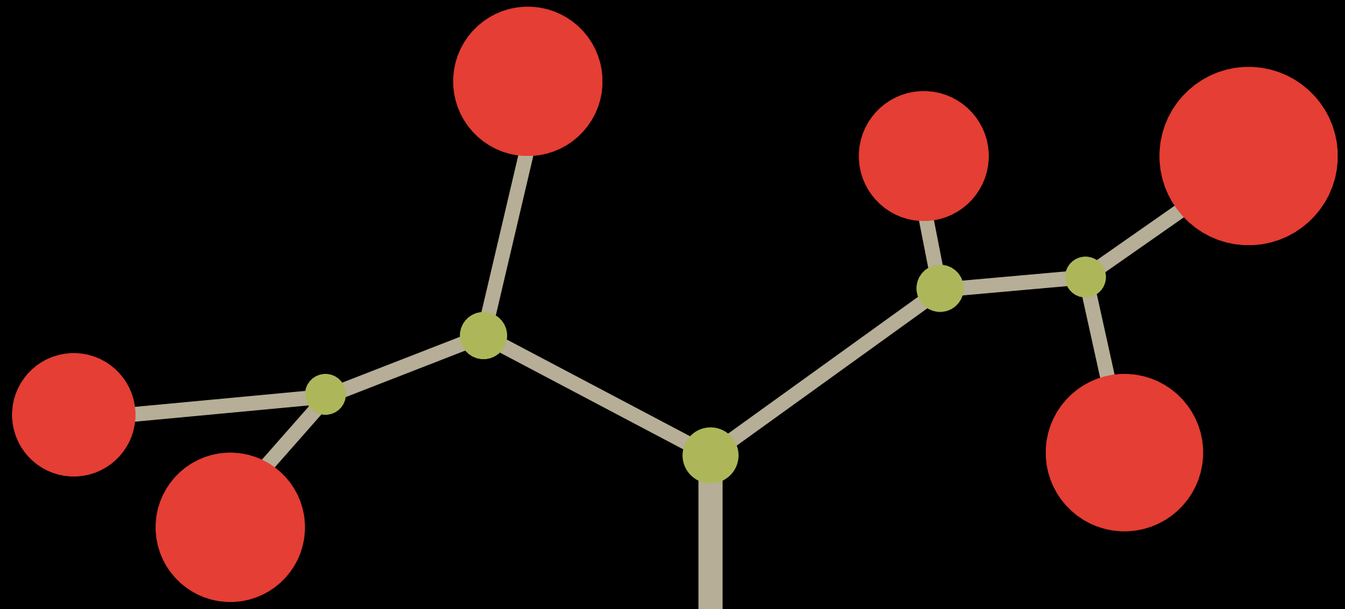


DELONYX

NAPOLI

Pinagbabawal na Teknik

Patintero

Langit Lupa

Tagu-Taguan


PUJ
G438DH
G796LR

CONNECTED

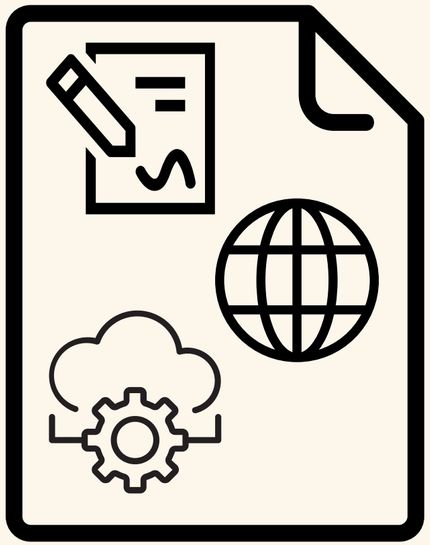
PROTECTED

EMPOWERED

Consultation with the Mandaue City Planning and Development Office for Development

LIKBAI 2


LIKBAI
Add annotation
November 15, 2024
Unnamed Street 6
Unnamed Street 5 side
Unnamed Street 5
Unnamed Street 4 side
Unnamed Street 4
Unnamed 3 side
Unnamed Street 3
Unnamed Street 2 side
Unnamed Street 2
Unnamed Street 1 side
test
Show more
Satellite
Search for a location
Annotator Guide
Keyboard shortcuts | Imagery ©2025 Airbus, CNES / Airbus, Maxar Technologies | Terms | Report a map error



