### Michigan's Infection Control Educational Collaborative for Better Health Outcomes (MI-ECHO)

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Infection Prevention Resource and Assessment Team

### Disclosure:

The Michigan Department of Health and Human Services will not exclude from participation in, deny benefits of, or discriminate against any individual or group because of race, sex, religion, age, national origin, color, height, weight, marital status, partisan considerations, or a disability or genetic information that is unrelated to the person's eligibility.

The authors of this presentation have no conflicts of interest to disclose.

## Objectives

- Need for program
- Framework/methodology
- Project steps and timeline
- Program implementation
- Lessons learned

# Methodology

Define	<ul> <li>Identify problems and goals</li> <li>Identify external stakeholder needs</li> <li>Establish timeline</li> <li>Recruit team members</li> </ul>
Measure	<ul> <li>Process measures</li> <li>Outcome measures</li> <li>Establish targets</li> </ul>
Analyze	<ul> <li>Creating best design for program</li> <li>Strategizing: Process mapping</li> </ul>
Improve	<ul> <li>Roadmap development</li> <li>Education</li> <li>Practical training</li> </ul>
Control	<ul><li> Program evaluation</li><li> Ongoing support</li></ul>

**Congregate Care Settings** 

Historically under-resourced and struggle to prepare for and respond to infectious health threats

From 2013-2017, 82% of CMS-inspected nursing homes had an infection prevention and control deficiency

From 2020-2022, >200,000 residents and staff of nursing homes died from COVID-19 Infection prevention programs are understaffed and often have multiple roles

There have been steps made recently to improve these issues.

# The Biden-Harris Administration (2022) announced reforms that will ensure:

- every nursing home provides enough staff who are adequately trained to provide high-quality care;
- poorly performing nursing homes are held accountable for improper and unsafe care and immediately improve their services or are cut off from taxpayer dollars; and
- the public has better information about nursing home conditions so that they can find the best available options.

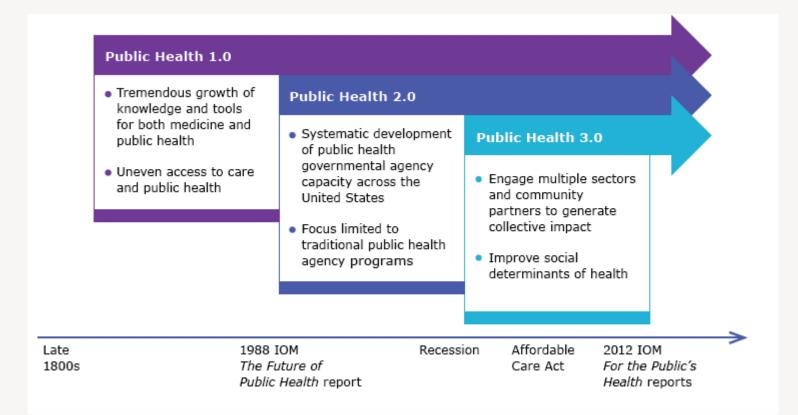
- U.S. Government Accountability Office (2022) released further recommendations for CMS:
- Establish minimum IP training standards
- Determine if the current IP staffing requirement is sufficient
- Provide additional guidance in the State Operations Manual on how to assign citations based on scope and severity for IP-related deficiencies

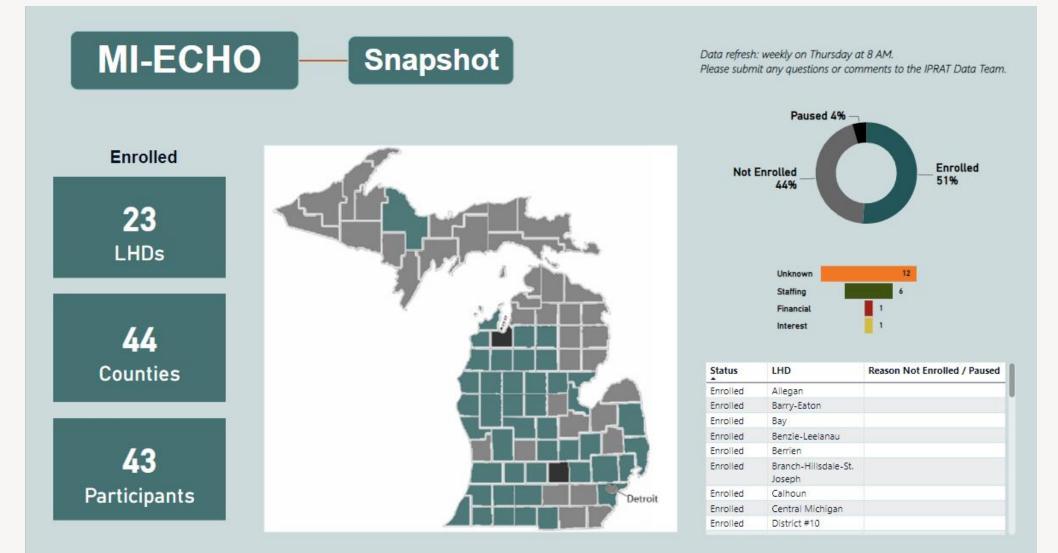
Supporting our Congregate Care Settings

Nursing facilities encounter many challenges in effectively implementing and maintaining infection prevention programs:

- Residents often frequent common areas, therefore increasing the risk of pathogen transmission.
- Post-acute care residents often have higher acuity medical problems, with more medical devices, wounds, hospital stays, and antibiotic use compared with other LTC residents.
- Nursing facilities encounter many challenges in effectively implementing and maintaining infection prevention programs.

