

House Natural Resources and Outdoor Recreation Michigan PFAS Action Response Team (MPART) June 10, 2021

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&

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Agenda

- Overview of PFAS
- Overview of MPART
- MPART Response
- MPART Accomplishments
- MPART Updates
- MPART: Public Health Actions

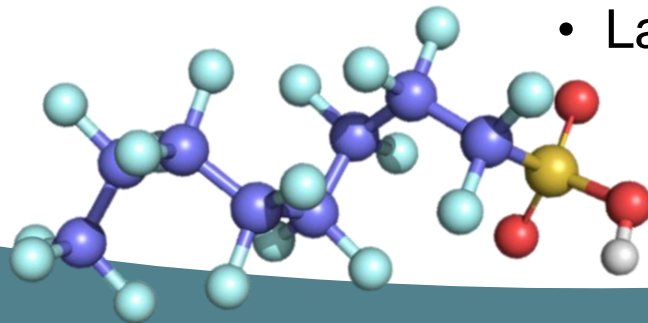
Per- and Polyfluoroalkyl Substances (PFAS)

What are they?

- Strong Carbon-Fluorine Bonds
- Surfactants
- Highly Stable
- Repel Water, Oil, Fat, and Grease
- Began Developing in 1940s
- 5,000+ Compounds Today

Why the Concern?

- Widespread through the ecosystem
- Don't Break Down Easily - Hard to Get Rid of
- Bioaccumulative – Build Up in Our Bodies
- Some PFAS May Affect Health
- Some emerging science/information
- Lack of Federal Standards



