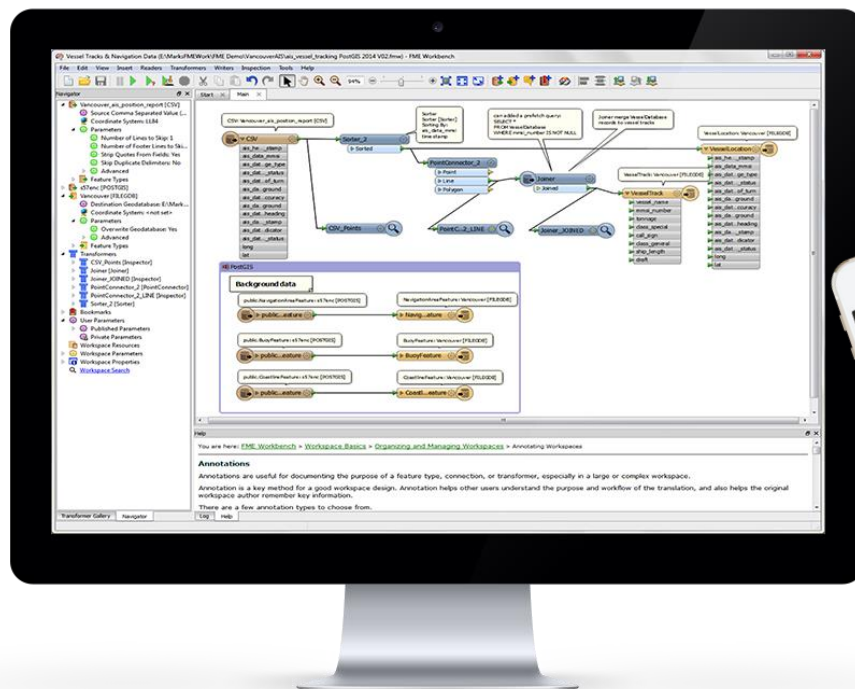


# An Introduction to FME



# WHO WE ARE quick facts



- axmann is a leading **IT-company** providing services for **geodatenmanagement**, founded 1999.
- **5 employees** (including **FME Professionals** and **Certified Trainers**), 3 freelancer and the access to a pool of more than 30 software engineers at rmDATA ensure axmann's success.
- More than **120 customers** and the status as a **Safe Gold Partner** proved axmann as the major competence centre for FME-technology in the region.
- axmann is owned by **rmDATA**: a leading software development company for geodetic and GIS-software.

# WHO WE ARE specialization



We offer products and services for:

- geodata management
- geodata quality ensurance
- GIS migrations
- geodata processing
- geodata shop

Our products are:

- FME Technology (Desktop, Server, Cloud) + PlugIns
- [checkgeodata.net](https://checkgeodata.net)

# Key Markets and Clients



Utilities



Oil & Gas



Government



Telecommunication



Transportation

axmann geoinformation  
Hirschstettner Strasse 19 (Objekt I)  
1220 Wien  
AUSTRIA  
Phone: +43 1 2039147

