

Model Transportowy Aglomeracji Warszawskiej

2016

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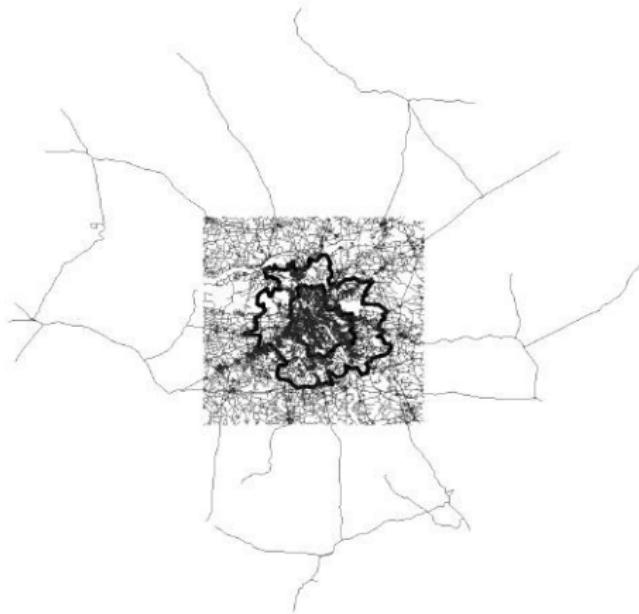


Model sieciowy



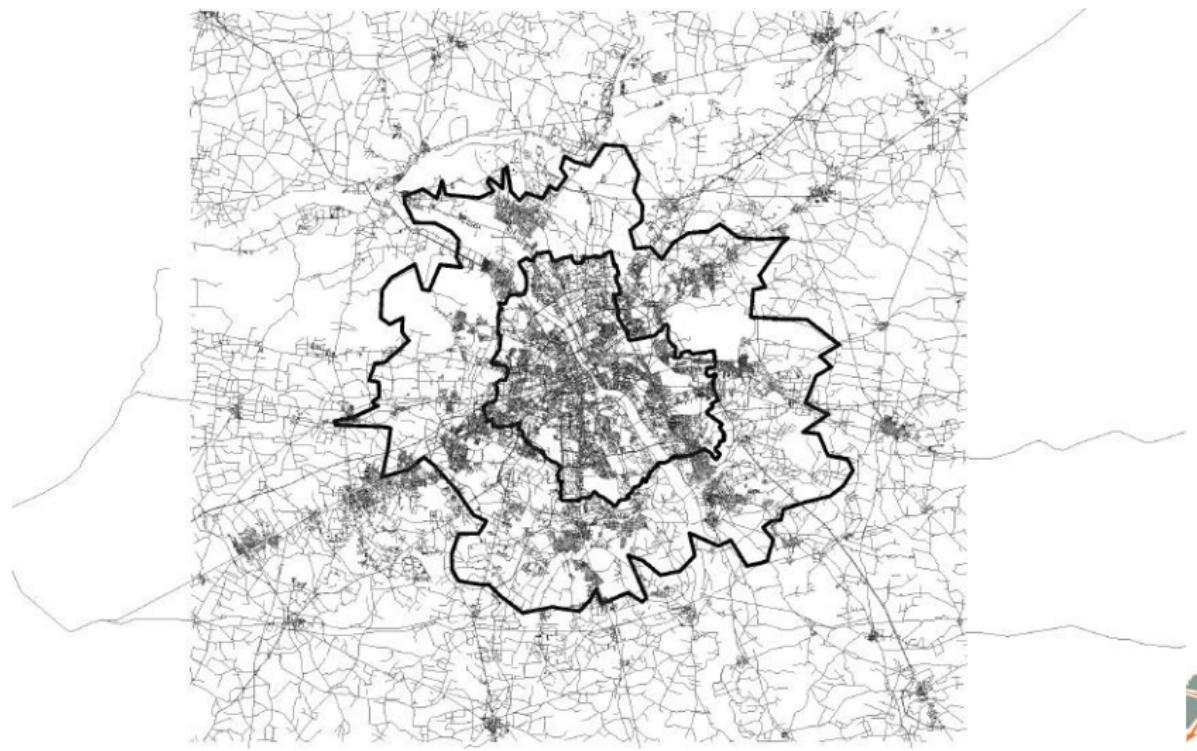
Obszar

Zasięg maksymalny - wąsy kolejowe



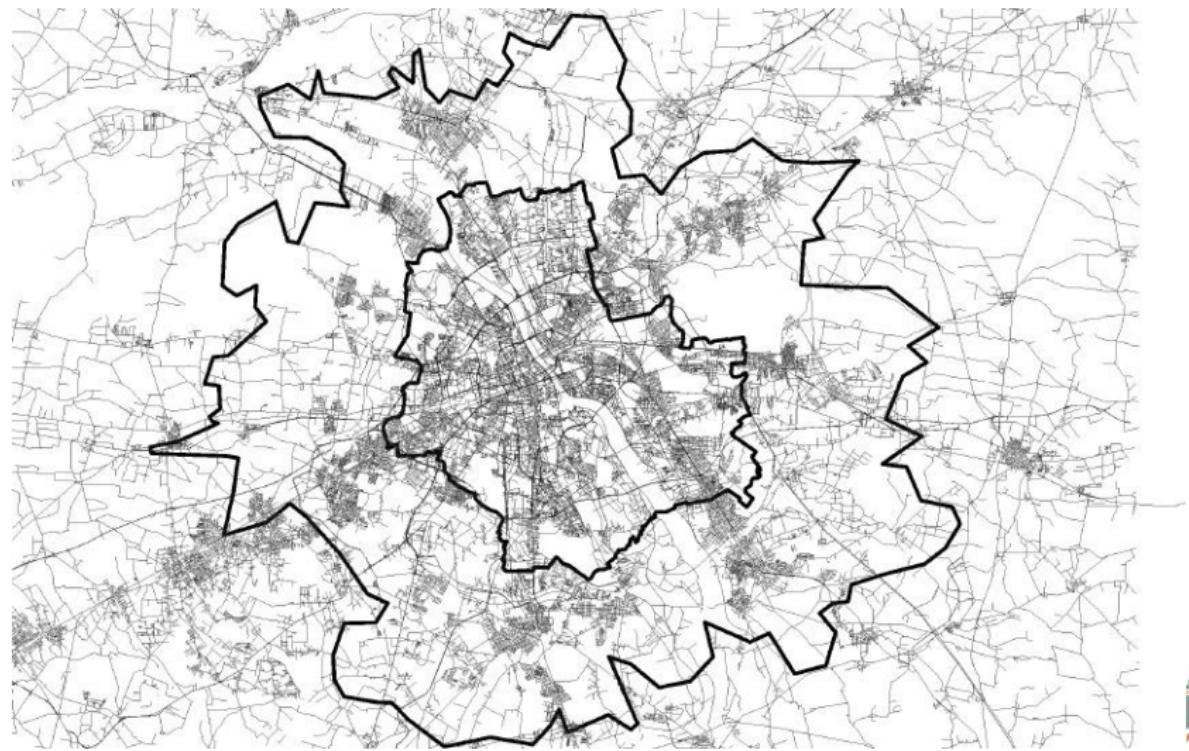
Obszar

Zasięg sieci - wycinek OSM



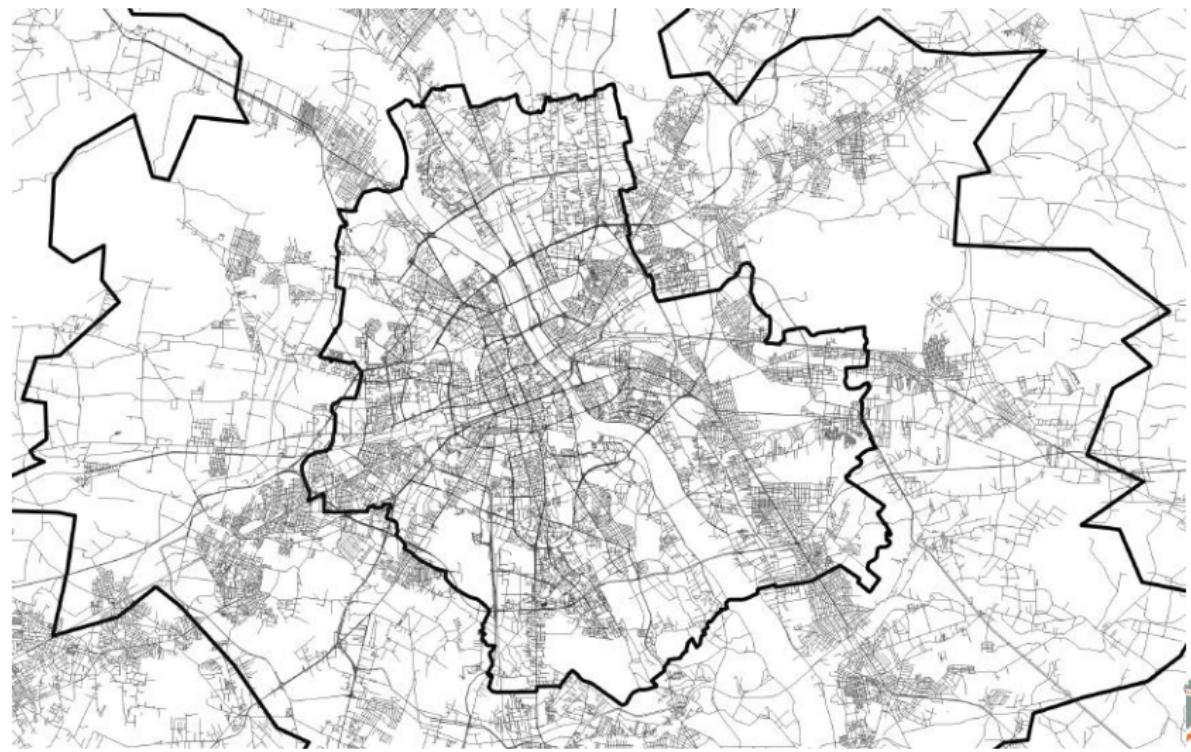
Obszar

Aglomeracja Warszawska



Obszar

Warszawa



Obszar

Śródmieście



Wielkość modelu

Network statistics

Base network | PuT network |

| Number: 19 | Filter | Total |
|--------------------|---------------|--------|
| Nodes | Not specified | 76692 |
| Links | Not specified | 197142 |
| Turns | Not specified | 578476 |
| Zones | Not specified | 970 |
| Connectors | Not specified | 14664 |
| Main nodes | Not specified | 1170 |
| Main turns | Not specified | 59074 |
| Main zones | Not specified | 50 |
| Territories | Not specified | 2 |
| OD pairs | Not specified | 940900 |
| Main OD pairs | Not specified | 2500 |
| Paths | Not specified | 0 |
| Sharing Stations | Not specified | 0 |
| Points of interest | Not specified | 116858 |
| GIS objects | Not specified | 0 |
| Screenlines | Not specified | 14 |
| Count locations | Not specified | 0 |
| Detectors | Not specified | 0 |
| Toll systems | Not specified | 0 |



