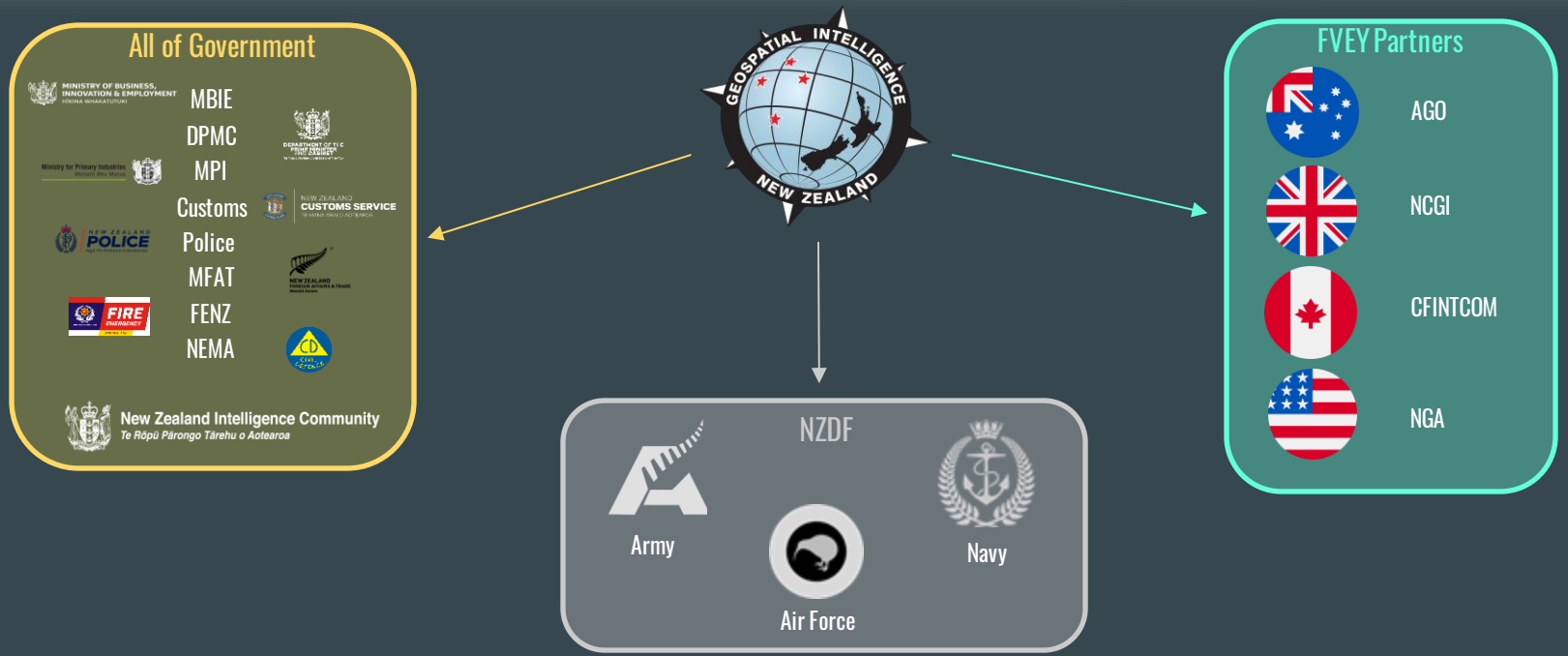
FME Powering NZDF GEOINT ETL

GEOINT NEW ZEALAND

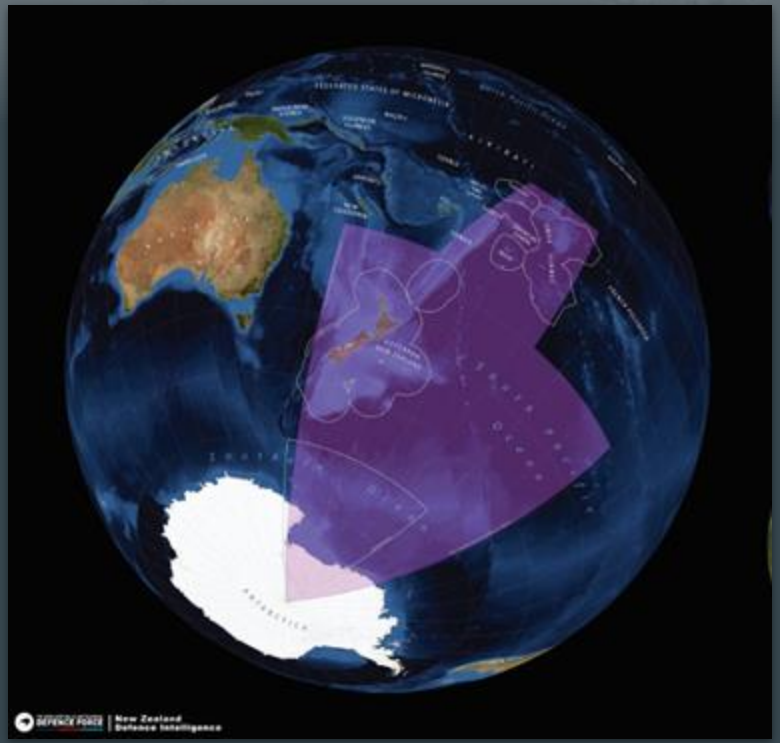
GNZ Support


All of Government
MBIE
DPMC
MPI
Customs
Police
MFAT
FENZ
NEMA
New Zealand Intelligence Community
Te Rōpū Pārongo Tārehu o Aotearoa
GEOSPATIAL INTELLIGENCE
NEW ZEALAND
FVEY Partners
AGO
NCGI
CFINTCOM
NGA
NZDF
Army
Navy
Air Force

NZDF PLATFORMS AND NZ SEARCH AND RESCUE AREA OF RESPONSIBILITY

Platforms

Boeing 757	2	HMNZS Aotearoa	
Boeing P-8 Poseidon	4	HMNZS Manawanui	
Lockheed C-130	5	HMNZS Canterbury	
King Air 350	4	ANZAC Class Frigates	2
Beechcraft T-6C Texan II	11	Protector Class OPV	2
NHIndustries NH90	8	Protector Class IPV	2
AgustaWestland A109LUH	5		
Kaman SH-2G(I) Seasprite	8		