**we shape your data**



Thomas Galka  
thomas.galka@axmann.at

# WHO WE WORK WITH



**esri**  
Partner  
Network  
Silver



**Pitney Bowes**



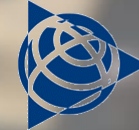
GE imagination at work



**AUTODESK**  
Authorised Developer



Google  
Partner



**Trimble**



**Bentley**  
Sustaining Infrastructure

**INTERGRAPH**

**TERADATA**

THE BEST  
DECISION  
POSSIBLE™

**informatica**



**Microsoft**

**ORACLE**

**PARTNER**

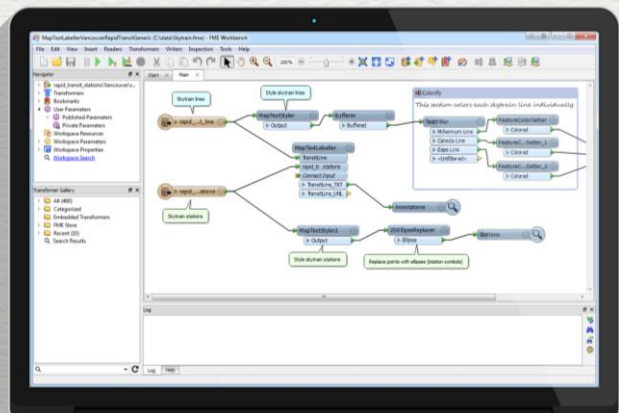


**Socrata**

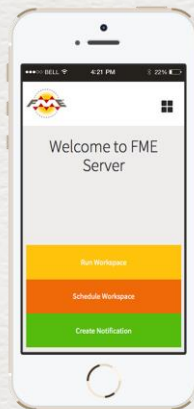
# Safe Software

## 3 Core Products

FME Server



FME Desktop



FME Cloud



FME Desktop

Intuitive Workflow  
Authoring



FME Server

Enterprise Automation



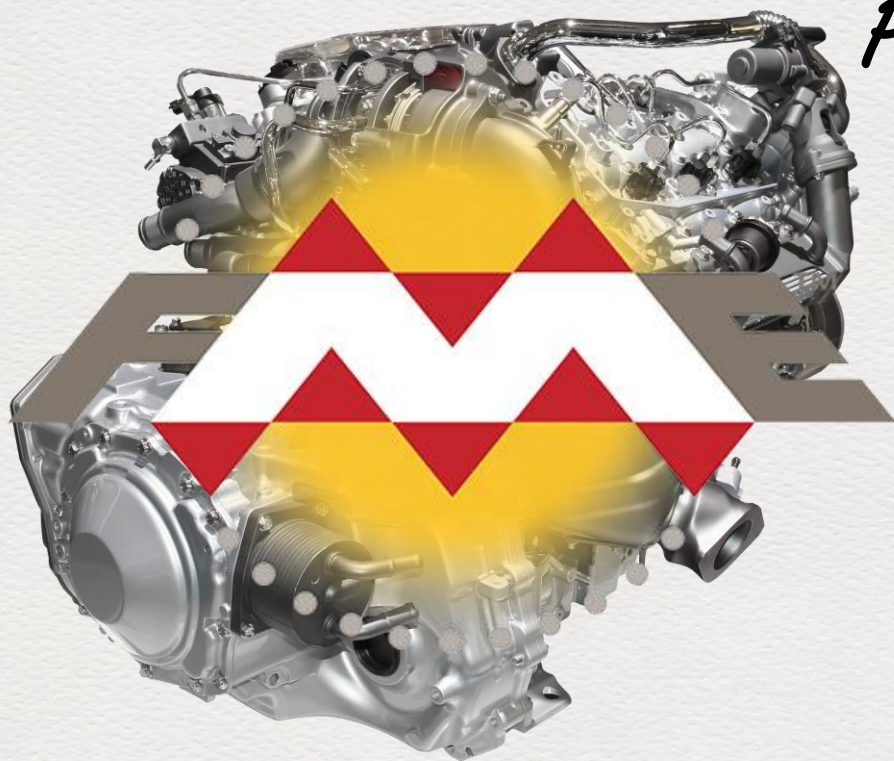
FME Cloud

Take Automation to the  
Cloud



# FME Engine

All Safe products share a common platform



*Powered by FME Engine...*

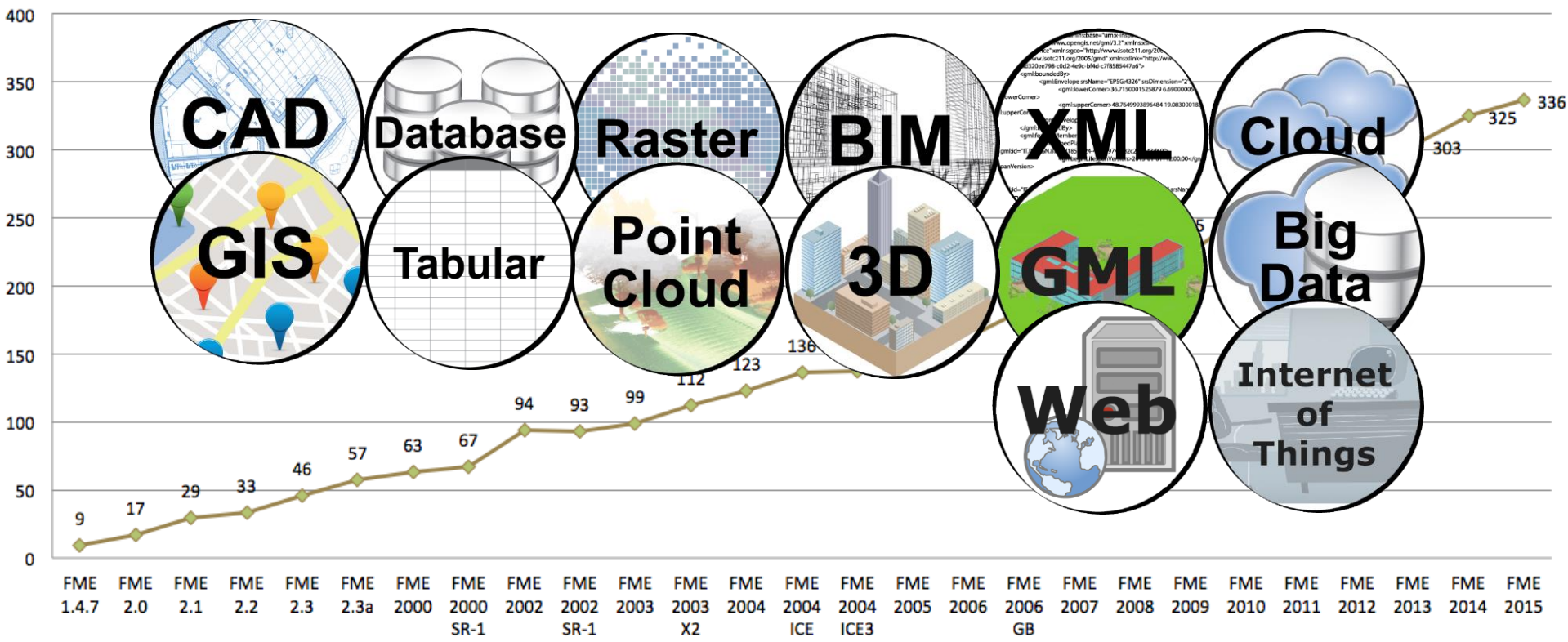
*...driven by FME Workspaces*

- Choice of operating platform:
  - Windows
  - Linux
  - MAC OS
- 32 or 64 bit FME





