

AI

What it is, and what to do with it!



LOCAL GOVERNMENT
**HISPANIC
NETWORK**

LGHN

Conference

January 27 – 29, 2025

Mesa Convention Center
MESA, ARIZONA

AI Agenda

What is it?

Why it feels different than other technology

Where it's going in the short run

What we should do about that

Where it's going in the long run

How it's going to impact our society and our communities

Deep dive into key components and terms for AI today

Deep dive into local government workflows (budgeting)



What is AI

What is AI

- Impressive calculations
 - examples
- Ability to evolve knowledge – learn
 - examples



New Bells & Whistles

- Natural communication layer
 - LLMs
 - Natural Omnichannel Comms
- Physical Forms
 - Robotics
- Insane calculation capabilities
 - Quantum



Why does AI feel different than other technologies?

Why it feels different

- Feels less like a tool
- Feels more like a species
 - Form factor
 - Communication
 - Calculations
 - Evolution
- Culmination of tools now reaching near parity
- Therefore, working with it feels like an asset



Where is AI going in the next 24-36 months?

What's next

- OpenAI opened the border with LLM & ChatGPT
- People are beginning to work with, specialize and trade with agents
- Agents are beginning to specialize
- We need to specialize and trade
 - Might be a generalist manager of bots



What's not next

- We aren't going back
- Protectionism will lose
- Avoidance could be an earned luxury



This isn't bad, actually a lucky bail out

- Demographic Trends
- Intl trade trends
- Environmental Debt
- Financial Debt
- Time Debt



Costs & Benefits

- Embracing brings risks
- But it's necessary
 - status quo path unsustainable
 - world needs it
- Benefits
 - More time, more resources
- More equality?



Given short-run trajectory, what should we start doing today?

What to do today

- You aren't going to lose your job to AI
- You may lose it to someone using AI
- If you just use AI to improve, you're fine
- But you must really be doing well
- Data will find you and scalable tech wants to scale
- So, map workflow vision, start improving





Where is AI going in the long run? 5-10 years+

A Very Weird Economy

- Private sector
 - De-emphasis of labor
 - high supply, short demand
 - Emphasize capital
 - high supply, high demand
 - complement it: train, monitor, service
 - lots of micro entrepreneurs
 - power, servers, materials science



A Weird Economy (continued)

- Lots of resources (efficiency)
- High Quality of Life
- Lots of time
- Disproportionate gains to capital owners
- Public policy



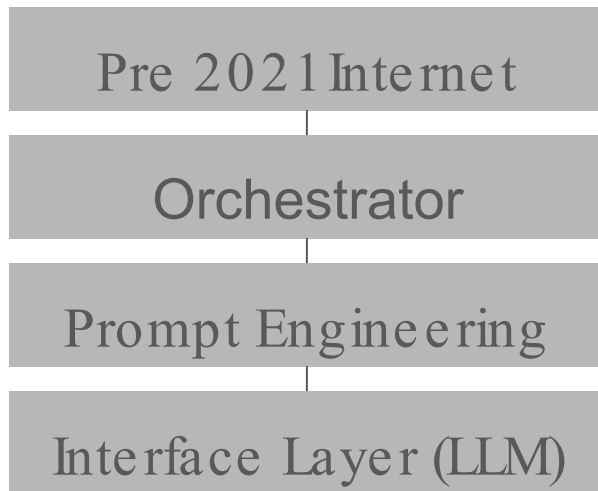
Deep dive into key components of AI today to help you be a smart shopper and user.

