Wykorzystanie FME w procesach automatycznej generalizacji i redakcji kartograficznej map topograficznych w skali 1:25 000.

Marcin Lebiecki

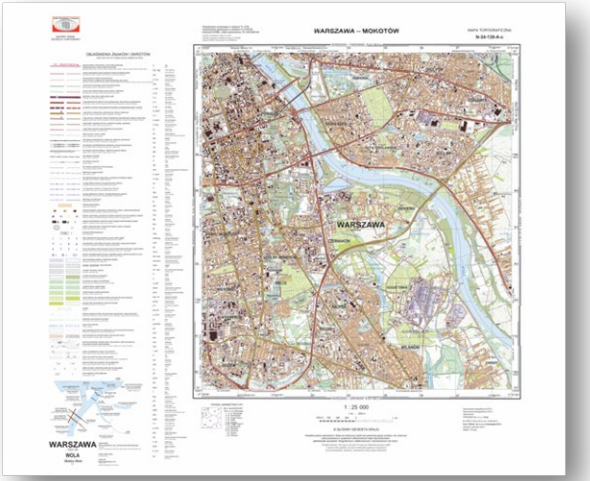
GŁÓWNY URZĄD GEODEZJI I KARTOGRAFII

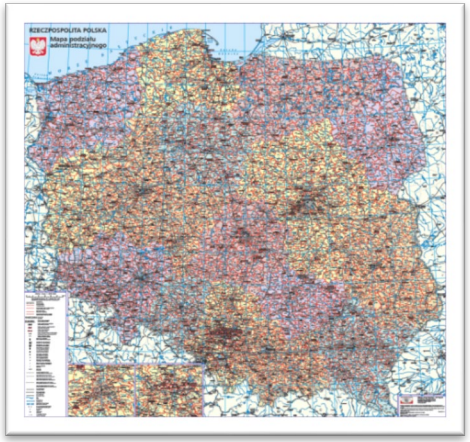
Główne zadania w obszarze kartografii cywilnej

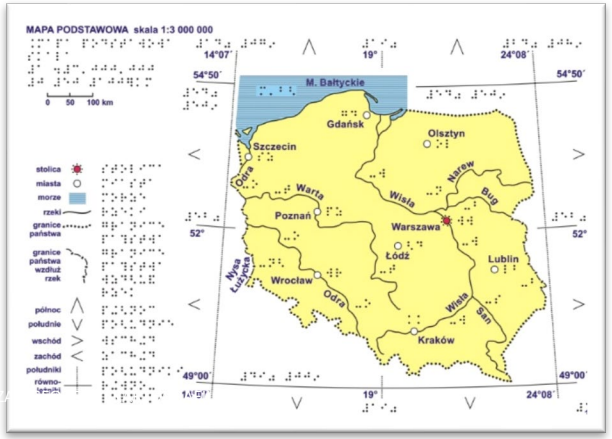
BDOT10k
- 1: 10 000
- 1: 25 000
- 1:50 000
- 1: 100 000

BDOO
- 1:250 000
- 1: 500 000
- 1: 1000 000

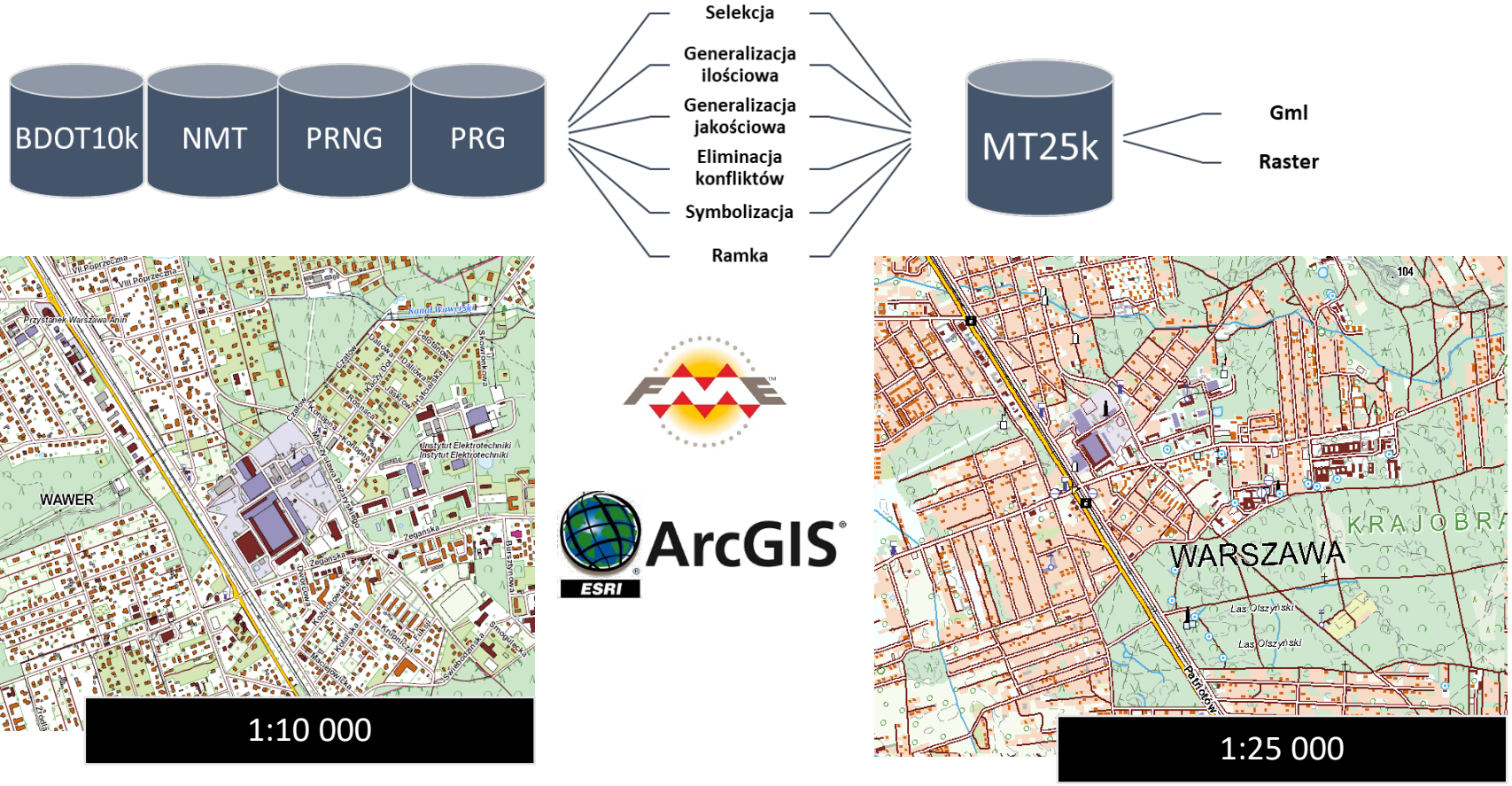
Opracowania tematyczne i specjalne
- Opracowania atlasowe
- Mapy tematyczne
- Opracowania tyflokartograficzne



