

# MICHIGAN MUNICIPAL LEAGUE

# **CONVENTION**2024

# Al in Action: Case Studies from Michigan Communities





## **Overview**

- Brief Introduction to AI
- Overview of AI in Local Government
- Holland Using AI to Manage Recycling
- Portage Police Resource Routing
- Productivity Tools and Municipal Case Studies
- Real time AI demos
- Questions

#### Introduction to Al

Al and its relevance to local government.

- Al goals for local government
  - Improve service delivery
  - Optimize resources
  - Enhance decision-making.

#### Overview of AI in Local Government

- Al and its core components (machine learning, data analytics, etc.).
- Benefits: Efficiency, cost savings, improved services, and datadriven decisions.
- Challenges: Data privacy, implementation costs, and need for staff training.

## **Holland Recycling**

Keith Van Beek, City Manager, City of Holland











#### **RECYCLE** THANK YOU FOR RECYCLING THESE:

GRACIAS POR RECICLAR ESTOS MATERIALES:

#### Paper Papel



Mixed Paper and Paperboard

Cajas de cereales, periódicos, revistas

#### Cardboard Cartón



Cardboard (flattened) Cartón (aplane los envases de cartón o cartón)

#### Metal Latas



Cans
(empty and clean)
Latas de aluminio
y acero
(vacío y seco)

## Plastic Plástico



Plastic Bottles, Jars and Jugs (empty and clean)

Cocina, lavadero, baño: botellas y recipientes (vacío y seco)

#### Glass



Glass Bottles and Jars (empty and clean) Botellas y frascos (vacío y seco)

#### NO!



Do Not Bag Recyclables (no garbage)

No coloque artículos que se puedan reciclar en una bolsa (no recicle basura)



No Styrofoam™ or polystyrene of any kind

No recicle Stryofoam o espuma de poliestirendo de ningún tipo



No Plastic Bags or Plastic Wrap (return to retail)

No recicle boisas de plástico o envoltura de plástico (devolver a la tienda)



No Clothing or Linens No reciclar ropa



No Scrap Metal or Wood No recicle chatarra ni madera

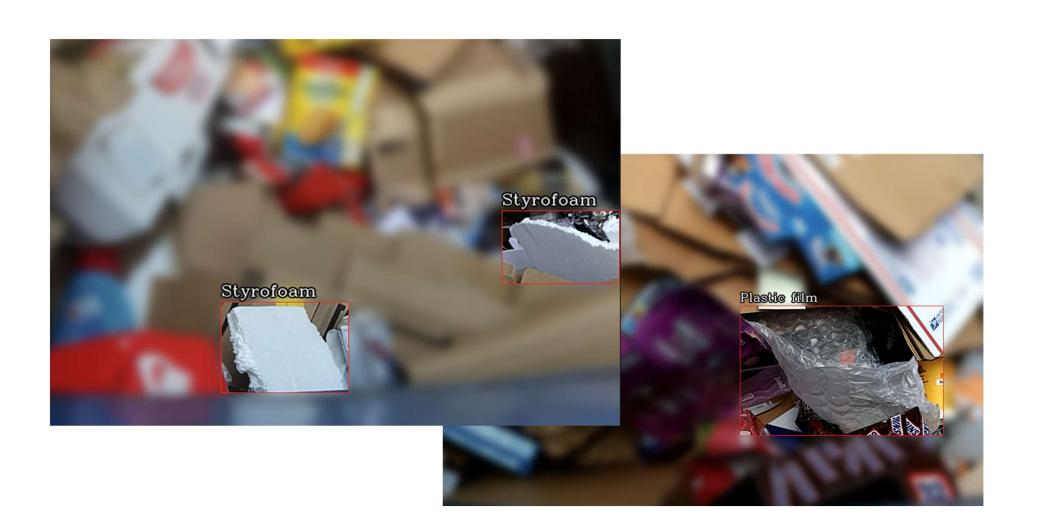




616-355-1500 ext 4 www.recycleholland.com







#### **Educational Materials**

When we emptied your recycling into the truck—our team noticed these "NO" items in your cart.