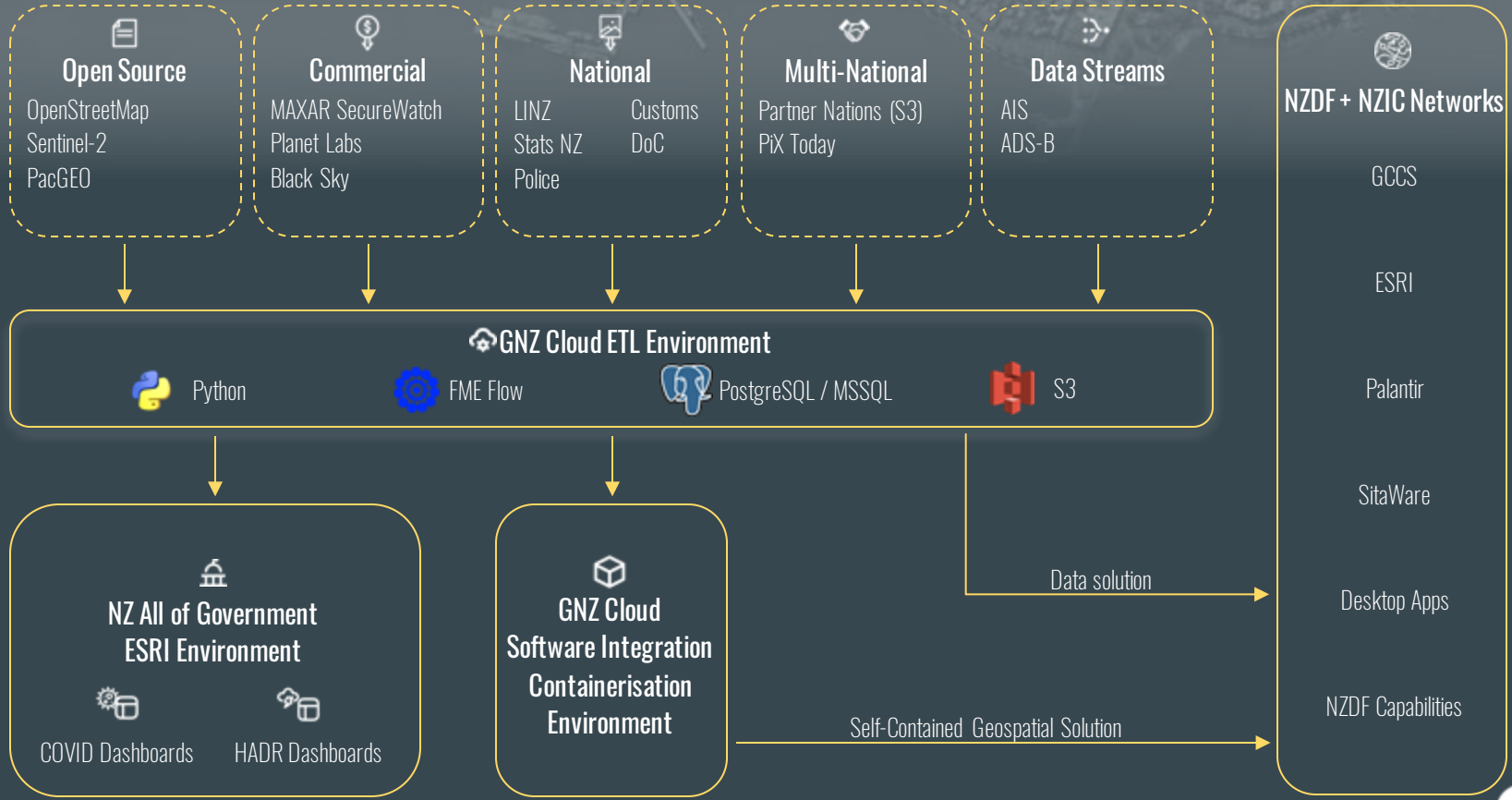
FME:

New Zealand DEFENCE FORCE

Data Challenges

- Supporting multiple different systems:
  - Disconnected networks – no internet access
  - Command and control systems
- Currency
  - Manual processing of incoming datasets
  - Manual transfer of data between networks
- Interoperability
  - Formatting for ingestion into multiple systems
  - Shareable with FVEY partners
- Software versioning
  - Networks running different versions E.g. FME 2016 and ArcMap 10.3

