

DYMAPTIC · IOWA TECH & GEOSPATIAL CONFERENCE · 2026

Your ArcGIS Monitor Has Been Taking Notes.

Are you reading them?

FILED BY

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TOPIC

AI & ArcGIS Monitor

RUNTIME

≈ 30 minutes

Hello, we're **dymaptic**. We love to build **GIS** software.



CO-PRESENTER · 01

Tim Purdum

Director of Product Development, dymaptic
Inventor of GeoBlazor
Designs custom GIS apps for clients



CO-PRESENTER · 02

Holly Kluever

Chief Operating Officer, dymaptic
Manages business ops, marketing, HR
GIS enthusiast

THE PROBLEM

Monitor records everything. Reading all of it is somebody else's job — and they don't have time.

Comprehensive data collection creates its own challenge: the more Monitor captures, the harder it becomes to know which numbers matter. The gap between data collection and operational insight is wide, and it costs time, resources, and sometimes service continuity.



*What should I be **looking at?***

*Can you give me a **system report?***

*Is everything **OK?***

— WHAT OUR CUSTOMERS ACTUALLY ASK US

WHAT MONITOR ALREADY KNOWS

It's not a data shortage. It's a reading shortage.

60%+

of data initiatives fail because leaders and staff can't interpret what's in front of them

GARTNER

69%

of business decision-makers say a lack of data skills stops them from using data in everyday decisions

FORRESTER

21%

of employees say they're confident in their own data literacy

ACCENTURE

3x

the gap between executives who think staff are data-proficient (75%) and staff who feel prepared (25%)

ACCENTURE

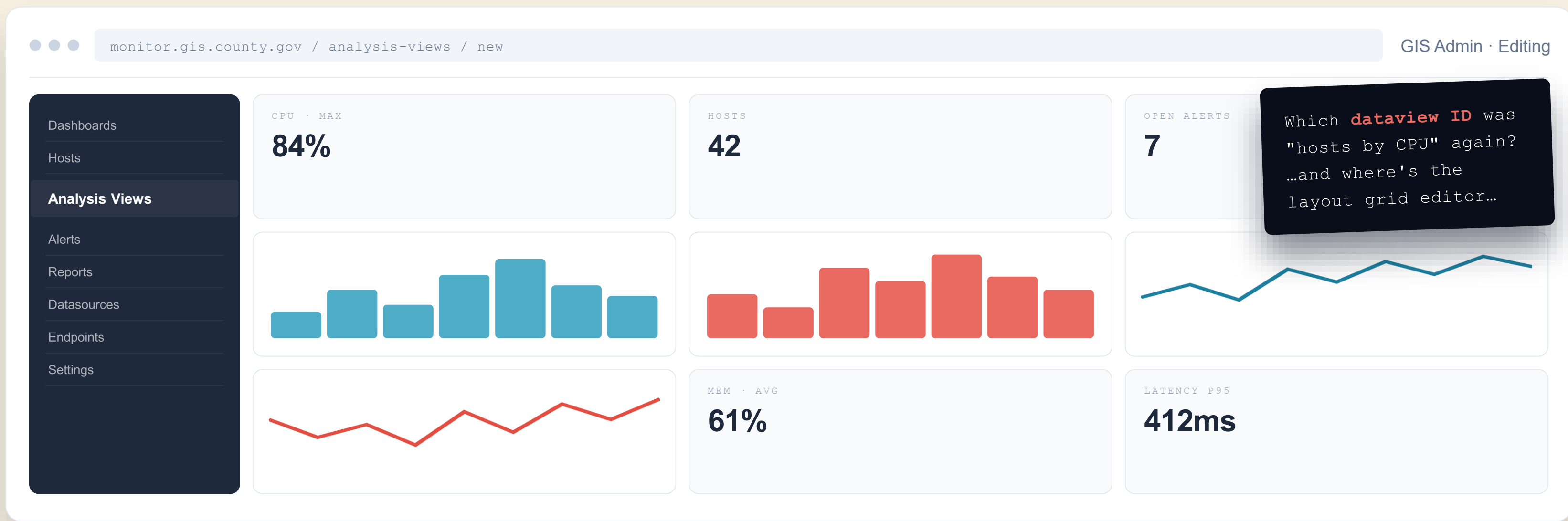


*Knowing CPU peaked at **84%** on **Thursday** tells you something happened. It doesn't tell you whether to **care** , or what to **do** about it.*

— THE GAP BETWEEN DATA AND DECISION

THE TOOL WE HAND THEM

Built for investigators, not executives.