### Local Health Departments & Public Health



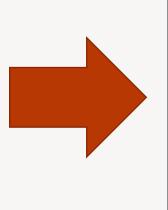


## Funding

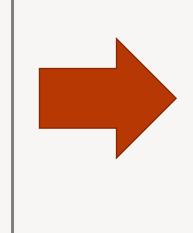
• ELC Contact Tracing, Investigation, Testing Coordination, and Infection Prevention award for the Fiscal Year 2023

## How?

Education and support from MI-ECHO Program

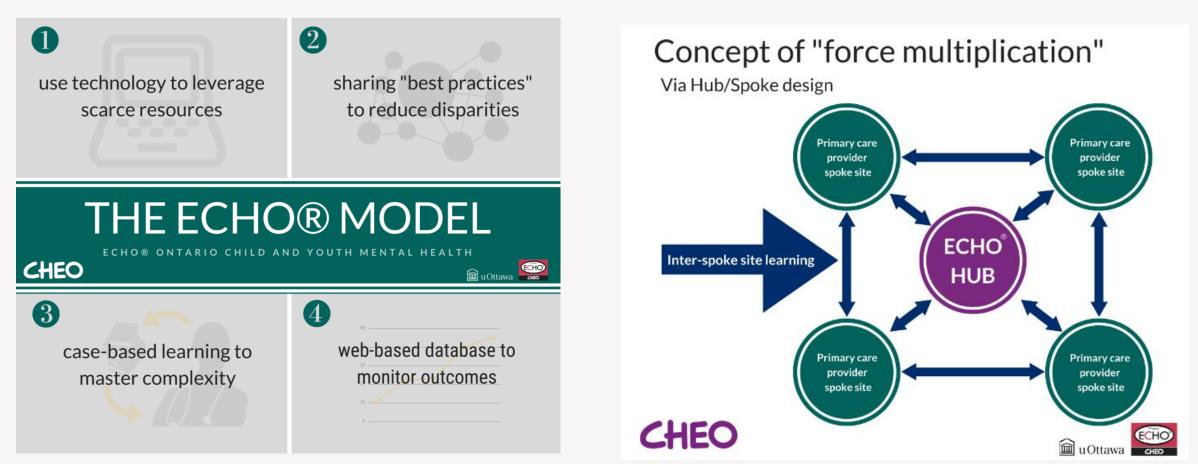


Increase infection prevention subject matter expertise



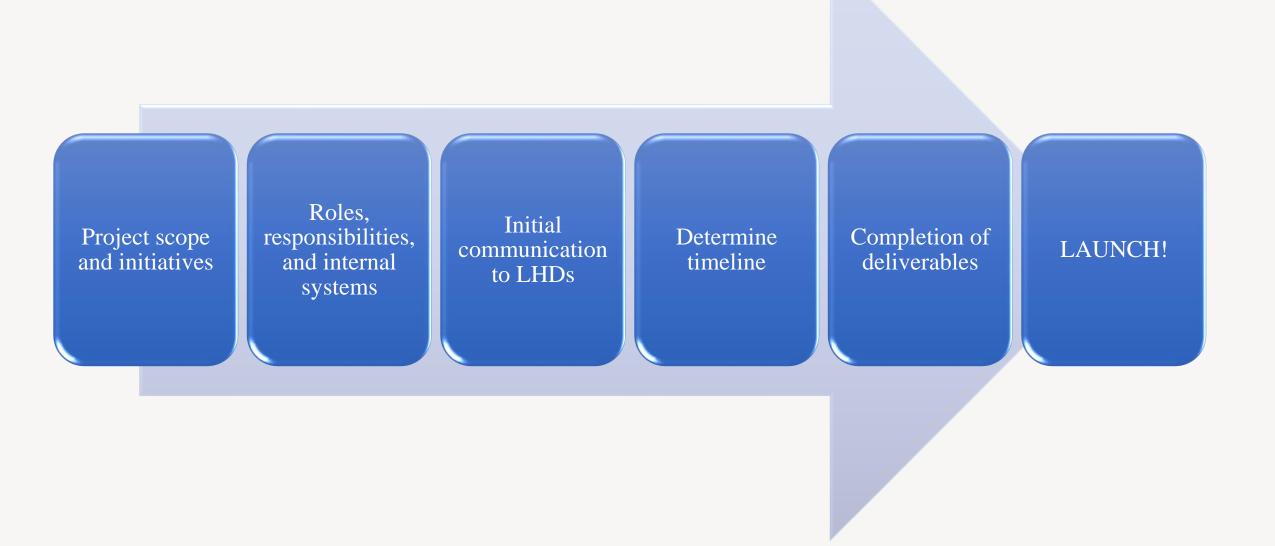
Support and strengthen infection prevention programs in congregate care settings