# CONNECT HUNDREDS OF FORMATS WITH FME



# INTEROPERABILITY

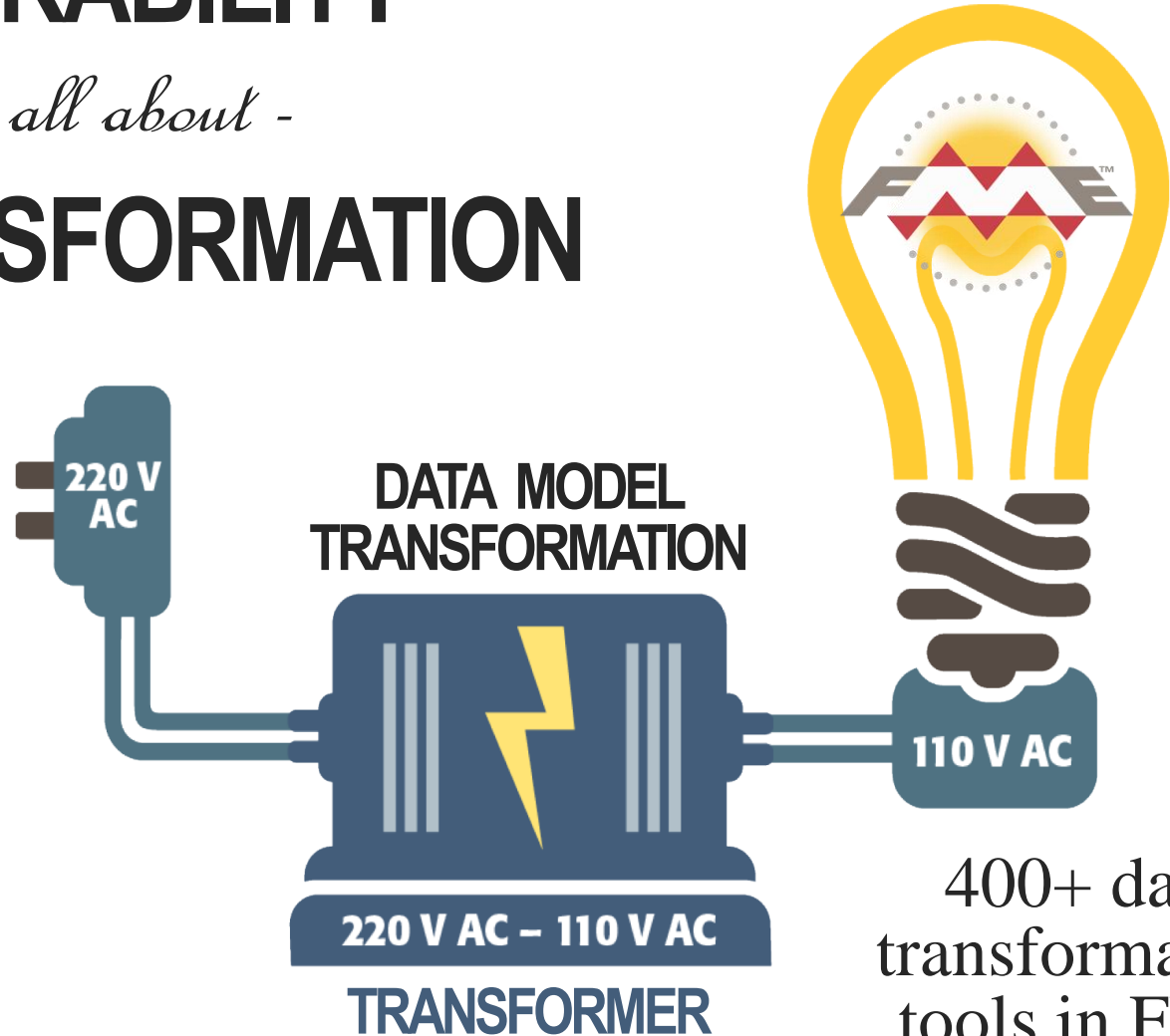
*- is all about -*

## TRANSFORMATION

Connect to  
your format

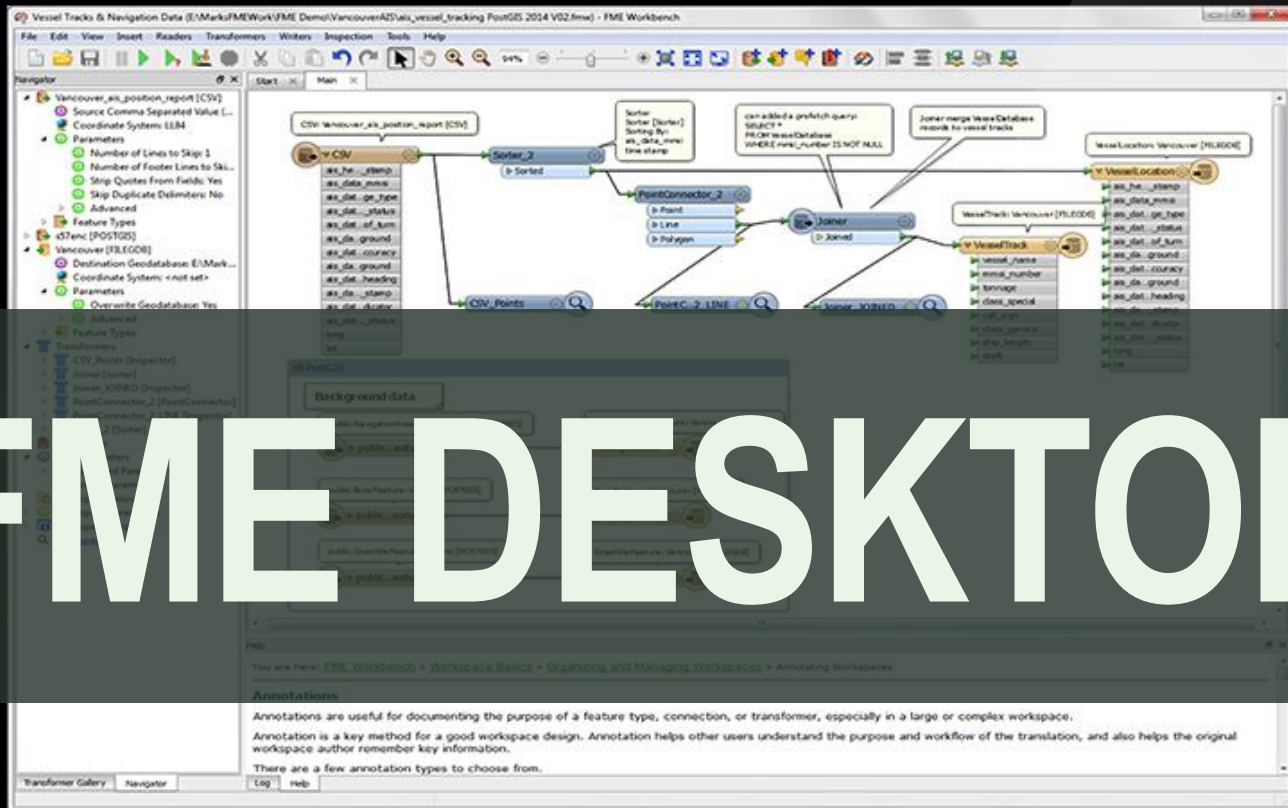
*- and -*

Transform the  
data  
model



400+ data  
transformation  
tools in FME

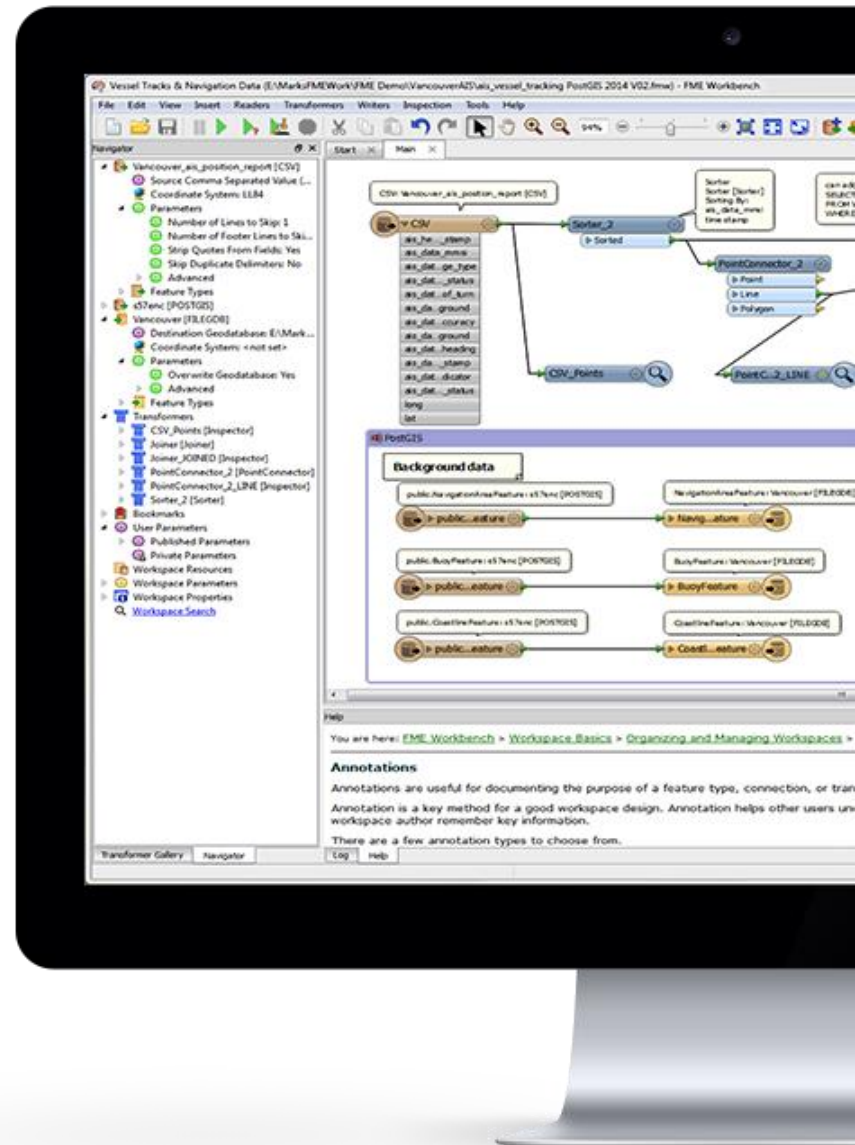
# FMEDESKTOP





# WORKBENCH

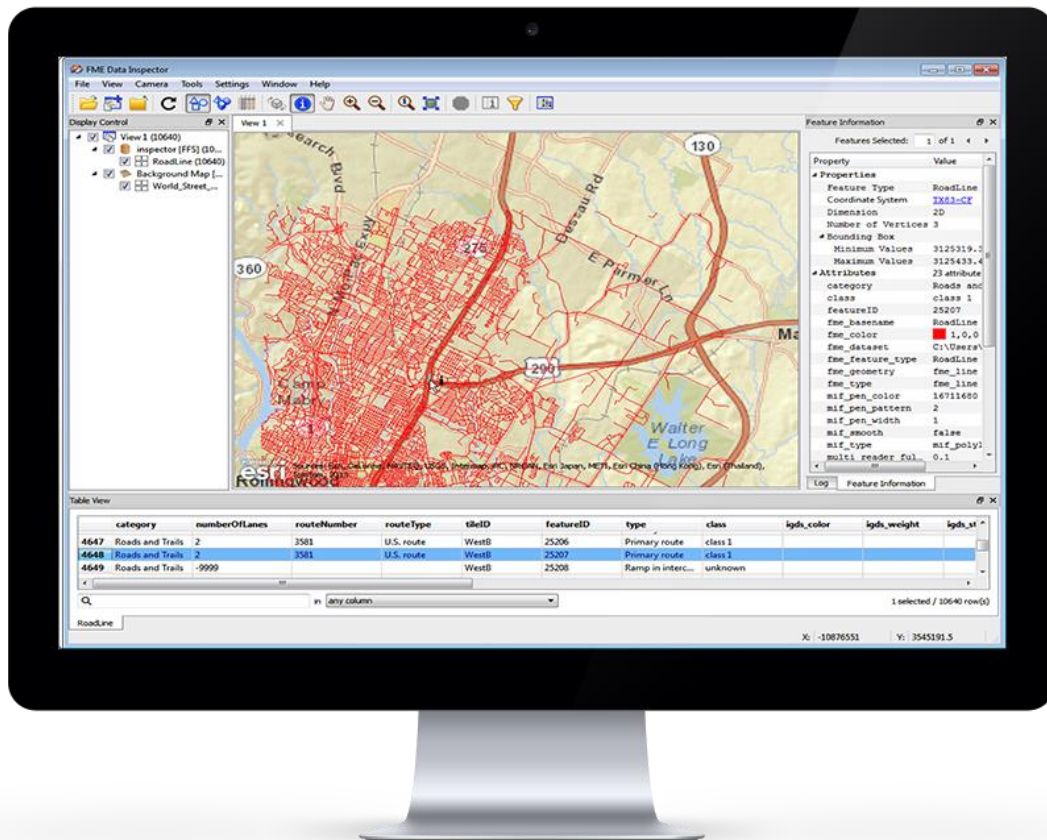
- Everything FME starts here
- A graphical authoring environment used to create repeatable workflows
- Author FME workflows with a library of 400+ powerful data transformers