Key Components

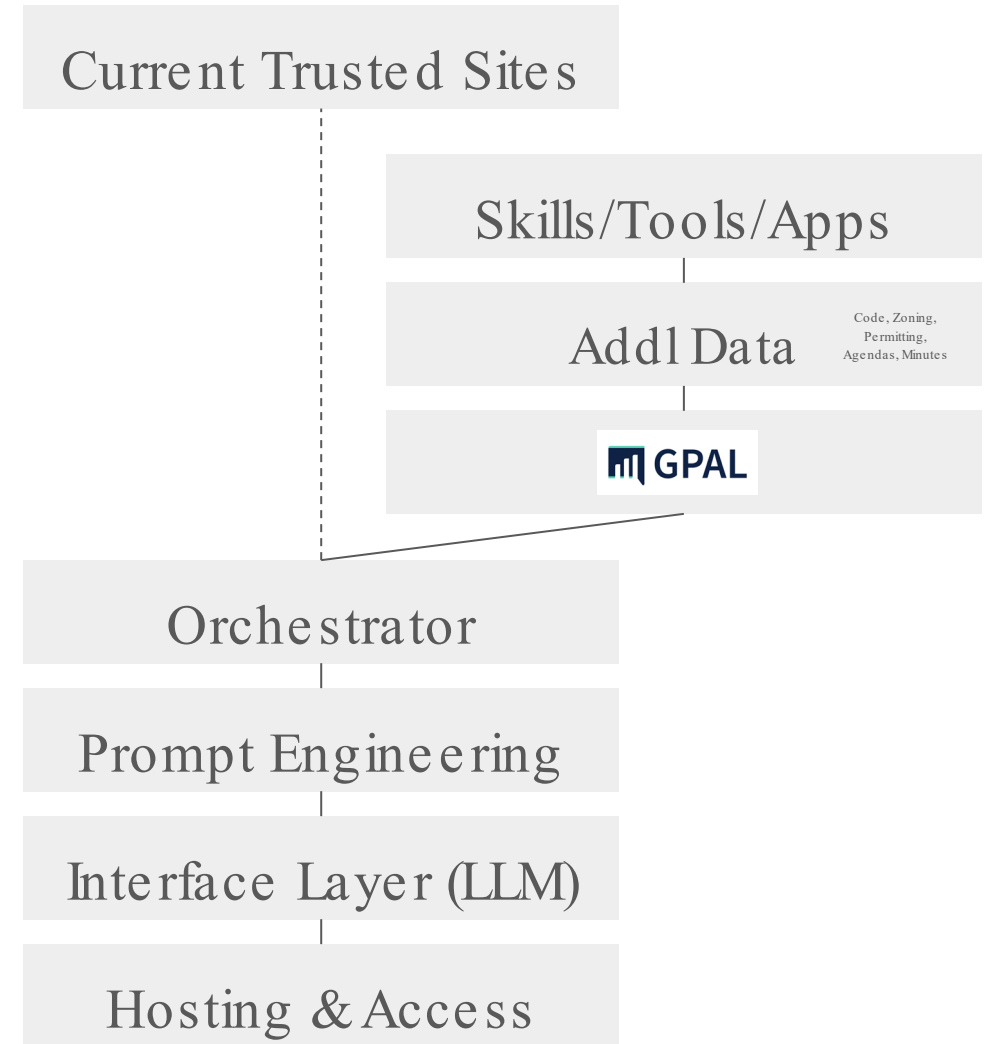
- Hosting
- LLM – omnichannel interface layer
- Prompt Logic
- Orchestrator
 - Internet, RAG, other agents
- RAG
 - Knowledge Set, Apps / Skills / Tools