## Framework

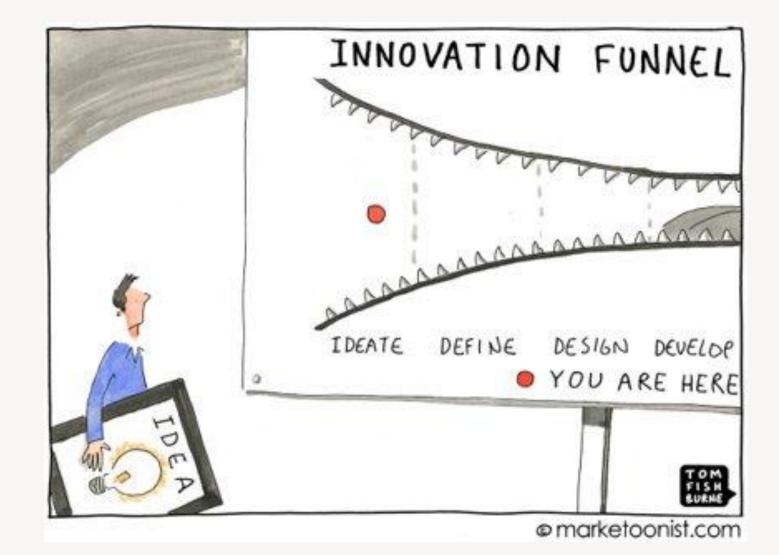


\*Primary care in these instances are LHDs not primary care, and the ECHO HUB are the IPRAT and SHARP teams.

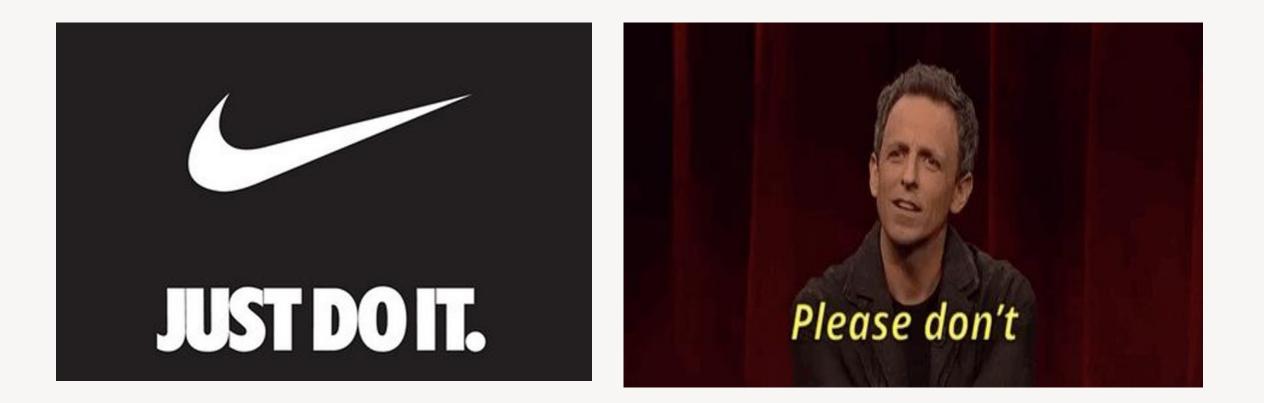
## **Steps and Timeline**



## How it Started – Goals and Vision



## What comes next then?





## Brainstorming

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# Categorizing









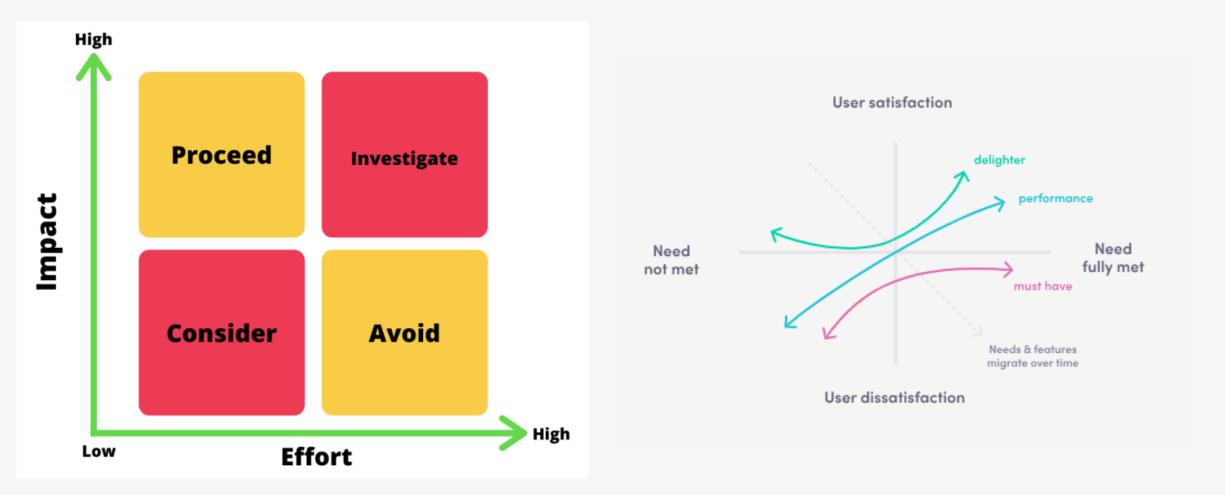
Clients (internal/external) Services/Deliverables

