

5 FME Transformers How they help achieve our Mission at MSF

FME World Tour - Inser Bern 2022-05-17



Médecins Sans Frontières Doctors without Borders Ärzte ohne Grenzen

Providing lifesaving medical humanitarian care, and speaking out about what we see.



→ Medical aid as a priority



Advocacy as a necessary complement

MSF Working in More than 70 Countries





MSF GIS Centre



GIS Week Brussels 2019

MSF GIS Centre

We are collaboration of teams & partners working in many countries and serving the whole MSF Movement.

- MSF Operations Centres
- Regional Offices
- Field Projects

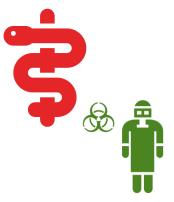


How does GIS Support MSF Operations?





Medical supplies + logistics



Infectious diseases e.g., ebola



Vaccination campaigns



Waterborne diseases e.g. cholera



Nutrition



Technological and natural hazard/disaster



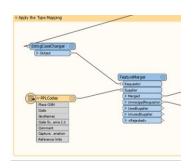
Security & Safety

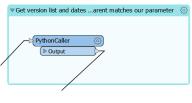


How does FME Help....

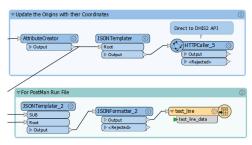
How does FME Help....

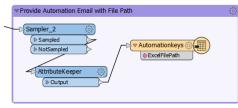
A look at 5 Transformers and how they help us





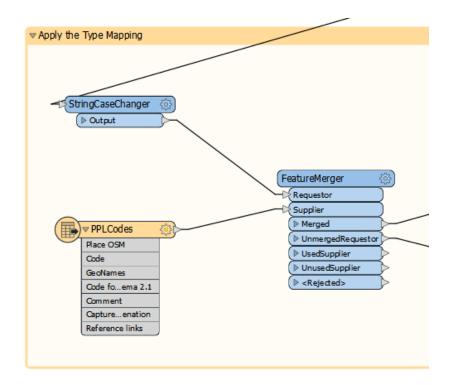






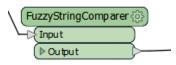


FeatureMerger For Look-ups



А	В
Place OSM T	Code ▼
abandoned:isolated_dwelling	village_abandoned
abandoned:village	village_abandoned
dispersed_settlement	settlement
hamlet	settlement
city_block	neighborhood
suburb	neighborhood
quartier	neighborhood
quarter	neighborhood
neighbourhood	neighborhood
borough	neighborhood
block	neighborhood
locality	locality
single_dwelling	isolated_dwelling
farm	isolated_dwelling
refugee_camp	POI
refugee_settlement	POI
IDP Settlement	POI
IDP_camp	POI
IDP_settlement	POI

Bonus



How Does this help us?



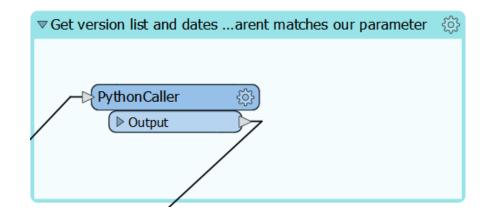
Integration!

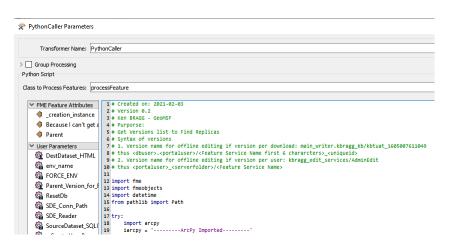
- → Field data integration
- → OSM and other external data integration

Example Health Facilities Assessment Ukraine



PythonCaller with ArcPy



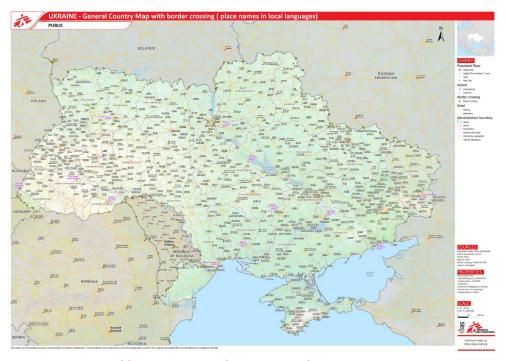


How Does this help us?

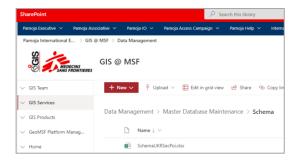


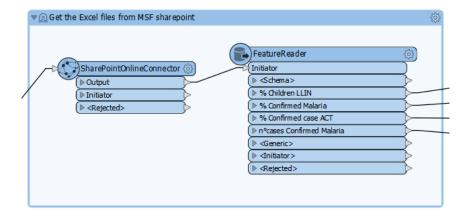
- → Supports our *Mapping Team*
 - Replica Management, Quality Control, Edit Tracking, Database compression etc.