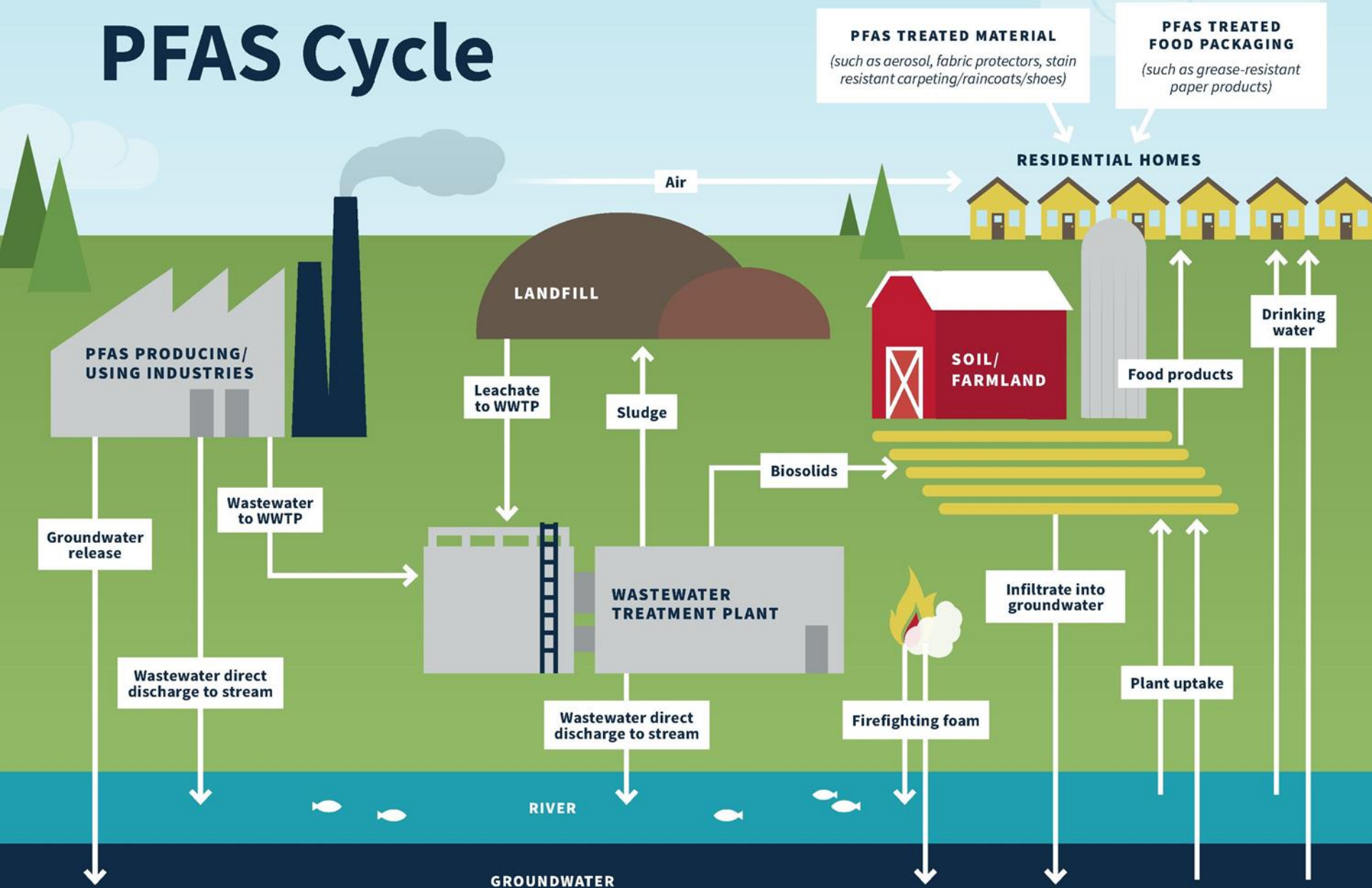
PFAS Uses



<https://www.sixclasses.org/videos/pfas>

Complexity of PFAS in Our Environment

PFAS Cycle



MPART Coordination Structure

MPART Members

Michigan Department of Environment, Great Lakes, and Energy (EGLE)

Michigan Department of Health and Human Services (DHHS)

Michigan Department of Agriculture and Rural Development (MDARD)

Michigan Department of Natural Resources (DNR)

Michigan Department of Transportation (MDOT)

Michigan Department of Licensing and Regulatory Affairs (LARA)

Michigan Department of Military and Veterans Affairs (DMVA)

Governor's Office
Environmental Policy Advisor

MPART
Executive Director

Science Advisory Workgroup

Local Health Department Advisory Council

Citizens Advisory Workgroup

Treatment Technology Roundtable

Legislative / Policy

Communications

Budget

MPART
Representatives

Operations
Manager

PFAS
Regional
Team
Leads

PFAS
Site
Leads

PFAS Technical Advisory Workgroup

Topical Workgroups

Air Quality (EGLE)

Biosolids (EGLE)

Groundwater (EGLE)

Landfills (EGLE)

Surface Water (EGLE)

Wildlife (DNR)

Airports (MDOT)

Drinking Water (EGLE)

Human Health (DHHS)

Military Installations (DMVA)

Treatment Technology (EGLE)

Animal Health & Food Safety (MDARD)