Węzły

graf sieci



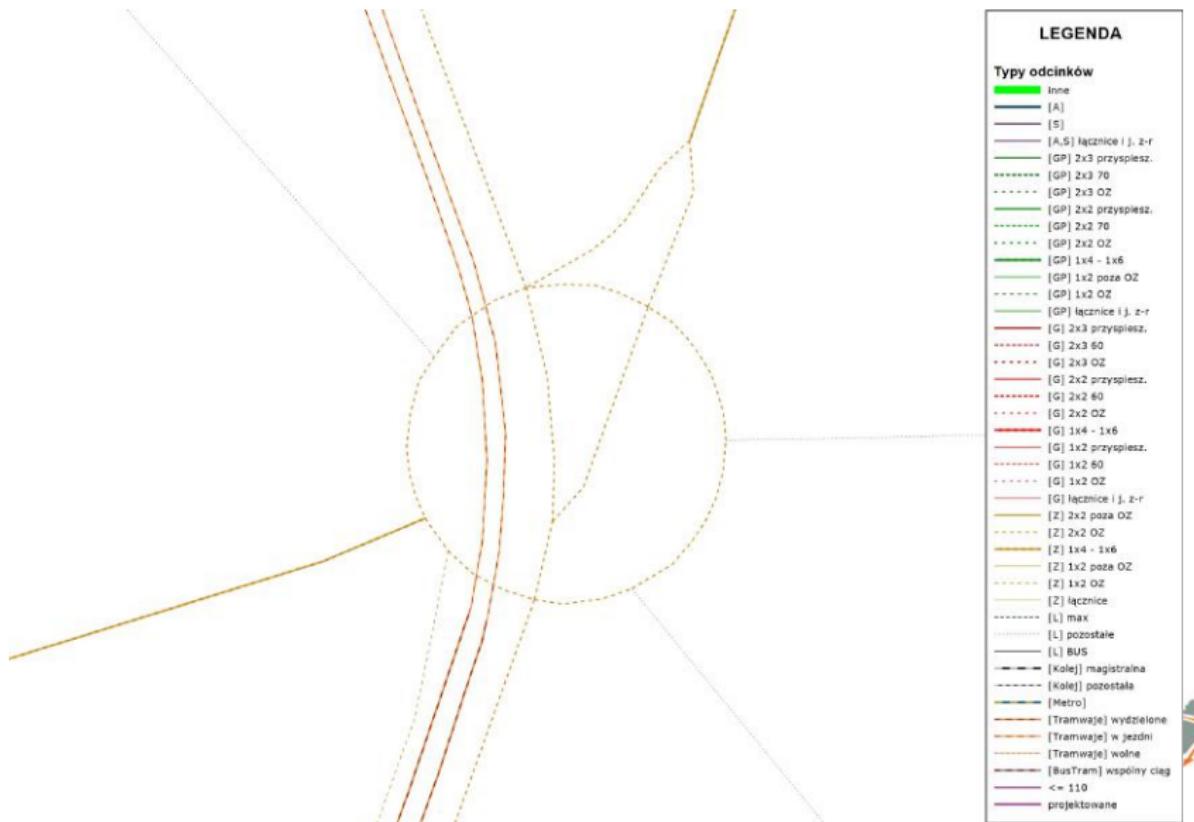
Odcinki

kategoryzacja

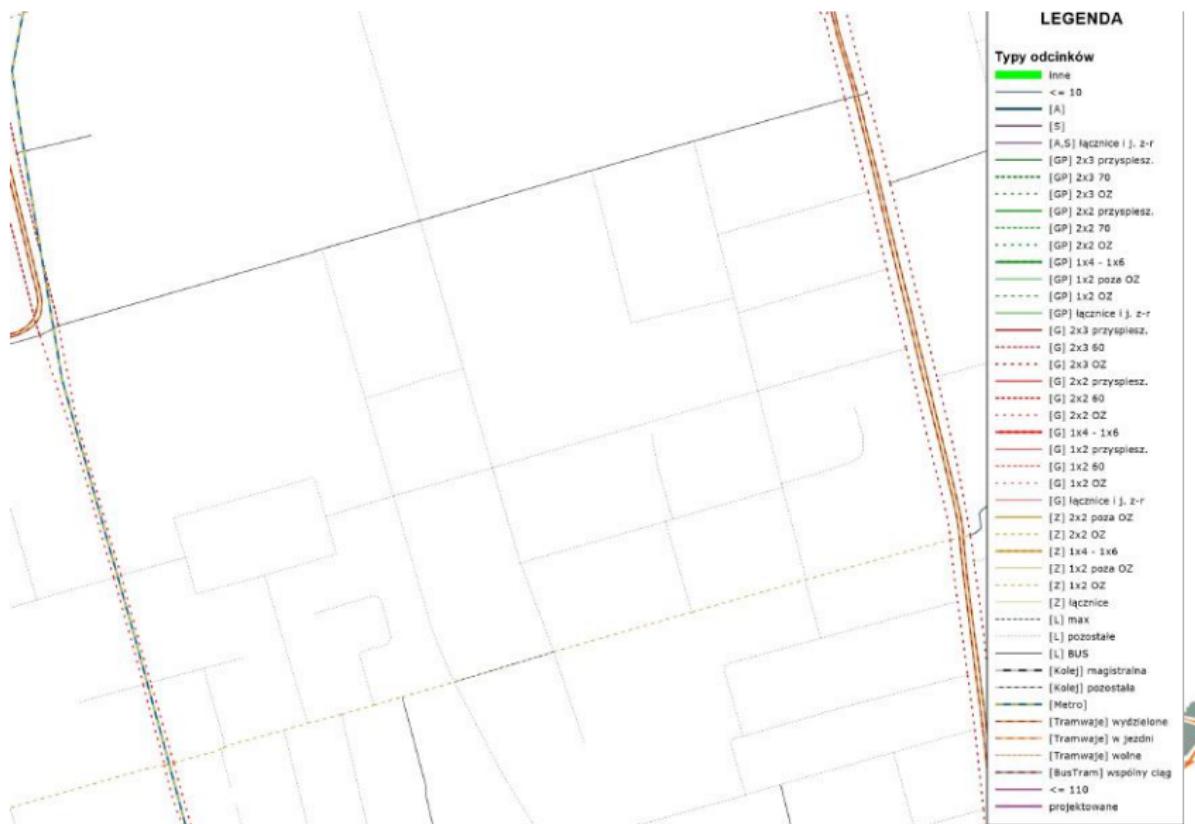


Odcinki

geometria



Odcinki układ lokalny



Odcinki

węzły drogowe



Odcinki

inwestycje planowane

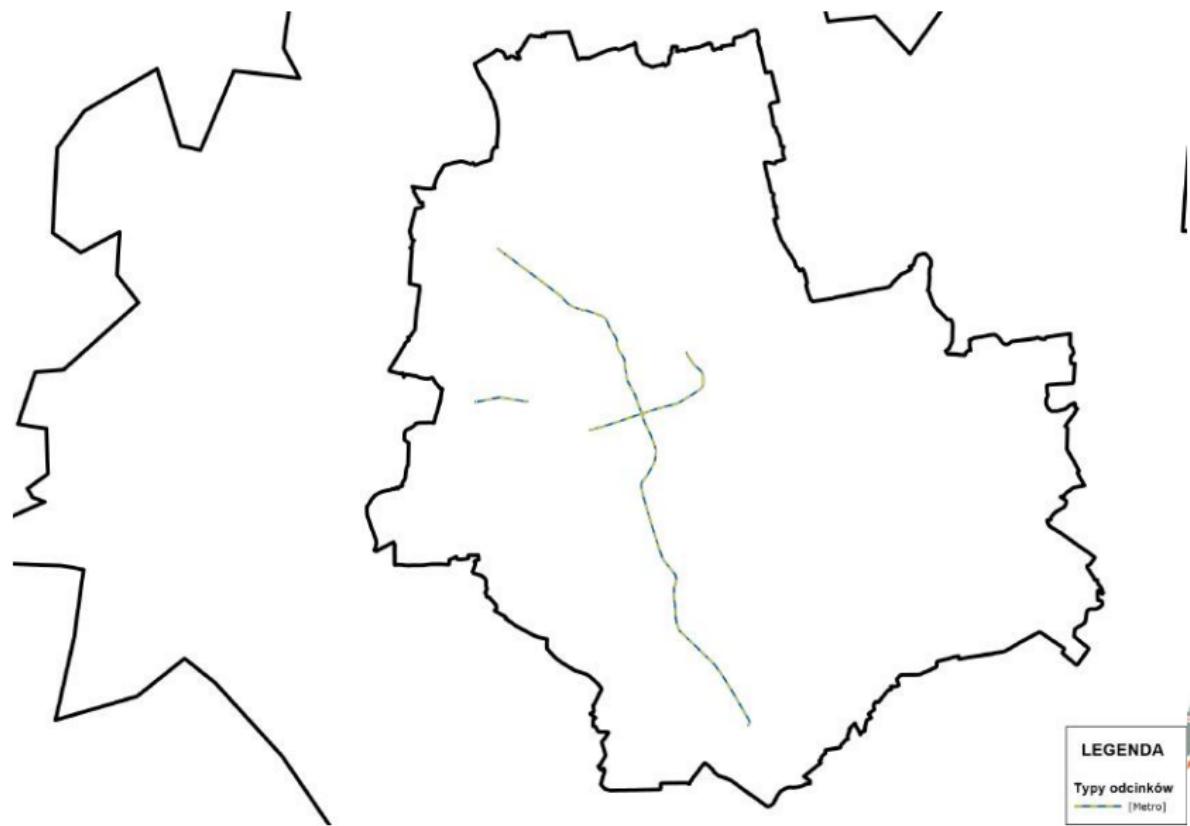


Odcinki kolej



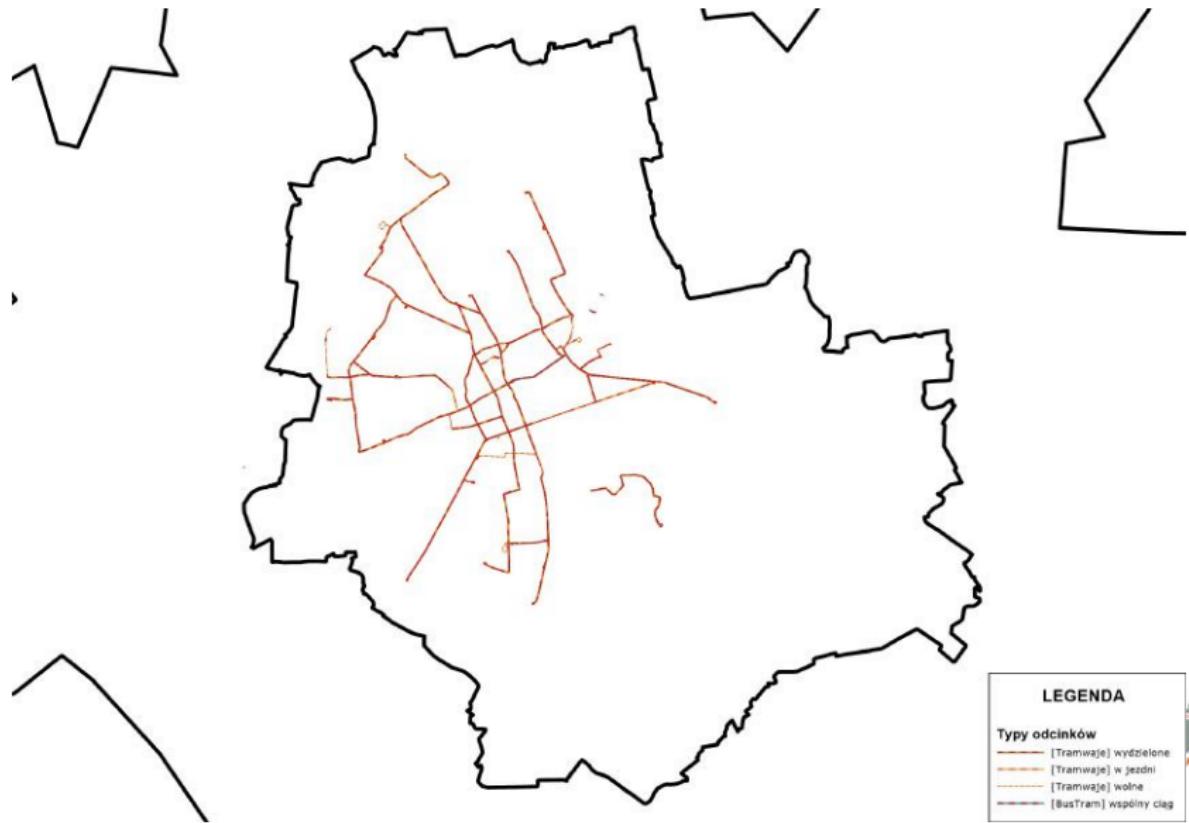
Odcinki

metro



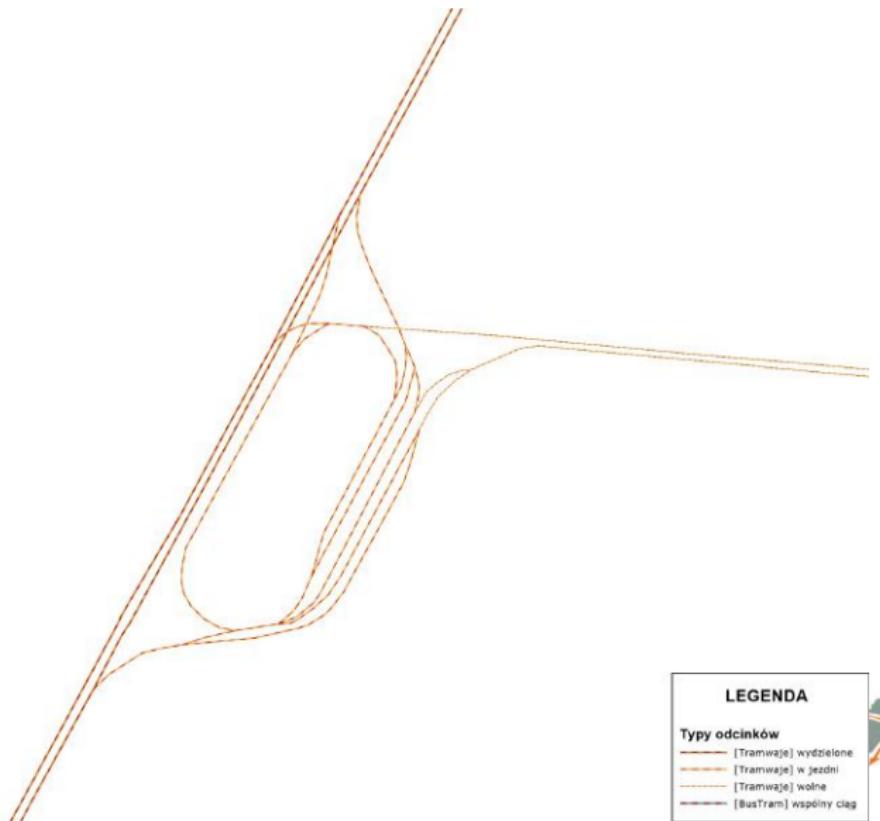
Odcinki

tramwaj



Odcinki

układ torowy

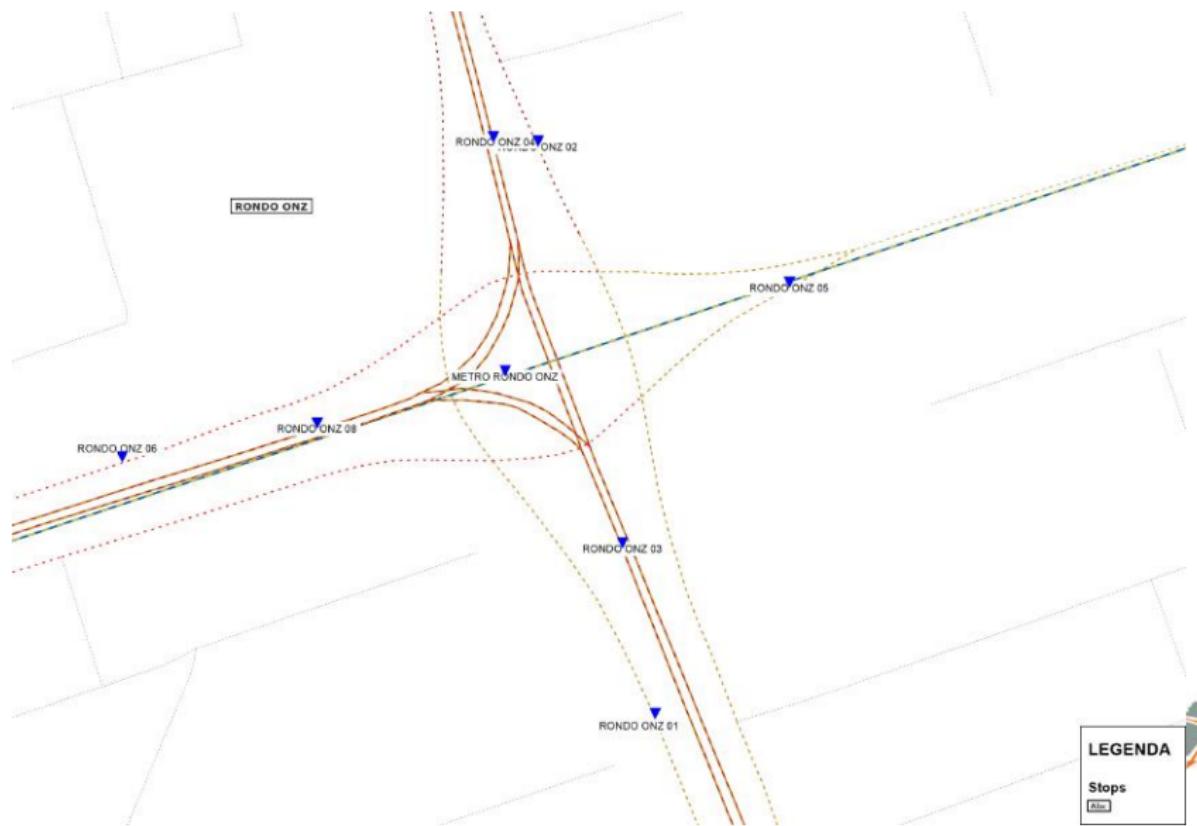


Przystanki



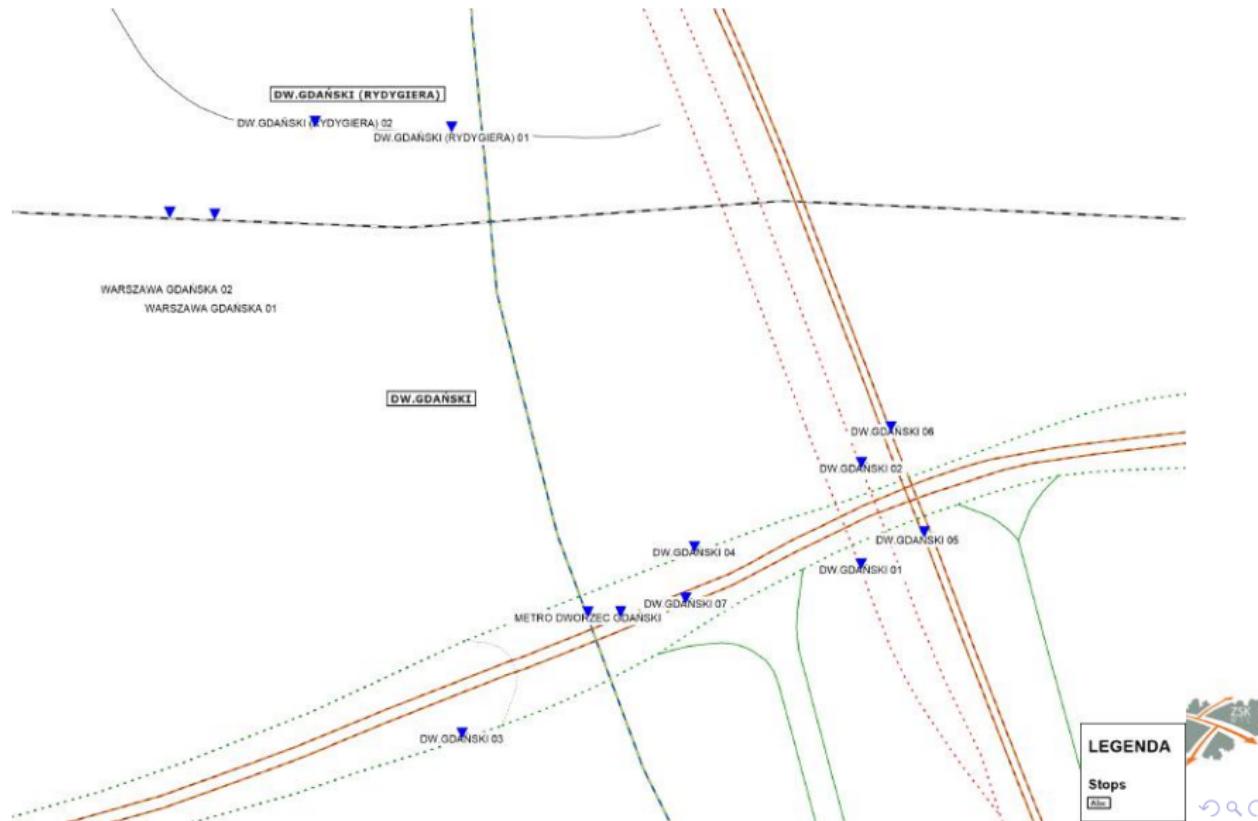
Przystanki

Zespoły przystankowe



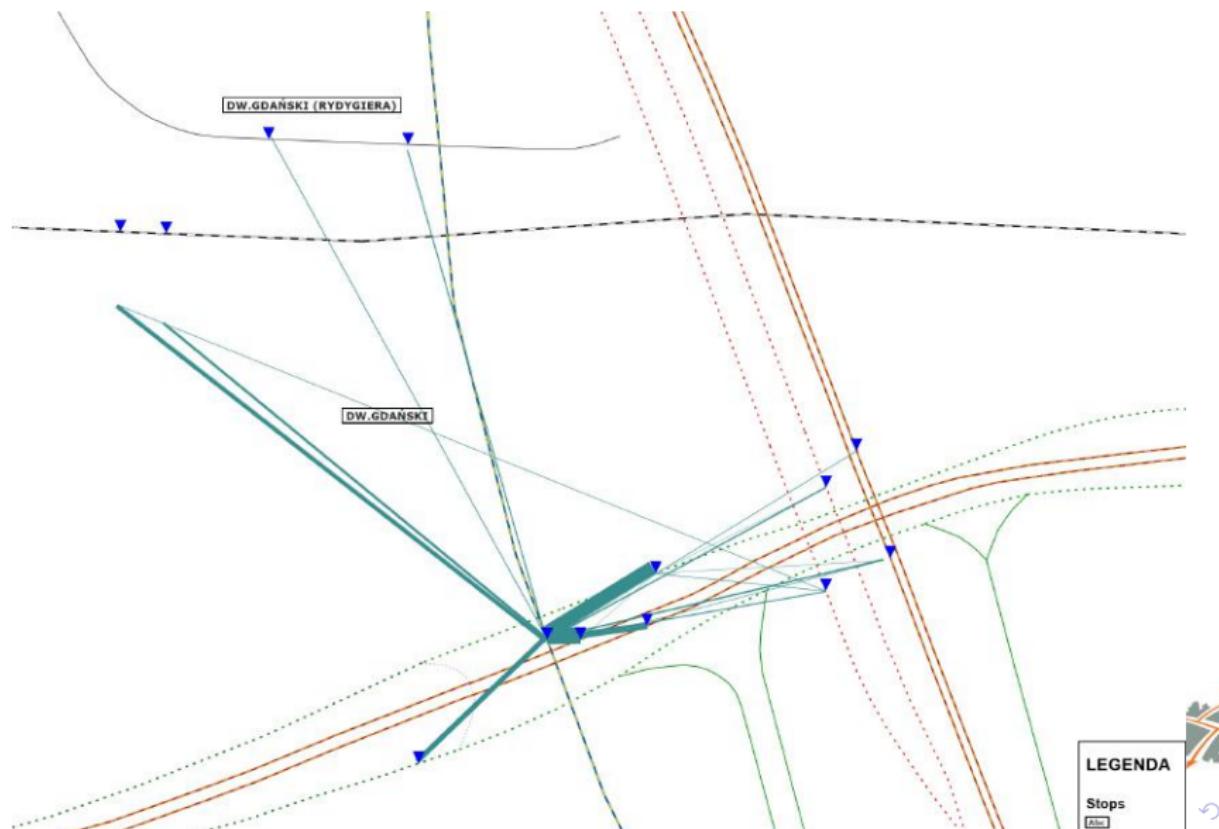
Przystanki

Zespoły przystankowe multimodalne



Przystanki

Relacje przesiadkowe - potoki



Przystanki

Relacje przesiadkowe - czasy przejścia

DW.GDAŃSKI (RYDYGIERA)