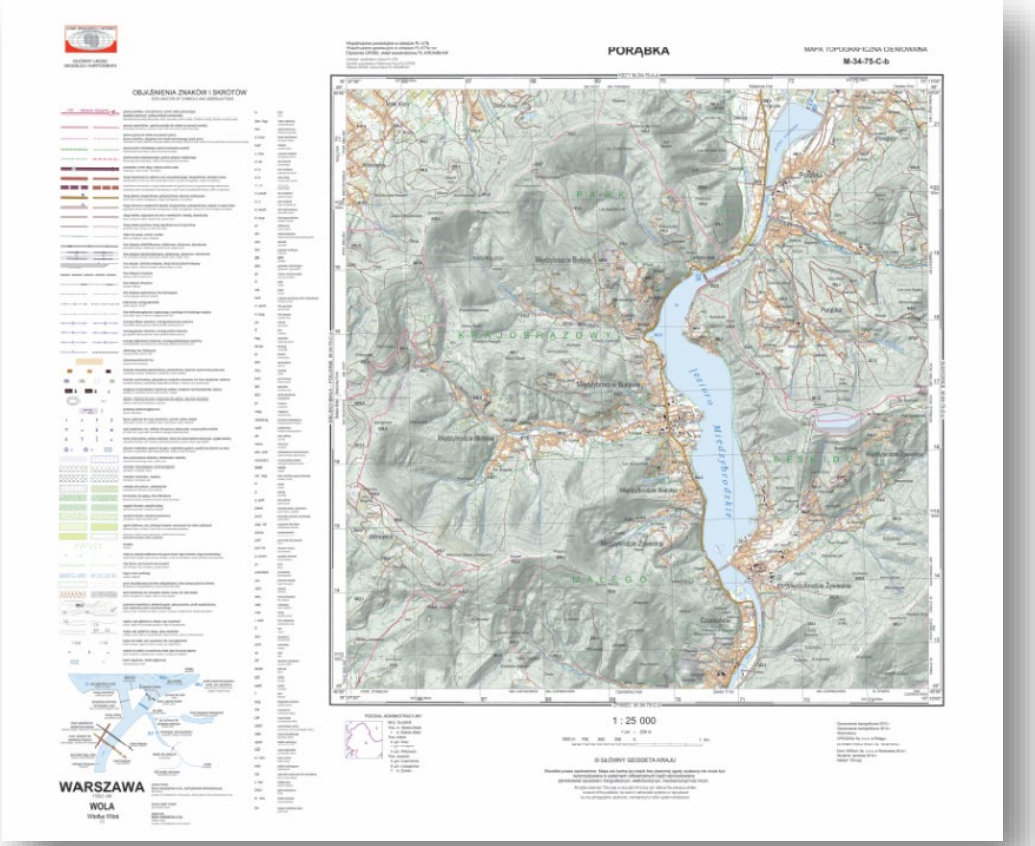


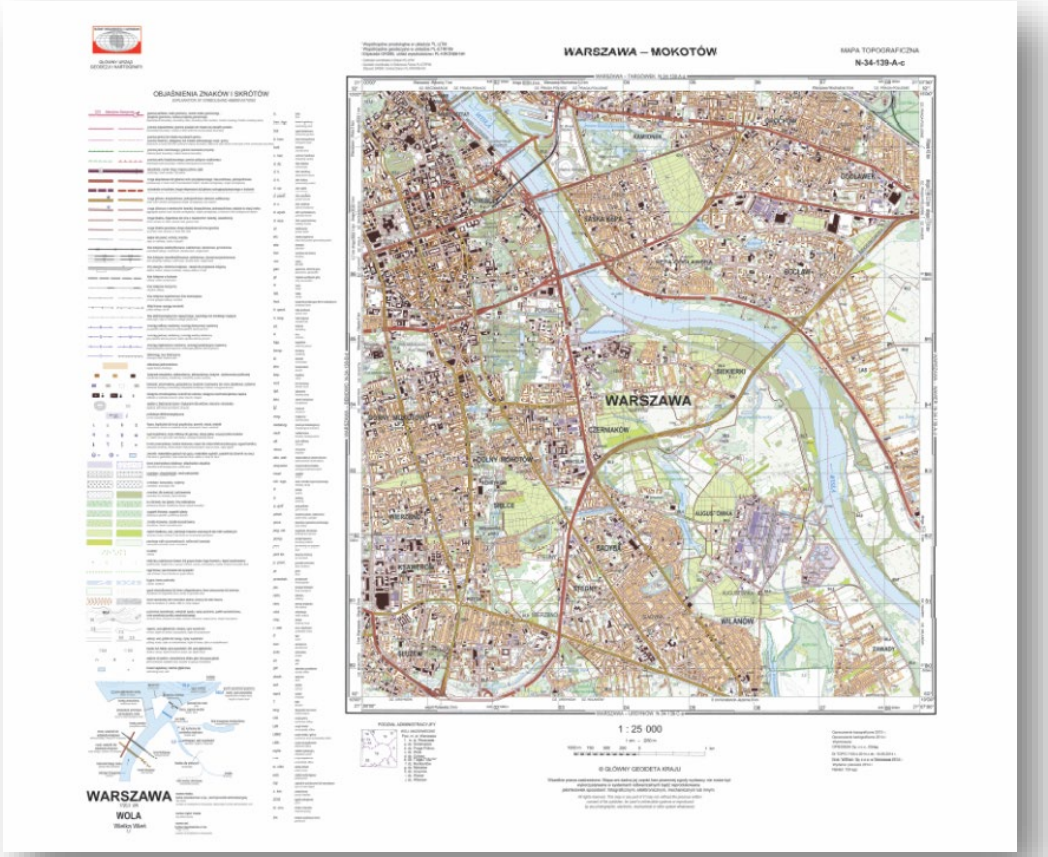


System automatycznej generalizacji i redakcji kartograficznej map topograficznych w skali 1:25 000