**Internal Processes** 

People and Knowledge Assets

Financial (N/A in this project)

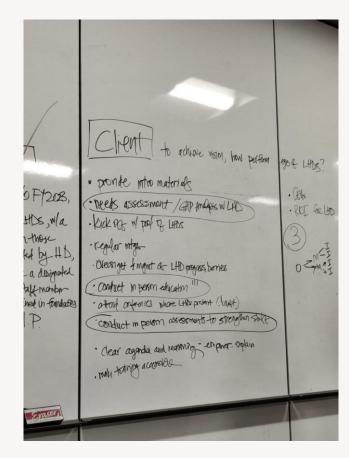
## High Effort/Low Effort vs. High Impact vs. Low Impact



## **Prioritization**

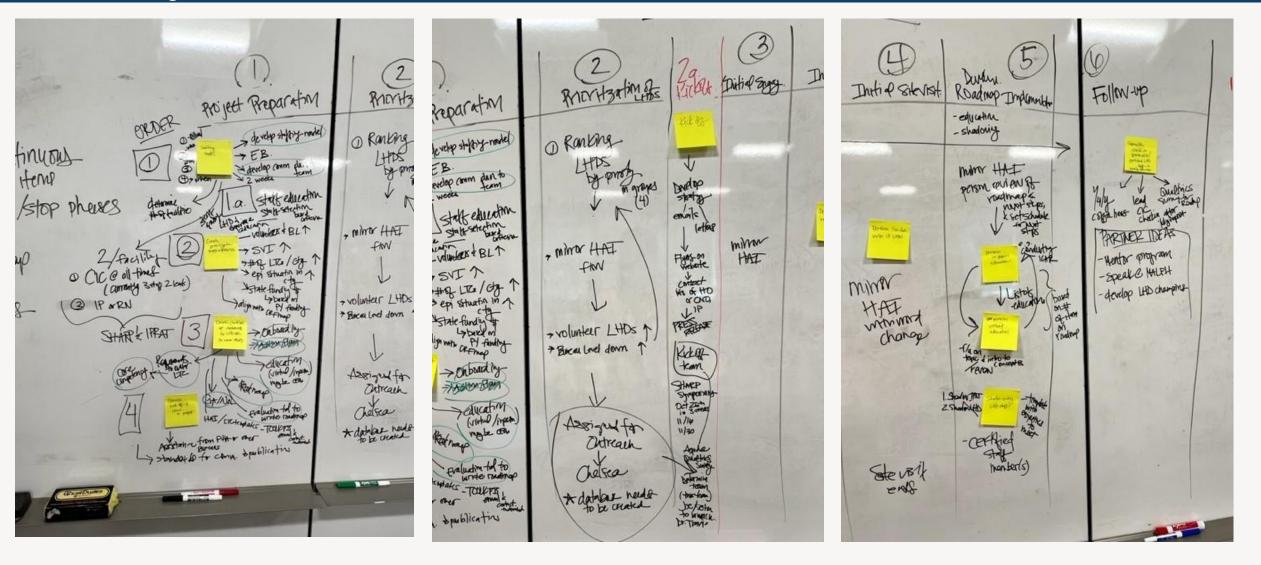




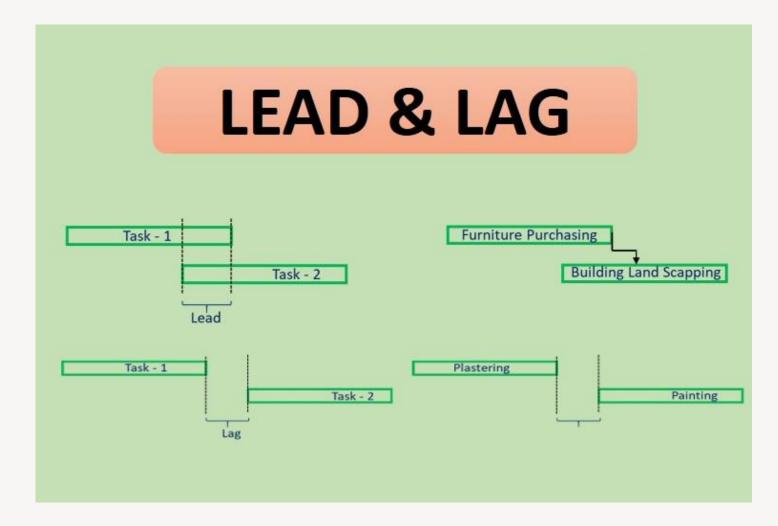


		Total Rating of 5	Total Rating of 4	Total Rating of 3	Total Rating of 2	Total Rating of 1	Total Score	Prioritization Score	Notes
•	Question	¥	¥	-	-	-	*	¥	-
1	Client/Needs Assessment and Gap Analysis: Perform GA/NA with prioritized 18 LHDs	7	0	1	0	0	38	1	
16	People Knowledge/Assets: Complete Prioritization of LHD outreach	6	1	0	1	0	36	3	
13	Internal Process/Virtual Learning Platform: Conduct PFL trainings	2	6	0	0	0	34	4	
	People Knowledge/Assets/% adherence to internal processes/Create Process map and Audit Tool	5	1	1	1	0	34	5	
5	Services/Establish IPRAT Model: Create checklist of documents for LHD use	3	3	2	0	0	33	6	
11	Internal Process/Staffing Plan: Staffing Model	3	1	2	2	0	29	9	
6	Services/Establish IPRAT Model: Shadow training LHD Staff	2	2	2	2	0	28	10	
	Services/Establish IPRAT Model: Establish check in protocol with certified LHD staff/Follow up to identify new or existing barriers	1	2	3	1	1	25	13	

## **Dry Erase Marker Time!**



## Time it out



# "A bad idea executed to perfection is still a bad idea"



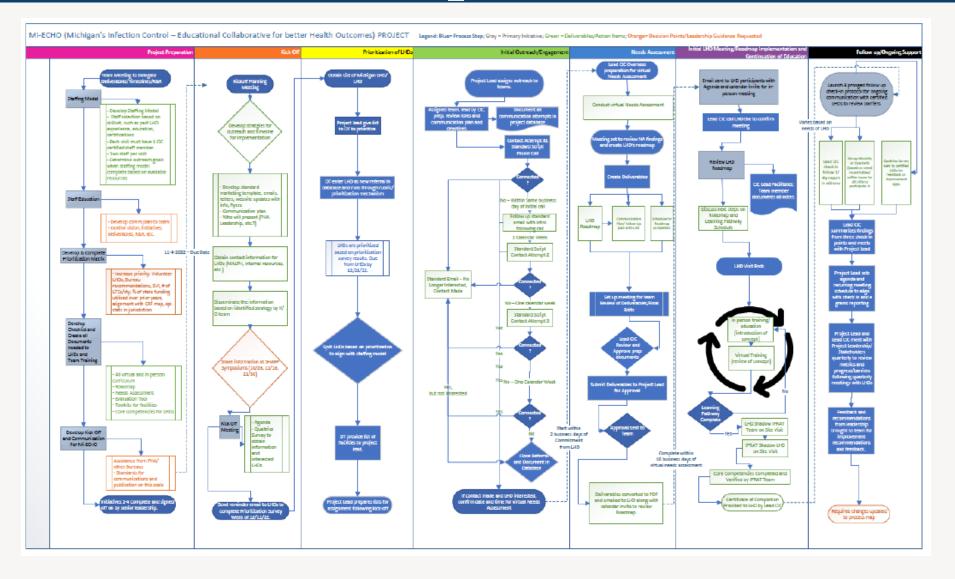