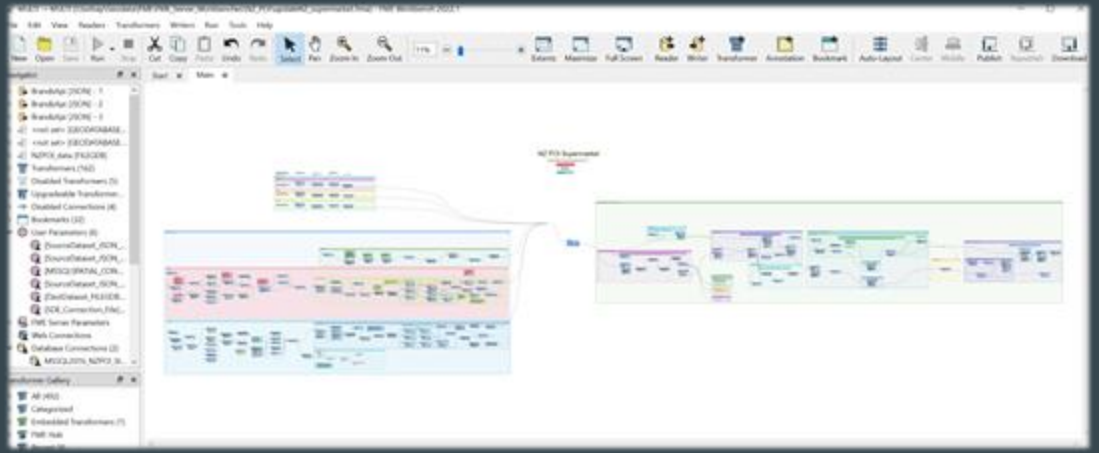
GNZ CLOUD ETL ENVIRONMENT



Automated Data Workflow

Source Website

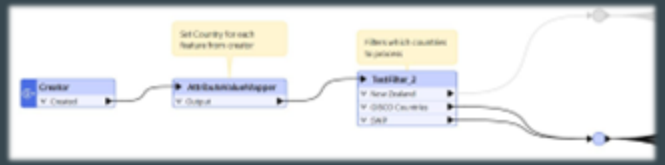
FME Processing



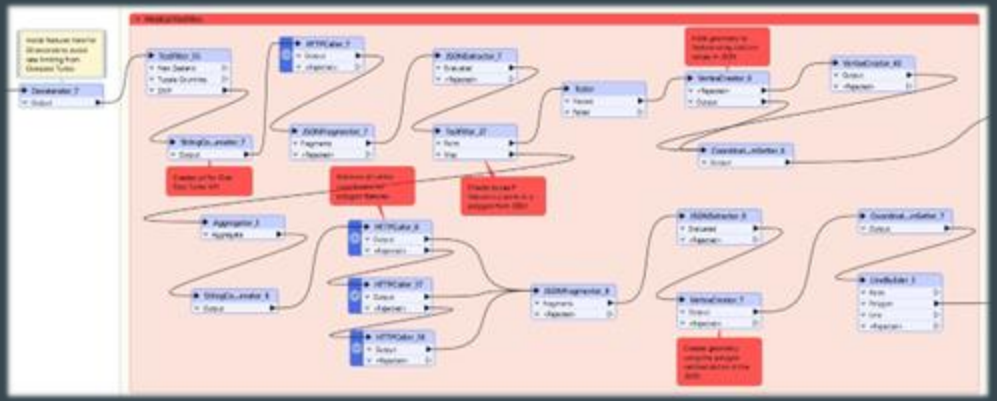
Output

OSM Medical Facilities to GGDM

