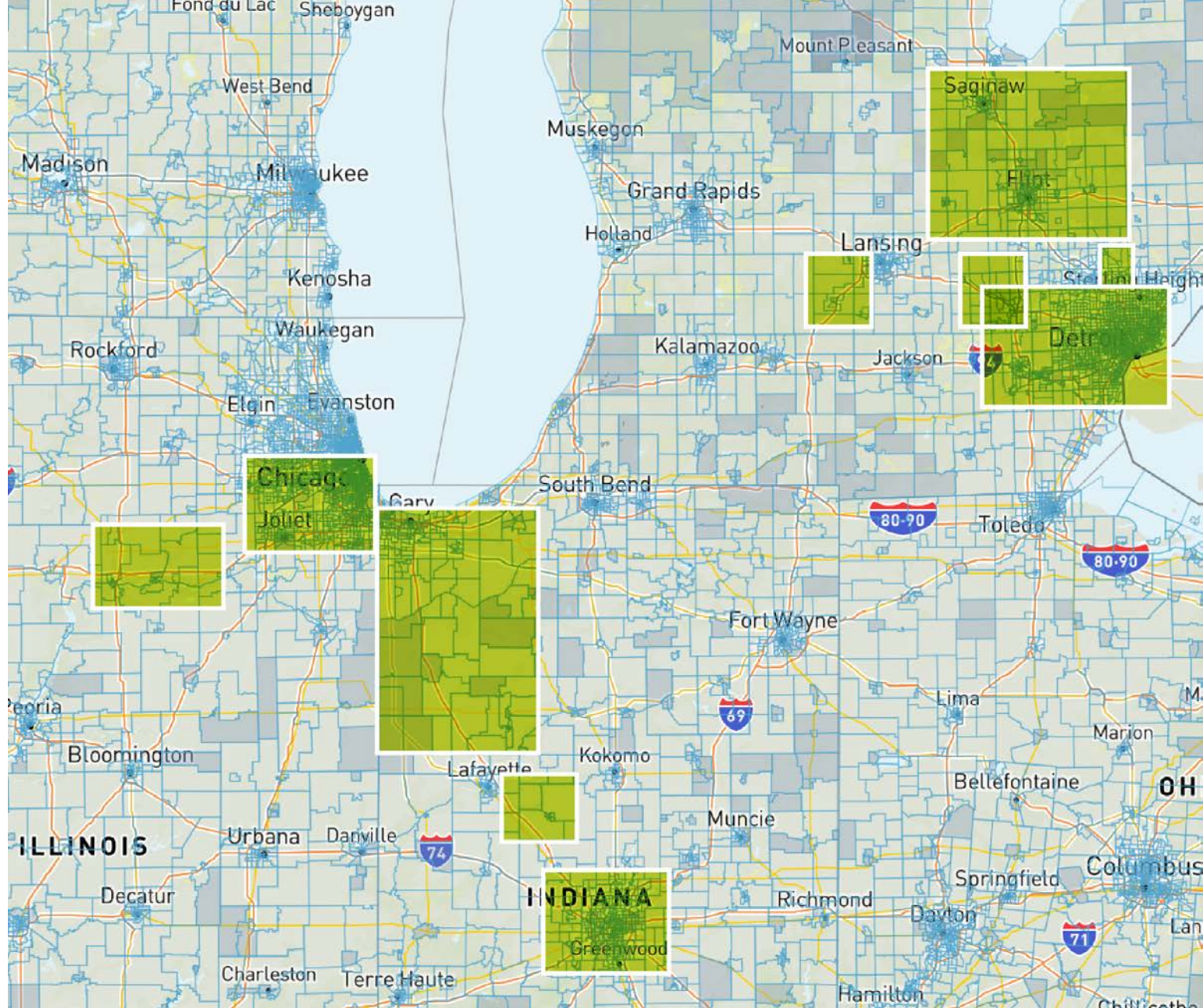
DACS and Tribal Areas

3.8M

People Living In DACs and Tribal Areas

3.9M

MT CO₂,e/year emissions avoidance by MachH₂ Hub Projects



Information accurate as of August 7, 2023

Investing in the American Workforce and DEIA

MachH2 anticipates the creation of thousands of jobs

Plan to invest
\$15M
in wrap-around services to support local workers

Long-term career pathways in engineering, design, procurement, supply chain, construction, installation, operations, maintenance, and safety.



Inclusive Entrepreneurship

Minority, Women, Disabled
& Veteran-Owned SMBs
Opportunities

Heavy transport



Chemical
Manufacturing



Warehousing



Community
backup hubs



Commercial
buildings



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Approximately
\$30M
for new start-ups
through an
inclusive
entrepreneurship
program
(focusing on
M/DBEs)

Stay Connected

MachH2.com

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