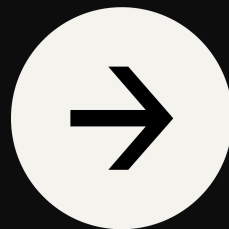




LLMs Are a Commodity. Choice and Control Aren't.

Matt Meeboer, Safe Software



**MCP standardized tool discovery
and invocation. It did not solve
governed execution.**



What happens when...

The data cannot leave
the building?

Useful data must remain
private?

The answer spans 12 systems?

No parser exists for
the format?

The Easy 80%



Slack
Messages



GitHub
Repos



Google Docs

**Most MCP integrations begin where
integration is easiest**

The Hard 20%

Legacy Databases

Running since 1985.
No API. No plans to
change.

Geospatial & GIS

Spatial formats AI
never even parsed.

CAD & BIM

Engineering files with
decades of decisions
buried inside.

Real-Time Data

IoT feeds, SCADA, feeds
that never stop long
enough to export.

On-Prem Systems

Behind the firewall,
and staying there.

Proprietary Formats

500+ data types. No
standard interface, no
shortcuts.

Multi-System Workflows

One result. 12
systems to produce it.

Regulated Data

Can't be moved. Can't
be exposed. Still has
to be used.

“Hard” is not just a format problem



Representation

Binary, spatial, 3D,
streaming



Locality

Cannot or should not move



Computation

Requires a workflow, not a
lookup



Authority

Identity, credentials, policy,
scope

32

years solving
the **hard data**
problem.

Safe Software was not founded to connect cloud APIs. We were founded because the hard data had nowhere to go.

1993 Founded - spatial data integration

2000s CAD, BIM, 100+ formats supported

2010s Cloud, IoT, enterprise systems, real-time data pipelines

2020s Orchestration, automation at enterprise scale

2025- **MCP - exposing all of it to AI**

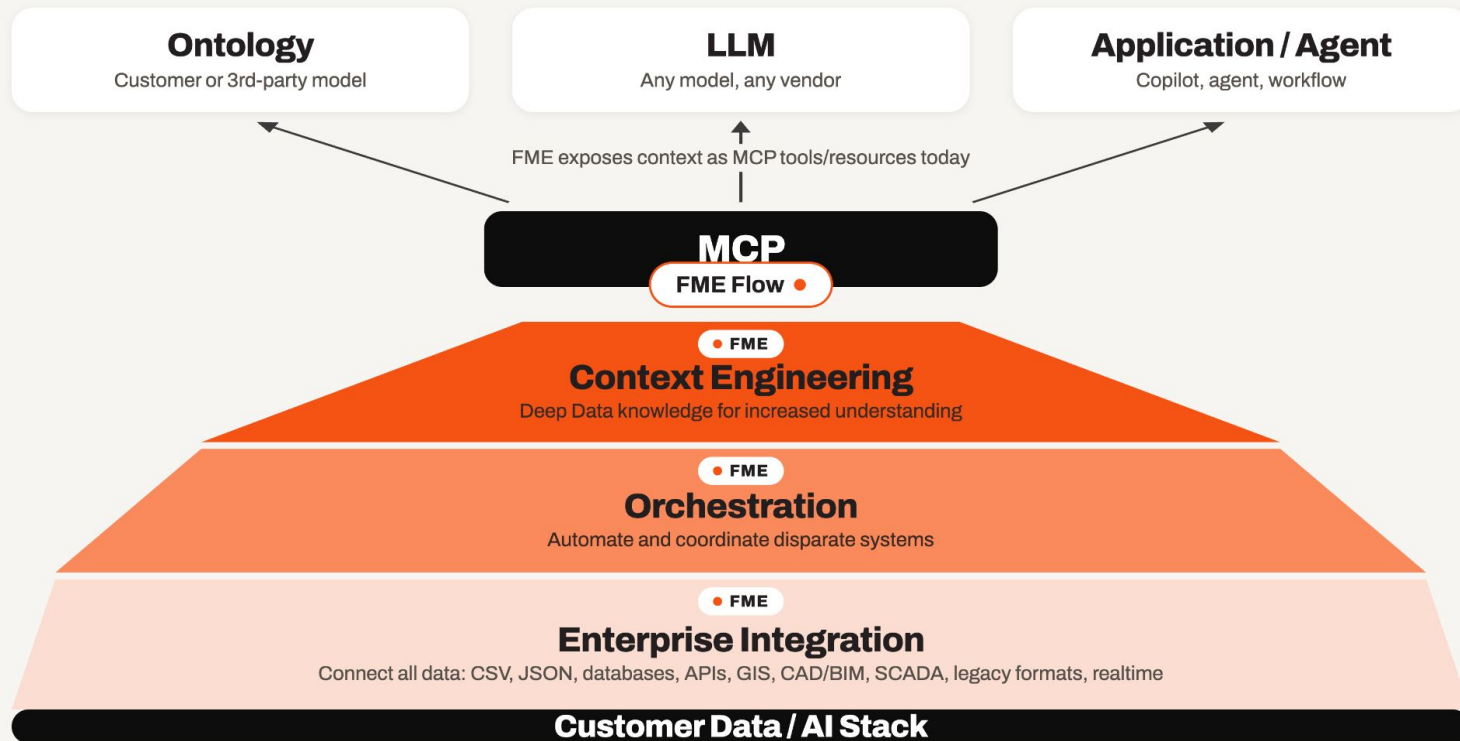
MCP Is the Exposure Point, Not the Foundation.

