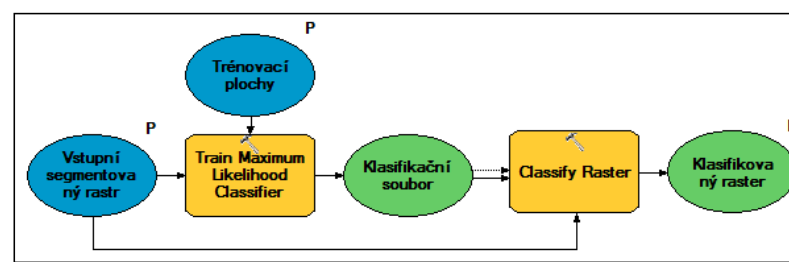


```

graph LR
    A([Vstupní ortofoto]) -- P --> C[Clip]
    B([Hranice zpracovávané obce]) -- P --> C
    C --> D([Raster ořezaný])
    D --> E[Segment Mean Shift]
    E -- P --> F([Výstupní segmentovaný rastr])
  
```



```

graph LR
    A[Vrstva potenciálnych FVE] --> B[Union]
    B --> C[Zacelené diery v polygonec]
    C --> D[Aggregate Polygons]
    E[Aggregate tabuľka] --> D
    D --> F[Sjednocené panely]
    F --> G[Select Area > 10]
    G --> H[Polygons]
  
```

The flowchart illustrates the data processing workflow for parcel area calculation, organized into three main horizontal tracks. The top track processes the 'Vstupní vrstva prvků FVE' (Input layer of FVE elements), the middle track processes the 'Vstupní vrstva agregovaný' (Input layer of aggregated parcels), and the bottom track performs the final calculations and attribute management. Arrows indicate the flow of data between steps, with some steps receiving input from multiple sources (indicated by 'P' for parallel inputs).

```

graph LR
    subgraph Top_Track [Top Track: FVE Elements Processing]
        T1([Vstupní vrstva prvků FVE]) -- P --> T2[4_1_vypočet_pole_pro_disso_lve]
        T2 --> T3([Vypočtené ID_FVE])
        T3 --> T4[Select Layer By Attribute]
        T4 --> T5([Clear selection])
        T5 --> T6[Dissolve FVE]
        T6 -- P --> T7([Finální vrstva prvků FVE])
    end

    subgraph Middle_Track [Middle Track: Aggregated Parcels Processing]
        M1([Vstupní vrstva agregovaný]) -- P --> M2[4_3_vypočet_pro_dissolve_p_arcel]
        M2 --> M3([Vypočtené ID_FVE])
        M3 --> M4[Select Layer By Attribute (2)]
        M4 --> M5([Clear selection])
        M5 --> M6[Dissolve parcel]
        M6 --> M7([Parcely agregované])
    end

    subgraph Bottom_Track [Bottom Track: Calculations and Attribute Management]
        B1([Add Field plocha panelu]) --> B2((Přidaný atribut plocha panelu))
        B2 --> B3[Add Field plocha parcel]
        B3 --> B4((Přidaný atribut plocha parcel))
        B4 --> B5[Add Field podíl panelu na ploše parcel]
        B5 --> B6((Přidaný atribut podíl ploch))
        B6 --> B7[Calculate Field plocha panelu]
        B7 --> B8((Vypočítaný atribut plocha panelu))
        B8 --> B9[Calculate Field plocha parcel]
        B9 --> B10((Vypočítaný atribut plocha parcel))
        B10 --> B11[Calculate Field podíl panelu na ploše parcel]
        B11 --> B12((Vypočítaný atribut podíl ploch))
        B12 --> B13[Delete Field]
        B13 --> B14((Smazane atributy))
    end

    T7 -.-> B1
    M7 -.-> B1
    M7 -.-> B6
  
```

Top Track: FVE Elements Processing

- Vstupní vrstva prvků FVE (Input layer of FVE elements) - Parallel input (P) to 4_1_vypočet_pole_pro_disso_lve.
- 4_1_vypočet_pole_pro_disso_lve (Calculation of area for dissolution).
- Vypočtené ID_FVE (Calculated FVE ID).
- Select Layer By Attribute.
- Clear selection.
- Dissolve FVE.
- Finální vrstva prvků FVE (Final layer of FVE elements) - Parallel input (P) from Dissolve FVE.

Middle Track: Aggregated Parcels Processing

- Vstupní vrstva agregovaný (Input layer of aggregated parcels) - Parallel input (P) to 4_3_vypočet_pro_dissolve_p_arcel.
- 4_3_vypočet_pro_dissolve_p_arcel (Calculation of area for dissolution of parcels).
- Vypočtené ID_FVE (Calculated FVE ID).
- Select Layer By Attribute (2).
- Clear selection.
- Dissolve parcel.
- Parcely agregované (Aggregated parcels).

Bottom Track: Calculations and Attribute Management

- Add Field plocha panelu (Add field area panel).
- Přidaný atribut plocha panelu (Added attribute area panel).
- Add Field plocha parcel (Add field area parcel).
- Přidaný atribut plocha parcel (Added attribute area parcel).
- Add Field podíl panelu na ploše parcel (Add field share of panel on parcel area).
- Přidaný atribut podíl ploch (Added attribute share of areas).
- Calculate Field plocha panelu (Calculate field area panel).
- Vypočítaný atribut plocha panelu (Calculated attribute area panel).
- Calculate Field plocha parcel (Calculate field area parcel).
- Vypočítaný atribut plocha parcel (Calculated attribute area parcel).
- Calculate Field podíl panelu na ploše parcel (Calculate field share of panel on parcel area).
- Vypočítaný atribut podíl ploch (Calculated attribute share of areas).
- Delete Field.
- Smazane atributy (Deleted attributes).

Data Flow Summary:

- The top track processes the initial FVE elements and calculates the area for dissolution.
- The middle track processes the aggregated parcels and calculates the area for dissolution.
- The bottom track adds the calculated area as a field attribute to the data from both tracks, calculates the share of the area on the total parcel area, and finally deletes the original fields.