Example: One of the amazing super useful maps made by our Mapping Team



SharePointOnLineConnector



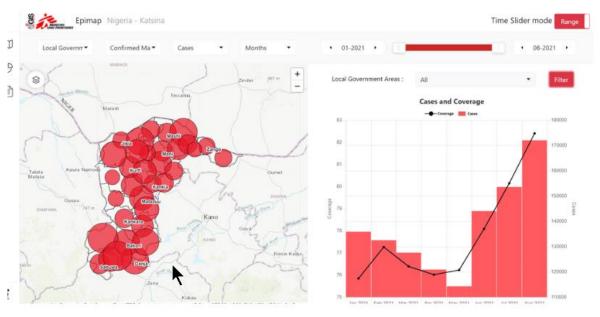


How Does this help us?

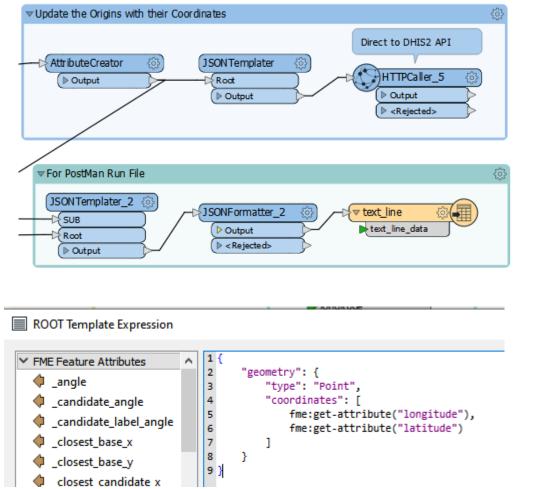


- → Get Data *from* our Teams
- → Share Data *to* our Teams

Example: EpiMap Nigeria



JSONTemplater

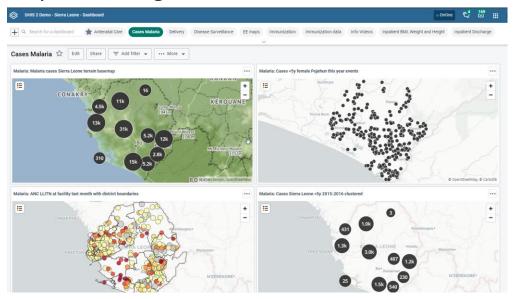


How Does this help us?



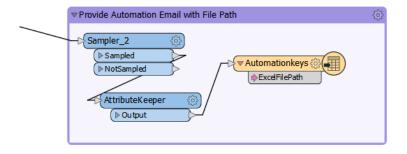
- Update data via an API
- → Modify Big JSON automatically file for vector tiles

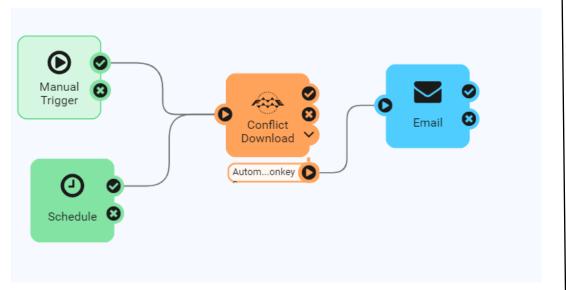
Example: District Health Information Systems (DHIS2), update patient origins



Screen shot shows sample data from DHIS2 playground not from MSF

FME Server Automations Writer



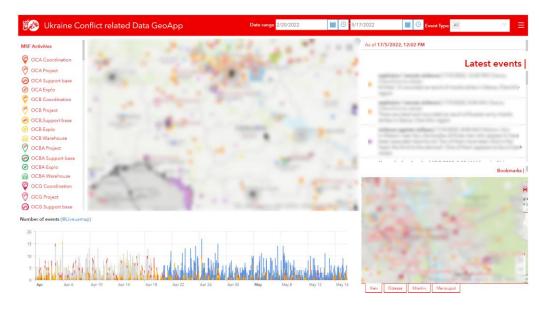




How Does this help us?

- → Sending notifications with Email
- → Less pain and suffering with file paths on Server

Example: Sending security update emails to field teams with Conflict Data



What's Next for Us and For you?

- → Focus on Self-Serve work-flows
- → Vector Tile Generation, can FME help us here?
- → What are you doing next with FME?



Thanks very much to

Inser, to Éloïse Neff for seeing potential of FME and you for coming!



Ken BRAGG, GIS Centre Data Manager, Médecins Sans Frontières