■ FME does this today

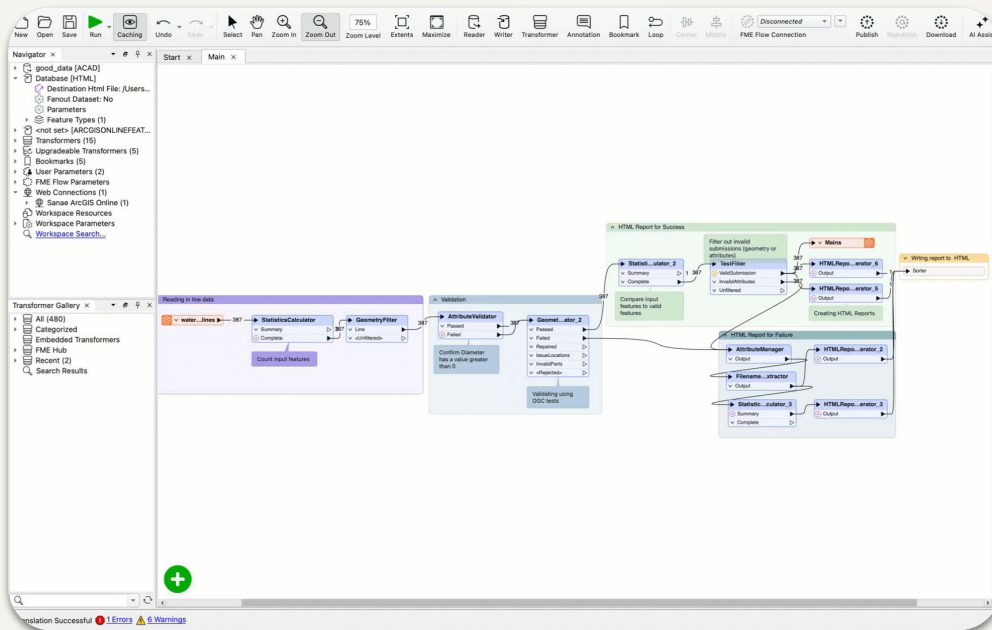
■ FME exposes this (MCP)

□ Consumers built on top (not FME's to build)

AI decisioning & autonomous outcomes — driven by whichever consumer sits here



FME is a **no-code platform** for building data workflows.