Cuando vaciamos su reciclaje en el camión, nuestro equipo notó algunos materiales que "NO" deberían estar en su contenedor.



- Other Michigan communities have also participated in this program:
  - · City of East Lansing
  - Kalamazoo
  - Bay City
  - Grand Rapids









# City of Portage Pat McGinnis, City Manager

# RESOURCE ROUTER

Previously Pred Poll

Owned by Sound Thinking

- Patrol Management Software
- Generates Automatic Directed Patrol Zones
- Based primarily on Part 1 Crimes (gunfire, homicide, aggravated assault, robbery, motor vehicle theft)
- Does not used data from crimes that are susceptible to enforcement bias (Part 2 crimes such as retail fraud, domestic disturbance, controlled substances, MIP, noise complaints)
- 500m x 500m boxes set up to elevate presence and deter criminal activity
- Boxes based off real time crime data and other variables such as seasonality, time of month/week/day, holidays, upcoming events, weather, and locations of liquor establishments

Patrol Zones use the Koper Curve:

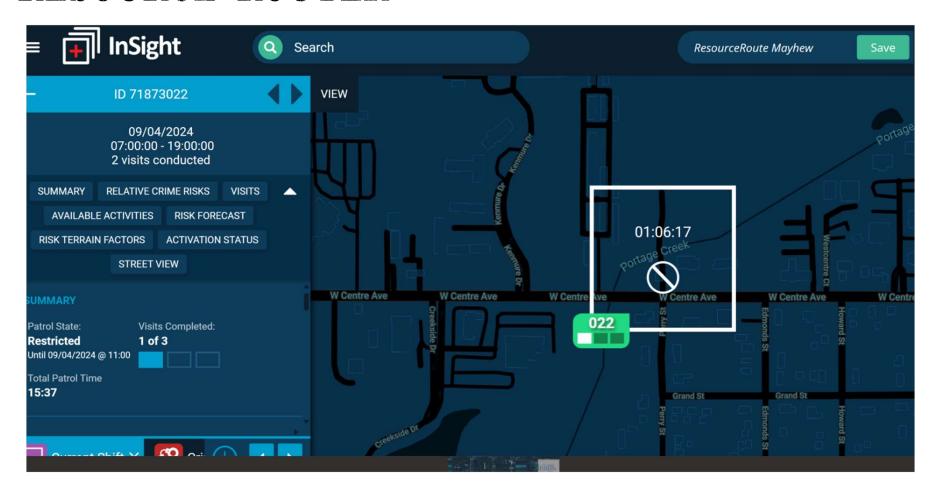
Visible in the zone for 15 minute time periods with at least 90 minutes in-between sessions

Officers do traffic enforcement, mobile patrol, foot patrol, community engagement

- Supervisors can set up ad hoc zones, it's not all AI driven
- Implicit bias is covered and discussed in all major purchases, and this system is designed to avoid typical enforcement bias traps

