



# AI Vihangam Drishti

**An AI based Scalable Semantic Segmentation  
of Aerial Drone Imagery**

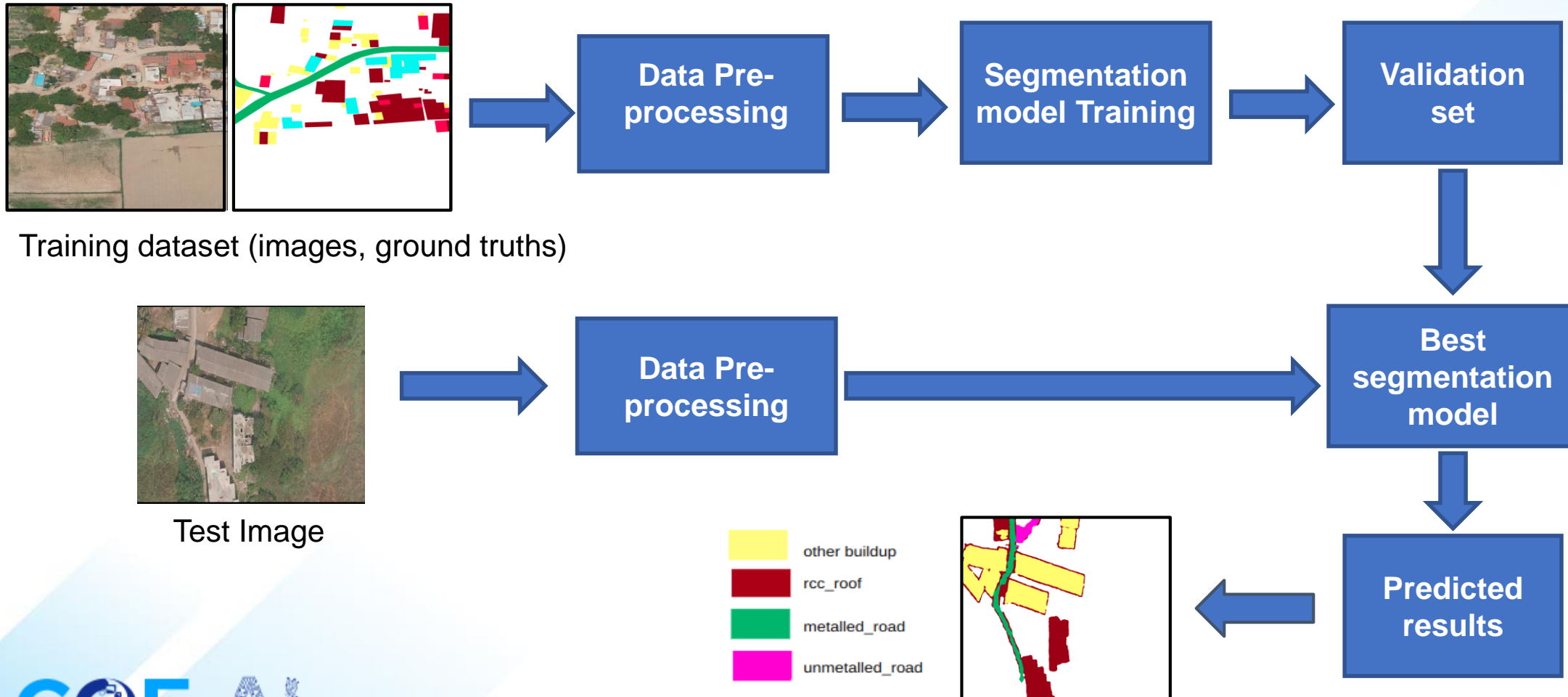


# AI-VihangamDrishti



- High-resolution drone imagery (ORI) of villages/ Abadi areas made available by Survey of India for Ministry of Panchayati Raj
- Collaboration between GIS Division & AI Division of NIC for facilitation on Svamitva portal