COTS AI



Retrieval Augmented Generative (RAG) AI



RAGaaS Infrastructure Layer Element Options

Hosting & Access

- Internal Limited ✓
- External Publicly Available
- External Limited
- See More

Data Sources & Ports

- GPAL Level 0-3 ✓
- Code Ordinance Level 0-3
- Agendas ✓
- See More

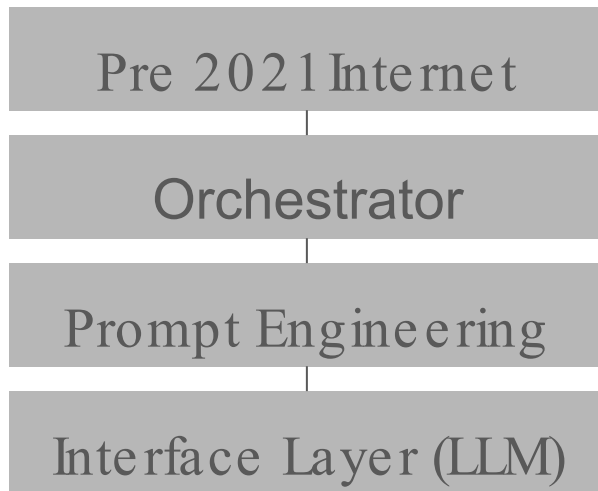
Tools Skills Apps

- Housing Burden
- Grant Tool Set ✓
- SES
- See More

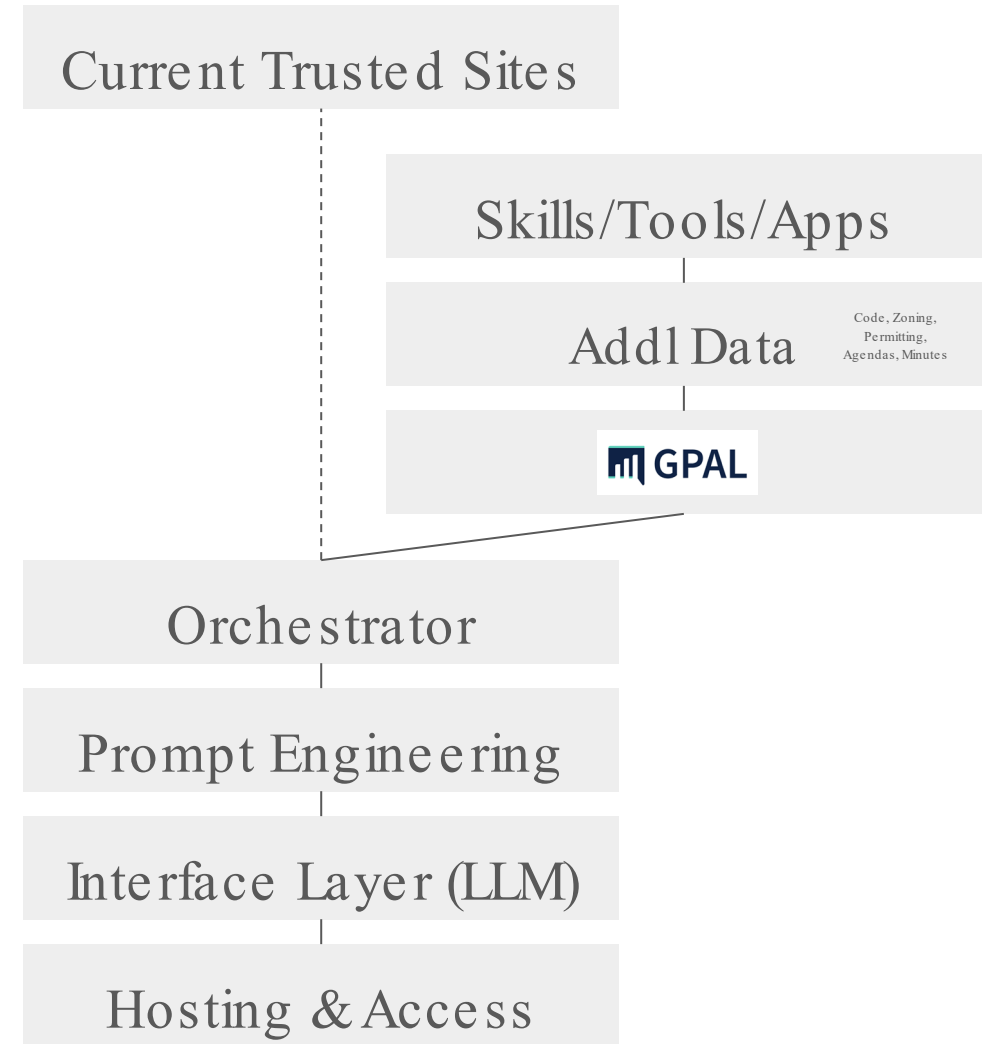


[Name] - An AI Agent for the City of X

COTS AI



Retrieval Augmented Generative (RAG) AI

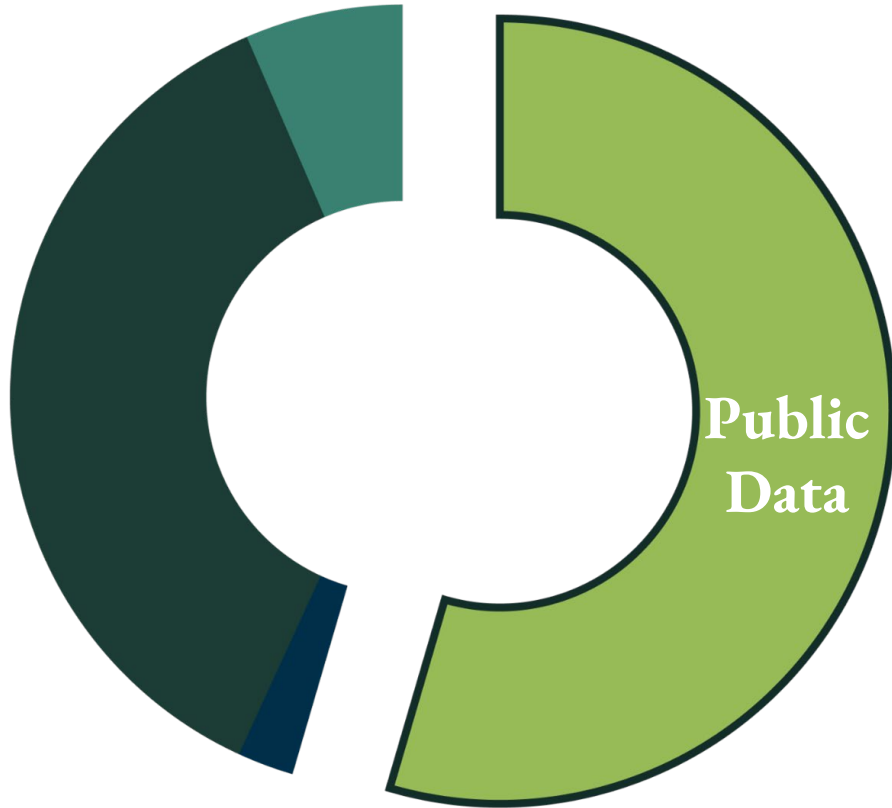




The Most Important Public Sector Datasets Brought Together



[\(Survey Instruments Linked\)](#)



- Bureau of Labor Statistics Local Area Unemployment Statistics
- Center for Neighborhood Technology
- Climate Mapping Resilience And Adaptation (CMRA)
- County Health Rankings & Roadmaps
- Federal Bureau of Investigation Uniform Crime Reporting
- Federal Emergency Management Agency's National Risk Index
- Institute of Museum and Library Services Public Libraries Survey
- Map the Meal Gap