Edit stop 701900

| | |
|--------|------------|
| Number | 701900 |
| Code | |
| Name | DW.GDAŃSKI |
| Type | 1 |

Basis | Stop areas | Stop points | Walk times / stop areas | Spec. walk times | Wait times | User-defined attributes |

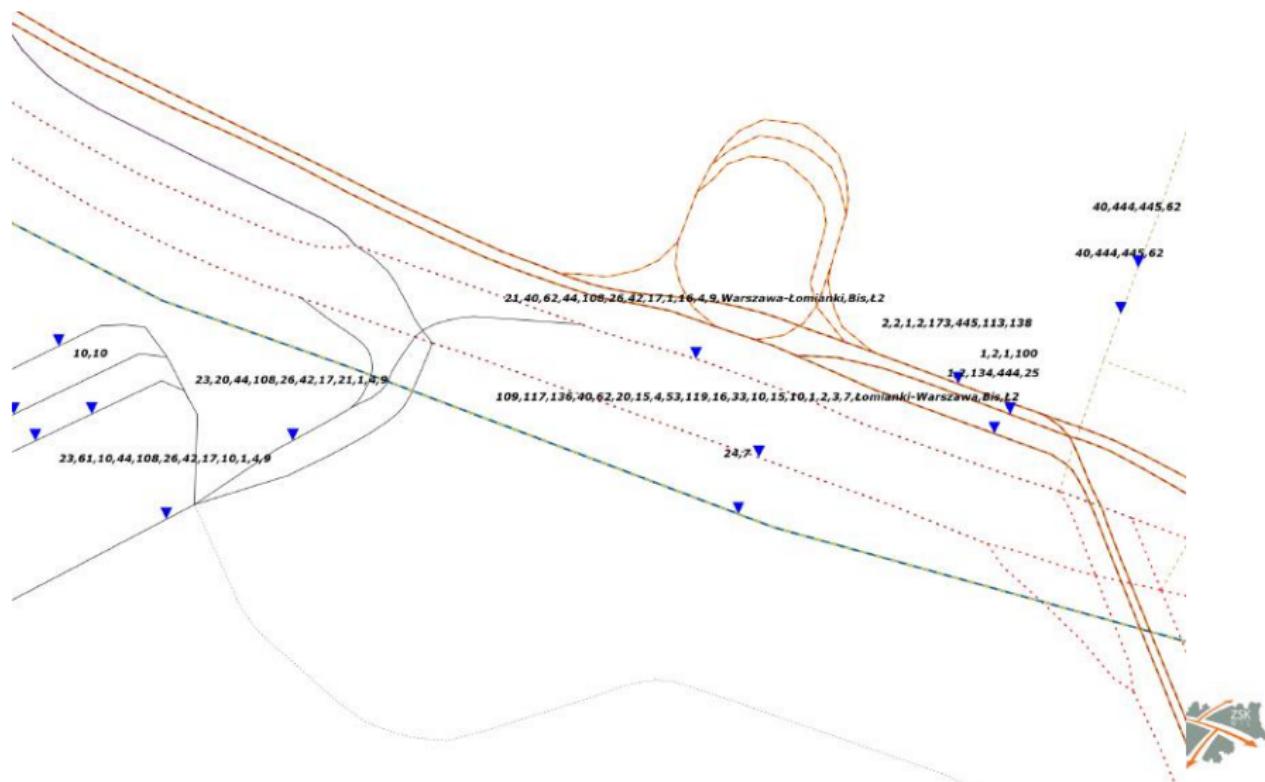
| Count: 13 | 621201 | 621202 | 701901 | 701902 | 701903 | 701904 | 701905 | 701906 | 701907 | 701908 | 701999 | 790301 | 790302 |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 621201 | 0min | 36s | 2min 37s | 2min 19s | 2min 39s | 2min 7s | 2min 43s | 2min 20s | 2min 18s | 2min 14s | 2min 12s | 1min 18s | 1min 25s |
| 621202 | 36s | 0min | 3min 7s | 2min 51s | 2min 47s | 2min 31s | 3min 14s | 2min 53s | 2min 41s | 2min 34s | 2min 29s | 56s | 59s |
| 701901 | 2min 37s | 3min 7s | 0min | 26s | 1min 55s | 44s | 16s | 37s | 47s | 1min 5s | 1min 13s | 3min 6s | 3min 18s |
| 701902 | 2min 19s | 2min 51s | 26s | 0min | 2min 8s | 49s | 24s | 12s | 58s | 1min 15s | 1min 22s | 2min 57s | 3min 10s |
| 701903 | 2min 39s | 2min 47s | 1min 55s | 2min 8s | 0min | 1min 19s | 2min 12s | 2min 20s | 1min 9s | 53s | 46s | 2min 12s | 2min 22s |
| 701904 | 2min 7s | 2min 31s | 44s | 49s | 1min 19s | 0min | 59s | 1min 1s | 13s | 26s | 33s | 2min 23s | 2min 36s |
| 701905 | 2min 43s | 3min 14s | 16s | 24s | 2min 12s | 59s | 0min | 29s | 1min 3s | 1min 21s | 1min 30s | 3min 17s | 3min 30s |
| 701906 | 2min 20s | 2min 53s | 37s | 12s | 2min 20s | 1min 1s | 29s | 0min | 1min 11s | 1min 27s | 1min 34s | 3min 3s | 3min 16s |
| 701907 | 2min 18s | 2min 41s | 47s | 58s | 1min 9s | 13s | 1min 3s | 1min 11s | 0min | 17s | 26s | 2min 28s | 2min 41s |
| 701908 | 2min 14s | 2min 34s | 1min 5s | 1min 15s | 53s | 26s | 1min 21s | 1min 27s | 17s | 0min | 8s | 2min 16s | 2min 28s |
| 701999 | 2min 12s | 2min 29s | 1min 13s | 1min 22s | 46s | 33s | 1min 30s | 1min 34s | 26s | 8s | 0min | 2min 9s | 2min 21s |
| 790301 | 1min 18s | 56s | 3min 6s | 2min 57s | 2min 12s | 2min 23s | 3min 17s | 3min 3s | 2min 28s | 2min 16s | 2min 9s | 0min | 12s |
| 790302 | 1min 25s | 59s | 3min 18s | 3min 10s | 2min 22s | 2min 36s | 3min 30s | 3min 16s | 2min 41s | 2min 28s | 2min 21s | 12s | 0min |