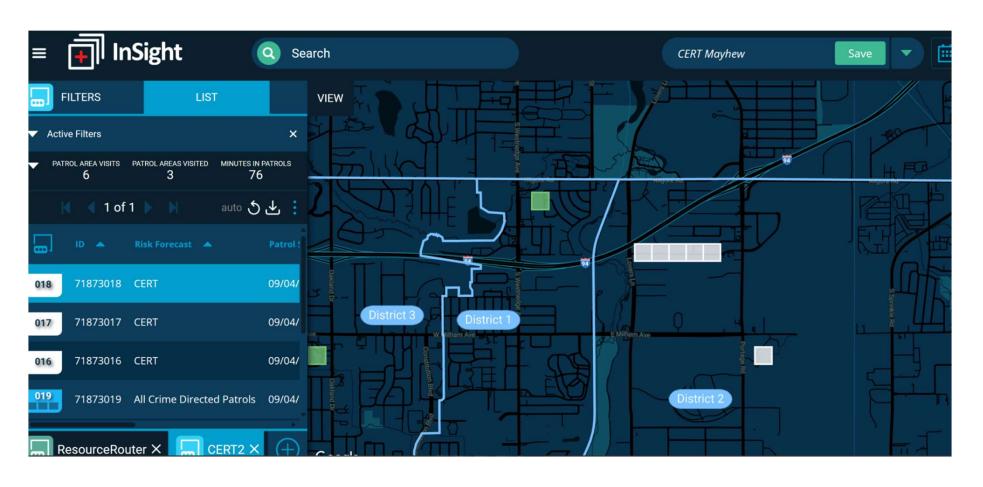








# RESOURCE ROUTER — HUMAN INTEL











#### ResourceRouter Three-Year Term

	Year 1	Year 2	Year 3	Total
ResourceRouter One-Time Fees (Service Initiation, and Onboarding)	\$15,000	N/A	N/A	\$15,000
One-Time Fee Waiver for Geolitica Customers	(\$15,000)	N/A	N/A	(\$15,000)
ResourceRouter Annual Subscription Fees (EAP Pricing)	\$29,500	\$29,500	\$29,500	\$88,500
Annual Subscription Fee Waiver for Geolitica Customers	(\$16,700)	(\$8,350)	N/A	(\$25,050)
Discounted ResourceRouter Annual Subscription Fees	\$12,800	\$21,150	\$29,500	\$63,450
Annual Totals	\$12,800	\$21,150	\$29,500	\$63,450

# Al in Action: Case Studies from Michigan Communities

Dene Westbrook, IT/Operations Director, Michigan Municipal League





## Already using AI? Probably.

#### Services you may be familiar with:

- Amazon Alexa
- Apple Siri
- Grammar/Writing Assistants Grammarly
- Language Learning Duolingo
- Self-driving cars Tesla, Ford, GM
- Software Productivity suites Microsoft 365 (Copilot), Google (Gemini)
- Cybersecurity CrowdStrike
- Social Media Facebook, Instagram, X

#### This list will only keep growing!

## **Applications of AI in Local Government**

#### Al is the next step for Smart Cities

- Predictive Blends machine learning and statistical analysis
- Generative Uses massive amounts of raw data to create content
- Traffic Management
- Waste Management
- Energy Grid Management
- Emergency Services Response
- Street Lighting
- Water Quality Monitoring

- Building Energy Management
- Planning & Development Statistical Analysis
- Parking Management
- Citizen Engagement
- Tourism Management
- Policing

## Taking the Bad with the Good

#### Al Can:

- Save time and effort by automating tasks.
- Enhance the experience your citizens have with you.

#### Al Risks:

- Explainability
- Potentially biased
- Data Privacy & Security

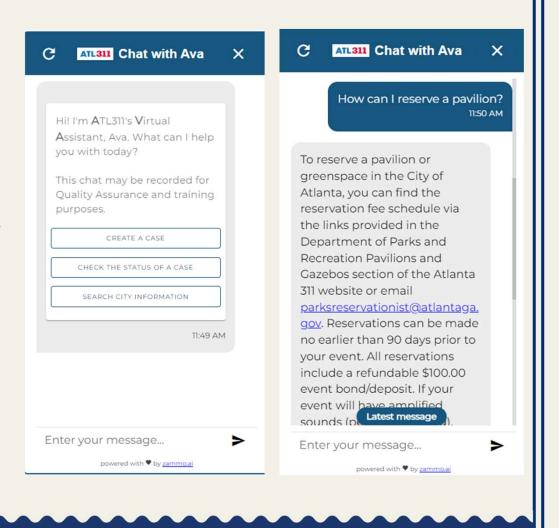
# Today's Focus – 4 Examples

- Citizen Engagement using Chatbots
- Communication Generation
- Language Translation
- Productivity

# Example #1 – Chatbot

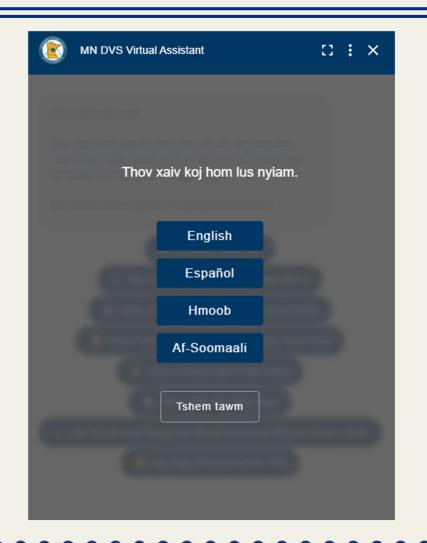
Atlanta, GA, added an Al Chatbot to the city's 311 web page and voice call center.