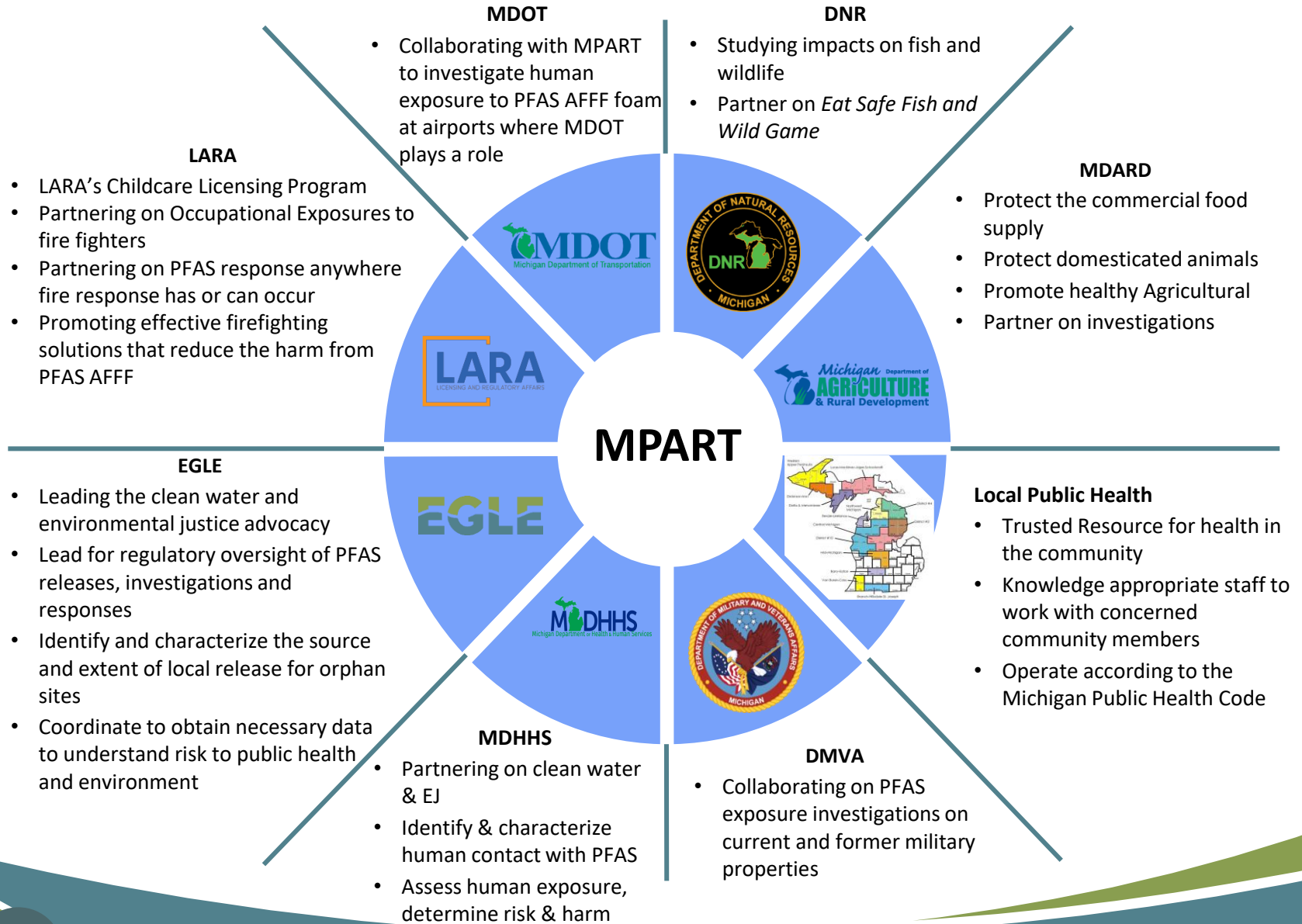
Fire Stations (LARA)

Lab Standards (EGLE)

Pollution Prevention (EGLE)

Wastewater (EGLE)