W Pieszy ▾

OK Cancel

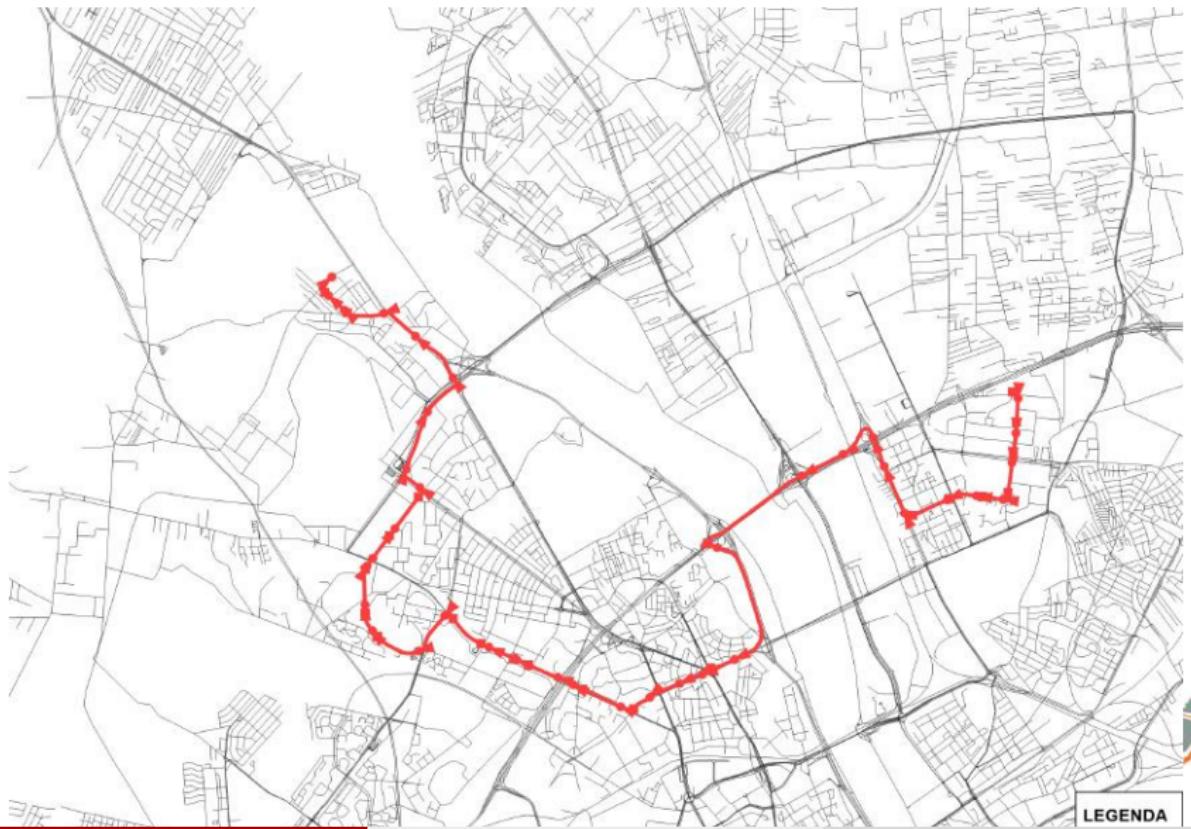
Rozkład jazdy

Linie zatrzymujące się na przystankach

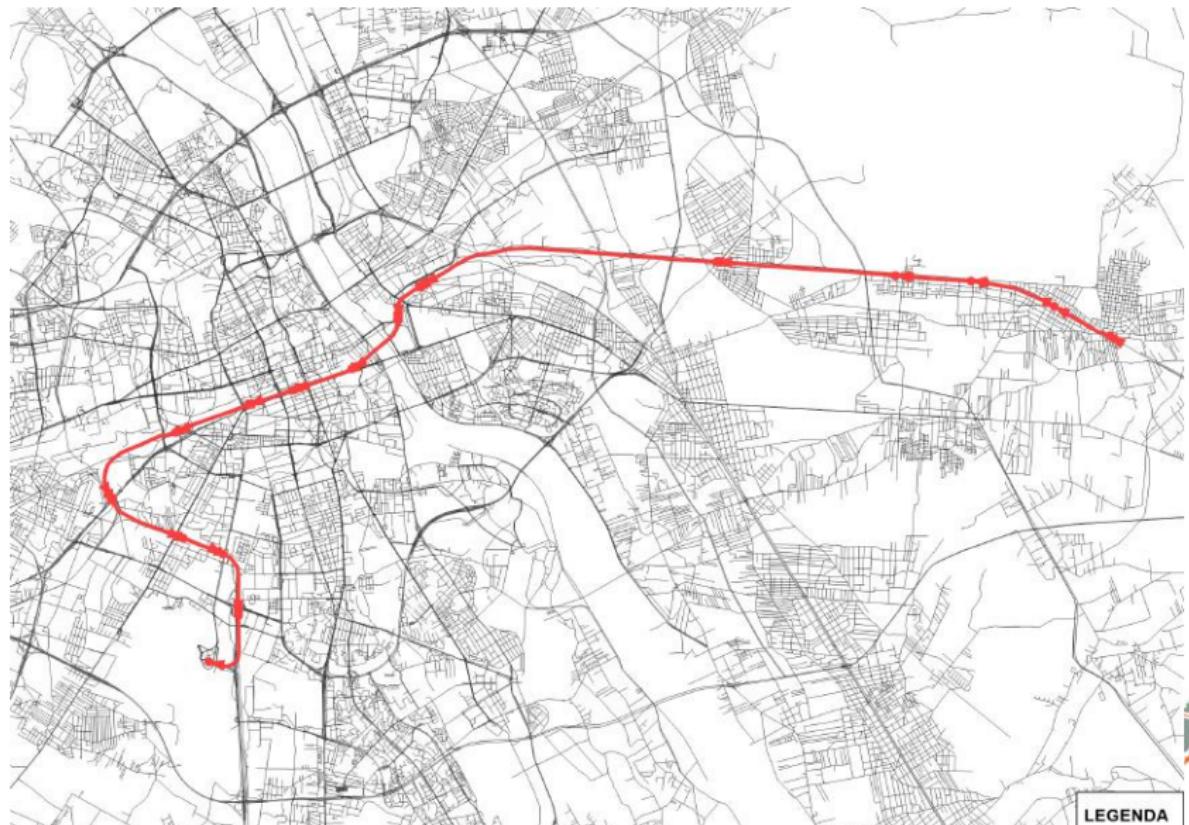


Przebieg linii

autobus

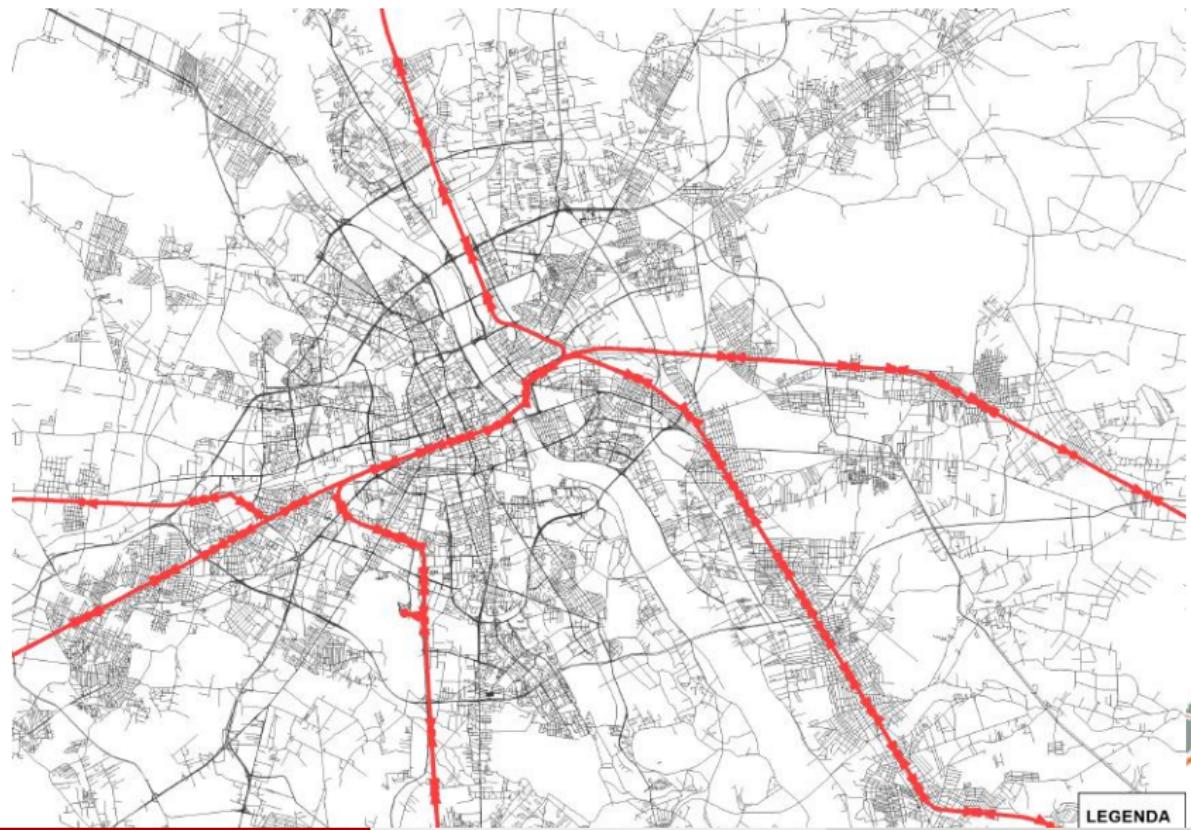


Przebieg linii kolej

**LEGENDA**

Przebieg linii

wiązka



Trasa

sekwencja przystanków i czas rozkładowy



Edit line route BUS-181;106;<

| Line | BUS-181 | <input type="checkbox"/> Show only active lines | Direction | < Direction: down | | | | | | | |
|--|-------------|---|-------------------------------------|-------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------|----------|------|
| Name | 106 | | | | | | | | | | |
| Basis Items and time profiles User-defined attributes: Line route User-defined attributes: Time profiles | | | | | | | | | | | |
| | | | | | | | | | | | |
| Index | StopPointNo | StopPointName | IsRoutePoint | A | Profile point | <> | Board | Allright | StopTime | Run time | Accu |
| 1 | 600318 | PL.WILSONA 18 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 3 | 600304 | PL.WILSONA 04 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 8 | 607600 | BOHOMOLCA 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 13 | 607705 | MARYMONT-POTOK 06 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 19 | 613302 | OS.POTOK 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 2min | |
| 22 | 613702 | RUDZKA 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 26 | 613602 | SOBOCKA 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 31 | 608504 | LEKTYKARSKA 04 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 35 | 600705 | PODLEJNA-JIGIW 05 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 38 | 600852 | AWF 52 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 41 | 600902 | TWARDOWSKA 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 44 | 601002 | SZPITAL BIELAŃSKI 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 47 | 601102 | UKSW 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 51 | 601202 | LAS BIELAŃSKI 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 53 | 601302 | PRZY AGORZE 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 54 | 601402 | CM.WŁOSKI 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 60 | 601502 | PROZY 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 66 | 601602 | MUZEALNA 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 71 | 601702 | DZIERZONIOWSKA 04 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 2min | |
| 78 | 607402 | ANNY JAGIELLONKI 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 81 | 607302 | ZUBROWA-UKSW 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 90 | 606202 | TULOWICKA 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 0min | |
| 91 | 607202 | DANKOWICKA 02 | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 96 | 607102 | CM.PÓŁNOCNY-BRAMA PL | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 99 | 606902 | CM.PÓŁNOCNY-BRAMA GL | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |
| 103 | 606903 | CM.PÓŁNOCNY-BRAMA GL | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0min | 1min | |

Adapt time profiles automatically

< < > > RANO_M_POPO / < < > > Reference journey No reference journey

Edit course Apply Timetable OK Cancel

Trasa

rozkład jazdy

Timetable (tabular)

| ObjNo | ObjCode | ObjName | Arr / Dep |
|--------|---------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 606900 | | CM.PÓŁNOCNY-BRAM | 12:46:00 | 13:01:00 | | 13:16:00 | 13:31:00 | | 13:46:00 | | 14:01:00 |
| 606900 | | CM.PÓŁNOCNY-BRAM | | | | | | | | | |
| 606900 | | CM.PÓŁNOCNY-BRAM | 12:45:00 | 13:00:00 | 13:15:00 | | 13:30:00 | 13:45:00 | | | 14:00:00 |
| 607100 | | CM.PÓŁNOCNY-BRAM | | | 12:59:00 | 13:14:00 | 13:29:00 | | 13:44:00 | | 13:59:00 |
| 607100 | | CM.PÓŁNOCNY-BRAM | 12:44:00 | 12:59:00 | 13:14:00 | | 13:29:00 | 13:44:00 | | | |
| 607200 | | DANKOWICKA | | | | | | | | | |
| 607200 | | DANKOWICKA | 12:43:00 | 12:58:00 | 13:13:00 | 13:28:00 | 13:43:00 | | | | 13:58:00 |
| 606200 | | TUŁOWICKA | 12:43:00 | 12:58:00 | 13:13:00 | 13:28:00 | 13:43:00 | | | | 13:58:00 |
| 606200 | | TUŁOWICKA | | | | | | | | | |
| 607300 | | ZUBROWA-UKSW | | | | | | | | | |
| 607300 | | ZUBROWA-UKSW | 12:42:00 | 12:57:00 | 13:12:00 | 13:27:00 | 13:42:00 | | | | 13:57:00 |
| 607400 | | ANNY JAGIELLONKI | 12:41:00 | 12:56:00 | 13:11:00 | 13:26:00 | 13:41:00 | | | | 13:56:00 |
| 607400 | | ANNY JAGIELLONKI | | | | | | | | | |
| 601700 | | DZIERZONIOWSKA | 12:40:00 | 12:55:00 | 13:10:00 | 13:25:00 | 13:40:00 | | | | 13:55:00 |
| 601600 | | MUZEALNA | 12:38:00 | 12:53:00 | 13:08:00 | 13:23:00 | 13:38:00 | | | | 13:53:00 |
| 601500 | | PROZY | 12:37:00 | 12:52:00 | 13:07:00 | 13:22:00 | 13:37:00 | | | | 13:52:00 |
| 601400 | | CM.WŁOSKI | 12:36:00 | 12:51:00 | 13:06:00 | 13:21:00 | 13:36:00 | | | | 13:51:00 |
| 601300 | | PRZY AGORZE | 12:35:00 | 12:50:00 | 13:05:00 | 13:20:00 | 13:35:00 | | | | 13:50:00 |
| 601200 | | LAS BIELAŃSKI | 12:34:00 | 12:49:00 | 13:04:00 | 13:19:00 | 13:34:00 | | | | 13:49:00 |
| 601100 | | UKSW | 12:33:00 | 12:48:00 | 13:03:00 | 13:18:00 | 13:33:00 | | | | 13:48:00 |
| 601000 | | SZPITAL BIELAŃSKI | 12:32:00 | 12:47:00 | 13:02:00 | 13:17:00 | 13:32:00 | | | | 13:47:00 |
| 600900 | | TWARDOWSKA | 12:31:00 | 12:46:00 | 13:01:00 | 13:16:00 | 13:31:00 | | | | 13:46:00 |
| 600800 | | AWF | 12:30:00 | 12:45:00 | 13:00:00 | 13:15:00 | 13:30:00 | | | | 13:45:00 |
| 600700 | | PODLENA-IMGW | 12:29:00 | 12:44:00 | 12:59:00 | 13:14:00 | 13:29:00 | | | | 13:44:00 |
| 600700 | | PODLENA-IMGW | | | | | | | | | |
| 608500 | | LEKTYKARSKA | | | | | | | | | |
| 608500 | | LEKTYKARSKA | 12:28:00 | 12:43:00 | 12:58:00 | 13:13:00 | 13:28:00 | | | | 13:43:00 |
| 608600 | | KLAUDYNY | | | | | | | | | |

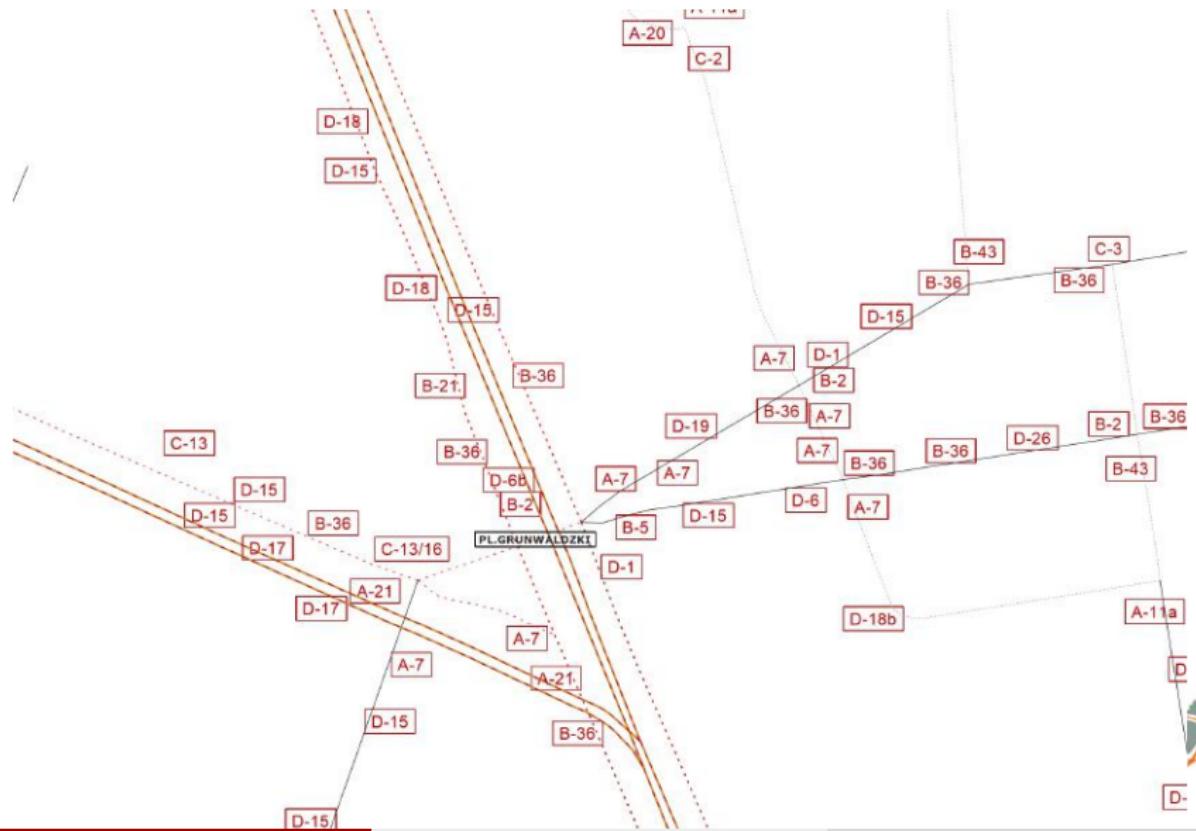


Warstwy dodatkowe



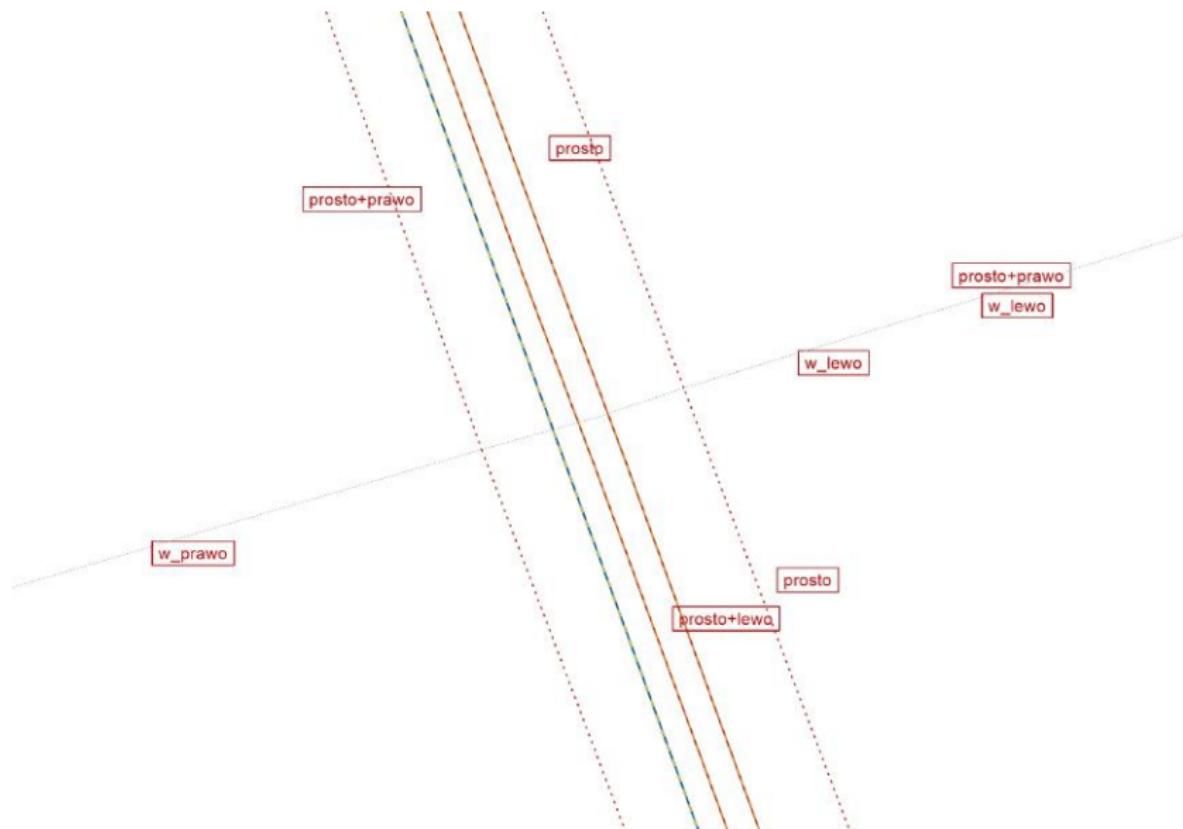
Warstwy SIP

Oznakowanie pionowe (znaki)



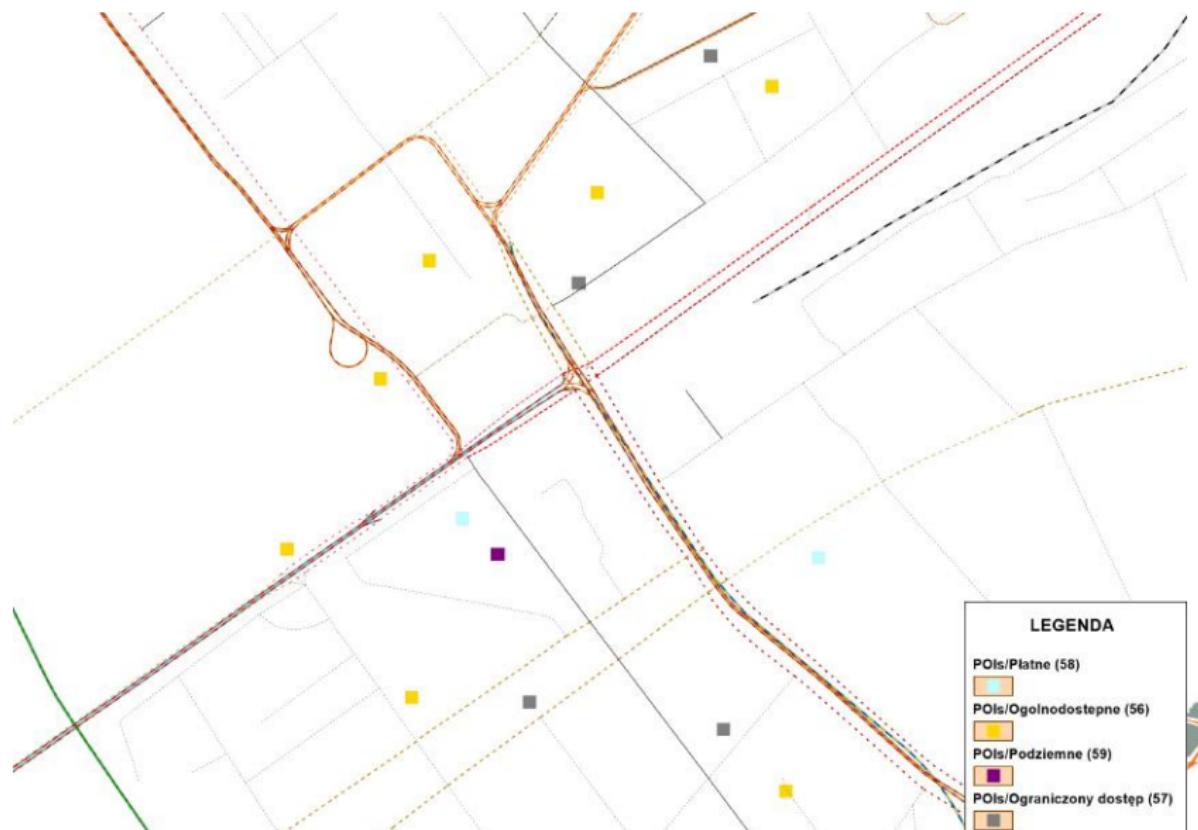
Warstwy SIP

Oznakowanie poziomie (strzałki)



Warstwy SIP

Parkingi



Warstwy SIP

Stacje roweru miejskiego



Parametryzacja



Odcinek

podstawowe parametry

Edit link

| | |
|------------|--------------------|
| Number | 15655 |
| From node: | 2028 |
| To node: | 35439 |
| Type | 23 [GP]_2x2szybkie |