Data

Socioeconomic

- Population
- Proximity to Amenities
- Zone

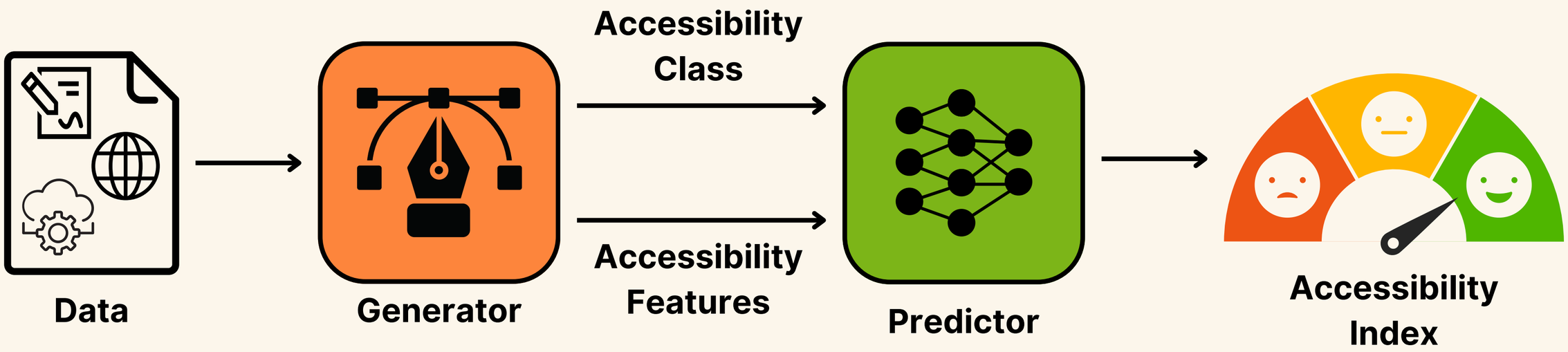
Infrastructural

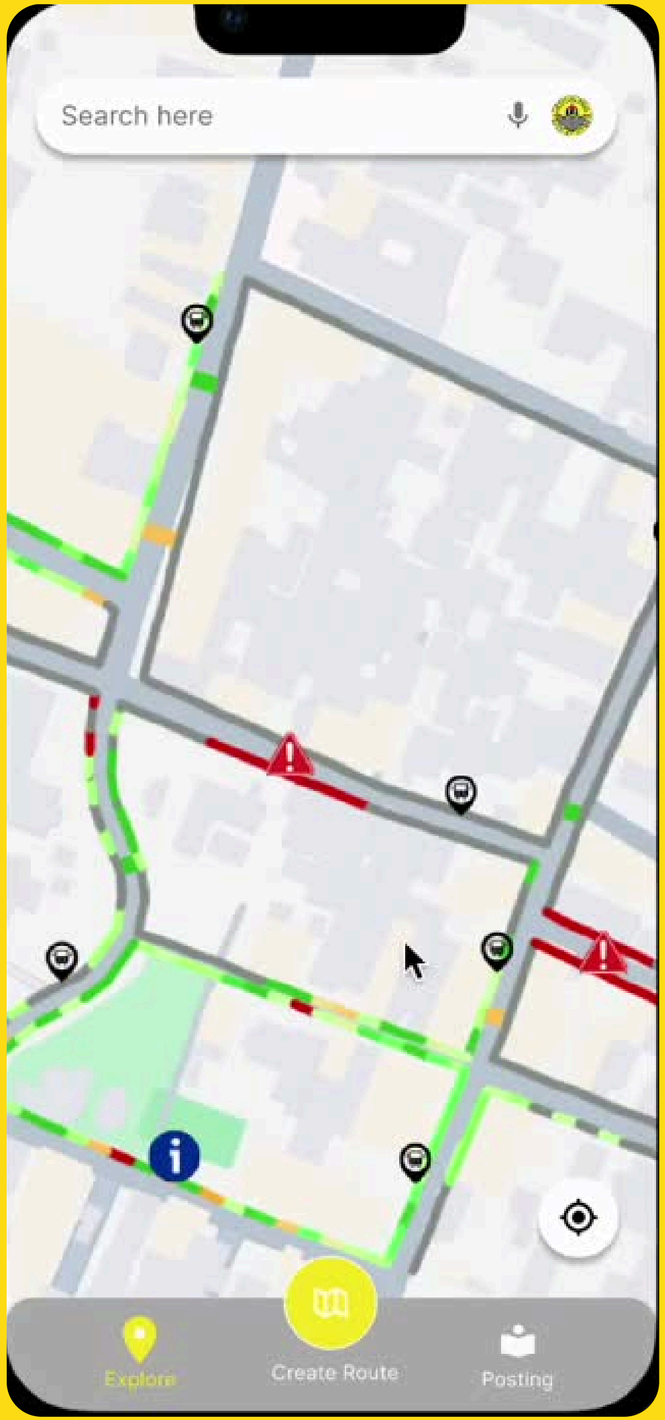
- Type of Road
- Street furniture
- Gradient
- Surface
- Border Buffer
- Lighting
- Sidewalk Width
- Headroom
- Curvature
- Directional Tactile Block
- Island Presence
- Pedestrial Stoplight
- Audible Traffic Signal
- Crossing time