Connect

500+ formats and systems



Validate & Transform

Geometry, attributes, schemas, file structure



Combine

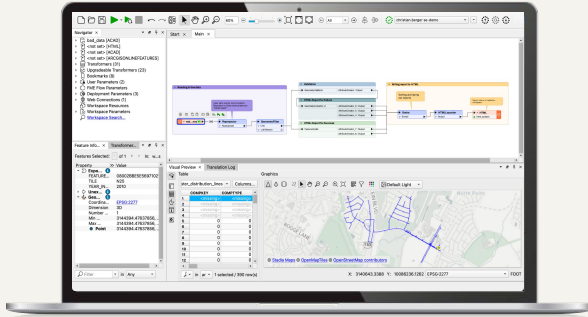
Join across disparate systems in one run



Protect

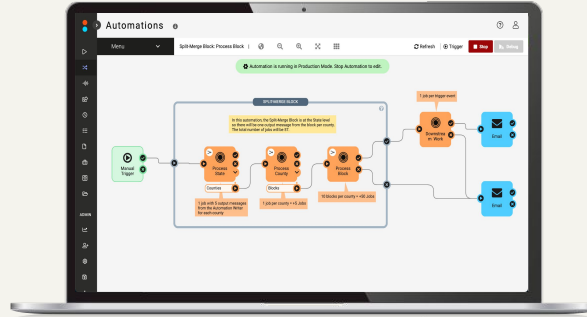
Strip attributes, generalize geometry, control what leaves

FME Enterprise Integration Platform



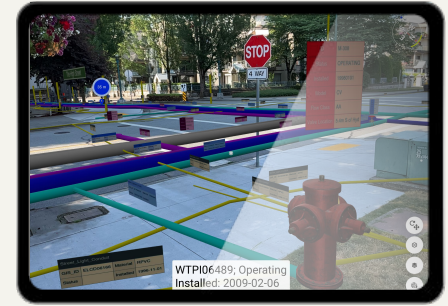
FME Form

Data movement and transformations
workflows are built here.



FME Flow

Brings life to FME Form *workflows*
 **FME Flow Hosted**
Safe Software SaaS Version of FME Flow



FME Realize

Experience data in real world
context, in real time.



FME:

All Data. Any AI.

● All Data Velocities

Batch (ETL, Reverse ETL, ...)

Event (BPA, RPA, ...)

Stream

● All Data Locations

Any Cloud

On-premises

Hybrid

Edge

Containers

Embedded

Mixed

● All Data Types

Unstructured

Structured

Spatial

APIs

Web Apps

...

● Any AI Technology

OpenAI

Amazon Bedrock

Google Gemini

Ollama

Deepseek

Composite

Turn an FME workflow into an MCP tool.

FME Workflow

Your data logic or tool built here.



FME Flow's MCP Server

Publish it.

Identify as an MCP Tool.

That is it.