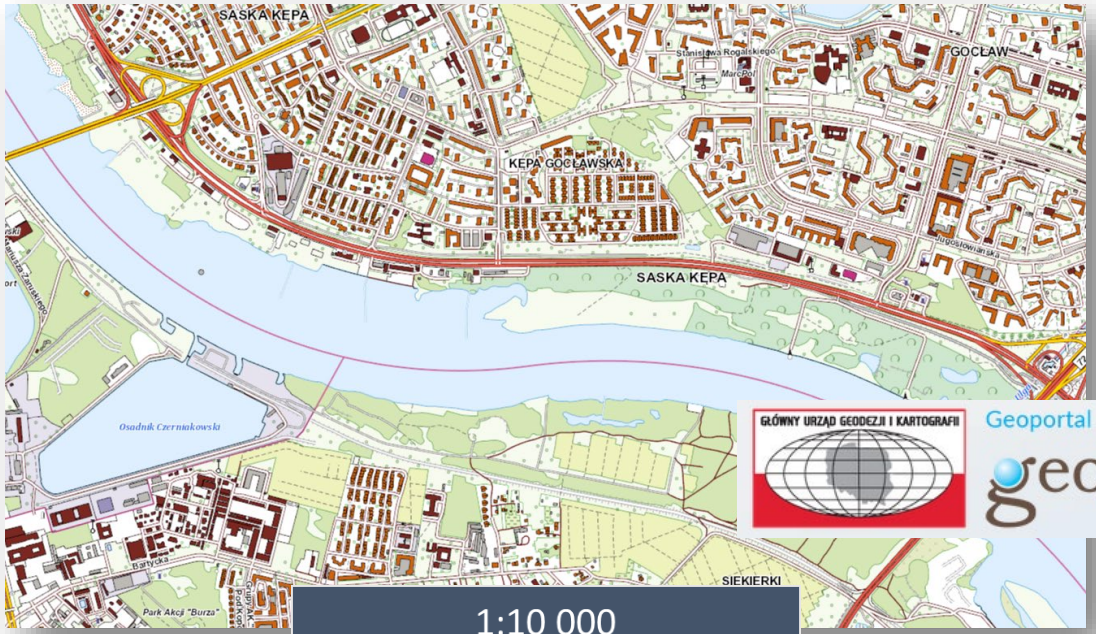


Cel procesów automatycznej generalizacji i redakcji kartograficznej map topograficznych w skali 1:25 000



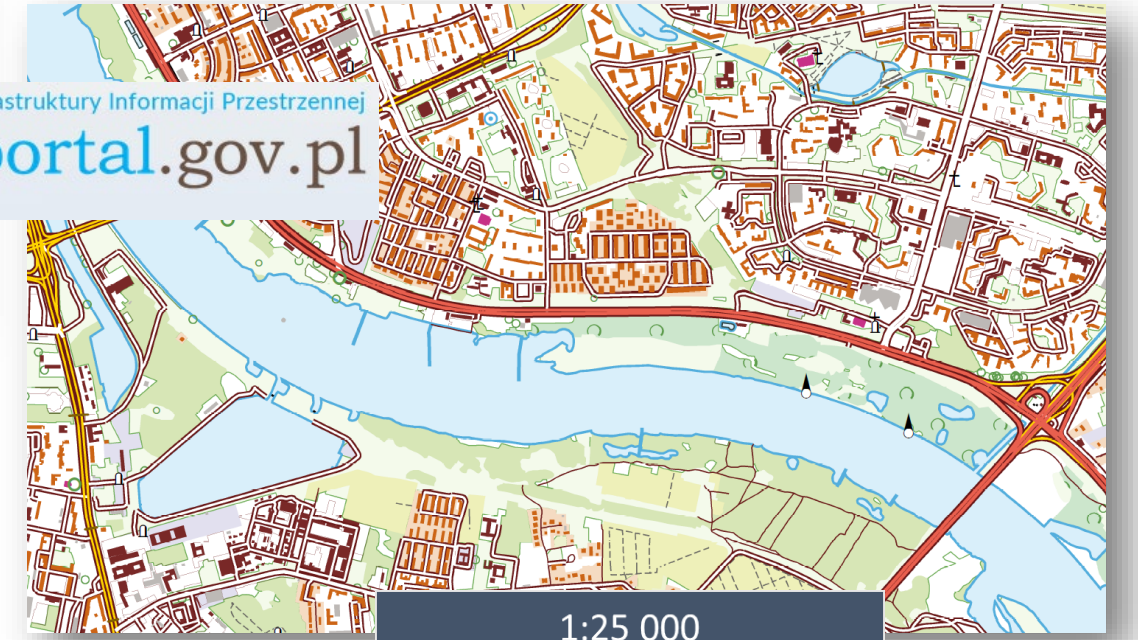


Cel procesów automatycznej generalizacji i redakcji kartograficznej map topograficznych w skali 1:25 000