— A QUESTION

What if you could just ask?

What if, instead of clicking your way to a dashboard, you typed the dashboard you wanted, in plain English — and the system built it for you?

Natural Language to Monitor Dashboard.

We taught Claude how Monitor's analysis-view JSON works. Now we can ask, in English, for the view we want — and import the JSON straight into Monitor.

WHAT WE BUILT

Two AI tools.

TOOL 01 · GENERATE-VIEW

Plain language to dashboard.

Creates an ArcGIS Monitor analysis view from a natural-language request.

Reads your Monitor JSON schema

Picks the right dataview IDs

Outputs import-ready JSON

→ "dedicated vs. shared resource usage"



TOOL 02 · GENERATE-REPORT

Plain language to HTML report.

Creates an HTML system report from live Monitor data, on a schedule or on demand.

System Health template

Priority Actions template

Weekly Summary template

→ "summary of the last 4 days, focus on shared services"

LIVE DEMO

Type the view. Import the JSON.

"We taught the AI how Monitor's analysis view JSON works. Watch."

Type a natural-language request
Watch Claude generate the JSON
Import the JSON into Monitor
Show the working dashboard

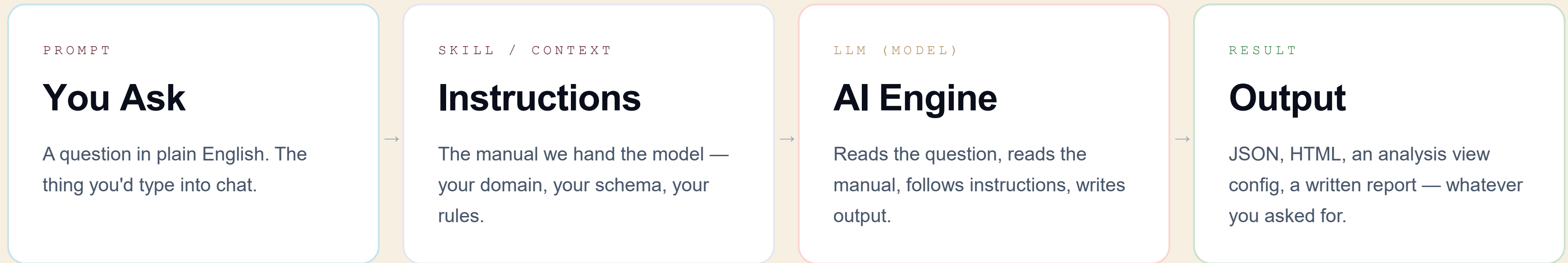
```
CLAUDE · MONITOR-SKILL
```

```
> /generate-view I want to see resource usage between dedicated and shared resources.
```

- I'll build a dashboard comparing resource consumption between shared and dedicated service pools. Let me check a similar existing view as a reference.
Read 1 file (ctrl+o to expand)
- Saw the reference structure. Now building a dashboard focused on resource consumption (ArcSOC instances used) comparing the shared pool vs dedicated services. I'll follow the established Shared vs Dedicated pattern but substitute the request metric with `instances_used_avg` since the user asked about resource usage.
- `Write(Output Views\Shared_vs_Dedicated_Resource_Usage.json)`

AI DEMYSTIFIED

What is AI actually doing?



Prompt — like telling a colleague what you need.

Skill / Context — like handing a new hire the Monitor manual.

LLM — a well-read colleague who follows instructions precisely.

Result — what gets emailed back to you.

Automated System Health Reports.

Skip the dashboard entirely. Connect AI to Monitor's REST API and have it write a narrative report — on a schedule, or on demand — for the person who never opens Monitor.

LIVE DEMO

Ask for a report. Get the email.

"We connected AI to Monitor's REST API. Here's what it produces."