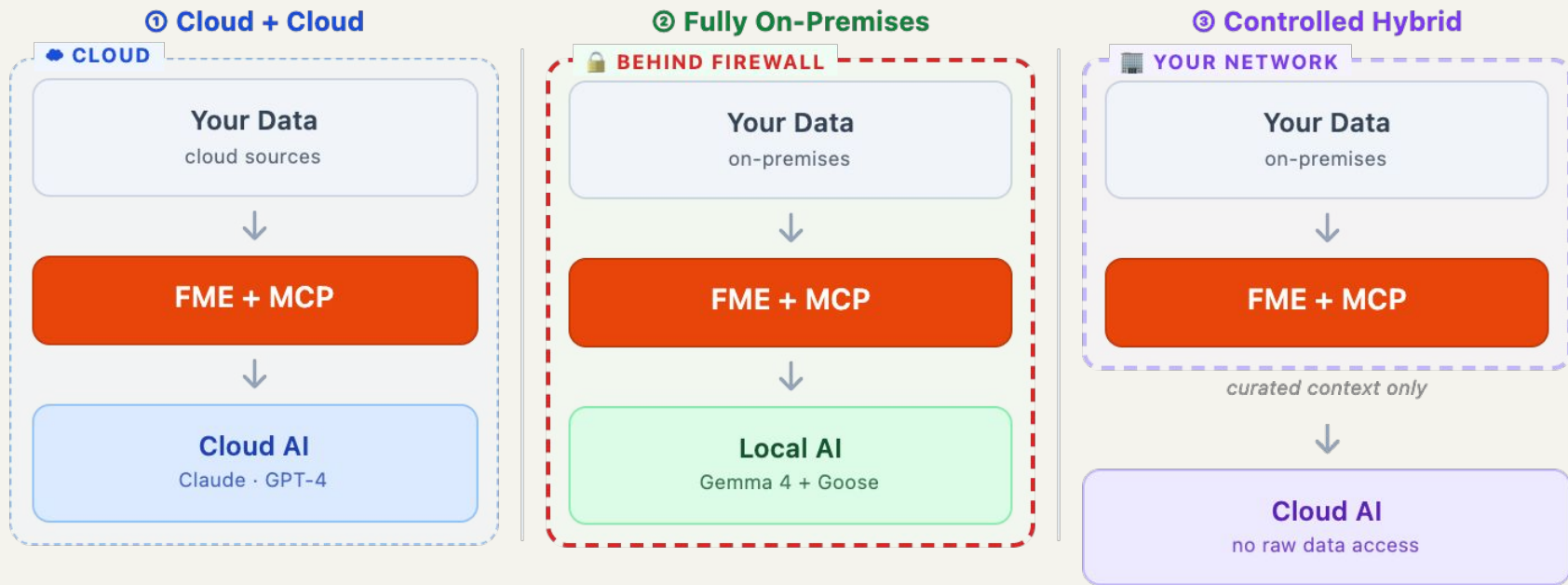


Any MCP Client

Claude, OpenAI, Gemini, Co-Pilot,
your agents, any MCP Client

Build once. Use it from any MCP Client.

The contract can be remote. Execution stays with the data.



Control who connects and what the tool can do.

Connection layer

OAuth 2.0 + SAML mapping

Who is the client?

Which MCP server can it reach?

Execution layer

Which identity executes?

Which systems and records can the tool touch?

Which transformations are permitted?

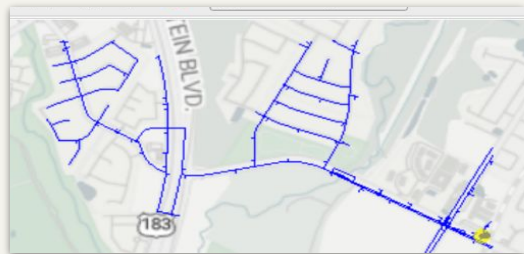
credentials

data scope

transformation

Deliver spatial data to any AI

With FME Flow's MCP Server



Vector

Points, lines, polygons. Parcels, networks, boundaries.



Raster/Imagery

Imagery and pixel values. Satellite, aerial, elevation.



3D and BIM

LiDAR point clouds and engineering models in Revit or IFC.

FME can interpret model that represents this building, every element, and return it via MCP

What happens when...

The data cannot leave
the building?

Useful data must remain
private?

The answer spans 12 systems?

No parser exists for
the format?

What happens when...