Environmental

- Precipitation
- Heat Index
- Flood Risk
- Time

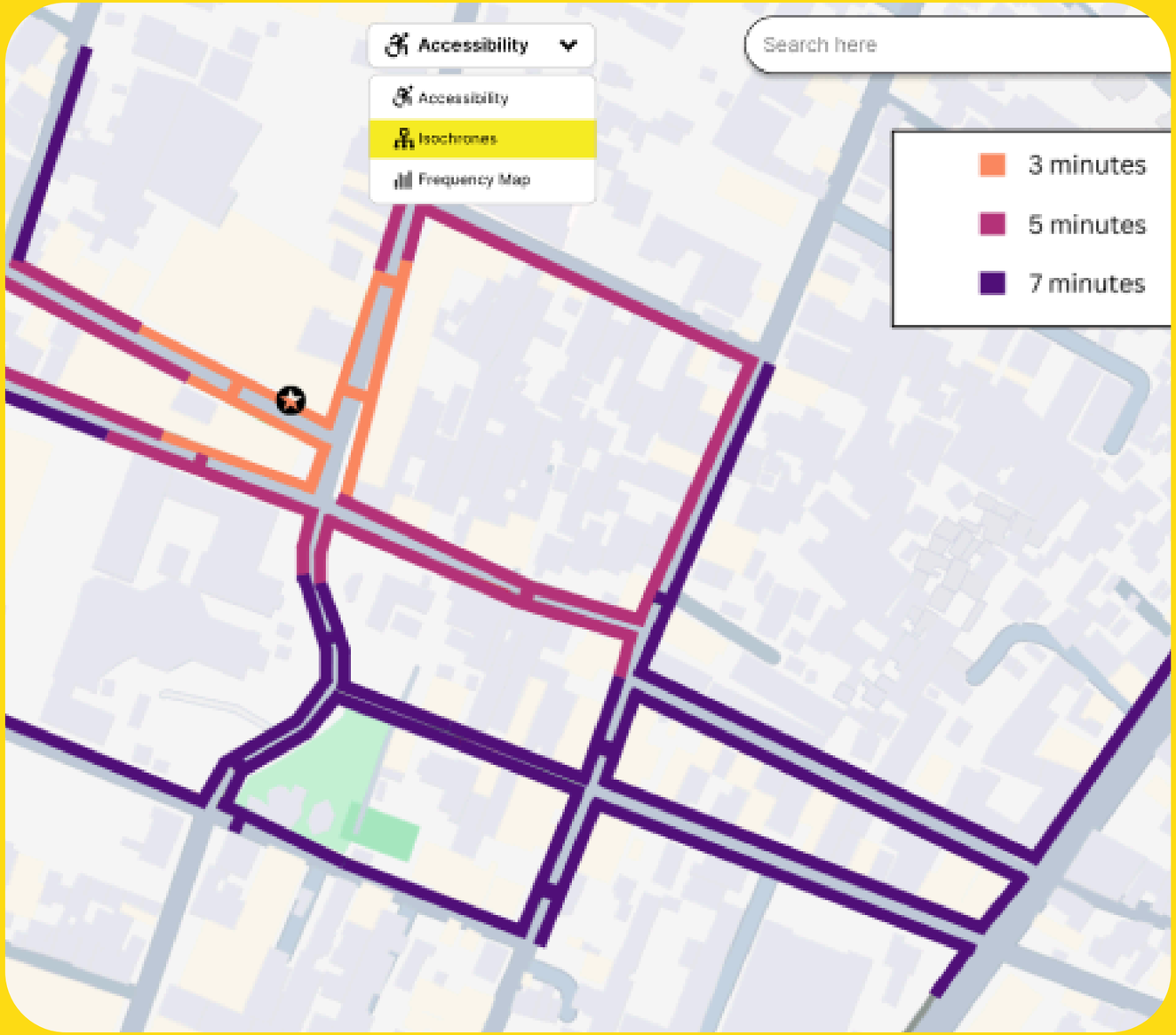
Model Overview





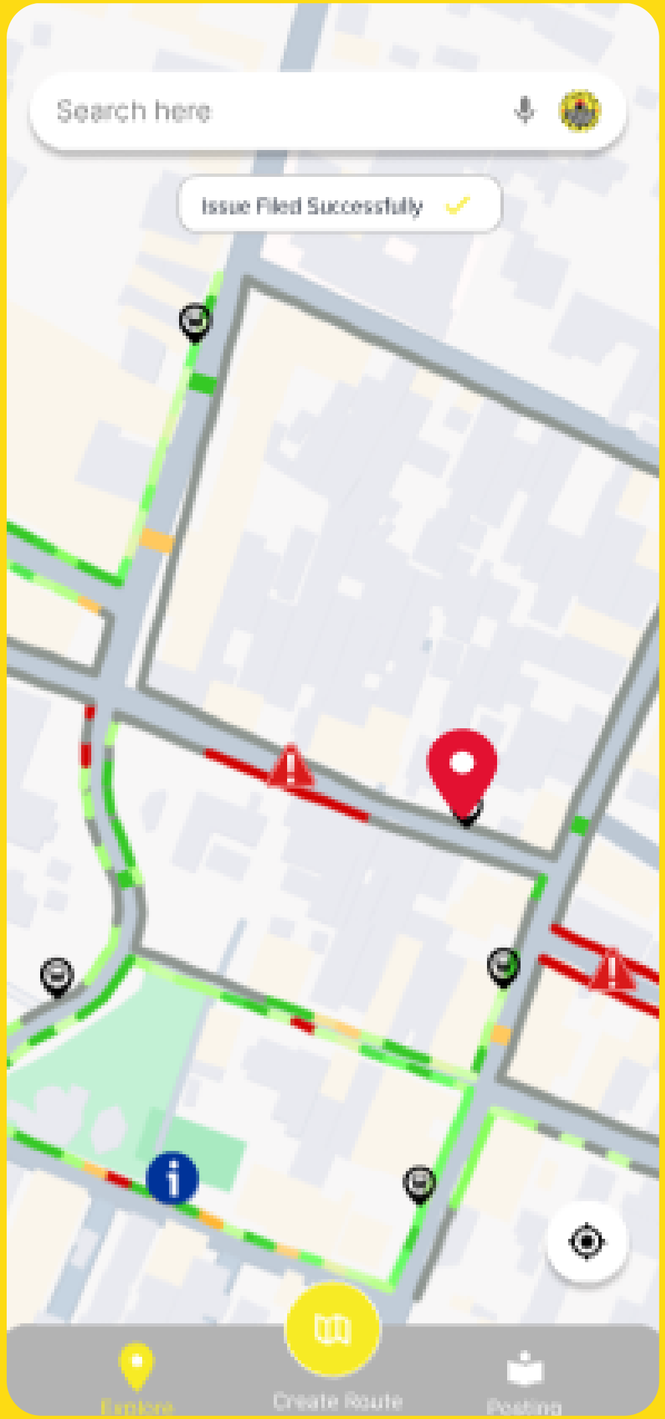
Routing Recommendations

- **Generate configurable routes** for the three pedestrian user groups based on our generated adaptive accessibility indices by second phase of deployment
  - Commuters
  - PWDs
  - Casual Walkers