1:10 000

Wstępna wizualizacja zgeneralizowanych danych



1:25 000

GŁÓWNY URZĄD GEODEZJI I KARTOGRAFII

Geoportal Infrastruktury Informacji Przestrzennej

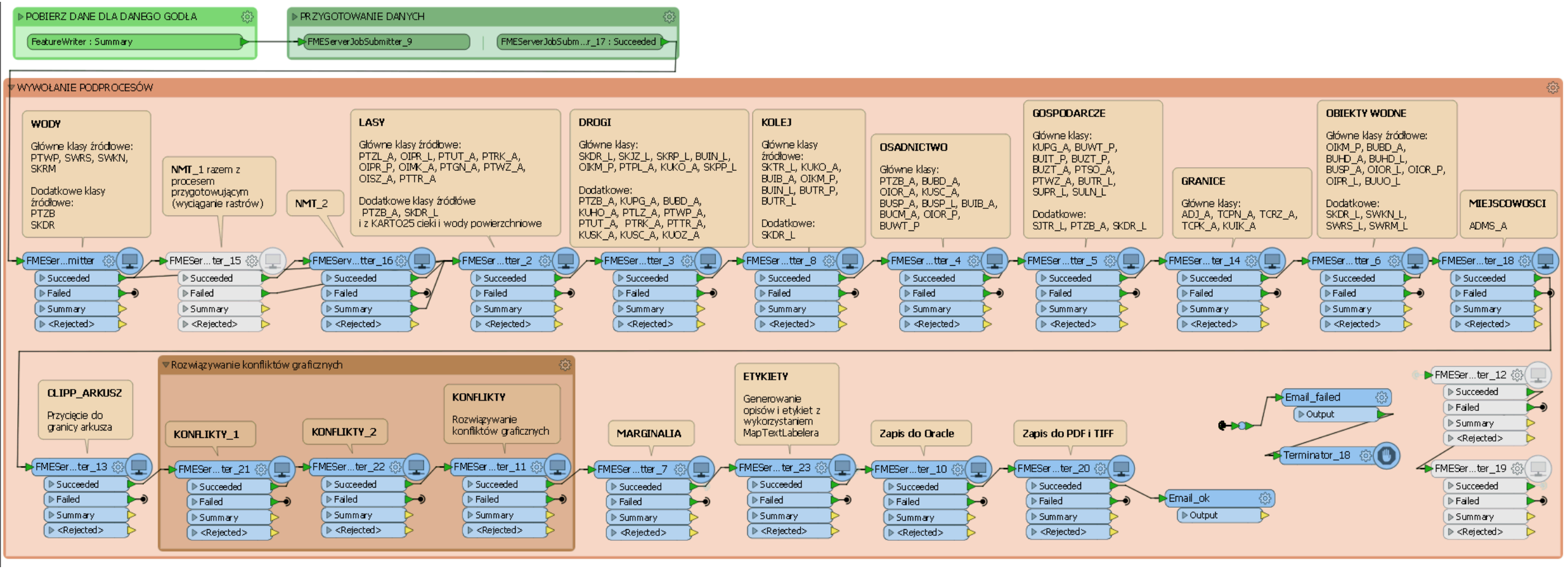
geoportal.gov.pl

globema

WORLD TOUR 2019

Główny proces sterujący podprocesami.

Wykorzystano głównie FMEServerJobSubmitter'y



FME Server

FMESERVER Jobs

- Run Workspace
- Jobs
  - Completed
  - Queued
  - Running
- Schedules
- Repositories
- Workspace Viewer
- Notifications
- Resources
- Connections
- Projects
- Dashboards

ADMIN

- Engines & Licensing
- Security
- System Cleanup
- Backup & Restore
- System Configuration

Filters

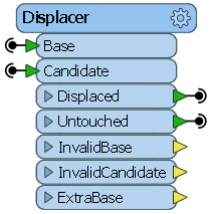
Remove

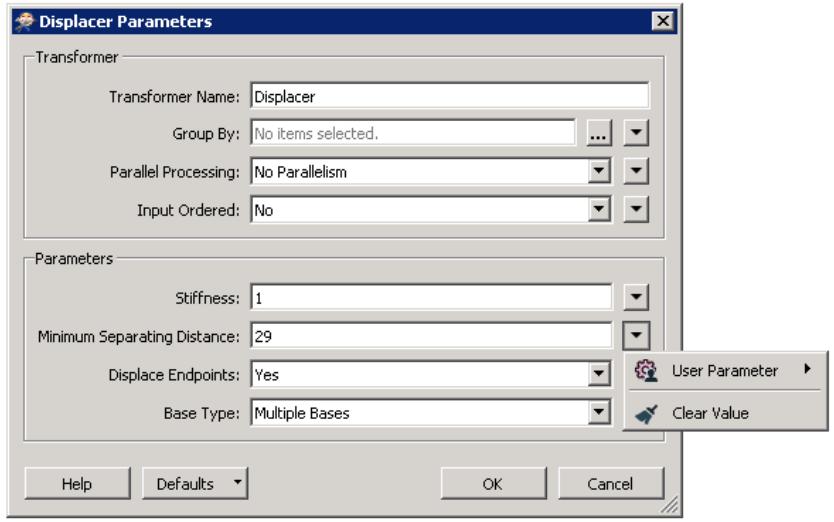
Id	Workspace	Repository	Username	Status	Engine	Started	Finished	Duration	Queue
4782	WODY.fmw	KARTO25k	admin	✓	localhost_Engine3@4779	Today at 13:59:54	Today at 14:00:26	00:00:32	context-id-50261486-c619-4796-9d2a-dbfa8d23ce14
4781	POBIERZ_DANE.fmw	KARTO25k	admin	✓	localhost_Engine3@4779	Today at 13:59:52	Today at 13:59:54	00:00:02	context-id-50261486-c619-4796-9d2a-dbfa8d23ce14
4780	ffs2filegdb.fmw	KARTO25k	admin	✓	localhost_Engine3@4779	Today at 13:59:45	Today at 13:59:51	00:00:06	context-id-50261486-c619-4796-9d2a-dbfa8d23ce14
4766	BDOT10k2KARTO25k.fmw	KARTO25k	admin	!	localhost_Engine2	Today at 11:09:25	Today at 11:24:01	00:14:36	Default
4778	CLIPP_ARKUSZ.fmw	KARTO25k	admin	!	localhost_Engine2@4766	Today at 11:24:00	Today at 11:24:01	00:00:01	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4777	MIEJSCOWOSCI.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:23:49	Today at 11:24:00	00:00:11	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4776	OBIEKTY_WODNE.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:23:46	Today at 11:23:49	00:00:03	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4775	GRANICE.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:23:39	Today at 11:23:46	00:00:07	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4774	GOSPODARCZE.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:23:29	Today at 11:23:38	00:00:09	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4773	OSADNICTWO.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:21:14	Today at 11:23:29	00:02:15	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4772	KOLEJ.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:21:08	Today at 11:21:14	00:00:06	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4771	DROGI.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:20:21	Today at 11:21:08	00:00:47	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4770	LASY.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:10:44	Today at 11:20:20	00:09:36	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4769	WODY.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:10:27	Today at 11:10:44	00:00:17	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4768	POBIERZ_DANE.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:10:24	Today at 11:10:27	00:00:03	context-id-712c115b-e928-444f-b43d-8aae7f0b1334
4767	ffs2filegdb.fmw	KARTO25k	admin	✓	localhost_Engine2@4766	Today at 11:10:18	Today at 11:10:24	00:00:06	context-id-712c115b-e928-444f-b43d-8aae7f0b1334