- PLACES (CDC, the Robert Wood Johnson Foundation, and the CDC Foundation)
- The Government Finance Database, Willamette
- U.S. Bureau of Economic Analysis
- U.S. Census Bureau American Community Survey
- U.S. Census Bureau Community Population Survey Volunteering and Civic Life Supplement
- U.S. Census County Business Patterns
- U.S. Department of Education EDFacts
- U.S. Department of Housing & Urban Development
- U.S. Environmental Protection Agency Walkability Index
- Open Energy Data Initiative
- HUD - Point in Time Estimates of Homelessness in the U.S.
- EPA - The Safe Drinking Water Information System
- And many more ...



All Fluidly Construed & Visualized in Polco Track

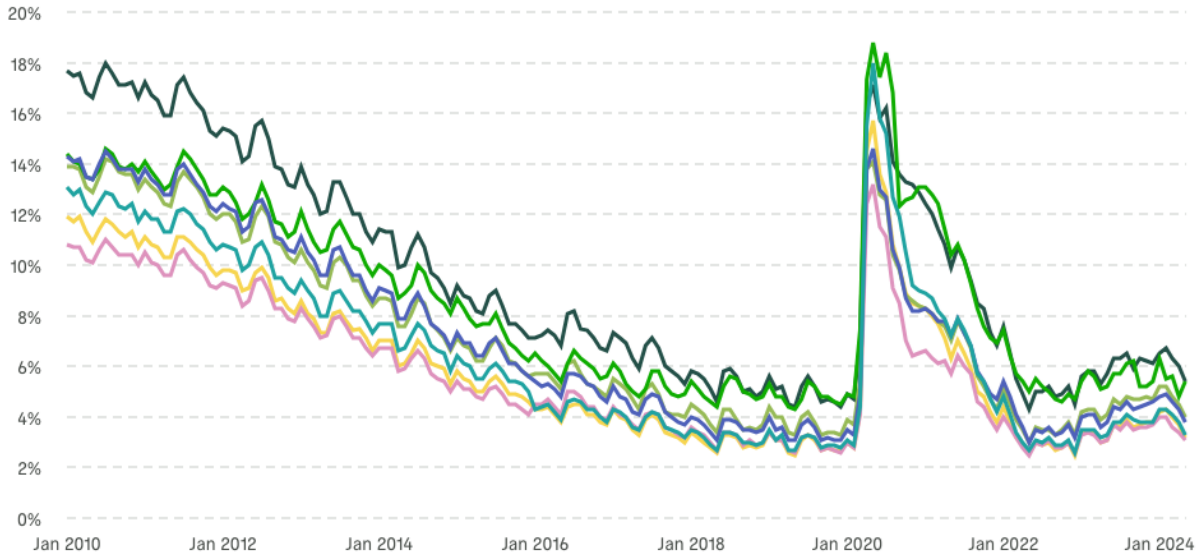
Monthly unemployment rate

Similar to benchmark

3.8%

- 0.5%

Data from Bureau of Labor Statistics Local Area Unemployment Statistics In May 2024



- 1. Rancho Cuc... 3.1% - 0.3
- 2. Santa Ana 3.2% - 0.5
- 3. Anaheim 3.3% - 0.5
- 4. Ontario 3.8% - 0.5

- 5. Riverside 4% - 0.5
- 6. Pomona 5.4% + 0.6
- 6. San Bernard... 5.4% - 0.6

This chart illustrates the change over time in Monthly unemployment rate.