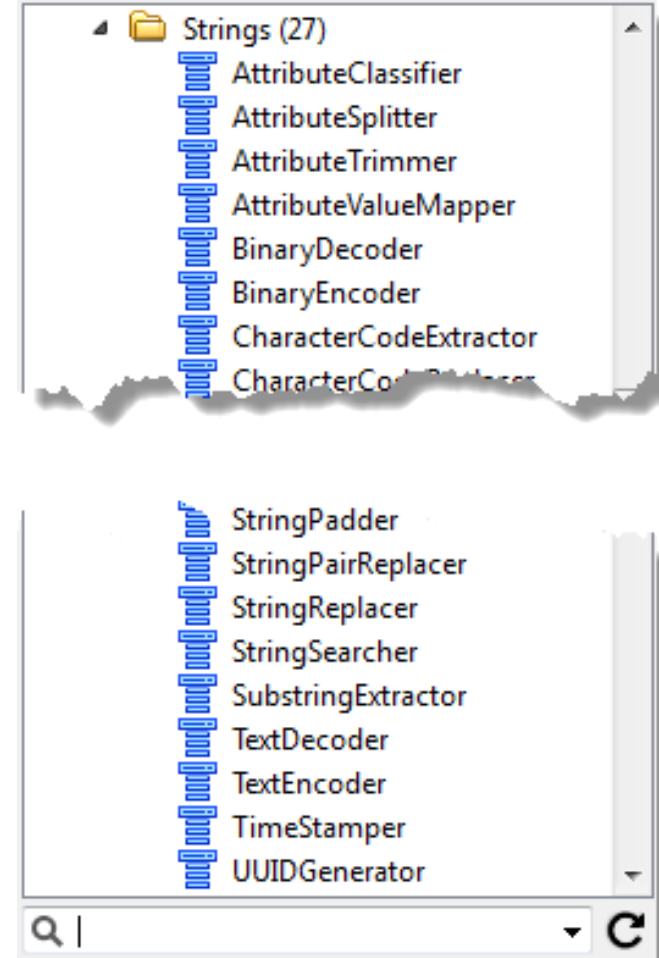
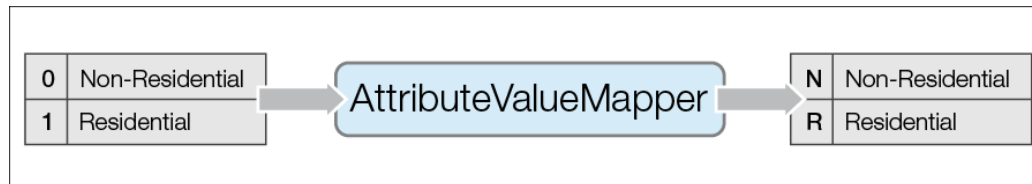
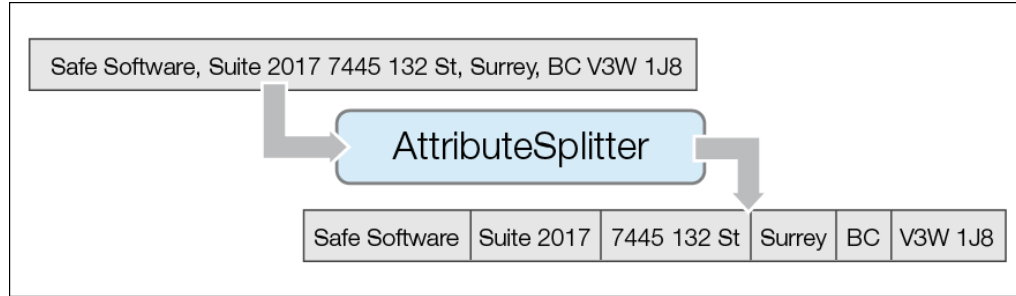


# DATA INSPECTOR

Inspect data structure -  
before, during, and after  
transformation.



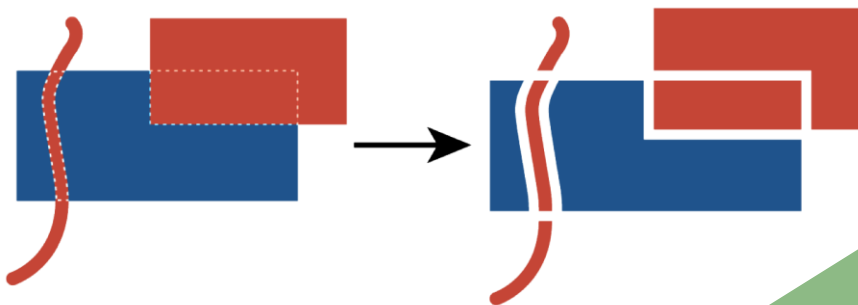
# ATTRIBUTE TRANSFORMATIONS



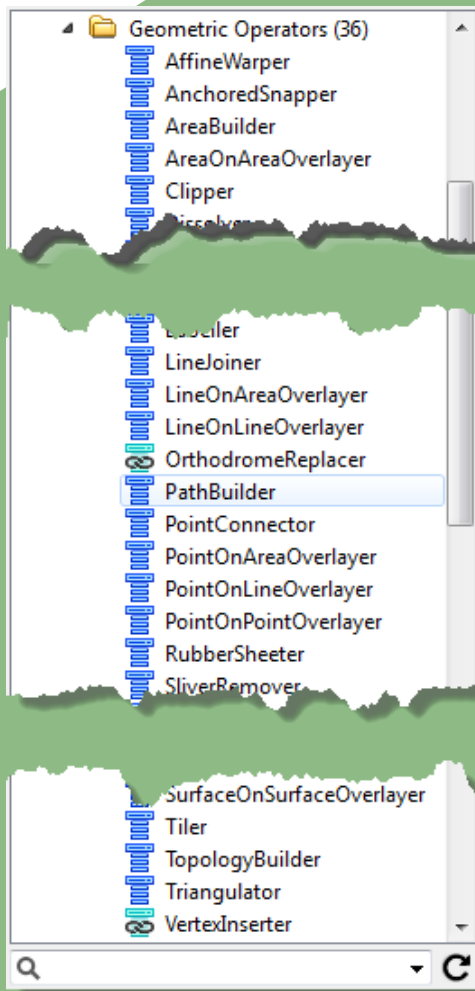
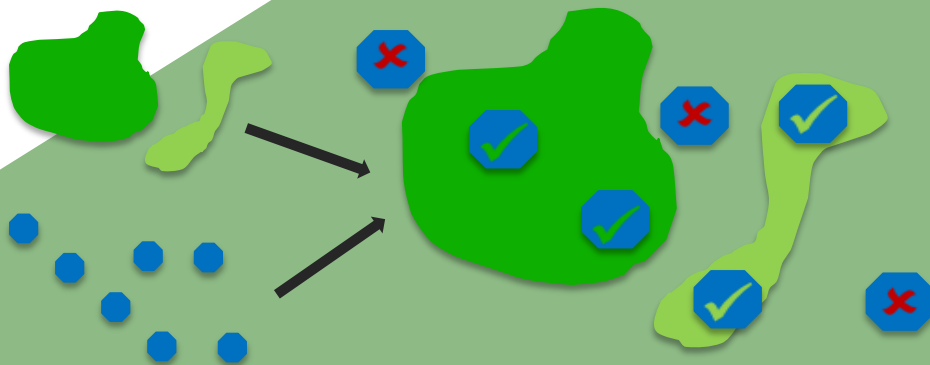