1 / 1 100

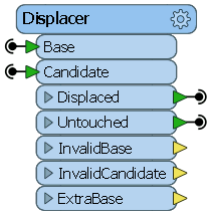
Displaying 1 - 16 of 16

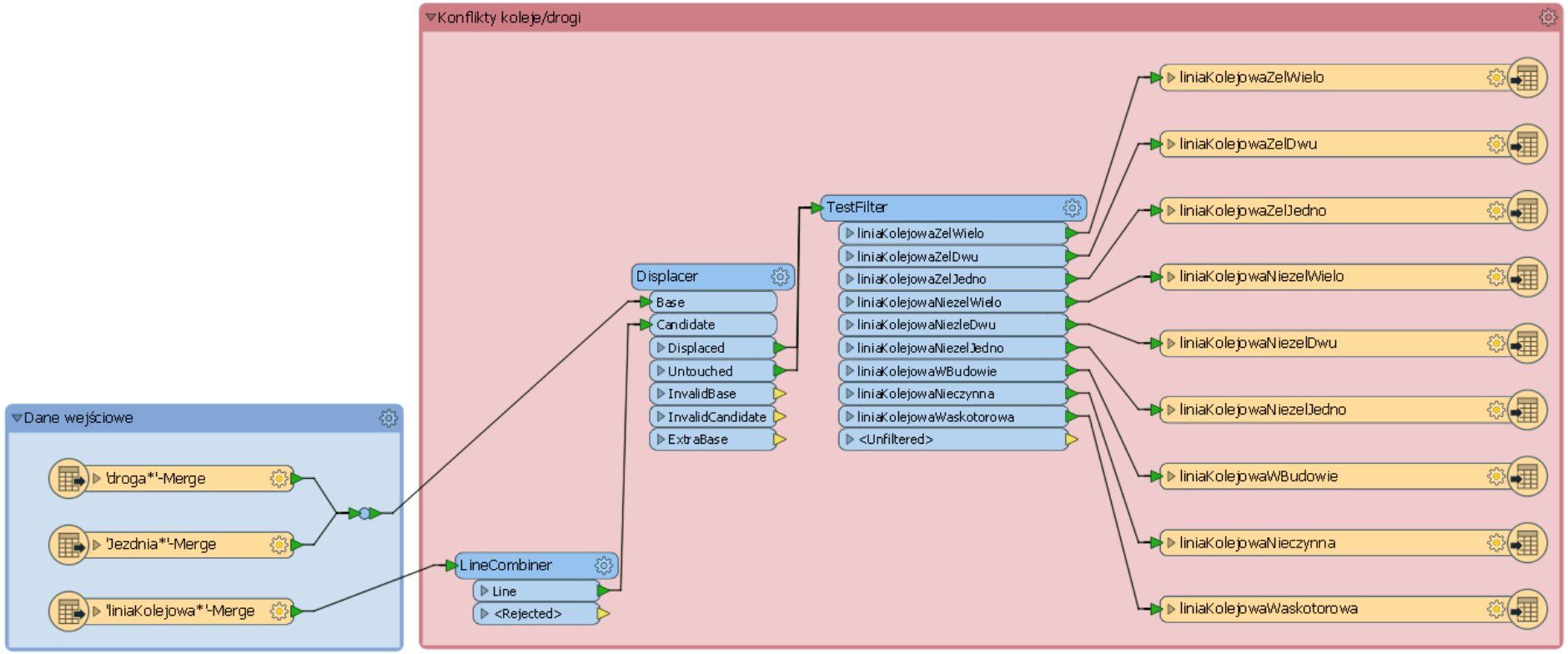
Odsuwanie obiektów z wykorzystaniem Displacer’a





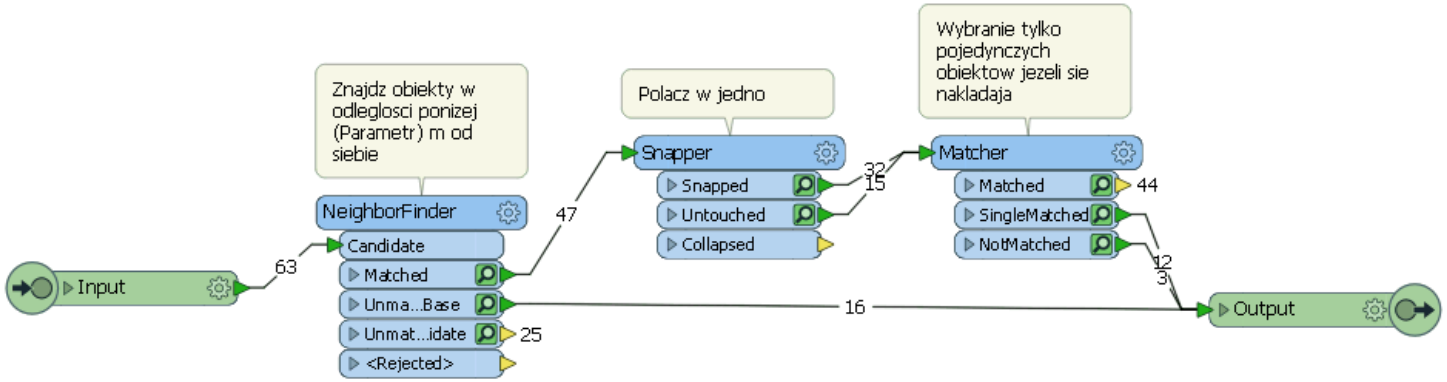
Odsuwanie linii kolejowych od dróg i jezdni z wykorzystaniem Displacer’a