Open a generated report

Walk through summary cards & health score

Show the priority action banner

Explore insight cards: severity & recommendations

```
CLAUDE · MONITOR-REPORTS  
> /generate-report Generate a report for the last 4 days, pay particular attention to shared and dedicated services  
• Starting a fresh 4-day report focused on the shared and dedicated service pools. First, checking the credential env var.  
• PowerShell(if ($env:MONITOR_PASSWORD) { "set" } else { "missing" })  
  L missing  
• Env var not set in this shell - setting it on its own line (value stays in the file, not on the command line).  
• PowerShell($env:MONITOR_PASSWORD = (Select-String -Path 'C:\Projects\dy-monitor-view\REFERENCE_REST_API_Auth.md' -Pattern '"password"\s*:\s*"([^\"]+)"' |  
  Select-Object -Fir...)  
  L set
```

— REFERENCE

HTML templates as a guide.

We hand-write the report templates. The AI fills them with live data, so every report comes out consistent, branded, and ready to email.

```

<!-- =====
HERO VARIANT 1: ACTION REQUIRED (dark dramatic hero)
Use this section when action_required = true.
Remove the hero-healthy section when using this variant.
===== -->
<div class="hero-action">
  <div class="hero-label">Priority Action Required</div>
  <div class="hero-action-text"><!-- [PRIMARY_ACTION: the ONE specific action to take, e.g. "Increase JVM heap to 8GB on ARCGIS-PROD-02"] --></div>
  <div class="badge-row">
    <!-- [CONFIDENCE: use class "confidence-high", "confidence-medium", or "confidence-low"] -->
    <!-- Badge text: "High Confidence", "Medium Confidence", or "Low Confidence" -->
    <span class="badge confidence-high">High Confidence</span>
    <!-- [URGENCY: use class "urgency-critical", "urgency-high", "urgency-moderate", or "urgency-low"] -->
    <!-- Badge text: "Critical - Act Now", "High - Within Hours", "Moderate - Within Days", or "Low - Schedule Maintenance" -->
    <span class="badge urgency-critical">Critical - Act Now</span>
    <!-- [PRIMARY_COMPONENT: the primary affected component, e.g. "ARCGIS-PROD-02" or "MapService/Parcels"] -->
    <span class="badge component-badge"><!-- [PRIMARY_COMPONENT] --></span>
  </div>
</div>

<div class="content">
  <!-- Evidence Section -->
  <!-- Include this section when there are supporting metrics (typically 3-5 evidence cards) -->
  <div class="section">
    <h2 class="section-title">Supporting Evidence</h2>
    <div class="evidence-grid">
      <!-- [EVIDENCE_CARD: repeat this block for each piece of evidence (3-5 cards typical)] -->
      <!-- [SEVERITY: use class "severity-critical", "severity-high", "severity-warning", or "severity-normal"] -->
      <div class="evidence-card severity-critical">
        <div class="evidence-metric"><!-- [METRIC_NAME: name of the metric, e.g. "JVM Heap Usage"] --></div>
        <div class="evidence-value"><!-- [VALUE: current value with unit, e.g. "94%" or "2.3GB"] --></div>
        <div class="evidence-context"><!-- [CONTEXT: brief context explaining significance, e.g. "Exceeded 90% threshold for 4+ hours"] --></div>
      </div>
      <!-- [/EVIDENCE_CARD] -->
    </div>
  </div>
</div>

```

HOW WE BUILT IT

AI Reports — the pipeline.

STEP 01

Fetch

Pull alerts and metrics from the Monitor REST API.

STEP 02

Triage

AI assesses severity and decides what's worth investigating.

STEP 03

Analyze

Only run the deep-dives that actually matter.

STEP 04

Report

Generate HTML with insights and recommendations.

KEY DESIGN DECISIONS

"If you do ONE thing this week."

Every report leads with the single priority action.

Adaptive depth.