Improved Maps

- **Integration of isochronic mapping** into the platform in this second phase of deployment.
- **Generate adaptive frequency maps** using tracked pedestrian routes to visually shows high volume foot traffic



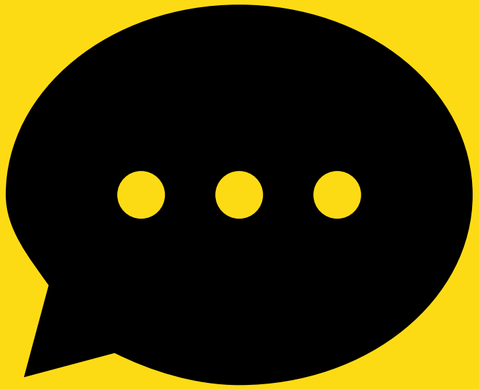
Community Features

- Develop a feedback interface with functionality for **incident reporting and ratings** within 2 sprints
- Launch an LGU dashboard with **real-time issue tracking and ticketing** capabilities within the first phase of deployment

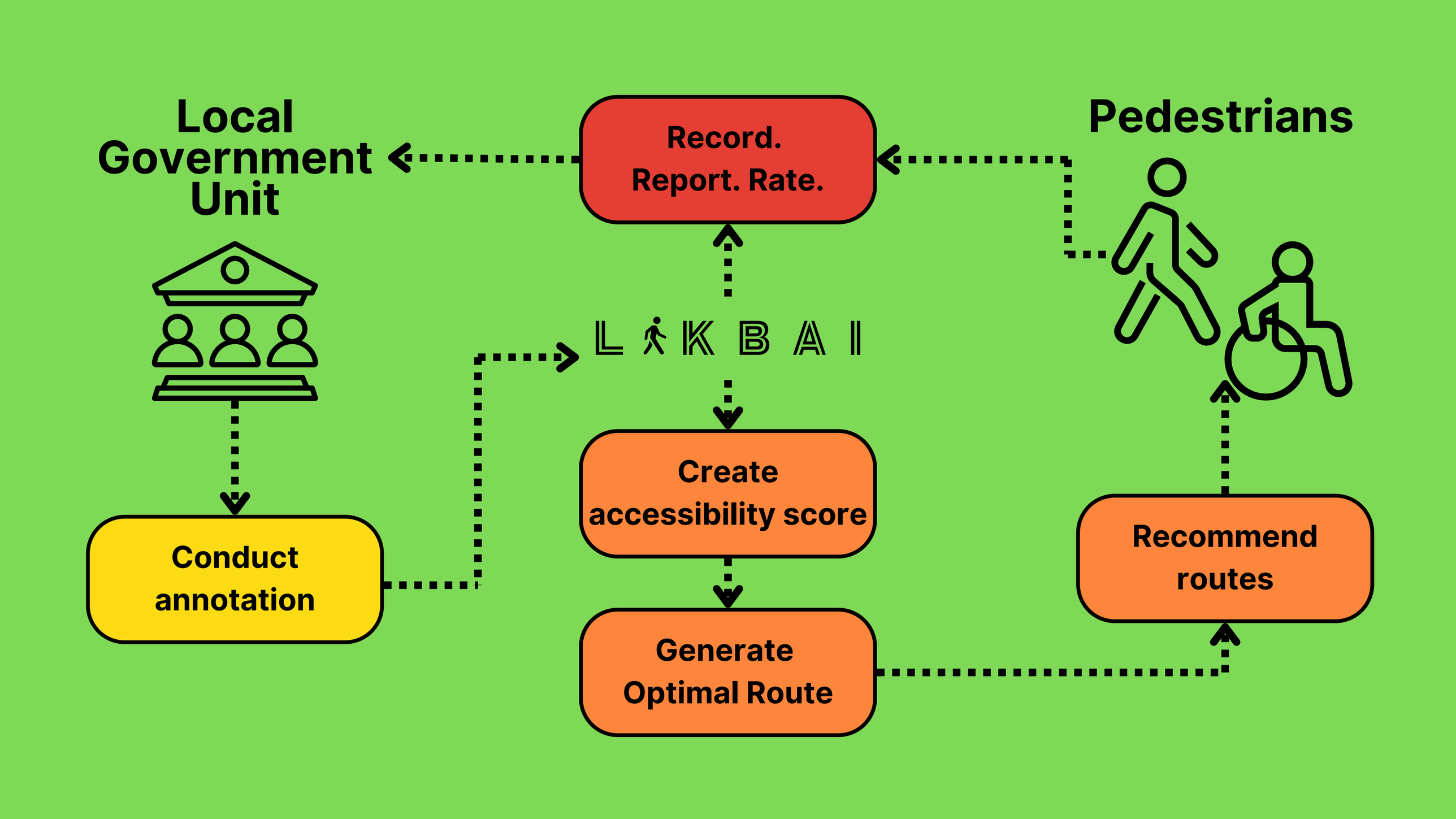
Innovation

Routing Recommendations