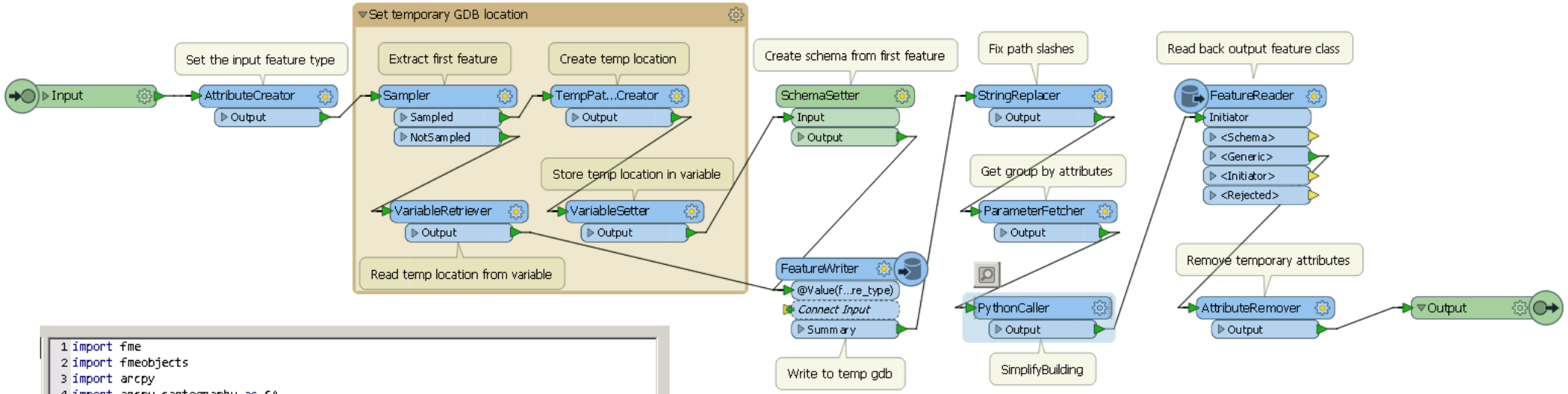


Odsuwanie budynków z wykorzystaniem PythonCaller’a i esri arcpy.

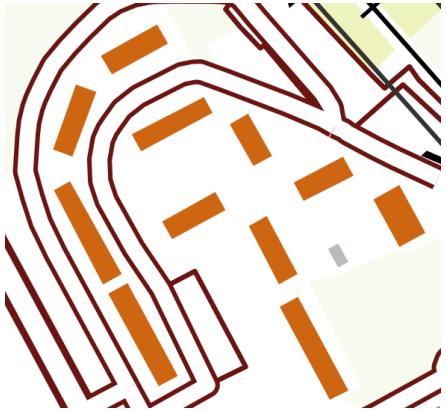
Usuwanie duplikatów



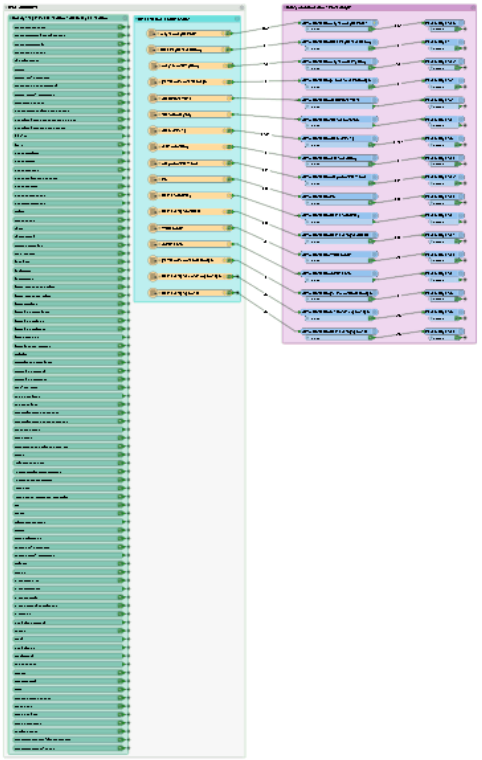
Upraszczanie budynków z wykorzystaniem PythonCaller’a i esri arcpy.

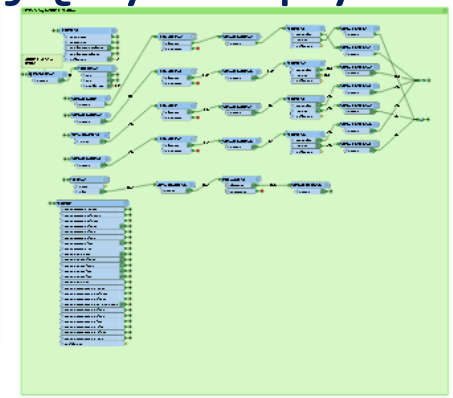


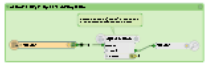
```python
import fme
import fmeobjects
import arcpy
import arcpy.cartography as CA

def processFeature(feature):

    dataset = feature.getAttribute('_dataset')
    dissolveFields = feature.getAttribute('_Group_Attrs').split(",")
    arcpy.env.workspace = dataset

    # Set local variables
    inFeatures = "pre_simplify"
    outFeatureClass = dataset + "/simplified"

    # Execute Dissolve using group by attributes as Dissolve Fields
    CA.SimplifyBuilding(inFeatures, outFeatureClass, 300, "", "")
```