# VECTOR GEOMETRY TRANSFORMATIONS

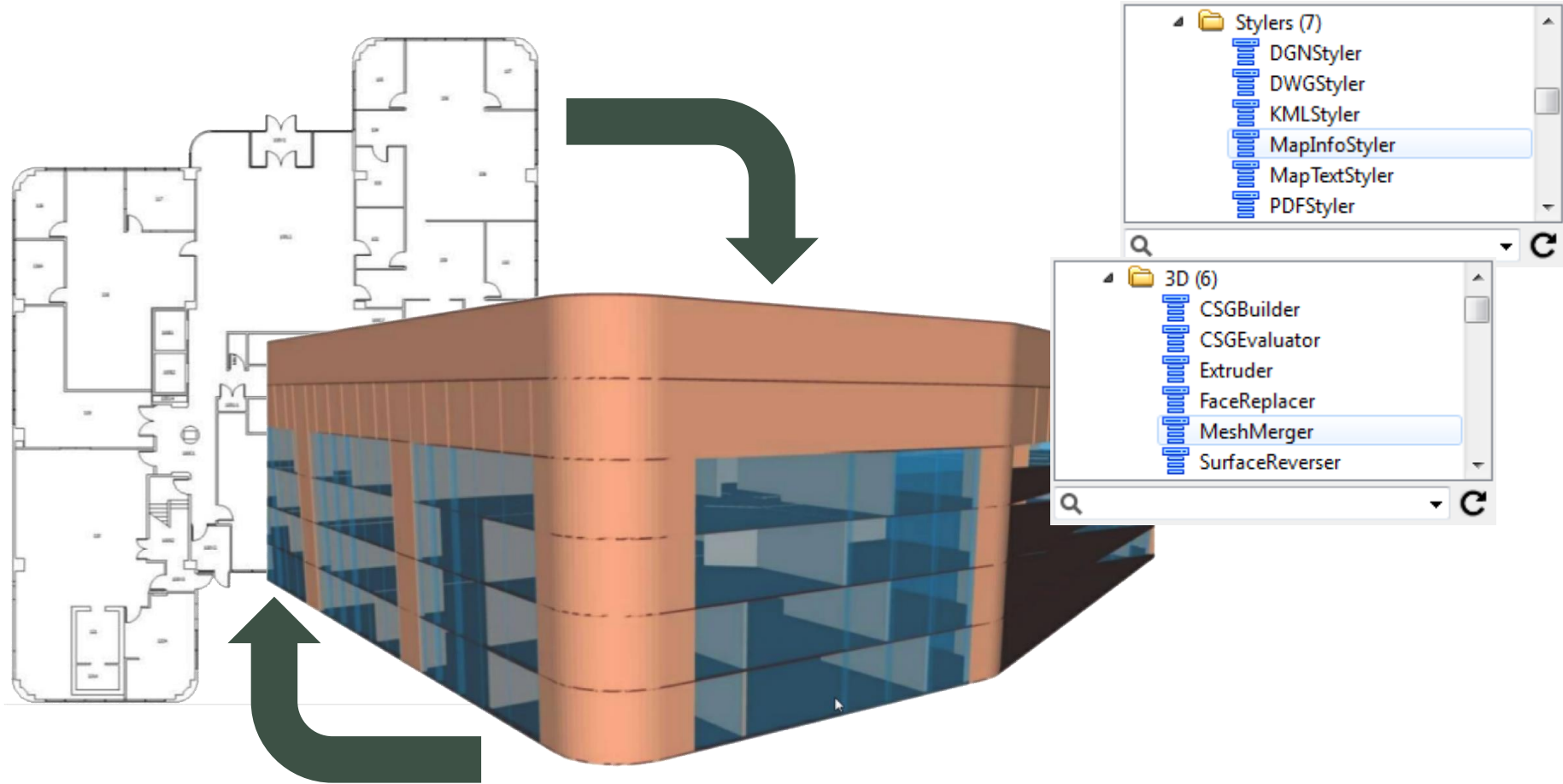
## Example: Clipper



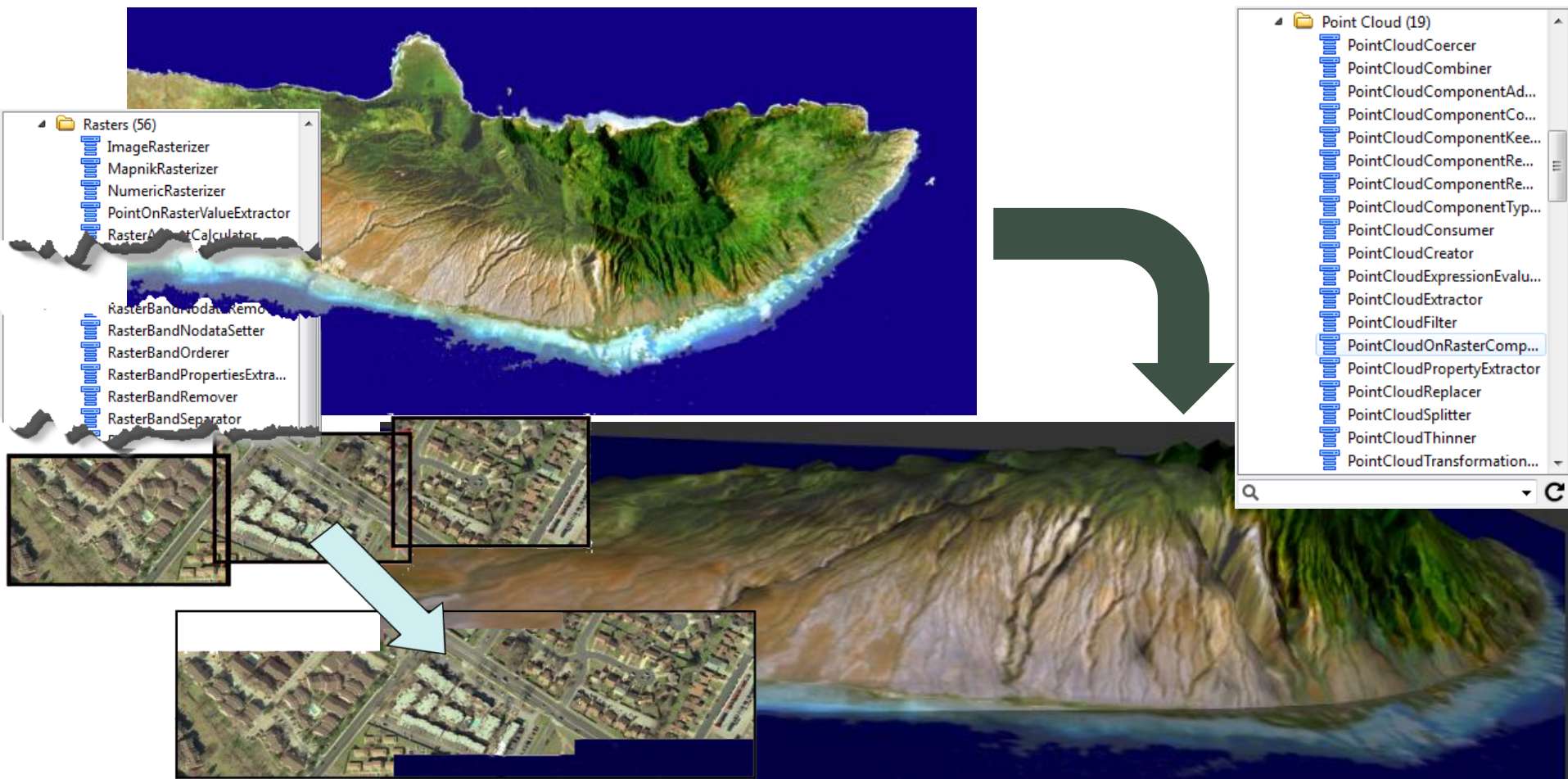