			Future State	Vision: By the end of FY2023	8, 40% of LHDs, with a focus	on those impacted by health	disparities, will
	Objective •	Objective Description	Measure 1	Measure 2	Initiative (Process Map Steps)	Process Stage	Prioritization Score <sub>↓1</sub>
People	e and Knowledge Assets	Standardization of Initiatives within Project	Complete prioritization of LHD outreach		Create Prioritization Matrix process	Prioritization	1
Clients	S	Project Launch/Kick off	One and done		Establish kick off, communication, etc. re: Project	Project Preparation	2
Clients	S	Project Launch/Kick off	One and done		Kick-off Meeting	Outreach/Initial Engagement	2
Clients	5	Needs assessment/Gap analysis with LHD	# of LHDs that have completed a needs assessment/gap analysis		Perform GA/NA with prioritzed 18 LHDs	Initial Site Visit	3
People	e and Knowledge Assets	Leadership buy-in and support	Complete monthly check in (dashboard) to discuss what is going well vs. not going well		Standardize and set up leadership checkin and quarterly report review.	Ongoing - PM	4
Client	s	Education	# of in-nerson education at LHDs	# distinct LHDs w/ in person education	Perform education in person	Roadmap Implementation	5
Intern	al Processes	Virtual Learning Platform	Total # PFL modules (provided by MDHHS) completed by LHDs		Conduct PFL trainings	Roadmap Implementation	6