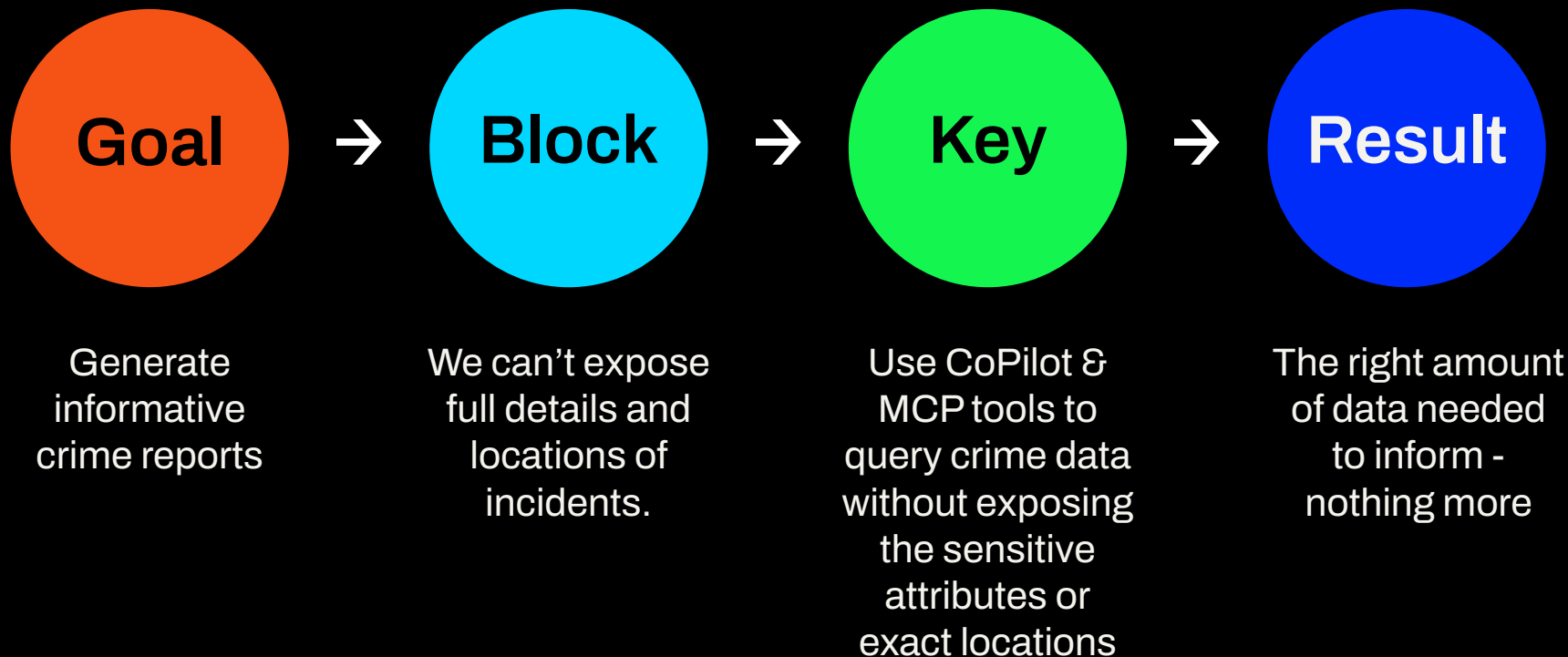
The data cannot leave
the building?

The answer spans 12 systems?

Useful data must remain
private?

No parser exists for
the format?

Orchestrating Crime Reporting with CoPilot



Protecting Privacy While Preserving Location Intelligence

Source risk

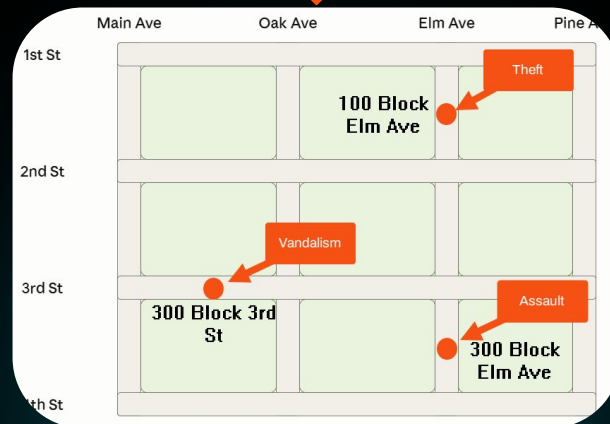
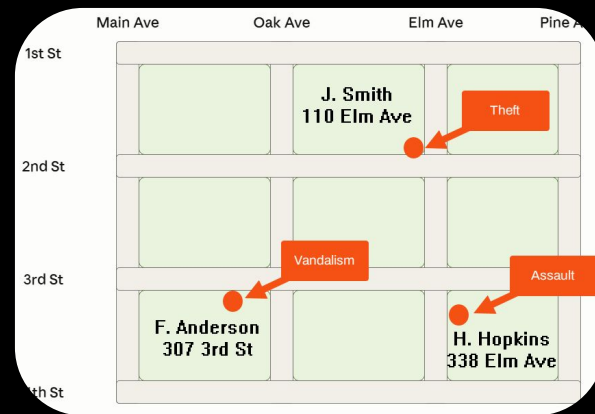
- Exact addresses
- Names and other identifying information
- Individual incident locations