MPART Coordination of Roles



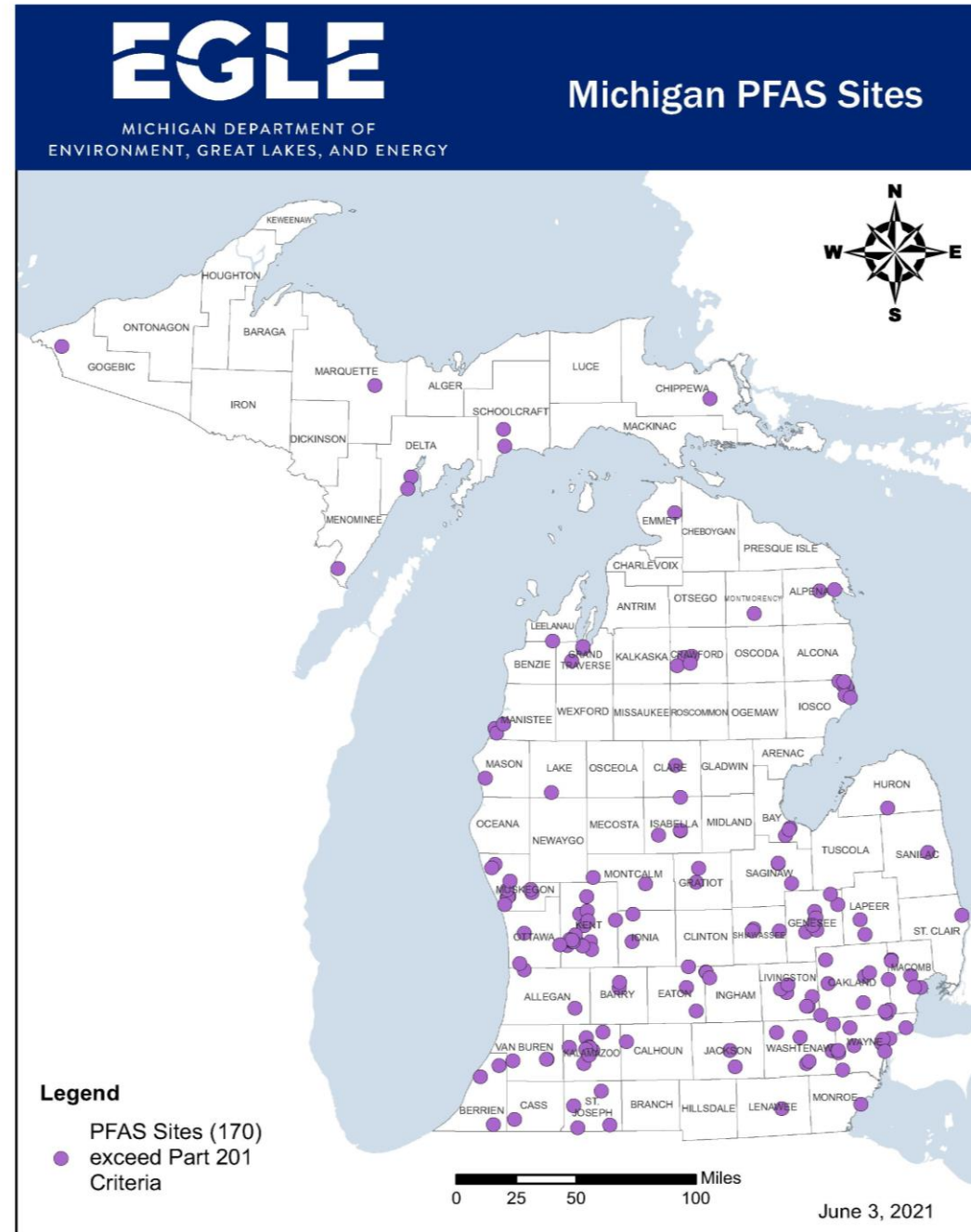
MPART Accomplishments



- Sampling of all 2700 public water supplies
- Maximum Contaminant Levels (MCLs) Drinking Water Standards
- Groundwater Clean-up Criteria
- Aqueous Film Forming Form (AFFF)
 - 51,404 gallons collection and disposal
- Investigations at 170 confirmed sites
- Conducting exposure and health studies

Michigan PFAS Sites

- Prioritized Investigations Based on Known or Suspected Sources, Potential for Exposure
- Protect People from PFAS in Drinking Water Pathway
- Multiple Other Investigations Underway





Aqueous Film Forming Foam (AFFF)

- Class B AFFF for hydrocarbon fires
- Major source of PFAS contamination
 - Military sites
 - Airports
 - Refineries
 - Fire Departments
- State Fire Marshal
 - Surveyed fire departments
 - Developed best practices