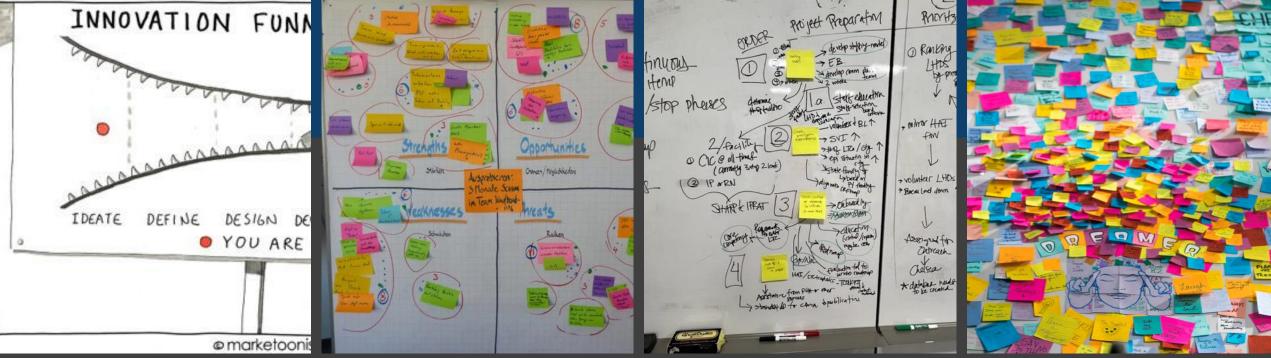
## **Metrics and Initiatives**

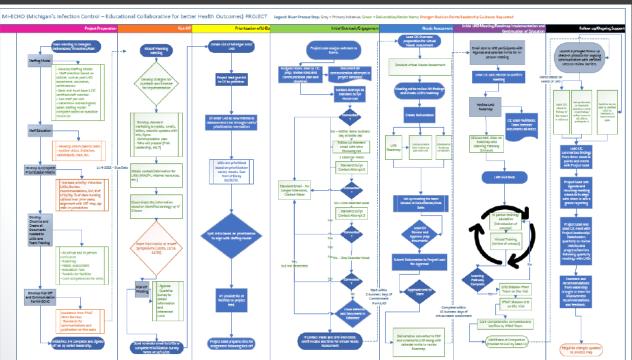
# Metrics – To be completed following resource allocation and project hand off

<b>Objective</b>	Objective Description	Measure 1	Measure Owner (Same as Intitative Owner in most cases)	Start Date	End Date	Targetł Benchmar K <del>–</del>	Stretch Goal	Below Thresh	Numerator 👻	Denominator	Data Source	Collection Frequency	Chart Display (line, bar graph, etc)
Clients	Education	# of in-person education at LHDs	Sue										
Clients	Education	# distinct LHDs w/ in person education	Sue										