Set standard values for this link type

| | | | |
|---|-------------------------------------|-------------------|--------|
| Transport systems | BUS,M_bus,SC... | | |
| Basis PrT TSys PuT TSys Environment Congestion DUE ICA User-defined | | | |
| Length | 0.986km | v0 PrT | 83km/h |
| AddValue 1 | 0 | Lanes | 2 |
| AddValue 2 | 0 | Capacity PrT | 4000 |
| AddValue 3 | 0 | HGV share [%] | 0 |
| Plan no | 0 | VolCapRatio PrT | 53 % |
| Bar label | <input checked="" type="checkbox"/> | Volume PrT [Veh] | 1845 |
| | | Volume PuT [Pers] | 363 |
| Name | | | |

Opposite OK Cancel



Odcinek

dodatkowe parametry (Used Defined Attributes)

Edit link

| | |
|------------|--------------------|
| Number | 15655 |
| From node: | 2028 |
| To node: | 35439 |
| Type | 23 [GP]_2x2szybkie |

Set standard values for this link type

| | |
|-------------------|-----------------|
| Transport systems | BUS,M_bus,SC... |
|-------------------|-----------------|

PUT TSys | Environment | Congestion | DUE | ICA | User-defined attributes | T ↻

| Attribute | Value |
|------------------------------|----------|
| P_P_EV_SREDNIA_WART8 | |
| P_P_EV_SREDNIA_WART9 | |
| P_P_GODZDO | 17:00 |
| P_P_GODZOD | 16:00 |
| P_P_MIKROBUSY | 0 |
| P_P_MOTOCYKLE | 50 |
| P_P_OPIS | Lomianki |
| P_P_ROWERY | 0 |
| P_P_SCbP | 140 |
| P_P_SCzP | 181 |
| P_P_SC_WBR | |
| P_P_SD | 150 |
| P_P_SD_WBR | |
| P_P_SO | 2070 |
| P_P_SUMA_RZECZYWISTE | 2626 |
| P_P_SUMA_UMOWNE | 0 |
| P_P_ZSR_DZIEN_DATA | |
| P_P_ZSR_DZIEN_GODZDO | |
| P_P_ZSR_DZIEN_GODZOD | |
| P_P_ZSR_DZIEN_LPOJUZGODNIONE | |
| P_P_ZSR_DZIEN_LPOJWYGLADZONE | |
| P_P_ZSR_DZIEN_OPIS | |

Show all Rows

Opposite OK Cancel



Typy odcinków

parametry

| Count: 100 | No | Name | NumLanes | CapPrT | V0PrT | Opis | UDZIAŁ_CIEZKI_WLOTU_W_SYC |
|------------|----|-----------------------|----------|--------|---------|--|---------------------------|
| 1 | 0 | ogólne | 1 | 0 | 0km/h | Ogólne | 0.05 |
| 2 | 1 | RR | 1 | 600 | 20km/h | Droga rowerowa | 0.00 |
| 3 | 2 | [A]_2x2 | 2 | 4400 | 136km/h | Autostrada 2x2 | 0.05 |
| 4 | 3 | [A]_2x3 | 3 | 7500 | 135km/h | Autostrada 2x3 | 0.05 |
| 5 | 4 | [AS]_2x4 | 4 | 8800 | 123km/h | Autostrada 2x4 | 0.05 |
| 6 | 5 | [A]L_-1 | 1 | 1200 | 65km/h | Łącznica autostradowa, 1 pas | 0.05 |
| 7 | 6 | [A]L_-2 | 2 | 3000 | 70km/h | Łącznica autostradowa, 2 pasy | 0.05 |
| 8 | 7 | [S]_2x1 | 1 | 2200 | 115km/h | Droga ekspresowa 2x1 | 0.05 |
| 9 | 8 | [S]_2x2 | 2 | 3200 | 100km/h | Droga ekspresowa 2x2 | 0.05 |
| 10 | 9 | [S]_2x3 | 3 | 6600 | 123km/h | Droga ekspresowa 2x3 | 0.05 |
| 11 | 10 | [A]_2x3proj | 3 | 6600 | 135km/h | Autostrada 2x3 projektowana (BRAK ODCI) | 0.05 |
| 12 | 11 | [A]_2x2proj | 2 | 4400 | 136km/h | Autostrada 2x2 projektowana | 0.05 |
| 13 | 12 | [S]_2x3proj | 3 | 6600 | 123km/h | Droga ekspresowa 2x3 projektowana | 0.05 |
| 14 | 13 | [S]_2x3OZ | 3 | 6600 | 105km/h | Droga ekspresowa 2x3 o prędkości dopuszczalnej 105 km/h | 0.05 |
| 15 | 14 | [GP]_2x3Siekiernowski | 3 | 5500 | 87km/h | Droga ekspresowa 2x2 projektowana | 0.05 |
| 16 | 15 | [S]_Jzr_-2x2 | 2 | 4500 | 81km/h | Jezdnia zbiorniczo rozprowadzająca drogi ekspresowe 2x2 | 0.05 |
| 17 | 16 | [S]_Jzr_-2x2OZ | 2 | 2700 | 70km/h | Jezdnia zbiorniczo rozprowadzająca drogi ekspresowe 2x2 o dodatkowej oznaczeniu dla pojazdów o dużej masie | 0.05 |
| 18 | 17 | [AS]L_B | 2 | 3000 | 70km/h | Bezpośrednia łącznica autostrady lub drogi ekspresowej | 0.05 |
| 19 | 18 | [AS]L_P | 1 | 1200 | 65km/h | Pośrednia łącznica autostrady lub drogi ekspresowej | 0.05 |
| 20 | 19 | [AS]_INNE | 2 | 0 | 0km/h | Droga klasy A lub S nietypowa | 0.05 |
| 21 | 20 | [GP]_2x3szybkie | 3 | 4800 | 87km/h | Droga klasy GP 2x3 o prędkości dopuszczalnej 87 km/h | 0.05 |
| 22 | 21 | [GP]_2x3 | 3 | 3800 | 76km/h | Droga klasy GP 2x3 o prędkości dopuszczalnej 76 km/h | 0.05 |
| 23 | 22 | [GP]_2x3OZ | 3 | 3500 | 65km/h | Droga klasy GP 2x3 w obszarze zabudowa | 0.05 |
| 24 | 23 | [GP]_2x2szybkie | 2 | 4000 | 83km/h | Droga klasy GP 2x2 o prędkości dopuszczalnej 83 km/h | 0.05 |
| 25 | 24 | [GP]_2x2 | 2 | 2900 | 74km/h | Droga klasy GP 2x2 o prędkości dopuszczalnej 74 km/h | 0.05 |
| 26 | 25 | [GP]_2x2OZ | 2 | 2200 | 64km/h | Droga klasy GP 2x2 w obszarze zabudowa | 0.05 |
| 27 | 26 | [GP]_2x3Wislostrada | 3 | 3800 | 87km/h | Droga klasy GP nietypowa | 0.05 |
| 28 | 27 | [GP]_1x4OZ | 2 | 2100 | 62km/h | Droga klasy GP 1x4 w obszarze zabudowa | 0.05 |
| 29 | 28 | [GP]_1x2szybkie | 1 | 1700 | 80km/h | Droga klasy GP 1x2 o prędkości dopuszczalnej 80 km/h | 0.05 |
| 30 | 29 | [GP]_1x2 | 1 | 1400 | 70km/h | Droga klasy GP 1x2 o prędkości dopuszczalnej 70 km/h | 0.05 |
| 31 | 30 | [GP]_1x2OZ | 1 | 1200 | 60km/h | Droga klasy GP 1x2 w obszarze zabudowa | 0.05 |
| 32 | 31 | [GP]_Jzr | 1 | 1700 | 67km/h | Jezdnia zbiorniczo rozprowadzająca drogi klasy GP | 0.05 |
| 33 | 32 | [GP]L_B | 1 | 1100 | 55km/h | Bezpośrednia łącznica drogi klasy GP | 0.05 |
| 34 | 33 | [GP]L_P | 1 | 800 | 50km/h | Pośrednia łącznica z sygnalizacją świetlną | 0.05 |



Parametryzacja

prędkość

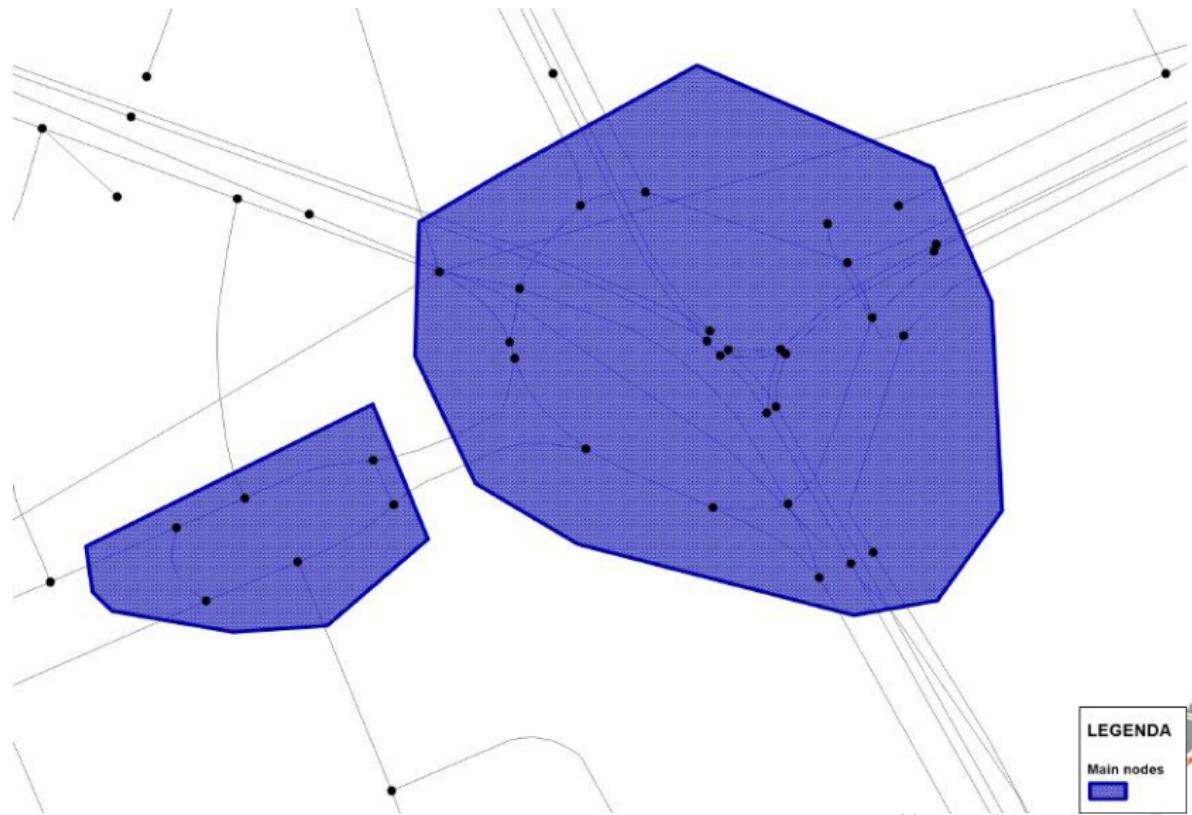


Skrzyżowania



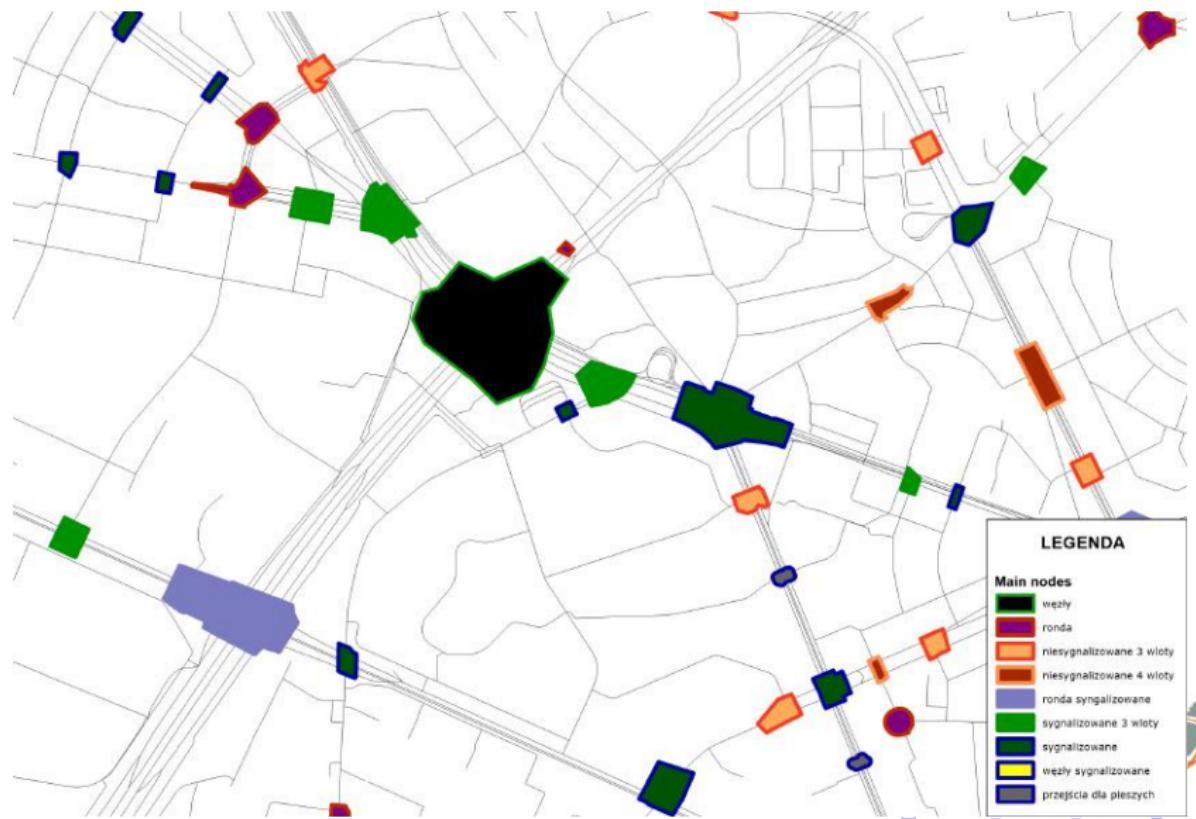
Węzły grafu

agregacja do węzłów głównych



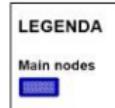
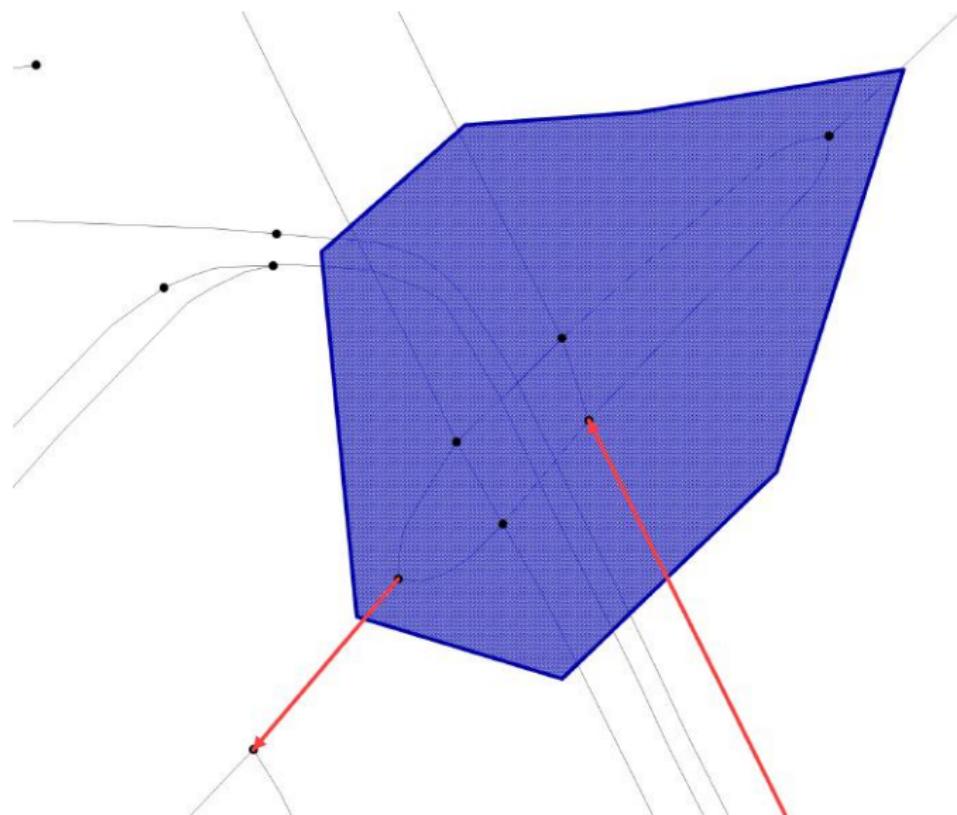
Skrzyżowania