- Allows for citizens to answer questions on their own.
- Provides immediate answers.
- Has the ability to escalate to a live person for assistance.



# **Example #2 – Language Translation**

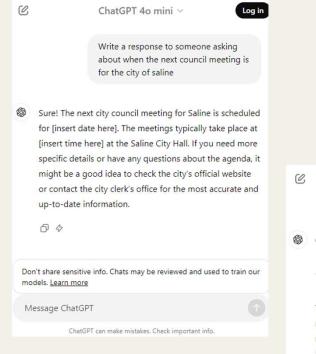
- Dearborn, MI Google Gemini provides language translation for web pages and documents.
- State of Minnesota The DMV is utilizing a virtual assistant (chatbot) to provide services (and language options).

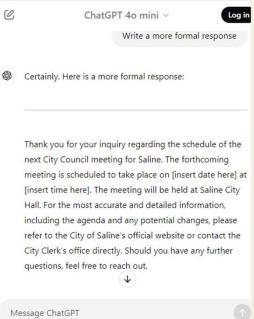


# **Example #3 – Communications**

Wentzville, MO is using generative AI to create communications.

- Automating only specific communications
- Maintaining human oversight and review
- Adherence to Wentzville Al Policy





ChatGPT can make mistakes. Check important info.

# Example #4 – Productivity Pilot

The League is utilizing Microsoft 365 Copilot and ChatGPT to boost productivity.

- MS Teams note taking and video recording by meeting topic
- Rapid PowerPoint generation (not this one)
- Grant report writing
- File searching
- Meeting creation
- Communication writing







Ariel Ryan

Josh Hartley

TP Taylor Pine

#### Content No files were shared. @ Mentions Transcript Notes Al notes Copy al Generated by Al. Be sure to check for accuracy. Meeting notes > Reports in Nimble: Dene showed how to use the reports folder, the filters, and the export options for mailing and communication lists. > Affiliate membership lists: Dene explained how to change the start date for dues year and how to handle renewal period for MME and other affiliates. Email newsletter lists: Dene demonstrated how to access and filter the email subscription lists and how to remove the opt outs. > League member lists by role: Dene presented two options for filtering by role: using the pre-made reports with complex filters or exporting the all roles list and filtering in Excel. · HubSpot integration: Dene said that the HubSpot project will restart in the next two weeks and will take about a month to complete. > Branding and access: Josh asked about changing the brand colors and assets in HubSpot. Dene said he will contact him when he starts working on it. Ariel suggested to reorganize the access and roles for HubSpot. · Mohamed's wedding shower: Dene announced that July 22nd will be

Mohamed's wedding shower and asked everyone to save the date.

. Email subscription page: Find and remove or redirect the old page on the

· HubSpot: Start working on setting up HubSpot with the new branding and

league website that is not synced to nimble (Ariel)