Prevention

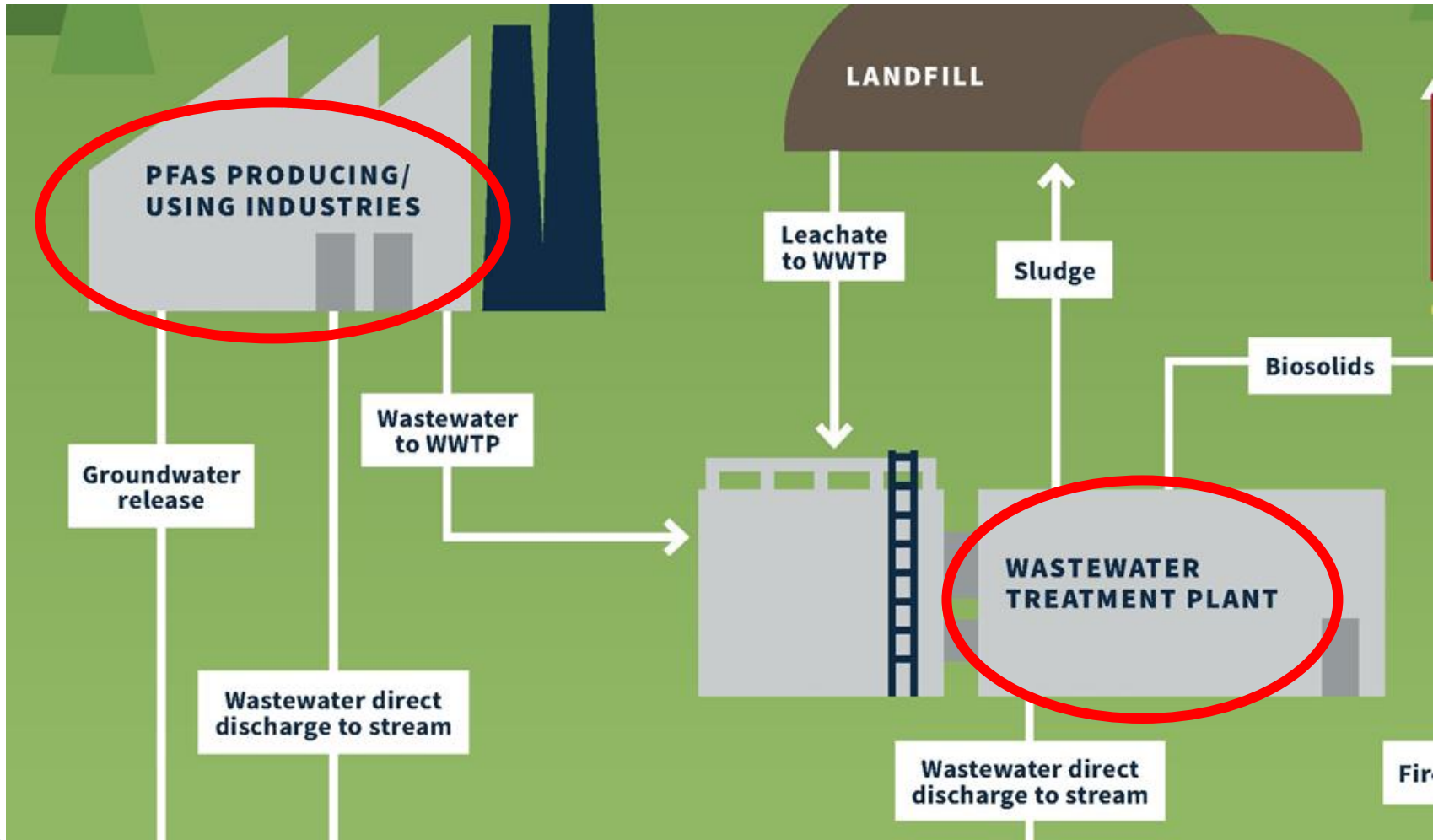
- State AFFF collection and disposal
 - 51,404 gallons
 - \$1.0 million
- **Legislation regulating AFFF**
 - Prohibits use in training
 - **Requires reporting for use**
 - Requires firefighter education
 - AFFF collection and disposal
- Research of “Fluorine Free Foams”
 - No National policy