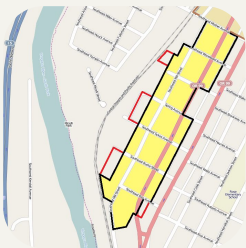
Block

Required output

- Personal information removed
- Exact locations generalized
- Geographic patterns preserved for analysis

Goal

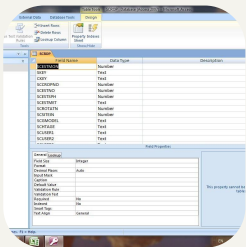




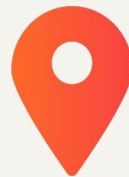
Neighbourhood boundaries



Street network



Crime records



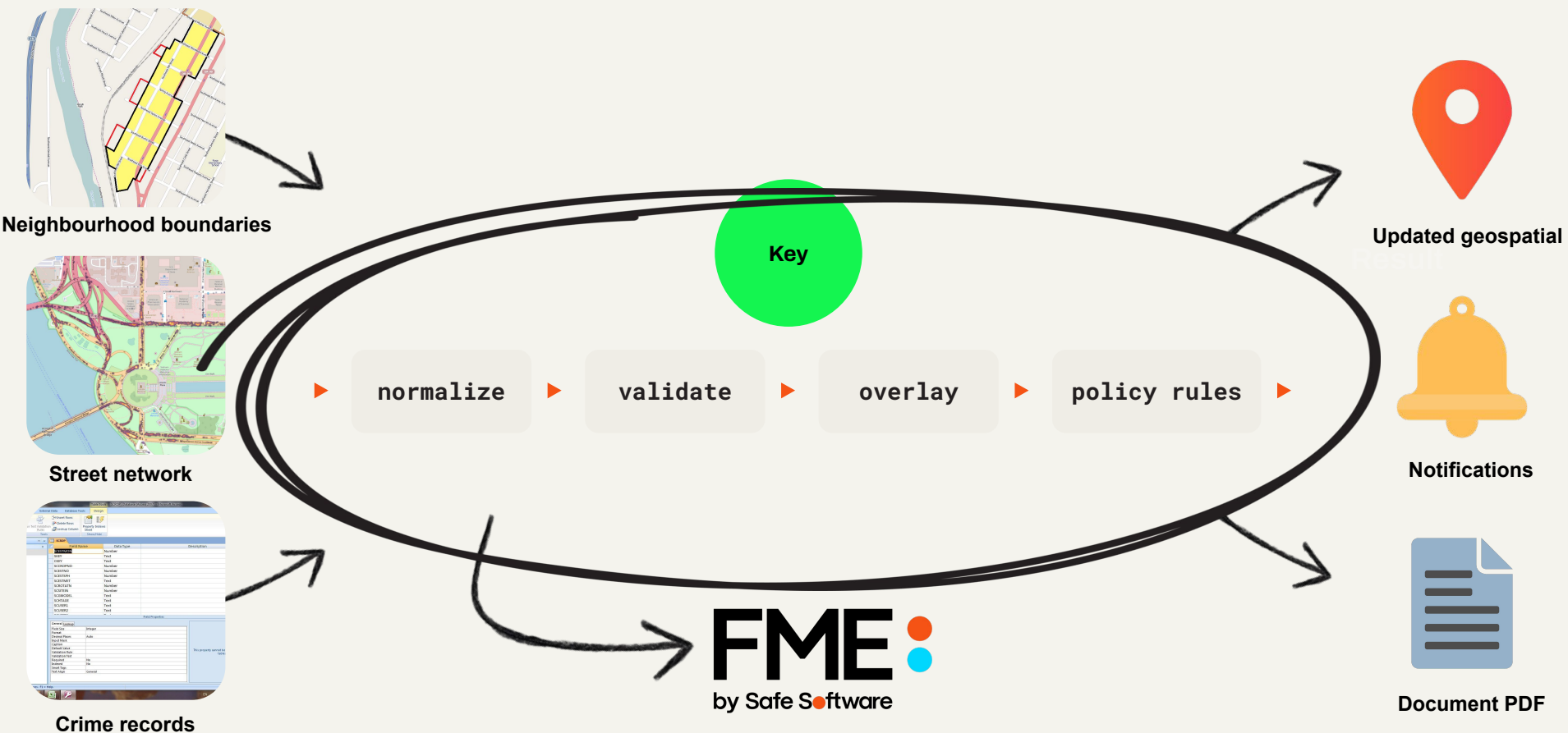
Updated geospatial



Notifications



Document PDF



Expose the tool - not the system.

Direct System Access

```
run_sql(query)
```

```
read_file(path)
```

```
call_api(url, body)
```

Purpose-Built Tools

Find Crimes: Street, Incident Type, Distance

Neighborhood Crimes: Neighborhood

Create Report: Neighborhood, Teams Channel



Key

Demo



Crime Data 1.0.0

Crime-Data

Stop MCP Server

Tools Server Details

Search tool title or name

Create

PUBLISHED

Create Report createReport
Creates a pdf report of crimes for a neighbor...
queryCrimeDatabasekpg.fmw

Find Crimes findCrimes
Search for reported crimes on a given street ...
queryCrimeDatabasekpg.fmw

Neighbourhood Cri... neighbourhooCm...
This tool pulls in the crimes for each neighbo...
findCrimeByNeighbourHood.fmw

NOT PUBLISHED

Draft Tool Draft-tool
This tool is not ready yet.
No workspace assigned

Find Crimes

Cancel

Unpublish

Save

findCrimes

Details Parameters

Tool Details

Name*

Unique identifier for the tool.

findCrimes

Title

Optional display name for the tool.

Find Crimes

Description

Describe the tool's purpose, the task it should perform, the format of its output, and any additional constraints, requirements, or context needed.