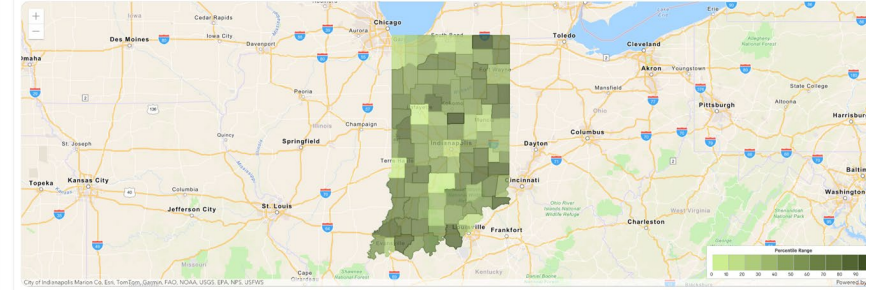
Benchmarked against all U.S. communities for which these data are available



Polco

Housing and Community Design

Housing cost burden for renters



City of Indianapolis-Marion Co., Ben. Tomlin, GERRIT FAO, NOAA, USGS, EPA, NPS, USFWS

Top 5 Ranked Communities

1. LaGrange	18.9%	+0.8	○
2. Tipton	22.47%	-3%	○
3. Carroll	24.79%	+0.6%	○
4. Harrison	25.75%	-2.7	○
5. Decatur	26.5%	+3.4%	○

Bottom 5 Ranked Communities

88. Marion	48.9%	+0.8	○
89. Vigo	51.9%	-0.2	○
90. Tippecanoe	51.47%	+0.6%	○
91. Brown	54.37%	-2.83	○
92. Monroe	55.39%	-0.2	○

Overall	District 1 (A)	District 2 (B)	District 3 (C)	District 4 (D)	District 5 (E)	District 6 (F)	District 7 (G)	District 8 (H)	District 9 (I)
70%	60% B C G H I	80% A D	83% A D	60% B C G H I	75% I	74% I	92% A D	93% A D	97% A D E F

Legend

- No significant disparity across demographic
- Small disparity across demographic
- Large disparity across demographic

ARPA Challenge	Income Level	Location	Race	Rent or Own Home
Behavioral Health Challenges	No disparity	Large	Small	Large
Economic Challenges	Large	Large	Large	Large
Educational/Child Care Challenges	Large	Large	Large	Large
Employment Challenges	Large	Large	Large	Large
Food Security Challenges	Large	Large	No disparity	Small
Health Challenges	No disparity	Large	No disparity	Small
Inclusion Challenges	Small	Large	Large	Small
Technology Challenges	Large	Large	No disparity	Large
Water and Sanitation Challenges	Large	Large	No disparity	Small



THE FUTURE IS HERE AND IT IS DATA-DRIVEN

Example Sessions

- [Marshfield Food Security](#), [Safety - CA City](#), [Waxhaw Plan](#),
- [Lake Geneva Housing](#), [Pinellas County](#), [Sioux Falls Economy](#)

Links

- [Learn More](#) (about Polly, Grace, Custom Agents ...)
- [Bring Your Own Data Uploader](#)
- [Build Your Own Public Sector RAG with Powerful Tools & Elements](#)

Example Analytical Tool Sets Being Built Into our Suite of RAG Infrastructure Elements

- Next Several Slides



Deep dive into using AI in a specific government workflow (budgeting)

Comprehensive RtB Workflow

- Community survey
- Comprehensive community performance report
- State of the City
- Council Retreat
- Strategic Plan
- Comp Plan
- Housing Plan
- Climate Plan



Comprehensive RtB Workflow (cont)

- Draft Budget
- Resident Input on Plan / Budget
- Implementation of Initiatives
- Implementation Engagement
- Grant Application
- ACFR
- Grant and Plan Performance Reports
- Comprehensive Community Performance Report
- State of the City ...

Recap & Wrap Up

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Key Takeaways

Get started today

Map out your workflow vision in detail
Ask yourself how each step could use AI
Why can't you do that today?
Not cost. Not security.
Change management?
Start tackling it.

Start executing on those new workflows.

Be amazed at the quality, quantity, speed of what you'll be able to accomplish

Let me know how I can help:

Nick Mastronardi, nick@polco.us

Polly the analyst, Grace the grant writer, Charlie the chatbot



Thank You Panelists, Attendees and Sponsors