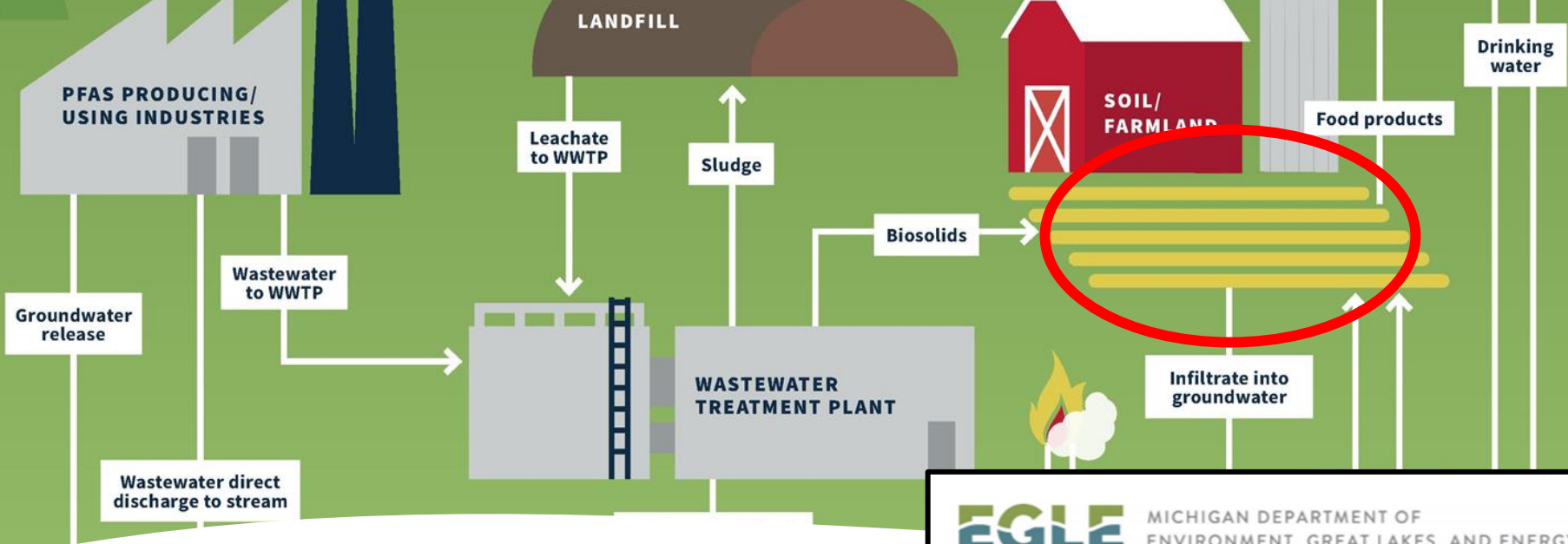
Airports Investigations for AFFF

- 19 Grants were given to Airports around the State for investigation of potential AFFF contamination
- **Precautionary Residential Drinking Water sampling** being done around several airports by EGLE including:
 - Lansing Capital Airport
 - Pontiac-Oakland International Airport
 - Former Marquette County Regional Airport – Negaunee
 - Gogebic-Iron County Airport

Wastewater Treatment Plants & Industrial Pretreatment Program



Eliminating PFAS at their industrial sources



Biosolids Interim Strategy

Implementing a science-based approach to ensure the MPART is protective biosolids while federal standards are developed.

EGLE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

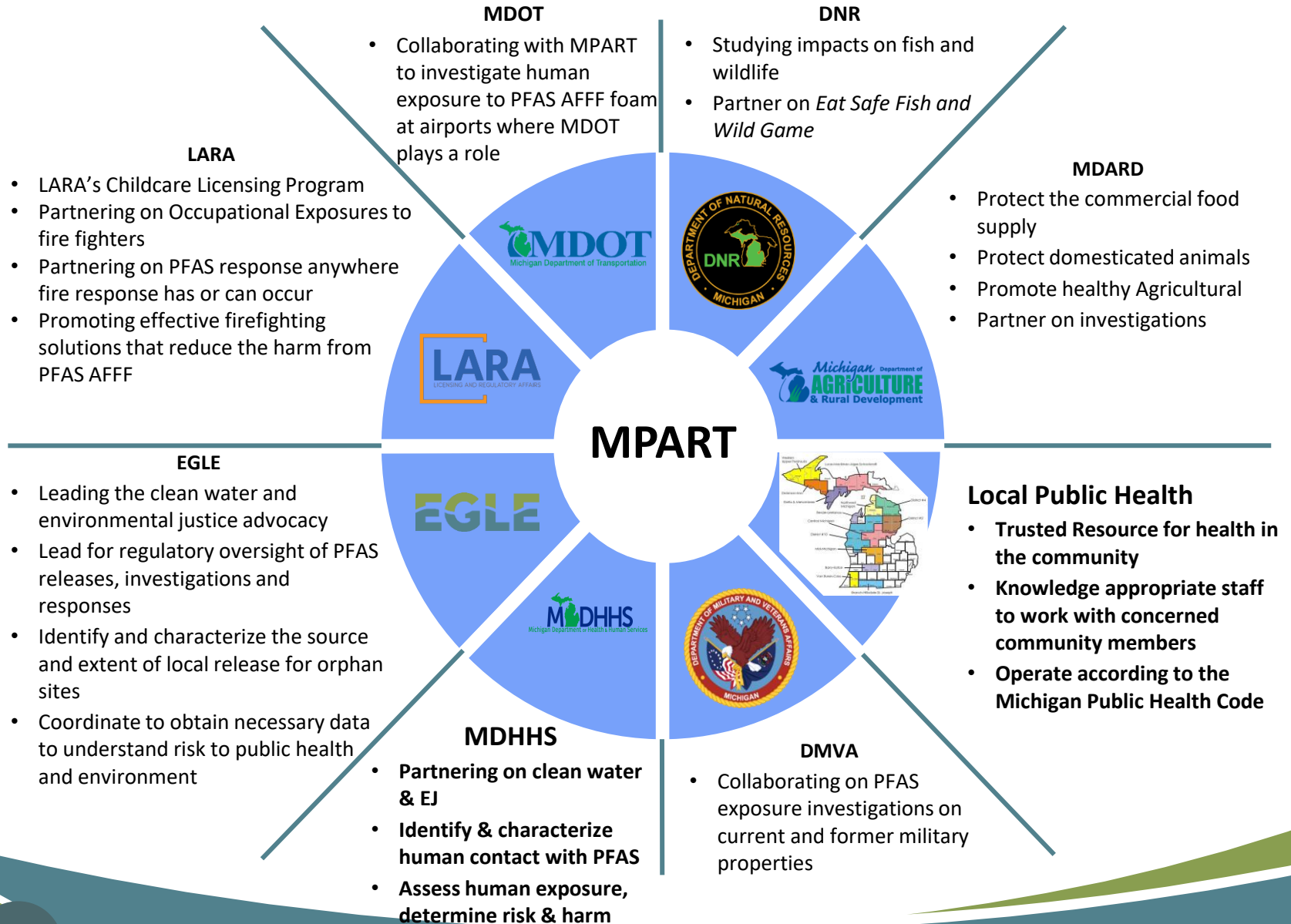
LAND APPLICATION OF BIOSOLIDS CONTAINING PFAS