## **Finalize Process Map**







## **Stale Donuts**

### "Trust the Process"

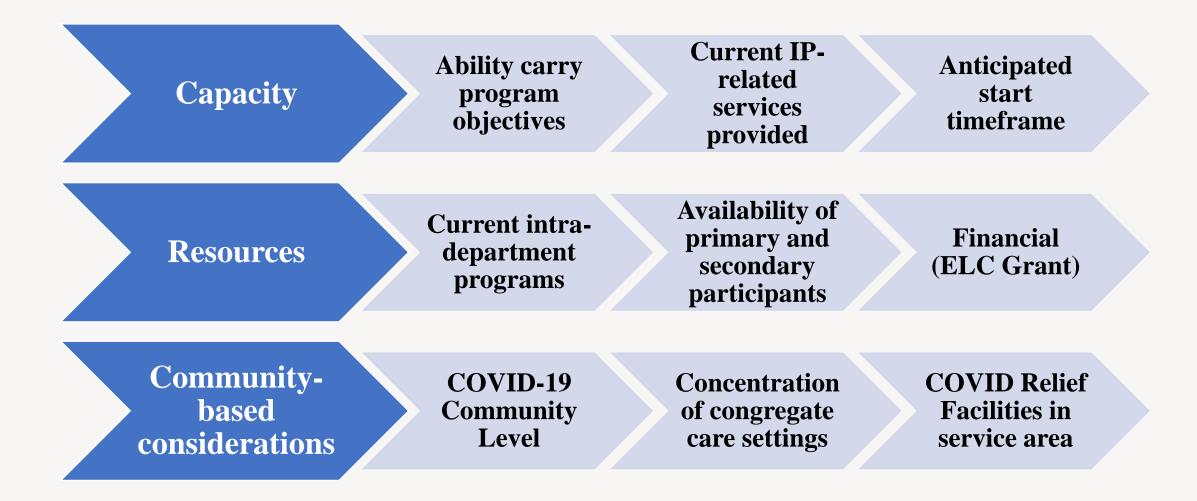




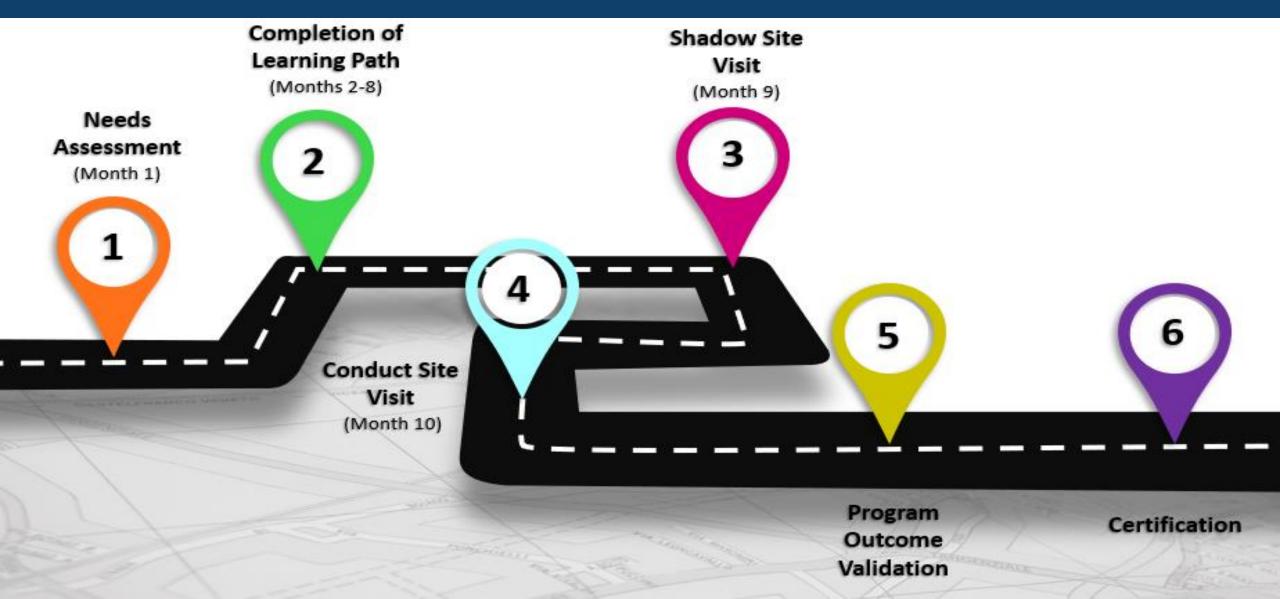


## Lead site visit with IPRAT support

## **Prioritization Survey**



## Roadmap



## Needs Assessment

- Professional background
- Role within LHD
- Previous IP training and experience
- Learning needs among competency domains
- Responses used to shape Learning Path

## **Learning Path**

### **Attachment A: Learning Path**

#### Learning Platform Definitions

In-Person	Live/in-person education session. See learning item for information regarding scheduling and registration.
Virtual	Virtual education session. See learning item for information regarding scheduling and registration.
Self-Paced	Self-paced education to complete as your time/schedule allows.

### **Risk Identification & Surveillance**

Platform	Learning Action Items	Key Learning Objectives	Date Completed	Competency Validation Date
In-Person Virtual Self-Paced	<ul> <li>CDC Nursing Home Infection Preventionist Training: Module 1 - Infection Prevention &amp; Control Program o Requires free account set-up and registration.     </li> <li>CDC Nursing Home Infection Preventionist Training Course: Module 4 - Infection     </li> </ul>	<ul> <li>Define the purpose of infection prevention (IP) programs.</li> <li>Identify core activities of an IP program.</li> <li>Understand the processes for developing and implementing IP program policies and procedures.</li> <li>Identify at least three components of an IP program risk assessment.</li> <li>Define surveillance and its purpose.</li> <li>Describe the types of surveillance measures and methods.</li> <li>Describe recommended practices for developing a surveillance plan.</li> <li>Identify resources for</li> </ul>	completed	
	Surveillance     Clarifying Infection Control     Policy Requirements - The     Joint Commission         o Note: This learning         item is provided for         illustrative/application	collecting, managing, analyzing, and reporting surveillance data.		

## **Office Hours**

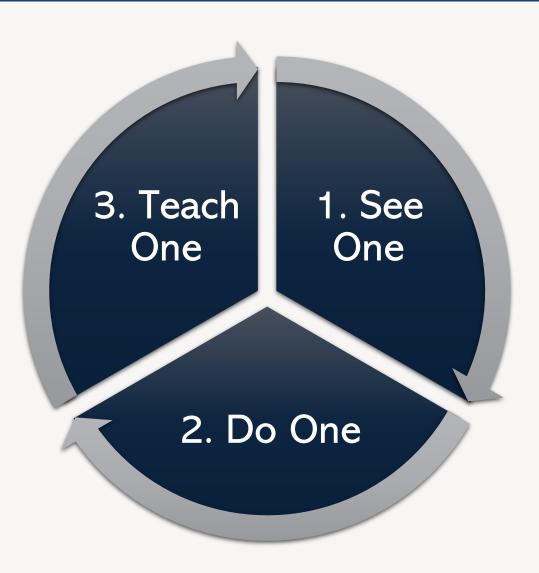
- 50-minute virtual meeting
  - <u>Topic-specific education</u> (25 mins)
  - <u>Open discussion (25 mins)</u>
    - Shared learning
    - Application of concepts
- Recorded and uploaded to MITRAIN