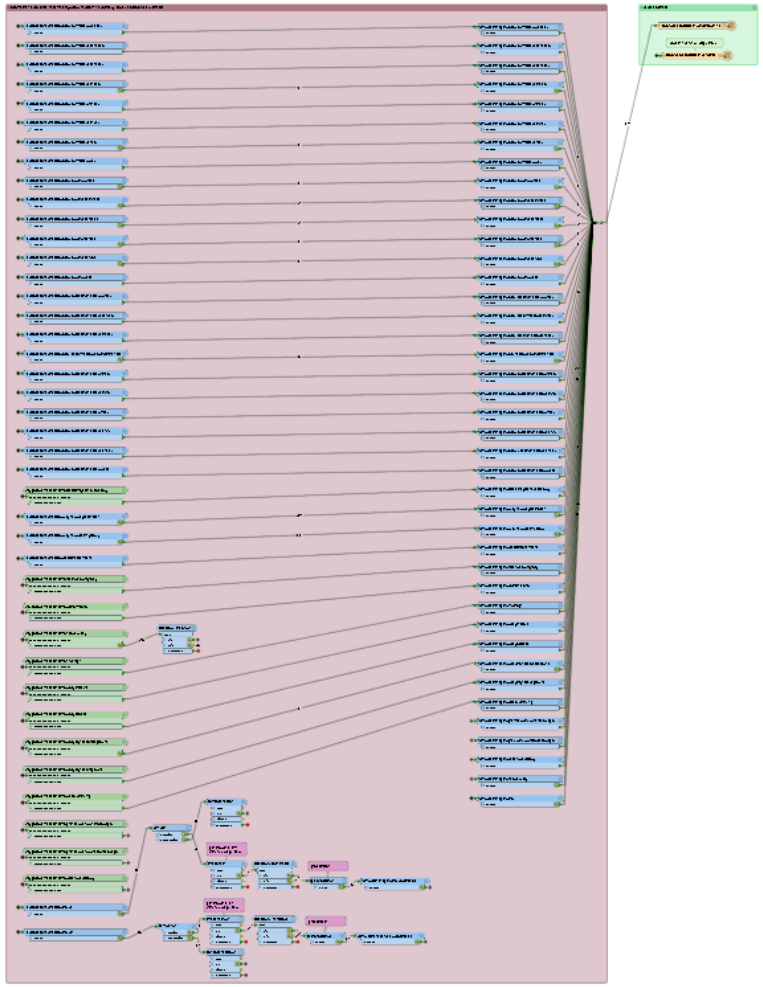


Proces rozmieszczający napy na mapie

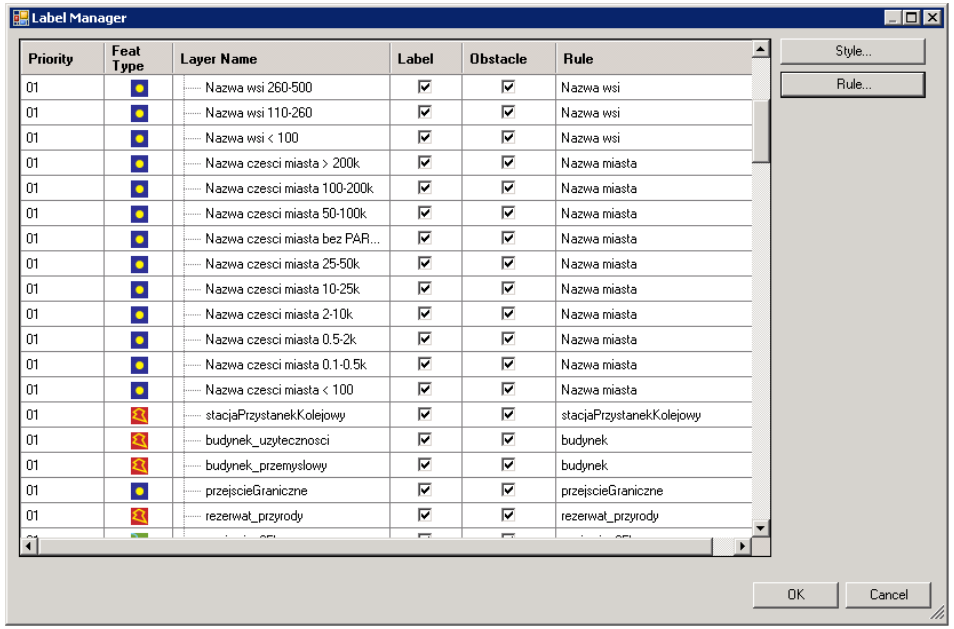


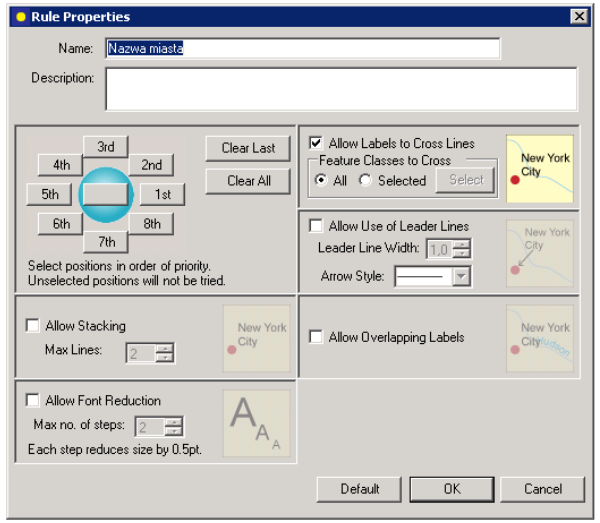




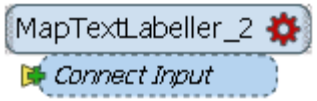


Wykorzystanie MapTextLabeller'a

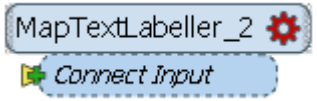


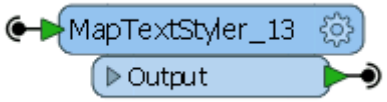


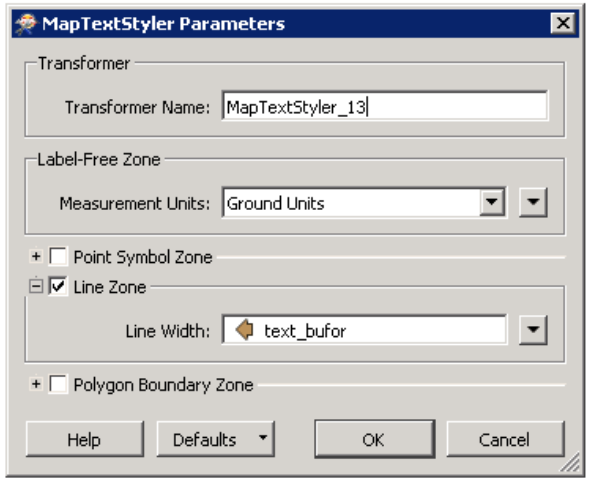
Wykorzystanie MapTextLabeller'a



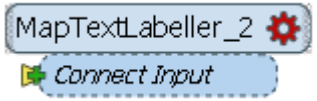
Wykorzystanie MapTextLabeller'a i MapTextStyler'a