Interim Strategy

March 2021

EGLE, WATER RESOURCES DIVISION
800-662-9278 | Michigan.gov/EGLE

Protect and Promote Public Health (Act 368 MCL 333)





MPART's Role in Citizen PFAS Questions

Health Impacts:

- Am I or was I exposed to the locally released PFAS?
- Is PFAS from that release in my body?
- Will I or my loved ones get sick from this PFAS exposure?

Immediate Actions:

- What do I do for my family tonight?
- Can I drink my water tonight?
- Can I eat those fish I caught?
- Should I eat the produce from my garden?
- Can my children swim in the lake?
- Can my children play in the back yard?
- Is the water at the school safe to drink?

Community Response

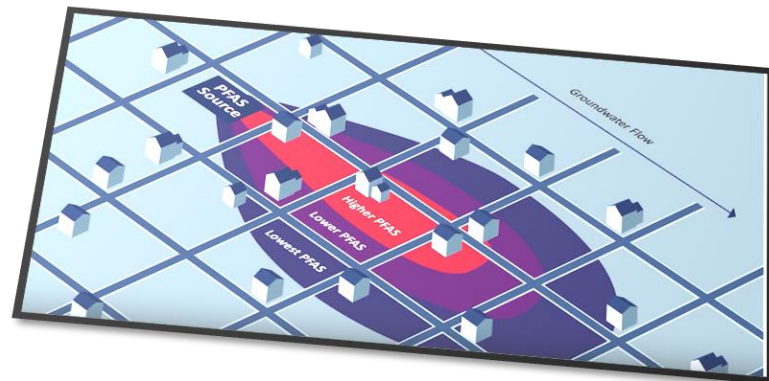
Initial PFAS Discovery



Expand Testing



Determine Location



Maximum Information

Minimal Information

Time Investigations

Community Response

Transparent and Early Notification to the potentially at-risk community members. (e.g., advisories)