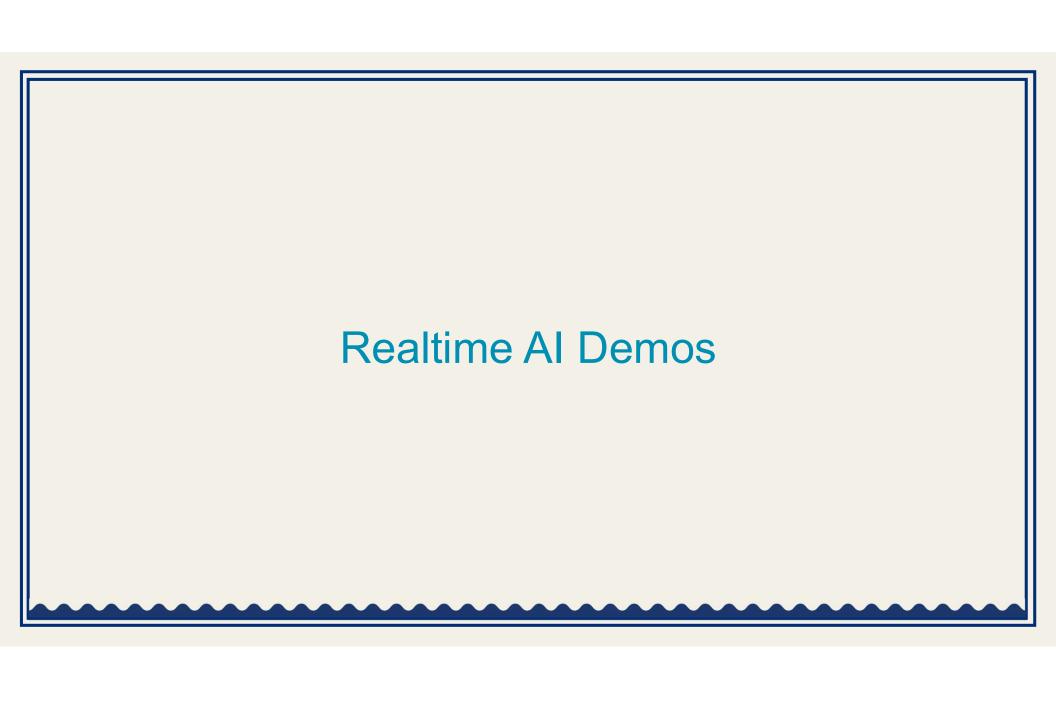
Follow-up tasks

data from nimble (Dene)

Are these notes useful? A Q

## **Other Al Possibilities**

- Al Policy/Guidelines
  - Government Al Coalition Website/Templates San Jose website
- Legislation Summaries
- mml.org Chatbot



## Hallucinations or misleading information

My query to ChapGPT:

Give me 15 examples of cities in Michigan using Artificial Intelligence for local operations

#### **ChatGPT**

Here are 15 examples of cities in Michigan using Artificial Intelligence (AI) for local operations:

- 1. Detroit: Al-driven predictive analytics to optimize public safety deployment and reduce crime.
- 2. Grand Rapids: Al systems in smart traffic management to reduce congestion and improve traffic flow.
- 3. Ann Arbor: Al-enhanced public transportation schedules for more efficient route planning.
- 4. Lansing: Al-based chatbots on municipal websites to assist residents with inquiries and services.
- 5. Flint: Predictive AI to monitor water quality and prevent future crises.
- 6. Sterling Heights: Al-driven maintenance scheduling for public infrastructure, like roads and bridges.
- 7. Kalamazoo: Al-supported environmental monitoring systems to track air quality and pollution levels.
- 8. Troy: Al-powered financial management tools to improve budget forecasting and resource allocation.

- 1. Farmington Hills: Al in emergency response systems to optimize dispatching and response times.
- 2. Southfield: Al-enhanced urban planning tools to analyze development impacts and optimize land use.
- 3. Rochester Hills: Al for predictive policing to identify areas at higher risk of criminal activity.
- 4. Dearborn: Al-based energy management systems in public buildings to reduce energy consumption.
- 5. Livonia: Al-supported public health monitoring for tracking the spread of infectious diseases.
- 6. Warren: Al-driven asset management systems to track and maintain public assets like parks and buildings.
- 7. Saginaw: Al-powered tools for analyzing public feedback and sentiment to improve city services.

These examples demonstrate a variety of ways Michigan cities are leveraging AI to enhance efficiency, safety, and service delivery.

#### You said:

Can you provide a link or source for each example?

#### **ChatGPT said:**

Providing specific sources for each of these examples is challenging because they are largely hypothetical or generalized representations of how cities in Michigan could be using AI based on common trends in local government technology. While many cities across the U.S., including some in Michigan, are exploring or implementing AI in various aspects of their operations, detailed public records or reports on AI usage in specific Michigan cities might not be readily available.

To provide concrete examples, I would need to conduct specific research on each city to identify any current AI initiatives. This can be done using tools like the browser tool to search for real-time information. Would you like me to do that for a few specific cities, or should I provide more general information on AI use in local governments?

# Questions?