Search for reported crimes on a given street by street name. Optionally accepts a buffer distance (in meters) to also return crimes within that radius of the street. Results are anonymized to the block level rather than exact addresses.

Job Settings

Repository

MCP Tools

Workspace

What actually crossed the boundary?

Stayed inside the execution plane

- Private source records
- Exact and intermediate geometries
- Source credentials
- System topology
- Workflow implementation

Crossed the MCP interface

- Narrow request parameters
- Bounded result
- Generalized or aggregated data
- Approved resource link
- Minimal job outcome

Three rules for the hard 20%

- 1** Expose tools, not raw systems.
- 2** Keep authority and execution close to the data.
- 3** Make schemas, outputs, and versions part of the contract.

The Power of Choice

And this is what you just watched. You chose what AI could see.



Deploy Anywhere

On-premises, any cloud, hybrid, edge and more. Your infrastructure. Your rules.



Any Data Source

1000s of formats. Systems built before APIs existed. If it holds data, FME reads it.



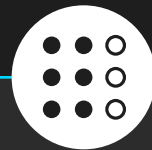
Full Governance

Sensitive data never leaves your perimeter. Compliance is architecture, not paperwork.



Any AI Model

OpenAI today, something else tomorrow. Your data layer does not care who wins.



Data Exposed to AI

Choose the data AI sees. Pick the rows. Pick the columns. Obfuscate anything else.

Thank You

Safe Software

Come visit!
Booth P2