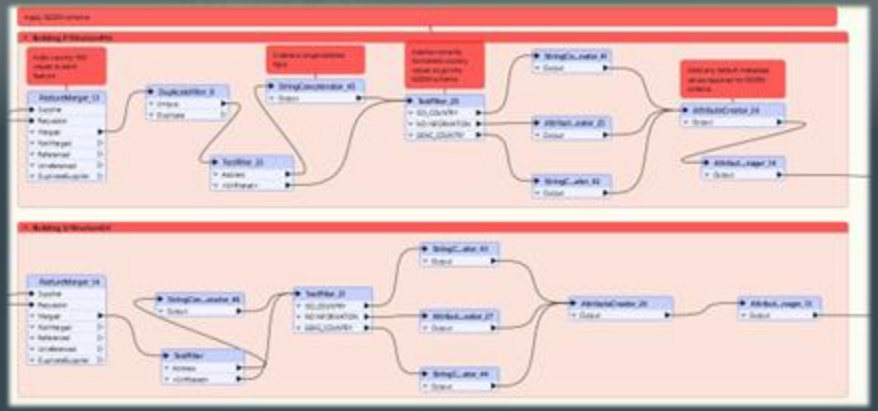
Assign Country Values



Extract and Process Data



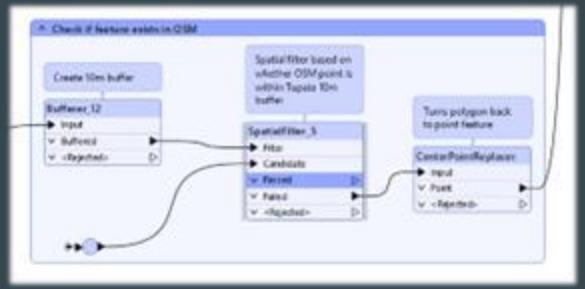
Apply GGDM Schema



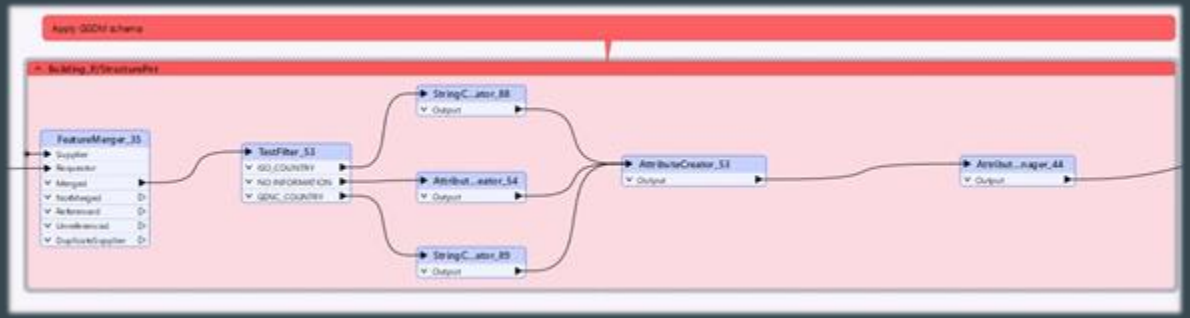
Supplementing with Other Sources

Extract and Process Data

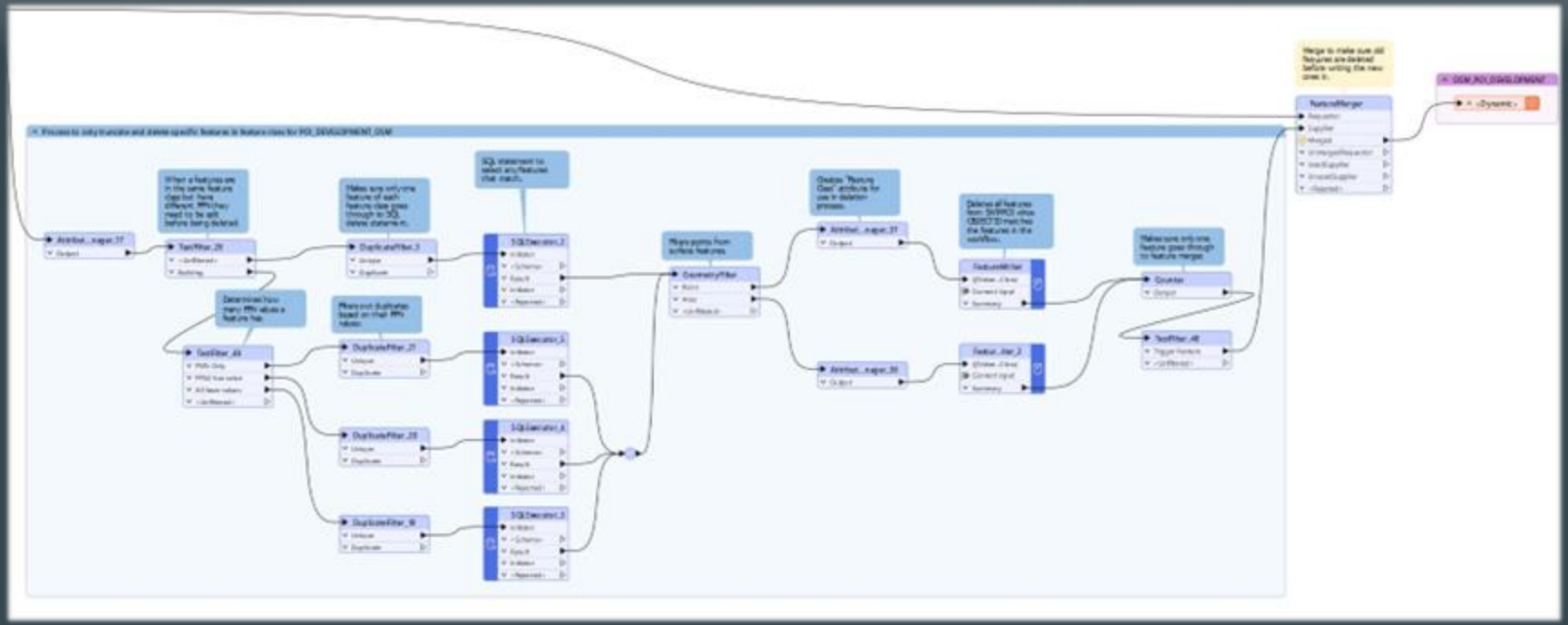