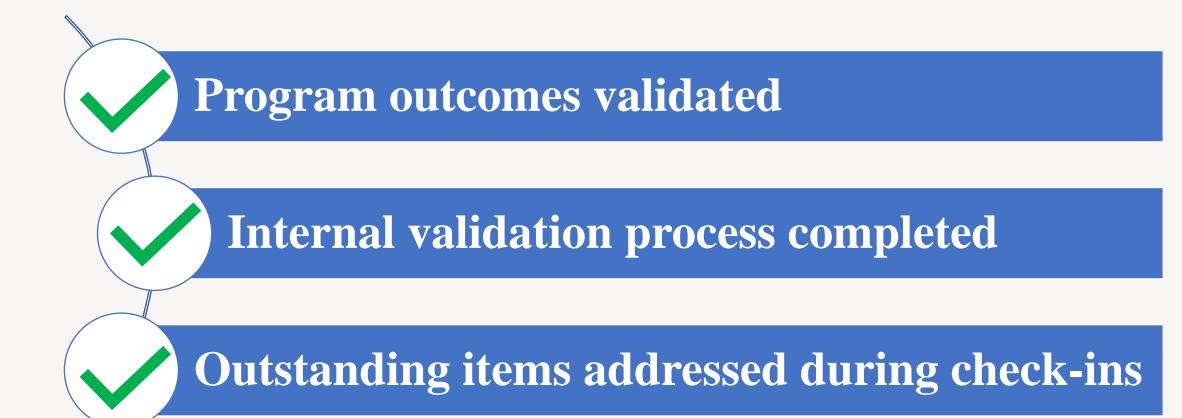
## Shadow & Conduct Site Visit

Watch (shadow) & complete (conduct) a site visit:

- Prep work
- Site visit/ICAR
- Follow-up communication



## **Program Outcomes Validation**



## Certification

Attests competency to complete site visits



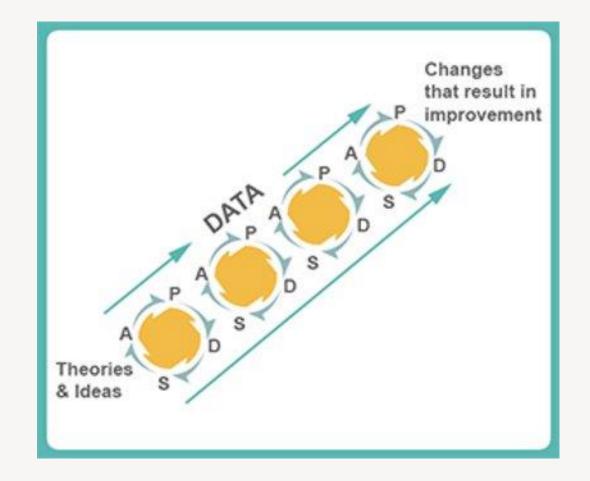
Continued partnership with IPRAT



Routine post-certification check-ins

## **Lessons Learned**

- Know your scope and stick to it!
- Create strategies that meet project goals
- Phased approach: especially for large-scale projects
- Use a methodology for planning
- Project and team pulse checks





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## References

- COVID-19 in Nursing Homes: CMS Needs to Continue to Strengthen Oversight of Infection Prevention and Control. (2022, September 14). U.S. Government Accountability
   Office. <u>https://www.gao.gov/products/gao-22-105133</u>
- DeSalvo, K., Wang, C., Harris, A., Auerbach, J., Koo, D., O'Carrol, P. (2017, September 7). Public Health 3.0: A Call to Action for Public Health to Meet the Challenges of the 21st Century. *Centers for Disease Control and Prevention*. https://www.cdc.gov/pcd/issues/2017/17\_0017.htm
- FACT SHEET: Protecting Seniors by Improving Safety and Quality of Care in the Nation's Nursing Homes. (2022, February 28). The White House. https://www.whitehouse.gov/briefing-room/statements-releases/2022/02/28/fact-sheet-protecting-seniors-and-people-with-disabilities-by-improvingsafety-and-quality-of-care-in-the-nations-nursing-homes/
- Herzig CT, Stone PW, Castle N, Pogorzelska-Maziarz M, Larson EL, Dick AW. Infection Prevention and Control Programs in US Nursing Homes: Results of a National Survey. *J Am Med Dir Assoc*. 2016 Jan;17(1):85-8. doi: 10.1016/j.jamda.2015.10.017. PMID: 26712489; PMCID: PMC4696513.
- Newman, K., Maylor, U. and Chansarkar, B. (2002), ""The nurse satisfaction, service quality and nurse retention chain": Implications for management of recruitment and retention", *Journal of Management in Medicine*, Vol. 16 No. 4, pp. 271-291. https://doi.org/10.1108/02689230210445095.
- Parsons, L. (2022, August 23). Why is professional development important?. *Professional Development Harvard Division of Continuing Education*. <u>https://professional.dce.harvard.edu/blog/why-is-professional-development-important/</u>
- The Five Phases of the DMAIC Model. (2023). *The Lean Six Sigma Company*. <u>https://www.theleansixsigmacompany.co.uk/dmaic-model/#:~:text=The%20DMAIC%20model%20is%20a,guide%20you%20through%20the%20process</u>
- Roup BJ, Roche JC, Pass M. Infection control program disparities between acute and long-term care facilities in Maryland. *Am J Infect Control*. 2006 Apr;34(3):122-7. doi: 10.1016/j.ajic.2005.12.010. PMID: 16630974.