## Example: PointOnAreaOverlayer



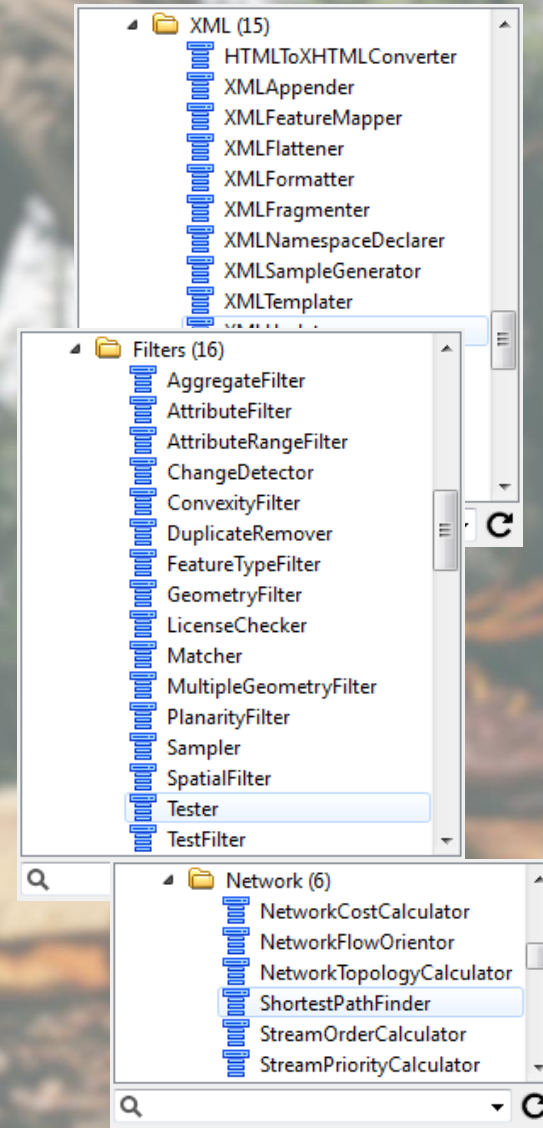
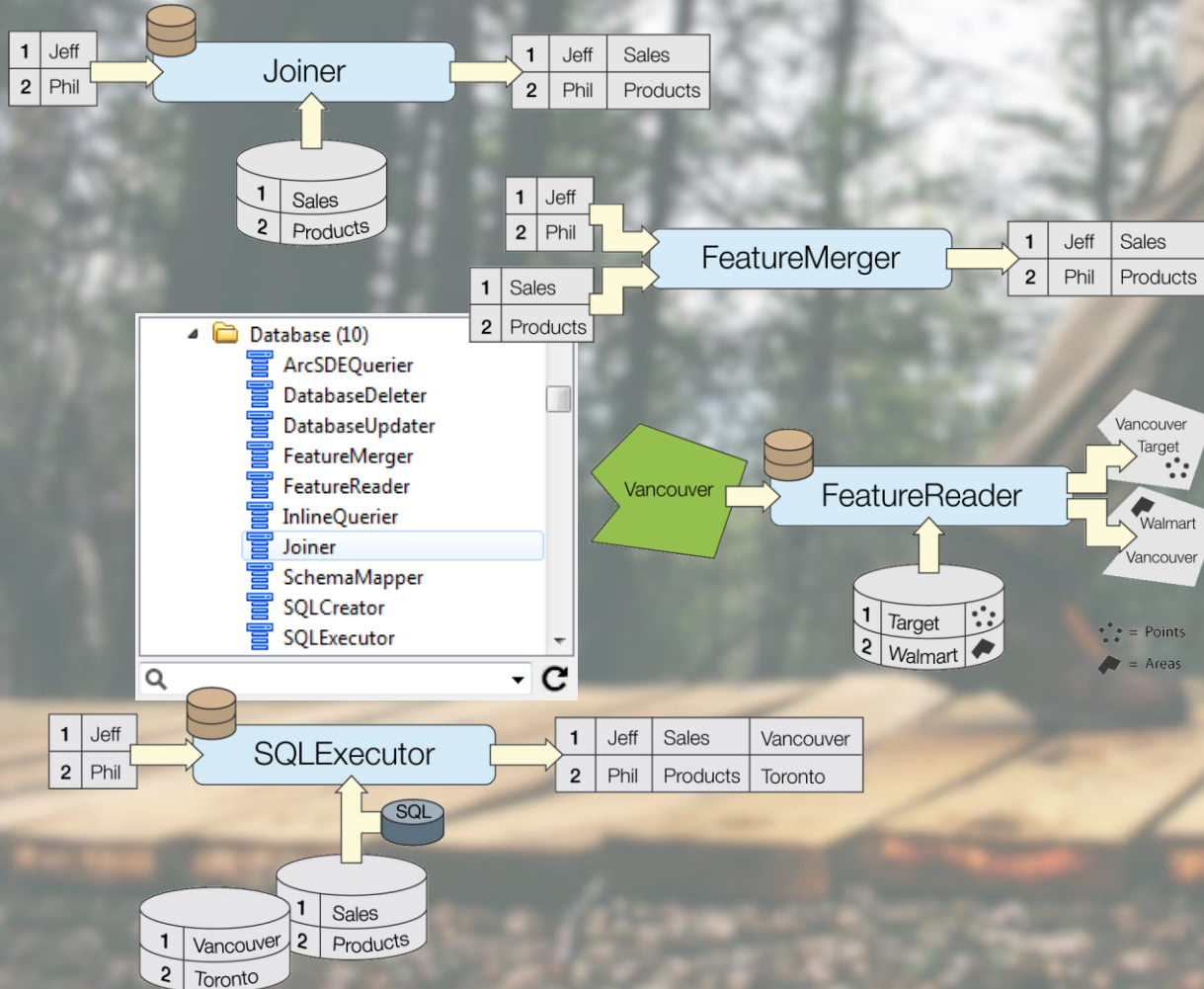
# CAD, 3D AND BIM TRANSFORMATIONS