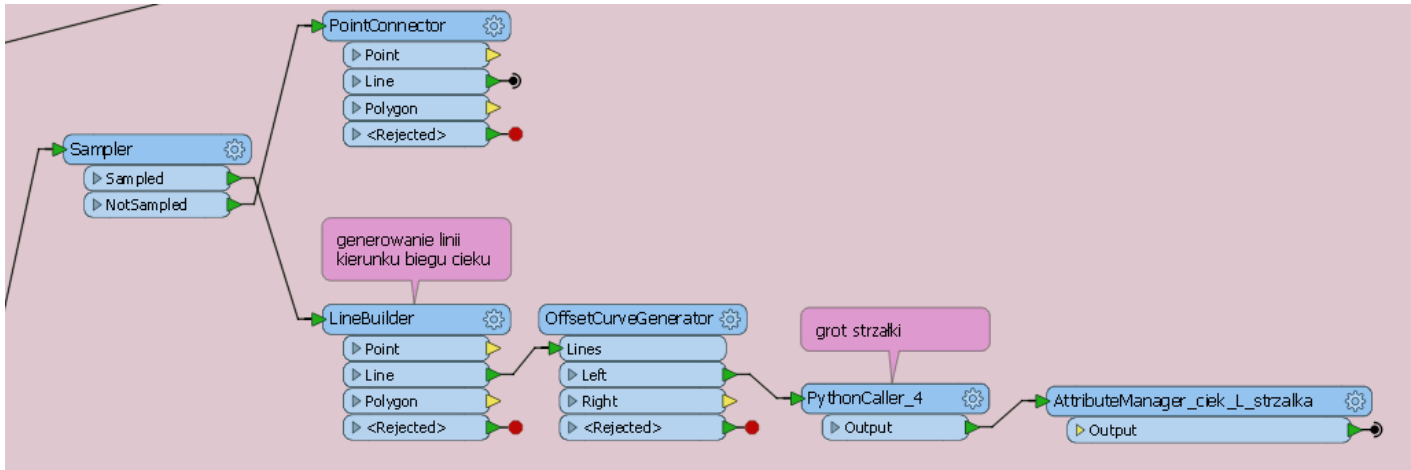


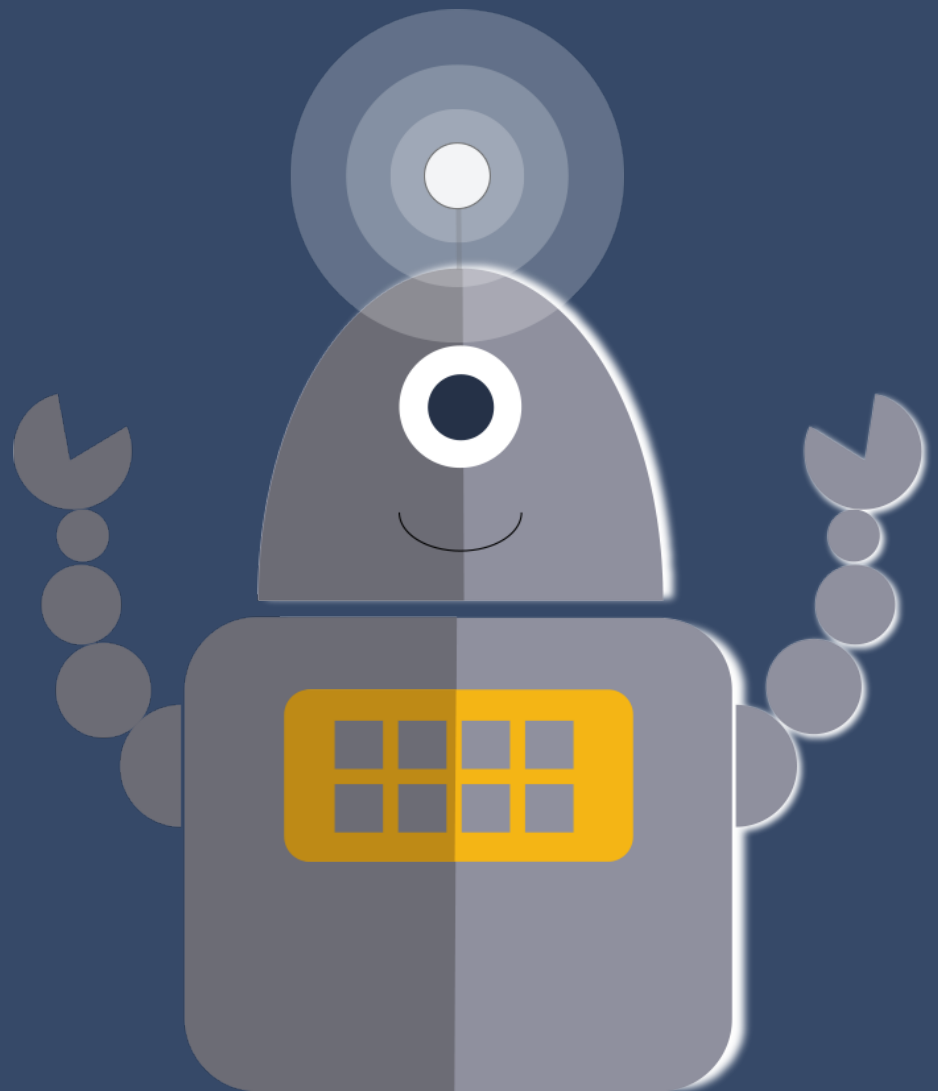




Generowanie strzałki kierunku biegu cieku







Dziękujemy za uwagę

Marcin Lebiecki

marcin.lebiecki@gugik.gov.pl

tel. 22 563 13 43

Główny Urząd Geodezji i Kartografii
Departament Geodezji, Kartografii
i Systemów Informacji Geograficznej
Wydział Zarządzania Systemami Dziedzinowymi