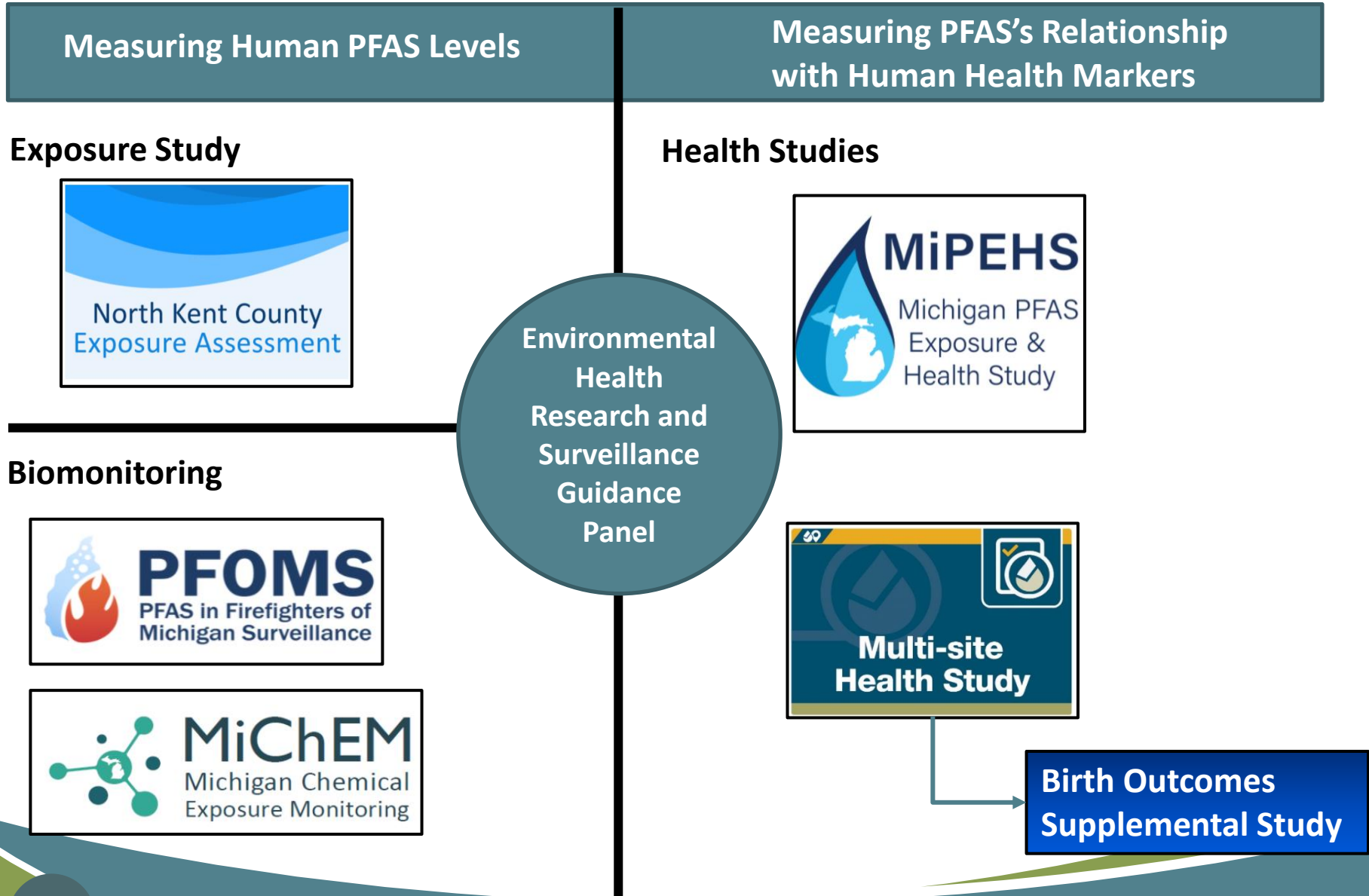
Interim Response Action (e.g., water testing & filters) to prevent exposure to PFAS hazards while MPART works to achieve final solutions.



Health Education and Community Engagement so individuals can make informed decisions based on the best available science.

Public Health Investigations into exposure, risk and harm.

Public Health Strategy – Investigative Approach



MPART Focus Areas



Continue to build on MPART success by:

- Continued path towards Part 201 Promulgation of groundwater cleanup criteria
- Information for Residential Well Owners
- Continued investigations at airports
- Review Fire Departments and Regional Fire Training Centers
- PFAS Summit to continue work on PFAS treatment technology

SAVE THE DATE: DECEMBER 6- 10TH



Great Lakes

VIRTUAL

PFAS SUMMIT

2021 GREAT LAKES PFAS SUMMIT - CALL FOR ABSTRACTS

Call for Abstract link: https://www.michigan.gov/egle/0,9429,7-135-3308_3333-560186--,00.html **Abstracts Due June 27th**

MICHIGAN PFAS ACTION RESPONSE TEAM (MPART)

www.Michigan.gov/PfasResponse

EGLE

MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