Improved Maps



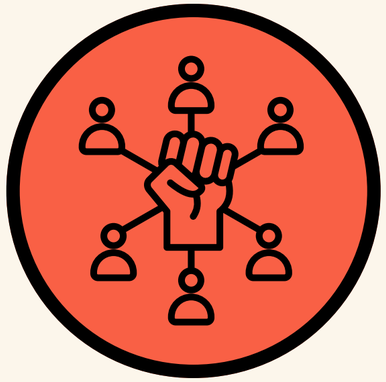
Community Features


Local Government Unit
Record.
Report. Rate.
Pedestrians
LIKBAI
Create accessibility score
Conduct annotation
Recommend routes
Generate Optimal Route

LIKBAI 2

CONNECTED

PROTECTED



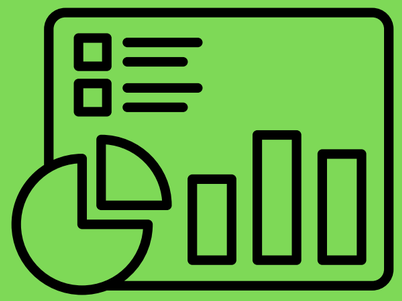
EMPOWERED

LIKBAI 2

lakbai.maxellmilay.com

Future Steps

Integration to Public Transport Routing



Better Filtering System for Dashboards

Automated Annotation

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PEQI _ An _ Assessment _ of _ the _ physical _condition_of_streets_and_intersections