Spatial Filter Data



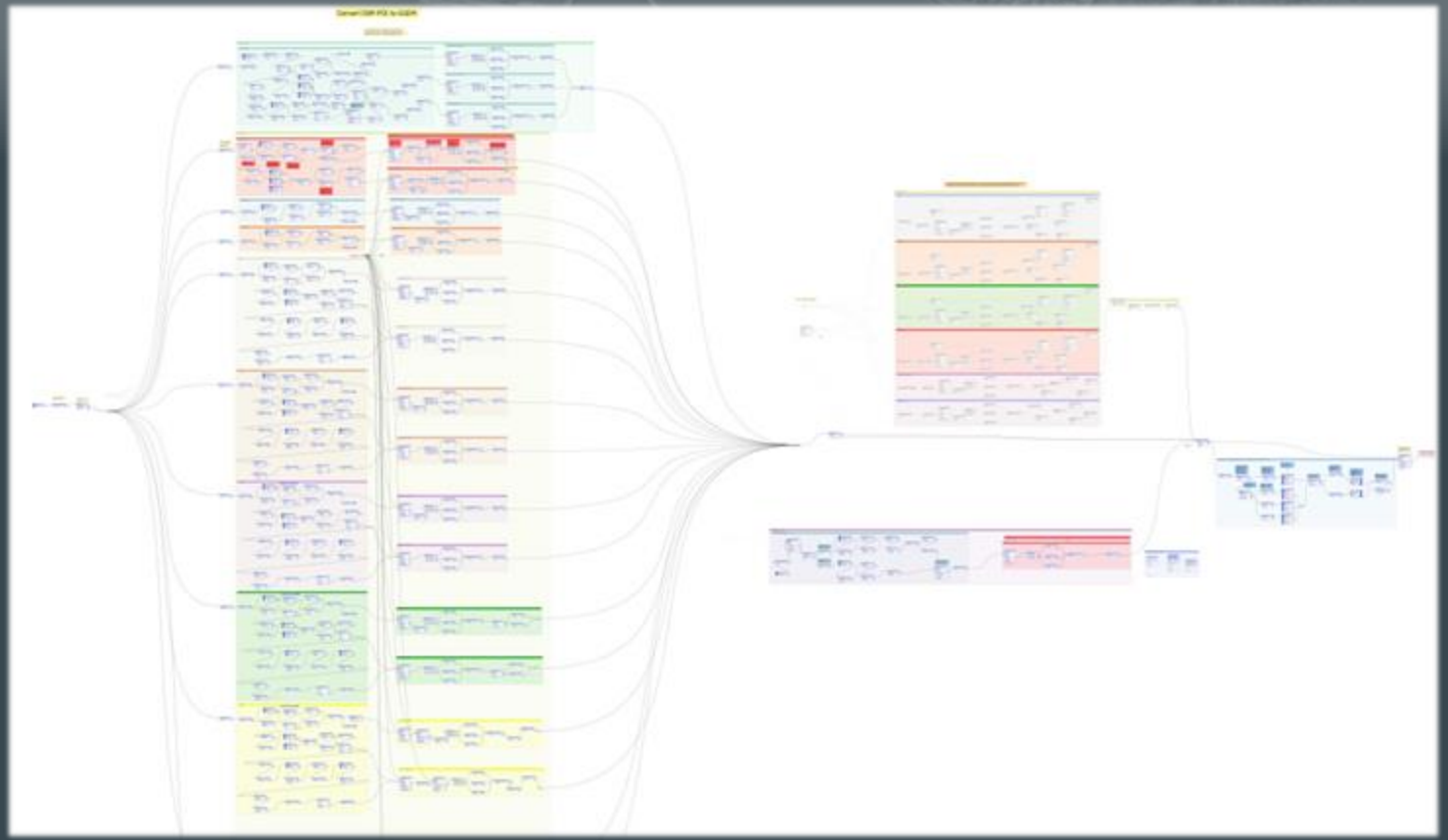
Apply GGDM Schema



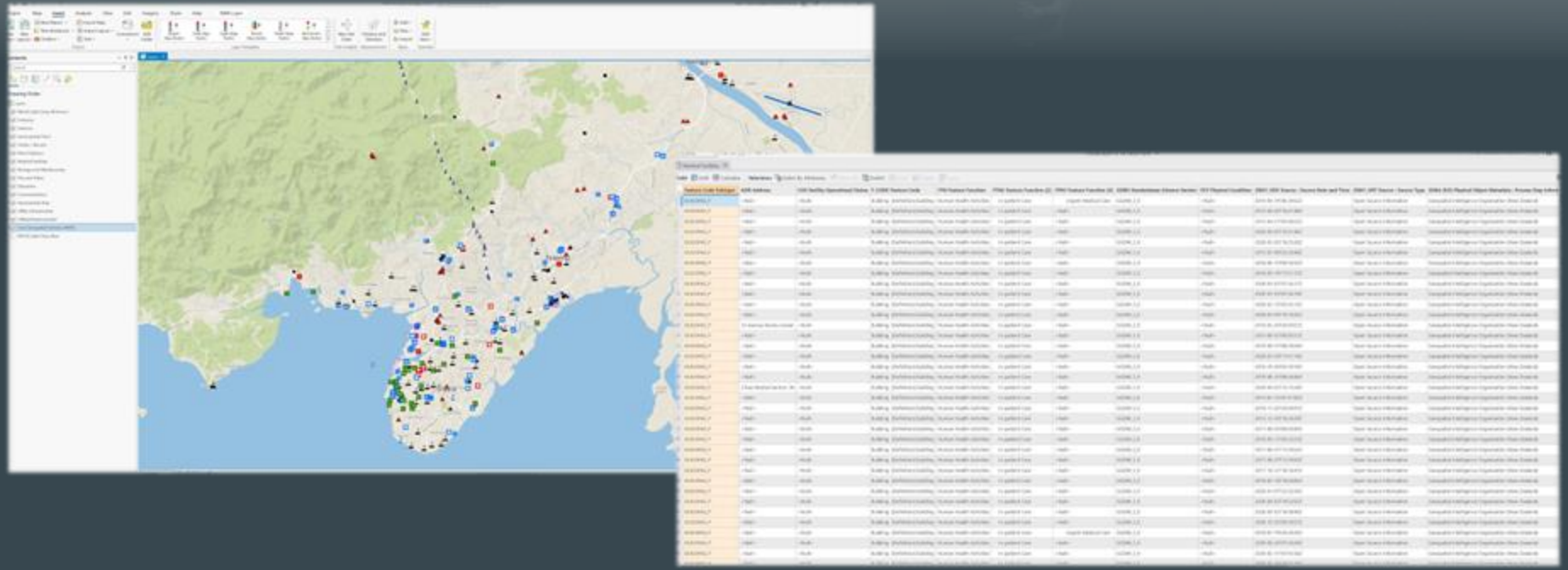
Updating Database



OSM to GGDM Workflow



Output



Where to Next?

- Self-service Data Delivery
  - FME flow apps allowing users to extract and upload data themselves
- Metadata Generation
  - Apply metadata to flat files (e.g. PDF maps, Imagery)
- Quality Control
  - Custom FME Transformers for monitoring data quality

Questions

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