typy



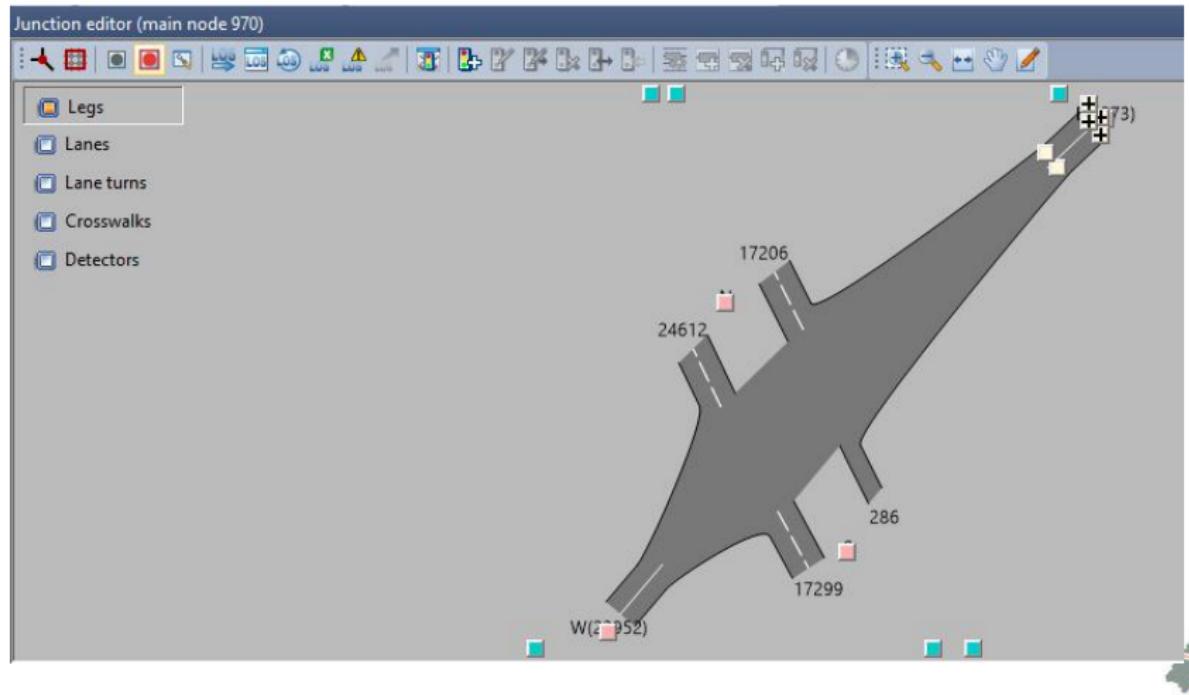
Skrzyżowania

relacje skrętne



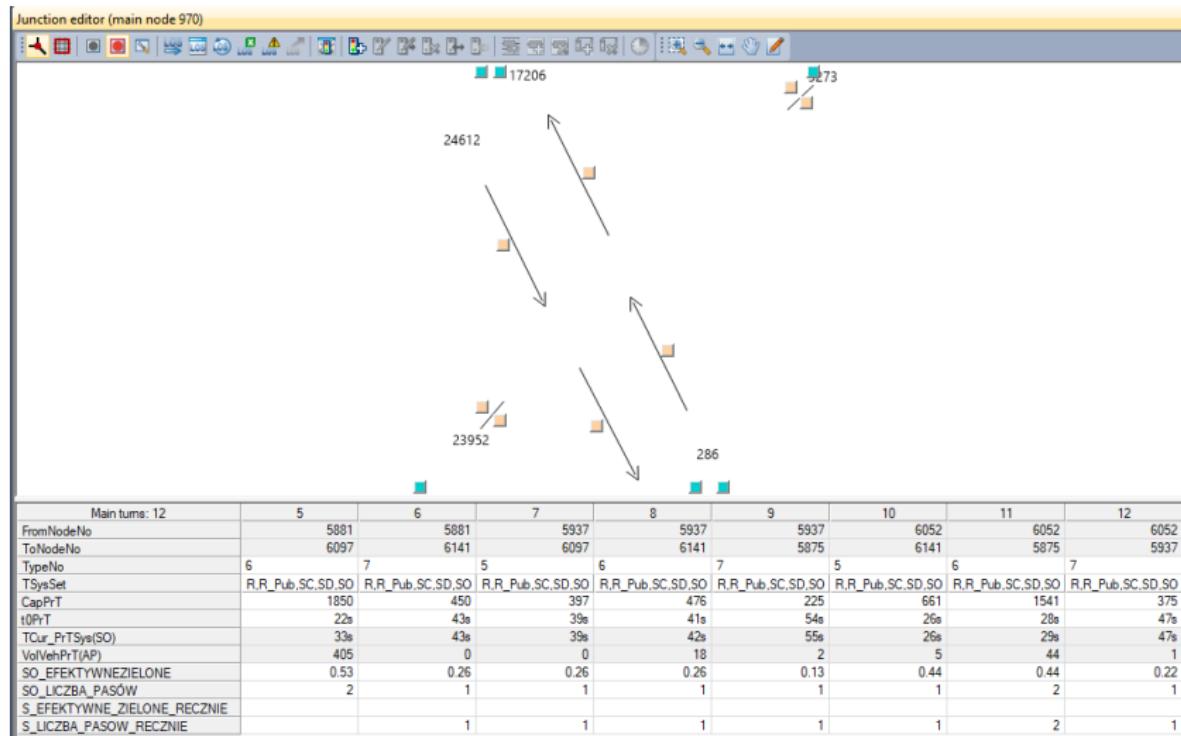
Skrzyżowania

edytor graficzny



Skrzyżowania

edytor relacji



Metoda Obliczania Przepustowości

algorytm

Parameters 'Edit attribute'

Network object type: Main turns

Target attribute: SO_EFEKTYWNEZIELONE

Only active ones

The output attribute is defined by the following term.

Click the respective buttons to add operands and operators, or modify the expression directly. Structure the expression by inserting line breaks.

```
if([S_EFEKTYWNE_ZIELONE_RECZNIE]>0,[S_EFEKTYWNE_ZIELONE_RECZNIE],  
max(0.05,  
min(0.9,  
if([VIANODE\TYPENO]=50,0.8,  
  
if(([TYPENO]=5 | [TYPENO]=6),  
([FROMLINK\LINKTYPE\S_WAGA_WLOTU_W_SYGNALIZACJI]/(0.5*[VIANODE\SUMACTIVE:INLINKS  
\LINKTYPE\S_WAGA_WLOTU_W_SYGNALIZACJI))*((120-10*[VIANODE\LICZBA_FAZ])/120),  
  
if([TYPENO]=7,  
(0.5*[FROMLINK\LINKTYPE\S_WAGA_WLOTU_W_SYGNALIZACJI]/(0.5*[VIANODE\SUMACTIVE:INLINKS  
\LINKTYPE\S_WAGA_WLOTU_W_SYGNALIZACJI))*((120-10*[VIANODE\LICZBA_FAZ])/120),  
  
if([TYPENO]=8,  
(0.25*[FROMLINK\LINKTYPE\S_WAGA_WLOTU_W_SYGNALIZACJI]/(0.5*[VIANODE\SUMACTIVE:INLINKS  
\LINKTYPE\S_WAGA_WLOTU_W_SYGNALIZACJI))*((120-10*[VIANODE\LICZBA_FAZ])/120),  
1))))))
```

Metoda Obliczania Przepustowości

algorytm

Parameters 'Edit attribute'

Network object type: Main turns

Target attribute: Capacity PrT

Only active ones

The output attribute is defined by the following term.

Click the respective buttons to add operands and operators, or modify the expression directly. Structure the expression by inserting line breaks.

```
Floor(if([CAPPRT]=0,0,  
if([TYPENO]=6,[SO_EFEKTYWNEZIELONE]*1800*[SO_LICZBA_PASÓW]/(1+min([FROMLINK\LINKTYPE  
\$_UDZIAŁ_CIĘZKICH],[TOLINK\LINKTYPE\$_UDZIAŁ_CIĘZKICH])),  
if([TYPENO]=5,[SO_EFEKTYWNEZIELONE]*1500*[SO_LICZBA_PASÓW]/(1+min([FROMLINK\LINKTYPE  
\$_UDZIAŁ_CIĘZKICH],[TOLINK\LINKTYPE\$_UDZIAŁ_CIĘZKICH])),  
if(([TYPENO]=7 | [TYPENO]=8),[SO_EFEKTYWNEZIELONE]*1700*[SO_LICZBA_PASÓW]/(1+min  
([FROMLINK\LINKTYPE\$_UDZIAŁ_CIĘZKICH],[TOLINK\LINKTYPE\$_UDZIAŁ_CIĘZKICH])),  
[CAPPRT))))
```

OK Cancel

Szukanie najkrótszej ścieżki



Opór w sieci

impedancia

General procedure settings

PrT settings - Impedance

Parameters 'Edit attribute'

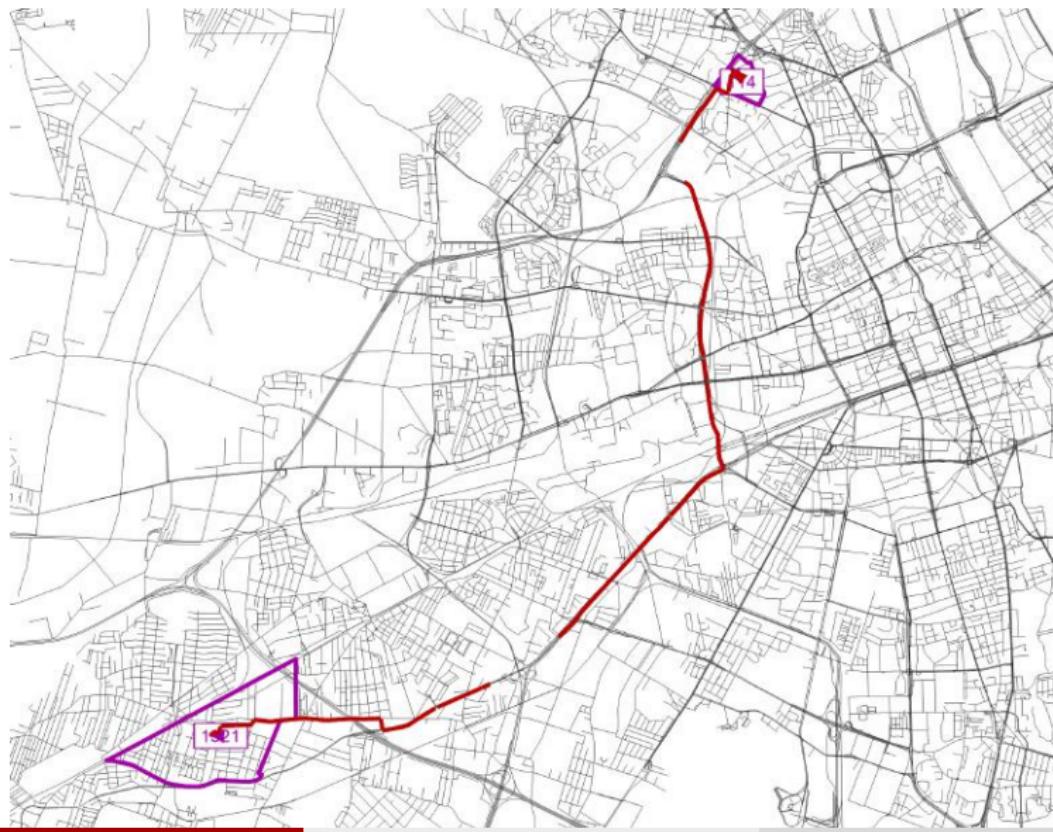
Network object type Link

Target attribute Impedance(SO)
:=

| Number: | Coefficient | Attribute |
|---------|-------------|----------------------|
| 4 | 1.0000 | TCur_PRTSys(SO) |
| + | 300.0000 | SO_WJAZD_DO_WARSZAWY |
| + | 100000.0000 | SO_WJAZD_DO_MODELU |
| + | 300.0000 | S_MOST |