# RASTER AND POINT CLOUD ( LIDAR )



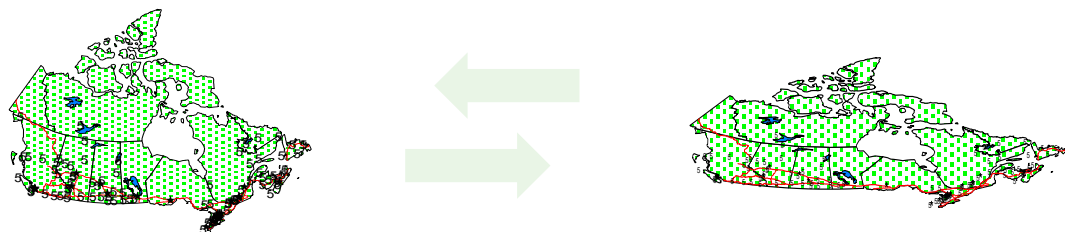
# OTHER TRANSFORMATIONS





# TYPES OF TRANSFORMATIONS

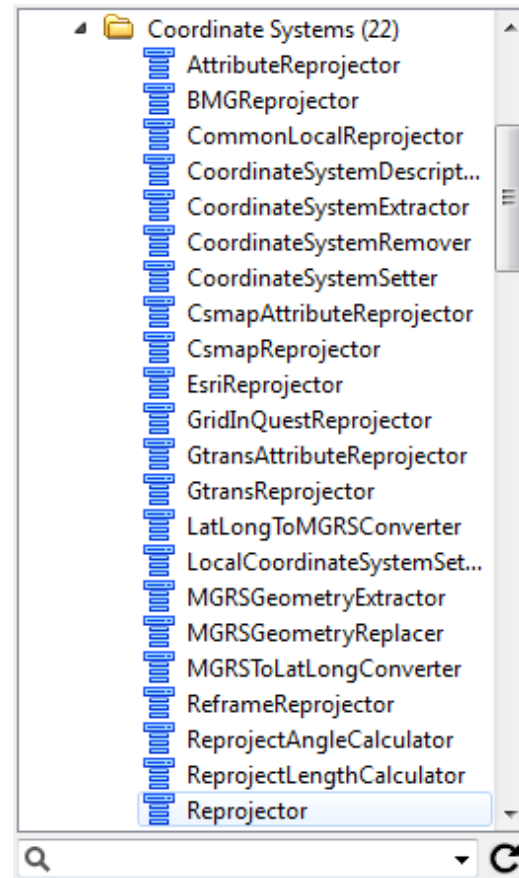
## Coordinate system transformations



- Fast and easy projection conversion
  - > 2000 predefined coordinate systems
- Support for user-defined systems (projection, datum, ellipsoid)

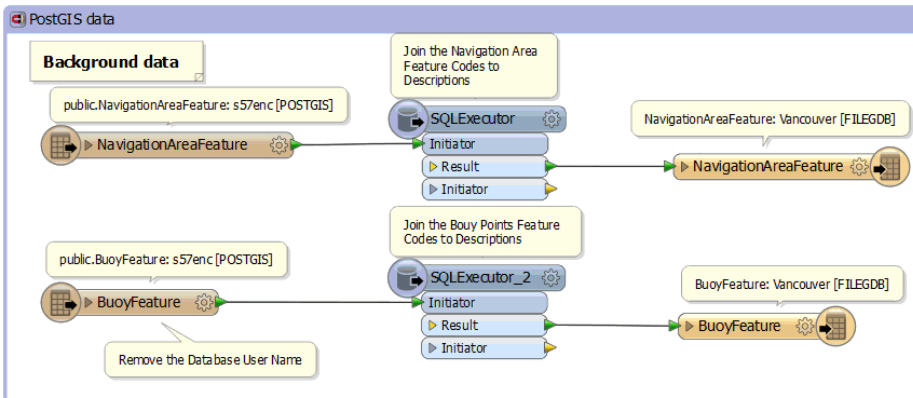
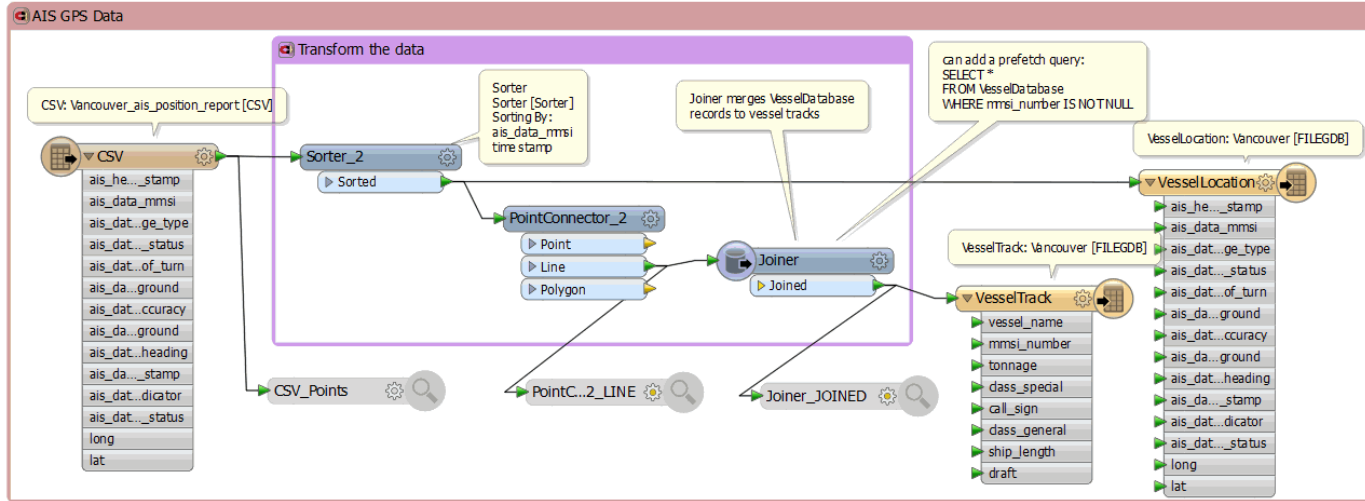
BritishNatGrid	LL WGS-84
Belge72.Lambert72A	Italy-32
EPSG references	State plane

and  
many  
more...