# Drone Image Semantic Segmentation

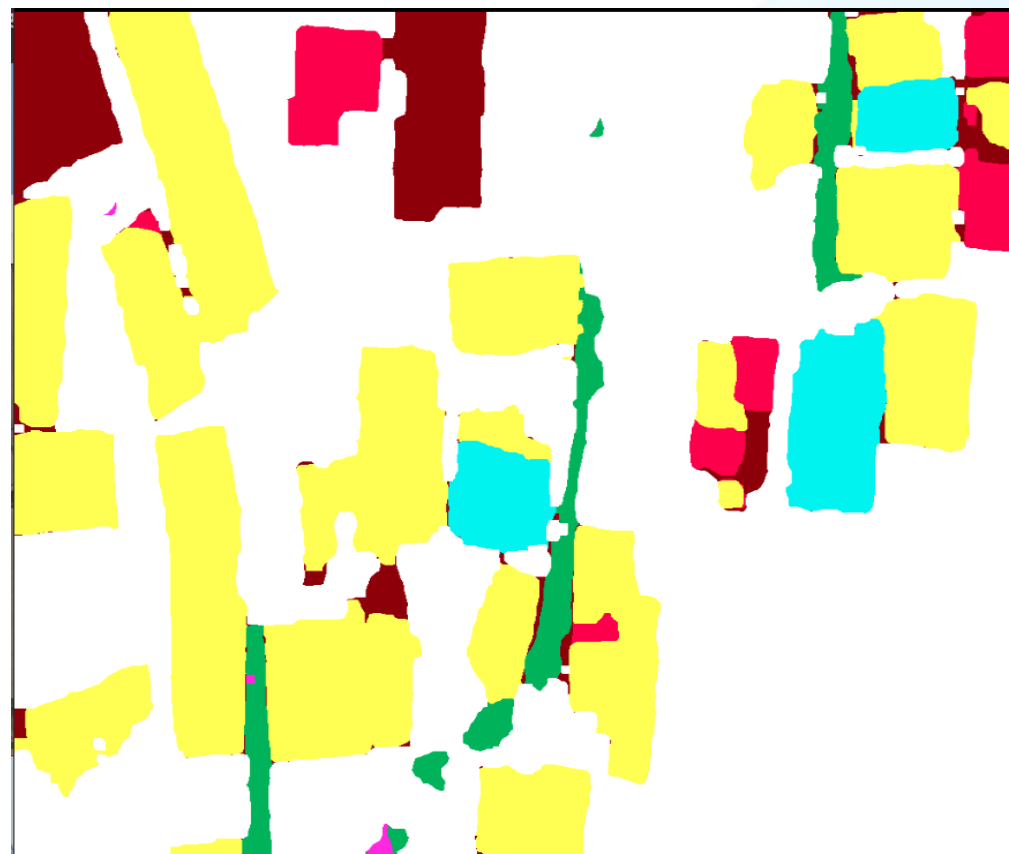




# Examples



Test Image



Predicted Result



सत्यमेव जयते



Test Image



Predicted Result





Test Image



Predicted Result



सत्यमेव जयते



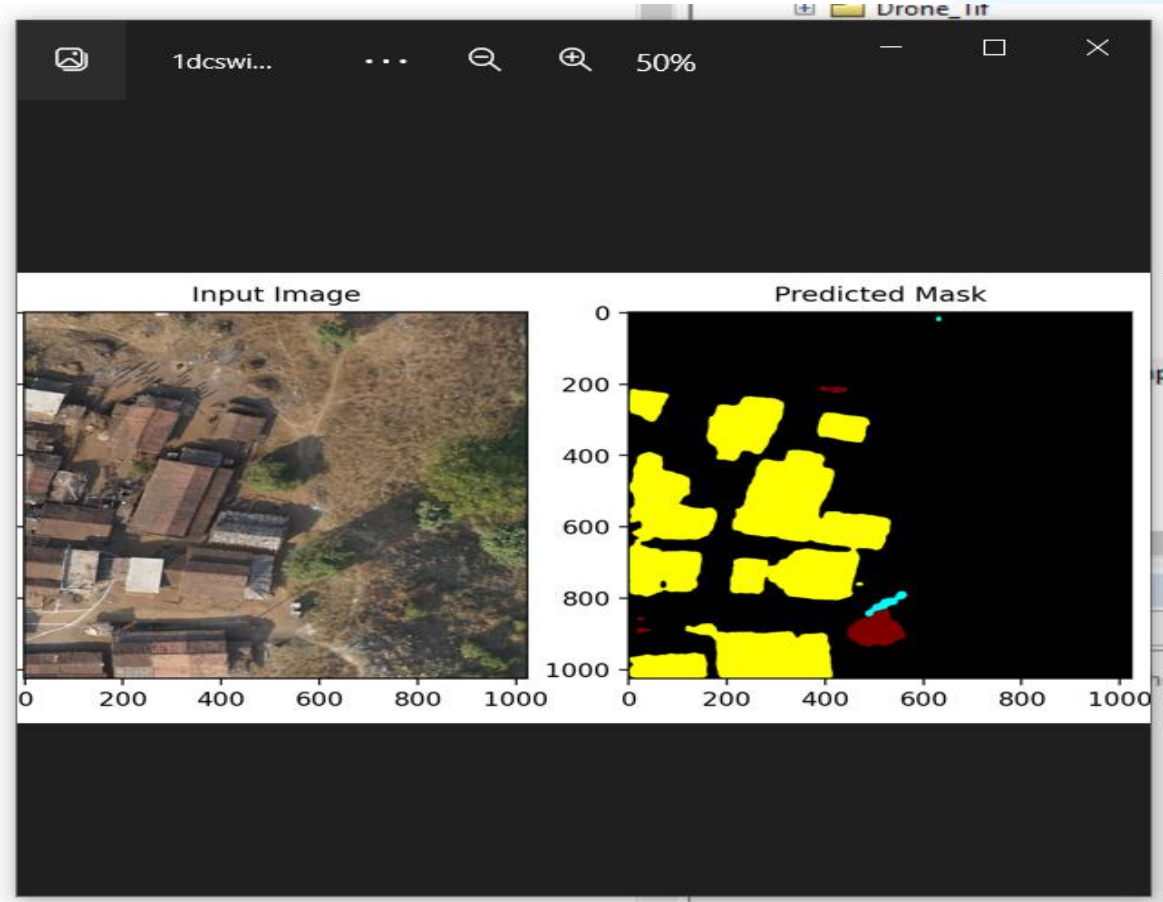
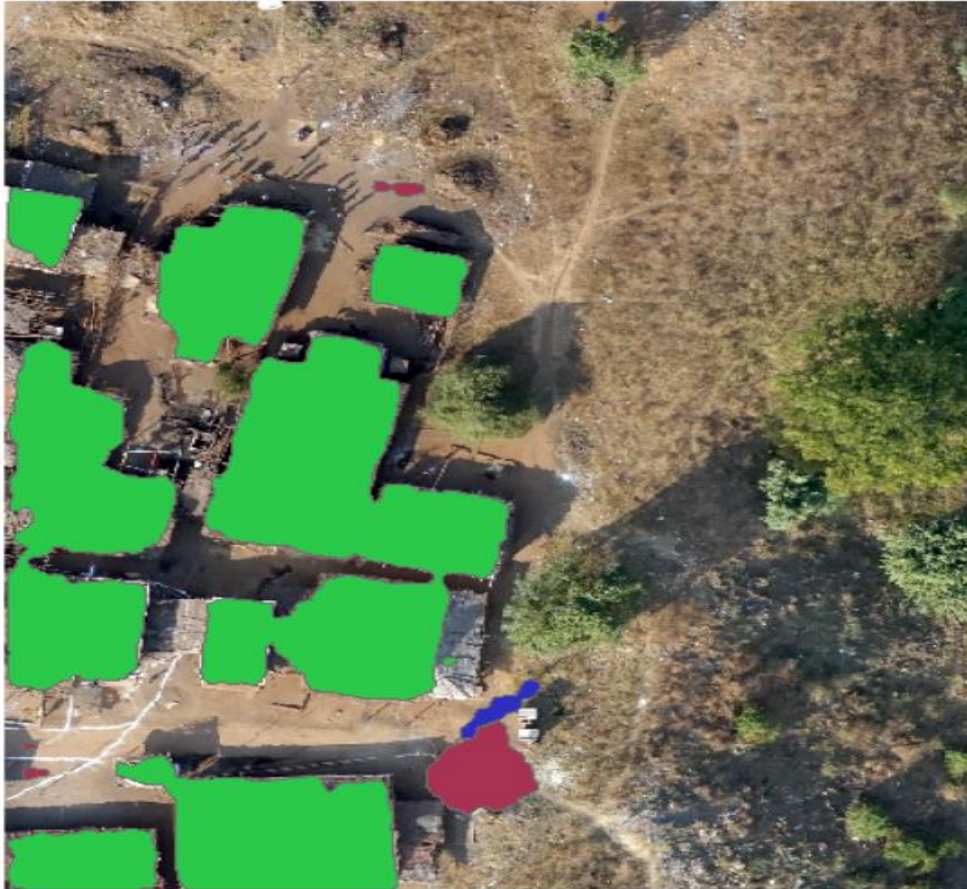
Test Image



Predicted Result



## Visualization of Predicted Result on ArcMap







# Use-Cases of Rooftop Detection

- Identifying suitable rooftops for solar panel installation.
- Urban-Rural development
- Land encroachments
- Production of digital maps
- Distribution of population:
  - a. To estimate the slum areas.*
  - b. Change detection in human settlements*



# Use-Cases of Road Detection

- Monitor and improve Road infrastructures in village areas.
- Surveying and mapping:
  - a. Creating accurate road maps for GIS applications.*
  - b. Find missing road map features*
  - c. Road map connectivity between rural and urban areas for sustainable regional development.*



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