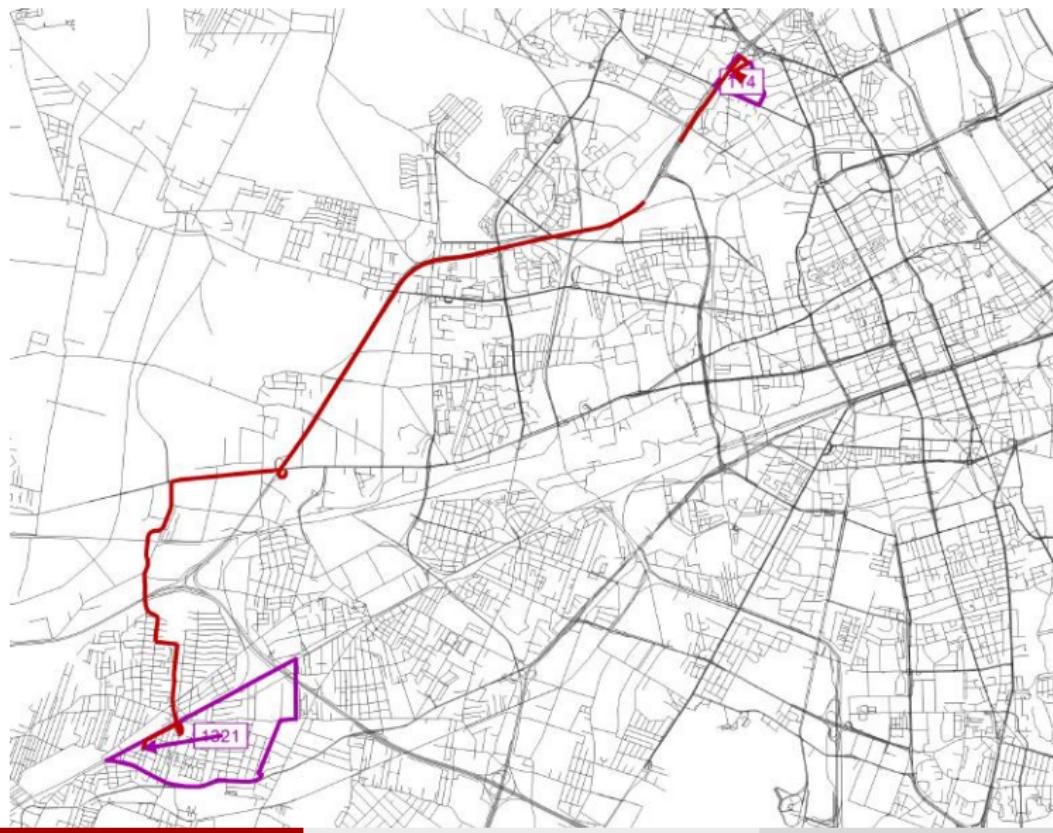


Najkrótsza ścieżka odległość



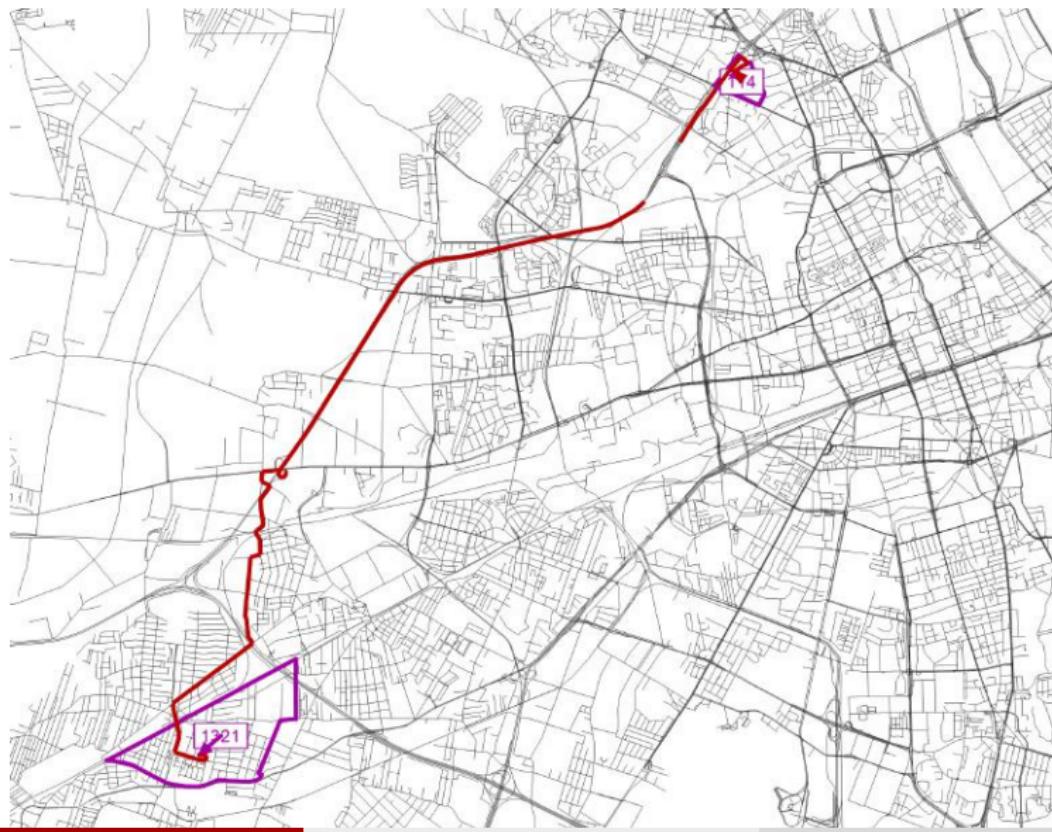
Najkrótsza ścieżka

czas



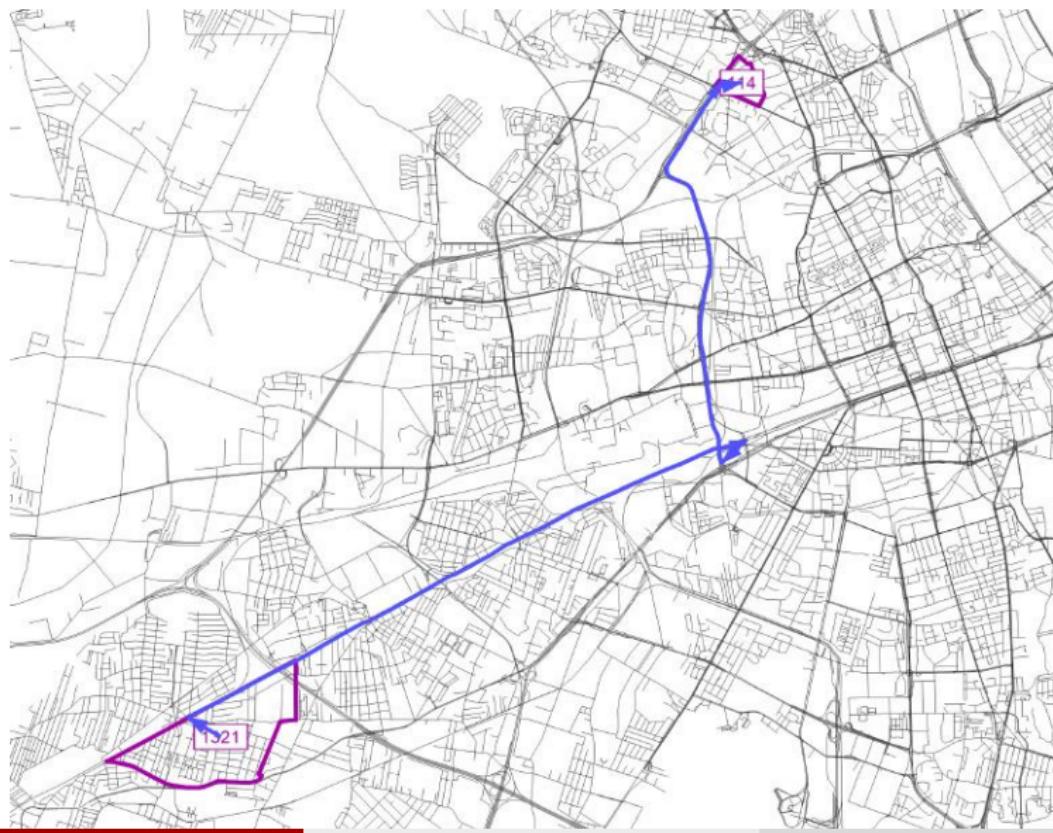
Najkrótsza ścieżka

czas w zatłoczonej sieci



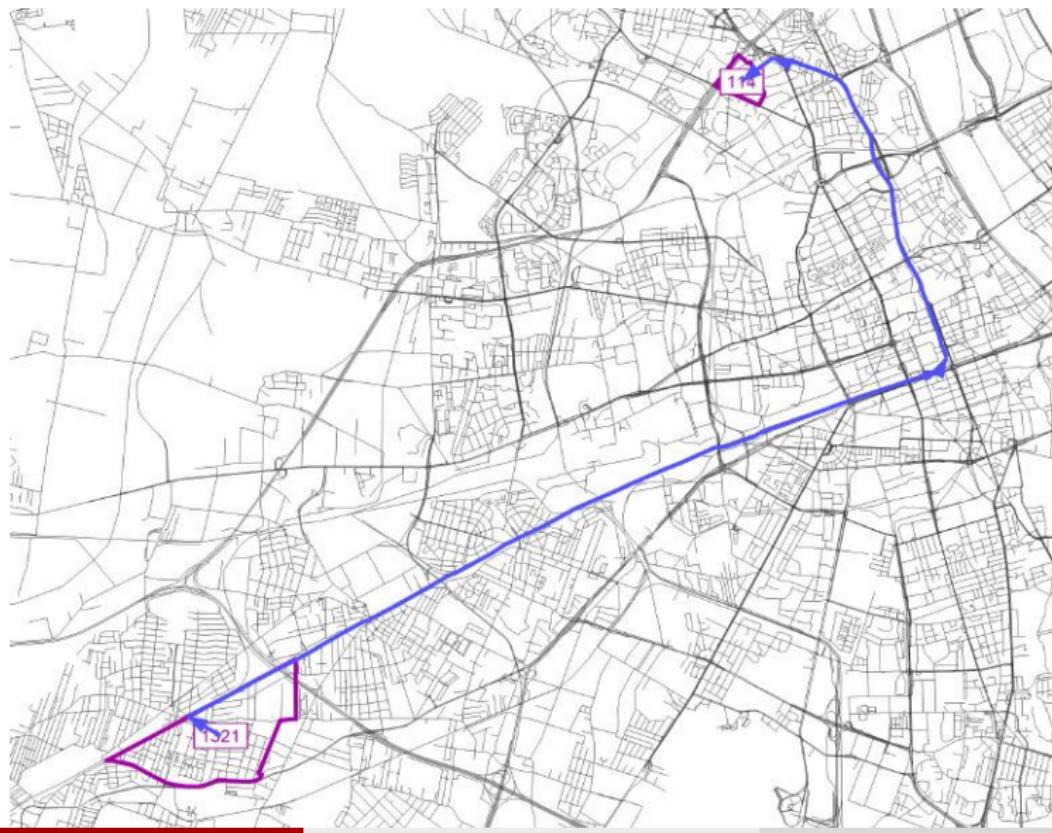
Najkrótsza ścieżka

komunikacja zbiorowa rano



Najkrótsza ścieżka

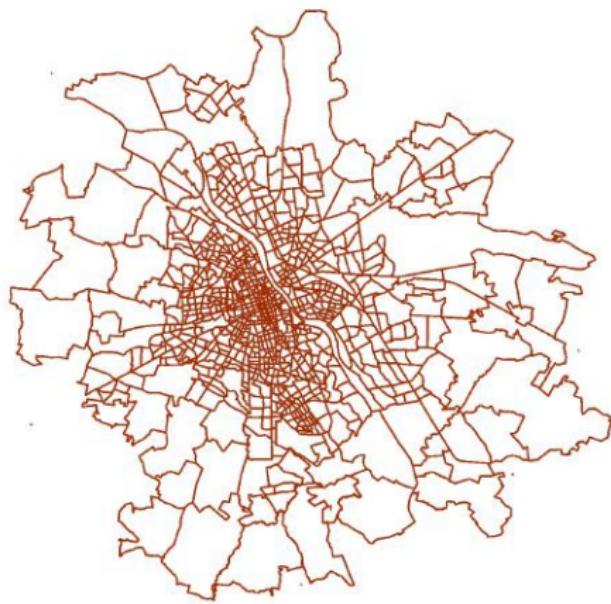
komunikacja zbiorowa wieczór



Model popytu



Rejony



Rejony



Rejony



Motywacje

ruch wewnętrzny

Demand models

Select demand model

M01 Warszawa

Basis | Person groups | Activity pairs | Demand strata |

| Number: | 18 |
|---------|------------------------|
| 1 | 01_D-P_WARSZAWA |
| 2 | 02_P-D_WARSZAWA |
| 3 | 03_D-N_WARSZAWA |
| 4 | 04_N-D_WARSZAWA |
| 5 | 05_D-U_WARSZAWA |
| 6 | 06_U-D_WARSZAWA |
| 7 | 07_D-I_WARSZAWA |
| 8 | 08_I-D_WARSZAWA |
| 9 | 09_D-WOH_WARSZAWA |
| 10 | 10_WOH-D_WARSZAWA |
| 11 | 11_D-pozaWOH_WARSZAWA |
| 12 | 12_pozapWOH-D_WARSZAWA |
| 13 | 13_P-P_WARSZAWA |
| 14 | 14_P-WOH_WARSZAWA |
| 15 | 15_P-pozapWOH_WARSZAWA |
| 16 | 16_P-I_WARSZAWA |
| 17 | 17_I-P_WARSZAWA |
| 18 | 18_Pozostale_WARSZAWA |