# FME DESKTOP PRODUCT

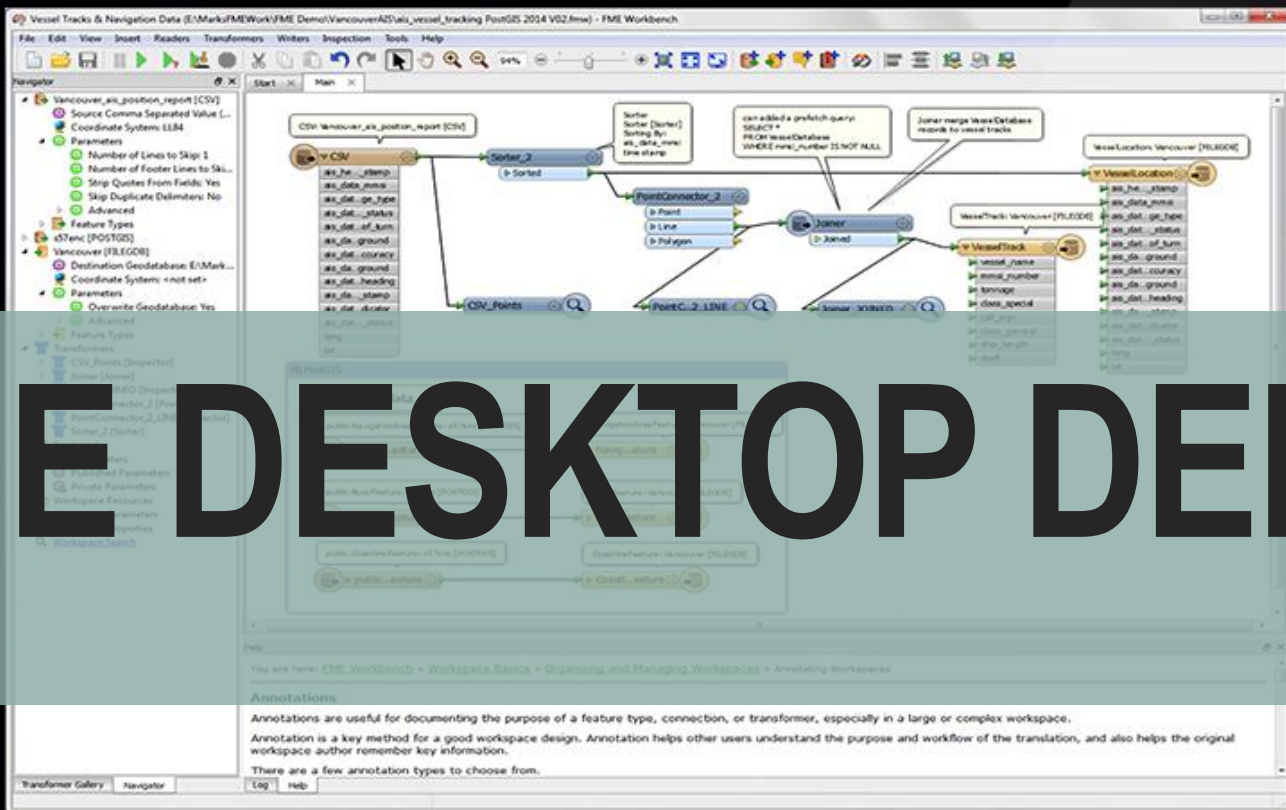
# FME WORKBENCH APPLICATION



## FME Workspace

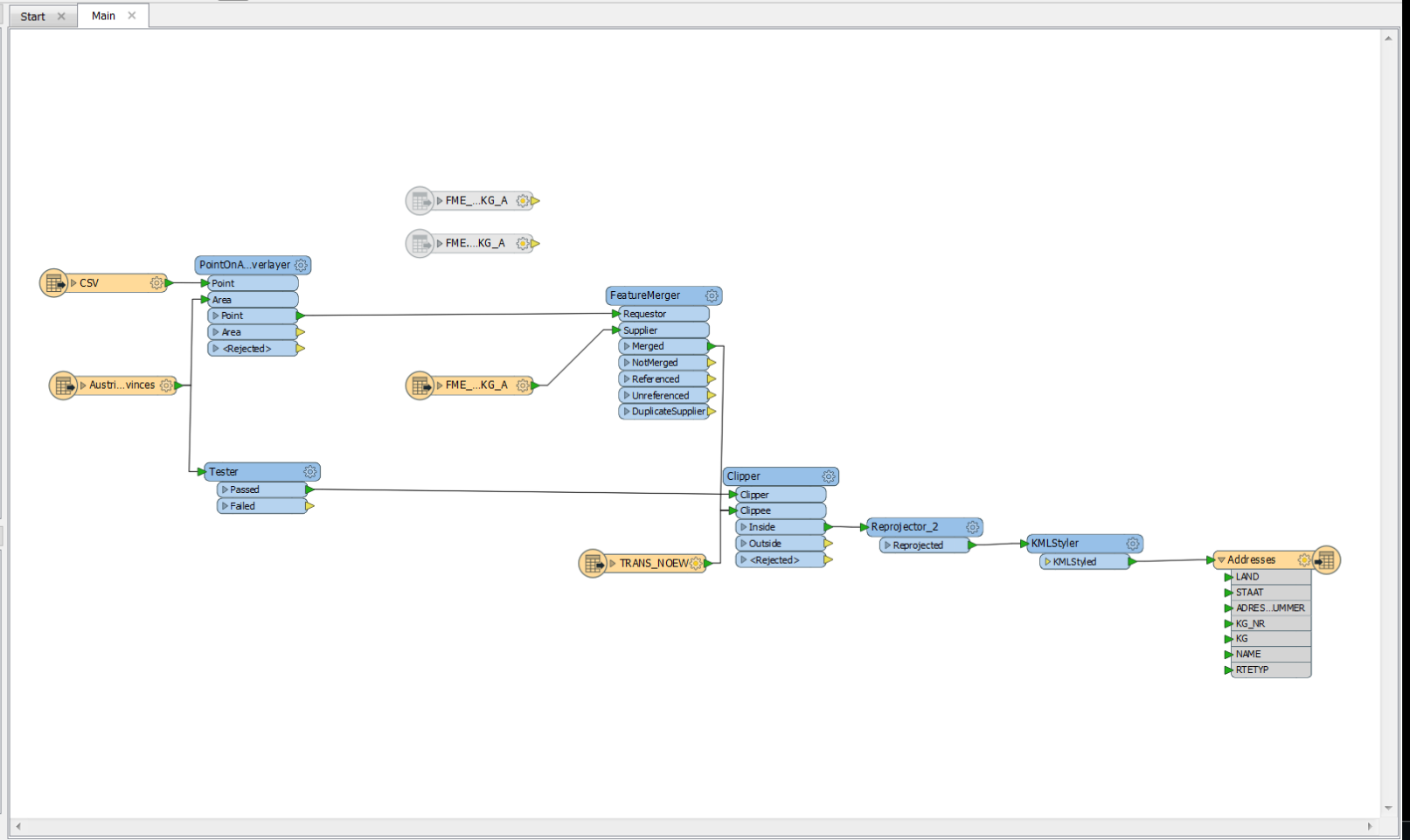


# FME DESKTOP DEMO



- Navigator
- ▶ AustriaProvinces [ESRISHAPE]
  - ▶ PR\_WSDB [FILEGDB]
  - ▶ PR\_WSDB [MSACCESS\_JDBC]
  - ▶ FME on AXMANN-10 [ORACLE\_NON...]
  - ▶ PR\_WSDB [SQLITE3]
  - ▶ Addresses [CSV]
  - ▶ Addresses [OGCKML]
  - ▶ Transformers (6)
  - ▶ Bookmarks
  - ▶ User Parameters (18)
    - ▶ Published Parameters (1)
    - ▶ Private Parameters
    - ▶ FME Server Parameters (17)
  - ▶ Database Connections (1)
    - ▶ FME on AXMANN-10
  - ▶ Workspace Resources
  - ▶ Workspace Parameters
  - ▶ Workspace Properties
  - ▶ [Workspace Search](#)

- Transformer Gallery
- ▶ All (480)
  - ▶ Categorized
  - ▶ Embedded Transformers
  - ▶ FME Store
  - ▶ Recent (10)
  - ▶ Search Results



▼ Suchen

Suche

Beispiel: Computerläden in der Nähe von Dresden

[Route berechnen](#) [Verlauf](#)

▼ Orte

- ☒ Meine Orte
- ☒ [Sightseeing-Tour](#)  
Achten Sie darauf, "3D-Gebäude" als Ebene auszuwählen
- ☒ Temporäre Orte
- ☒ Addresses

▼ Ebenen

[Google Earth-Galerie >>](#)

- ☒ Primäre Datenbank
  - ☐ [Voyager](#)
  - ☐ Grenzen und Beschriftungen
  - ☐ Orte
  - ☐ Fotos
  - ☐ Straßen
  - ☐ 3D-Gebäude
  - ☐ Ozean
  - ☐ Wetter
  - ☐ Galerie
  - ☐ Globales Denken