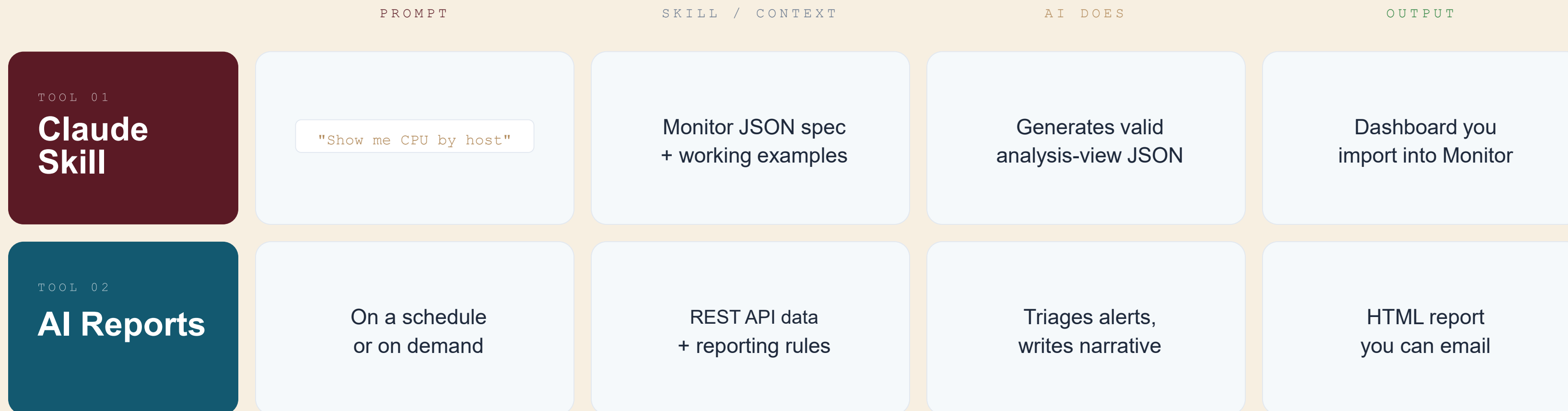
Quiet month = quick summary. Busy month = deep analysis.

Plain language.

Written for the person who doesn't open Monitor.

AI DEMYSTIFIED

Two tools, same pattern.



Same pattern, two levels of automation.

HOW WE BUILT IT

The Claude skill.

DIY: Teach AI Your Domain

01 Export working views.

Real examples are the best instructions you can hand a model.

02 Document the schema.

Field names, valid values, how the pieces connect.

03 Include validation rules.

What makes a view valid versus broken.

04 Iterate.

Let the AI fail, then teach it why.

What Surprised Us

AI learned our 12-column grid layout patterns.

Correctly picks dataview IDs for different queries.

WHERE clauses come out as valid PostgreSQL.

— Works with any AI assistant: Claude, Copilot, ChatGPT.

THE PART MOST PEOPLE MISS

Monitor is probably already in your **license**.

If your agency is on an ArcGIS Enterprise Agreement, Monitor may already be included in your entitlement. You don't need a new platform. You need to use the one you've already bought.

Included in most state-level ELAs

Open REST API — Esri publishes the spec

No new vendor, no new contract, no procurement cycle

CHECK YOUR ELA

What to look for.

Open your Esri Enterprise Agreement. Search for "Monitor" or "Enterprise Monitoring." If it's there, you have the foundation of everything in this talk.

```
$ esri --ela | grep -i monitor → included · seats:  
unlimited
```

KEY TAKEAWAYS

What you can do this week.

NO. 01

Teach AI Your Domain.

Export your Monitor views, document your patterns, iterate. Works with any AI assistant.

NO. 02

Think About Your Audience.

Your stakeholders want summaries, not dashboards. AI translates technical metrics into business language.

NO. 03

Same Pattern Every Time.

Prompt + Instructions + AI = Output.
Start simple, add automation as you go.

NO. 04

Start Small.

Our skill started with one example view. You can start the same way. No strategy doc required.

WHERE TO START

Three doors in.

DOOR 01 · DIY

Build the skill yourselves.

We're publishing our outline. If you have a GIS admin who'd enjoy a Friday afternoon project, point them at it.

Cost: a Friday. Output: a working skill.

DOOR 02 · TAILORED

Hire us to build it.

Same pattern, but tailored to your environment, your services, your alerting rules. Fixed-fee phases.

Cost: a defined project. Output: your skill.

DOOR 03 · MANAGED

Point AI at our Monitor.

We run Monitor for a number of clients. We'll plug an AI report into your inbox without you owning any of it.

Cost: a monthly subscription. Output: your inbox.

§ FIN · LET'S TALK

READY WHEN YOU ARE

Your Monitor's been taking notes. Start reading them.

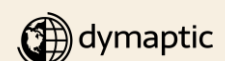
The first conversation is always free. AI Discovery Session is sixty minutes. We'd rather tell you the work doesn't make sense than sell you something you don't need.

[Let's Talk →](#)

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