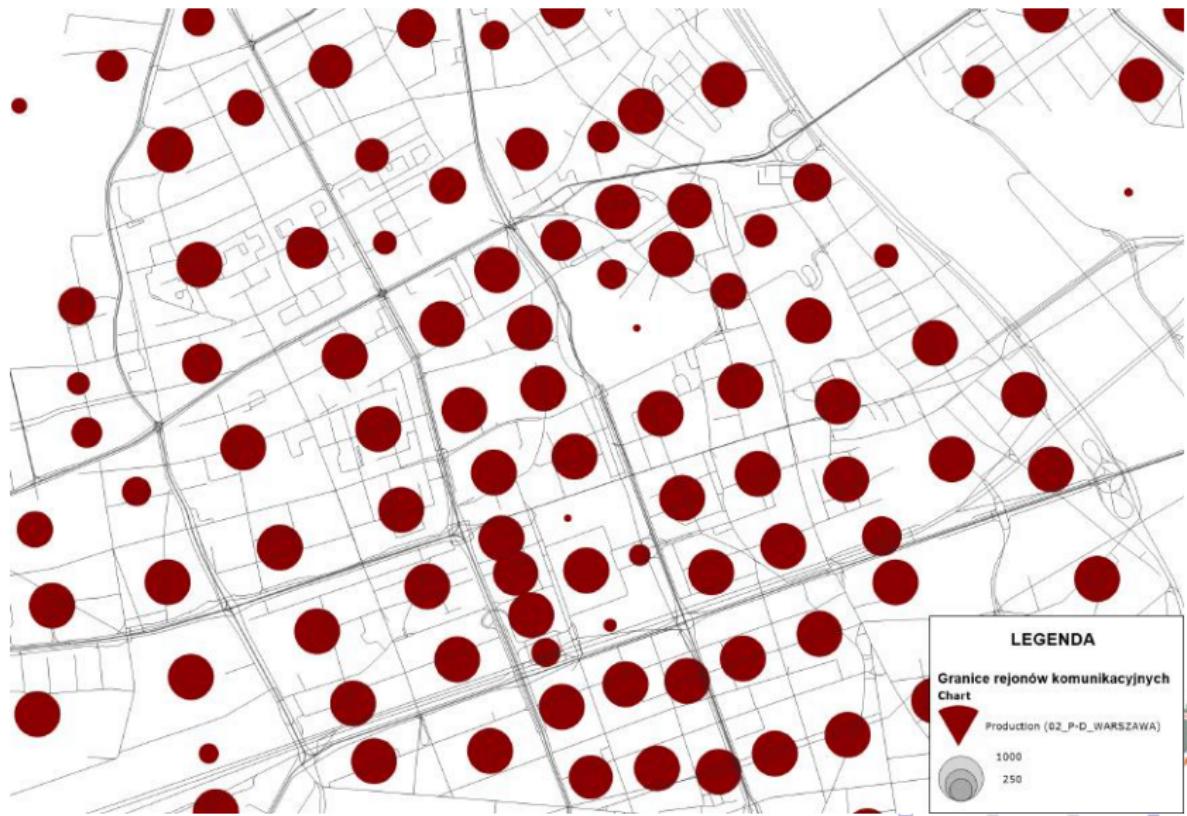
Produkcja

Dom-Szkoła



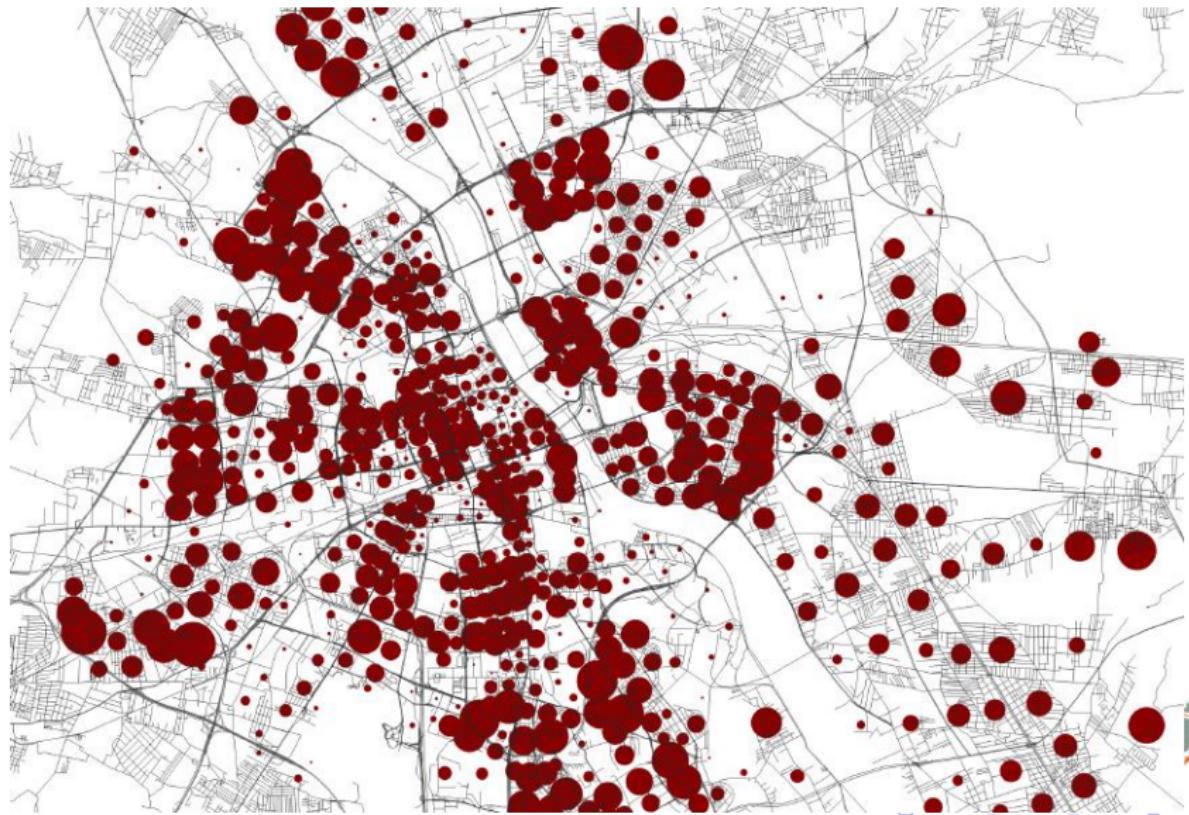
Produkcja

Praca-Dom



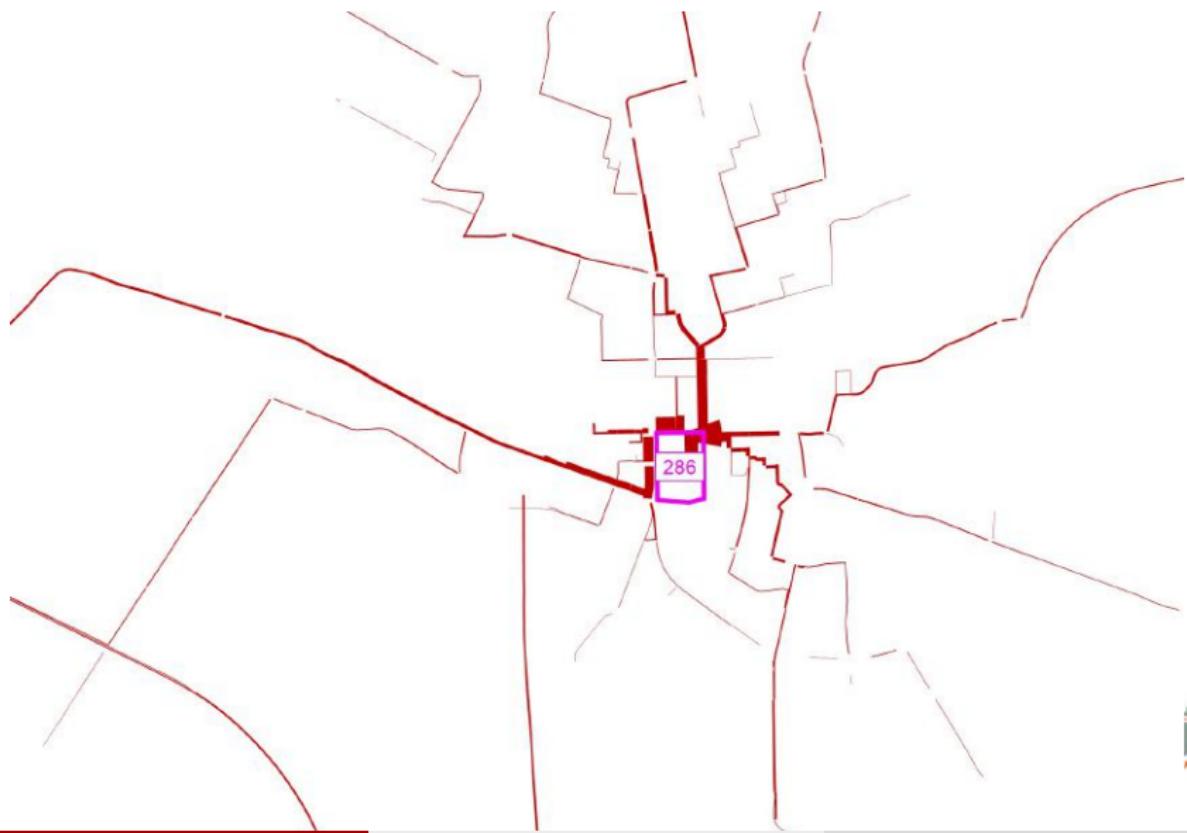
Produkcja

Praca-Dom



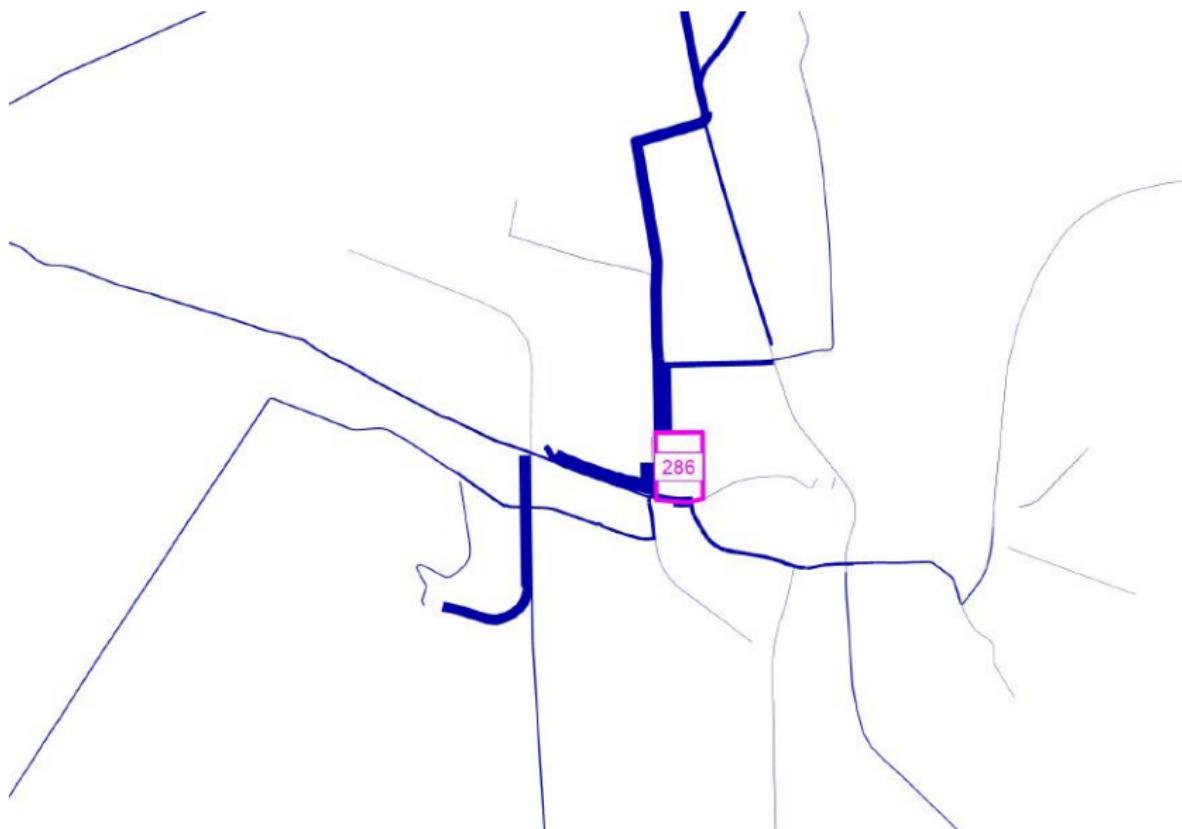
Produkcja

Potoki wyjazdowe - samochodowe



Produkcja

Potoki wyjazdowe - pasażerskie



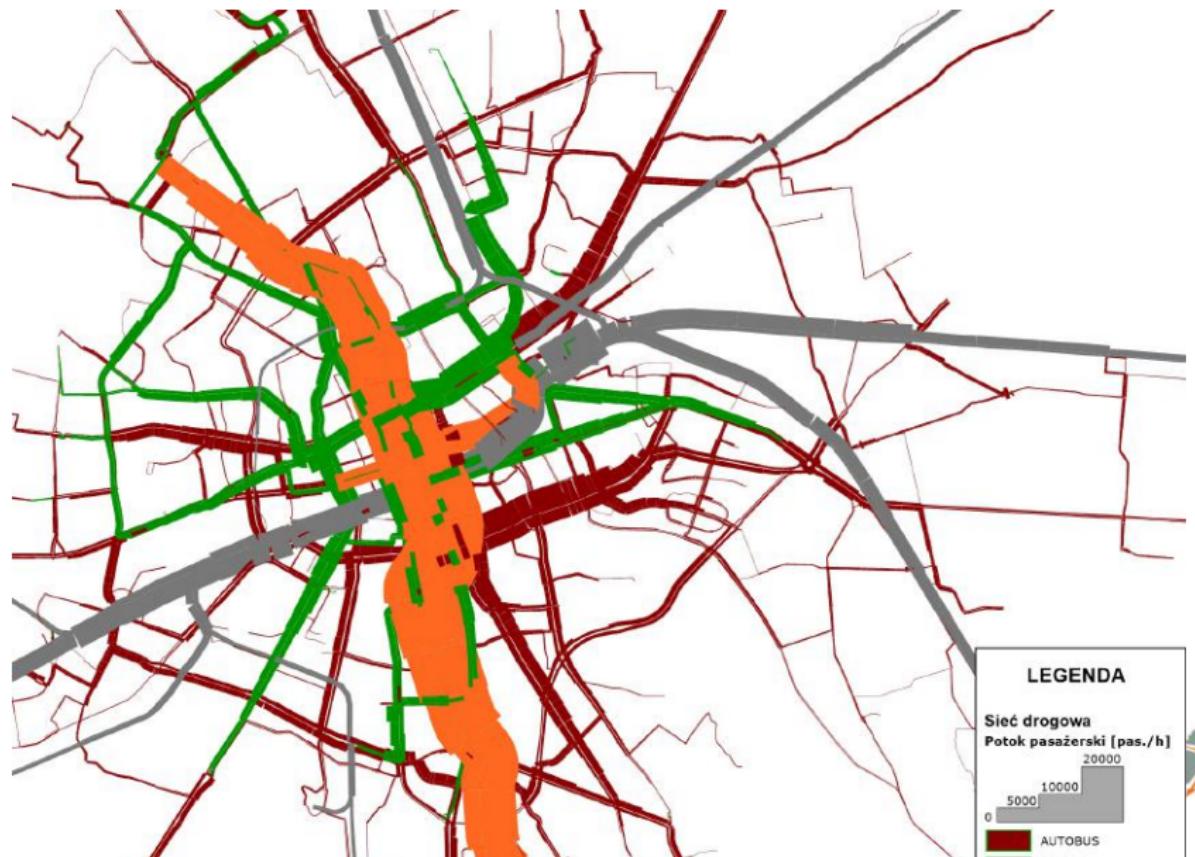
Potoki w sieci



Potoki pasażerów



Potoki pasażerów

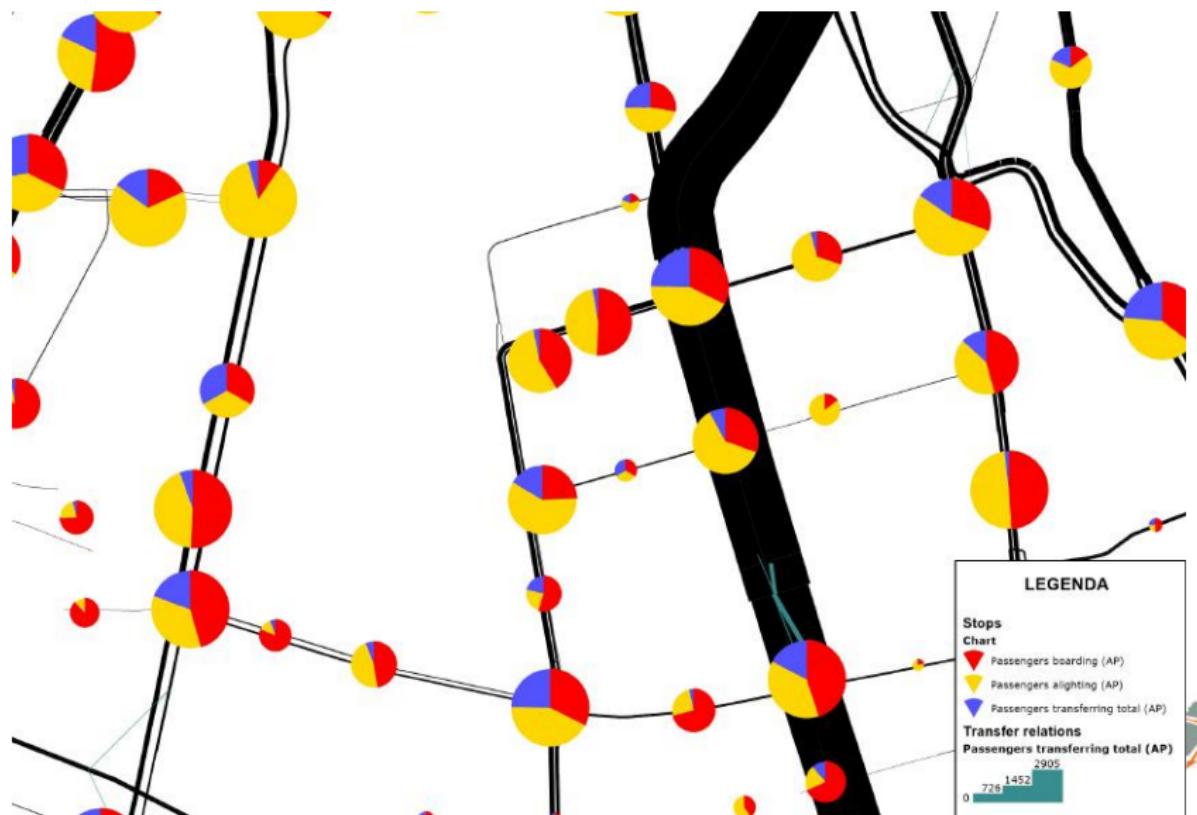


Potoki pasażerów



Potoki pasażerów

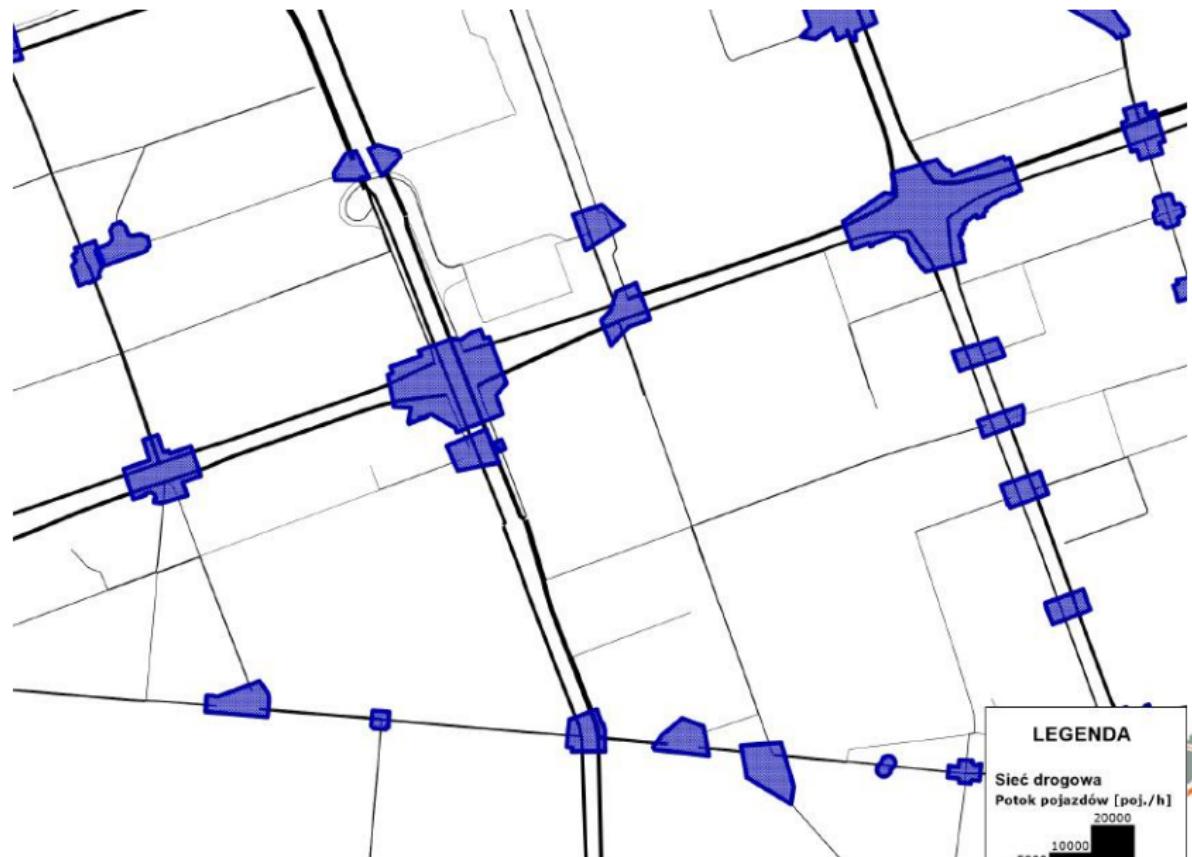
wsiadający, wysiadający, przesiadający się na przystankach



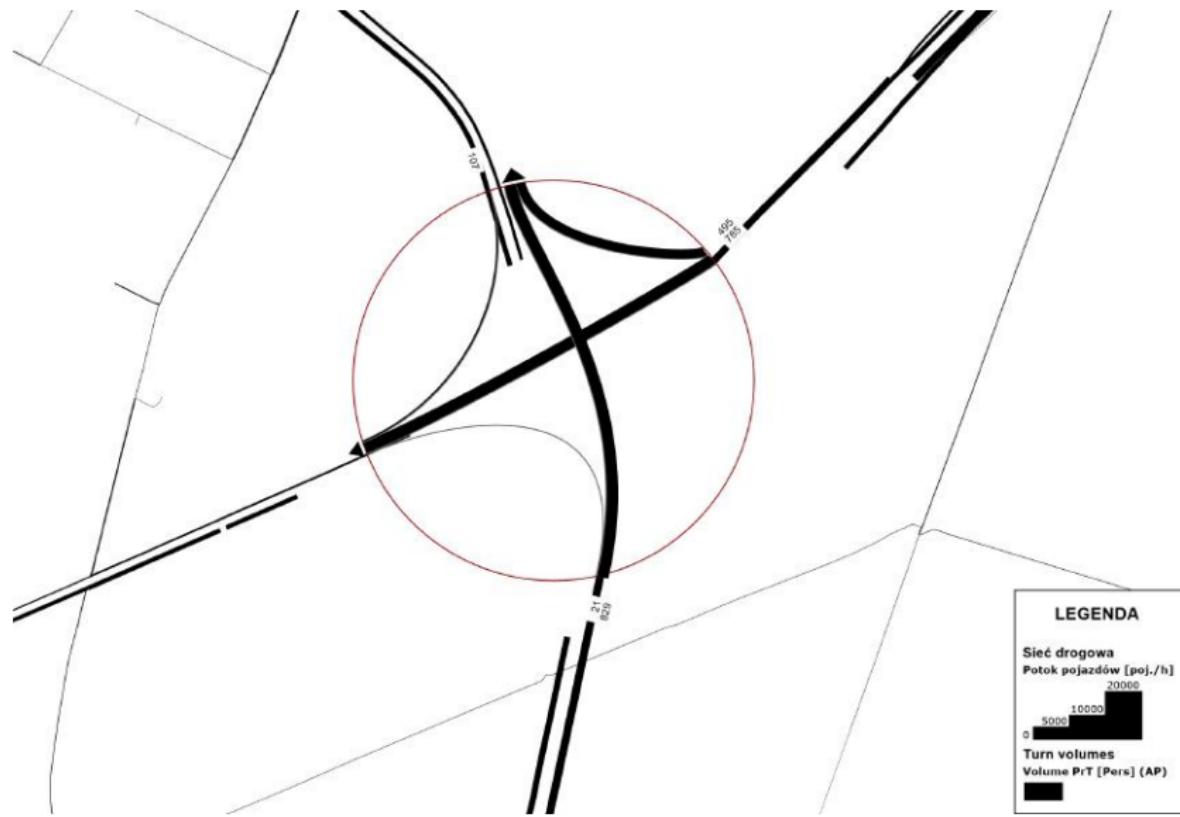
Potoki pojazdów



Potoki pojazdów



Relacje skrętne



Przepływ przez odcinek

Wisłostrada



Dziękuję za uwagę

dr inż. Rafał Kucharski
Politechnika Krakowska rkucharski *at* *pk.edu.pl*