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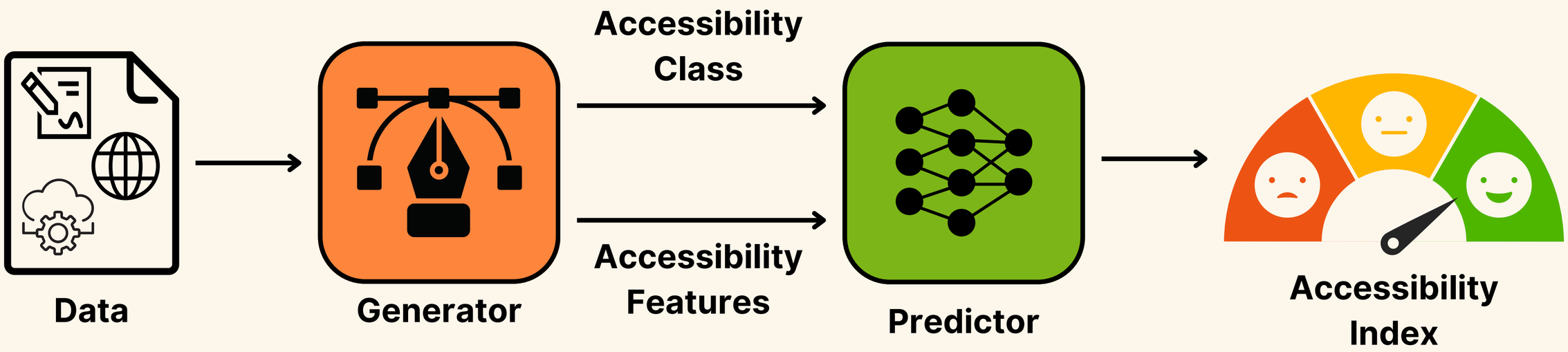
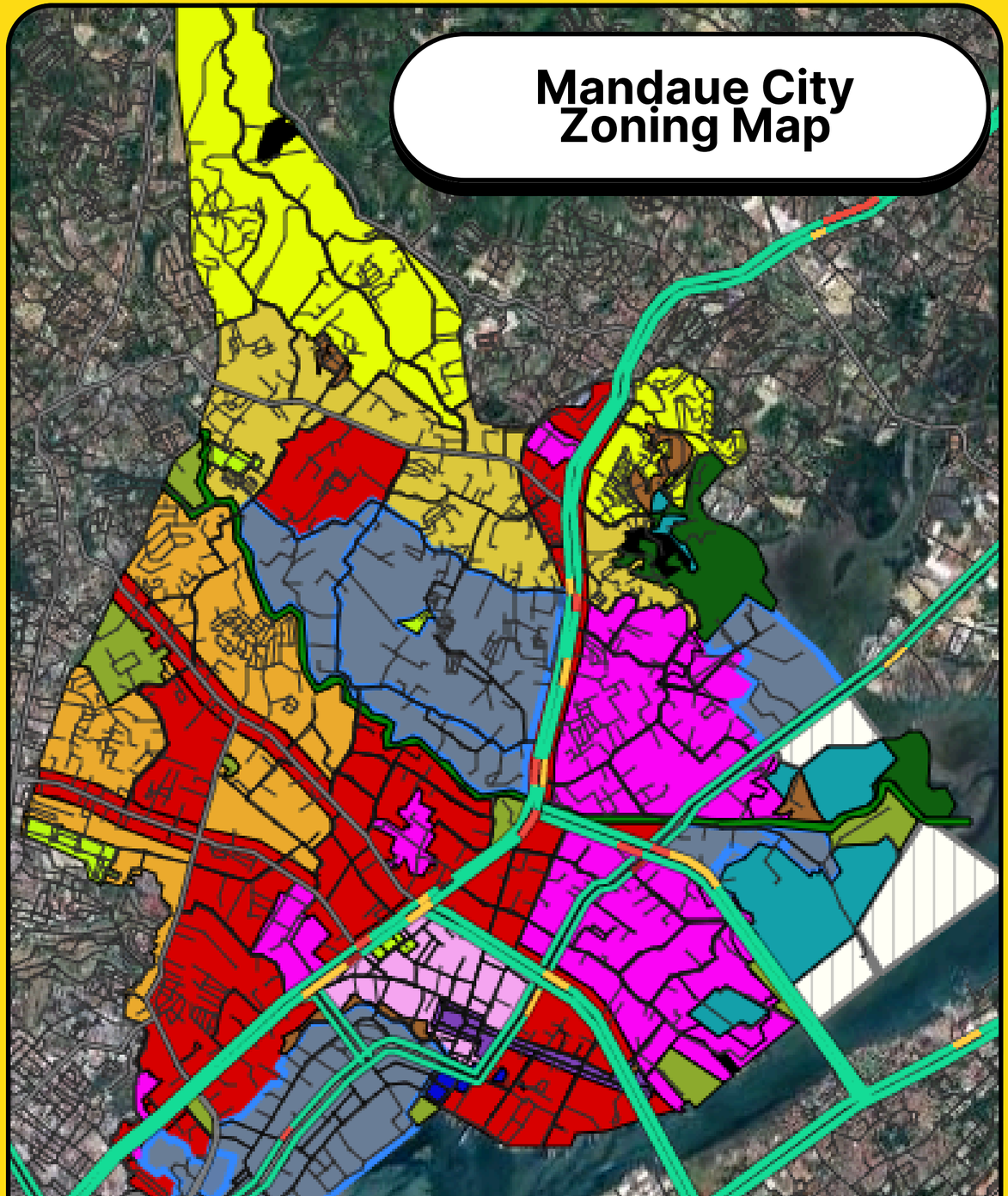
Model Overview



01

Truth isn’t binary,
it’s a spectrum.



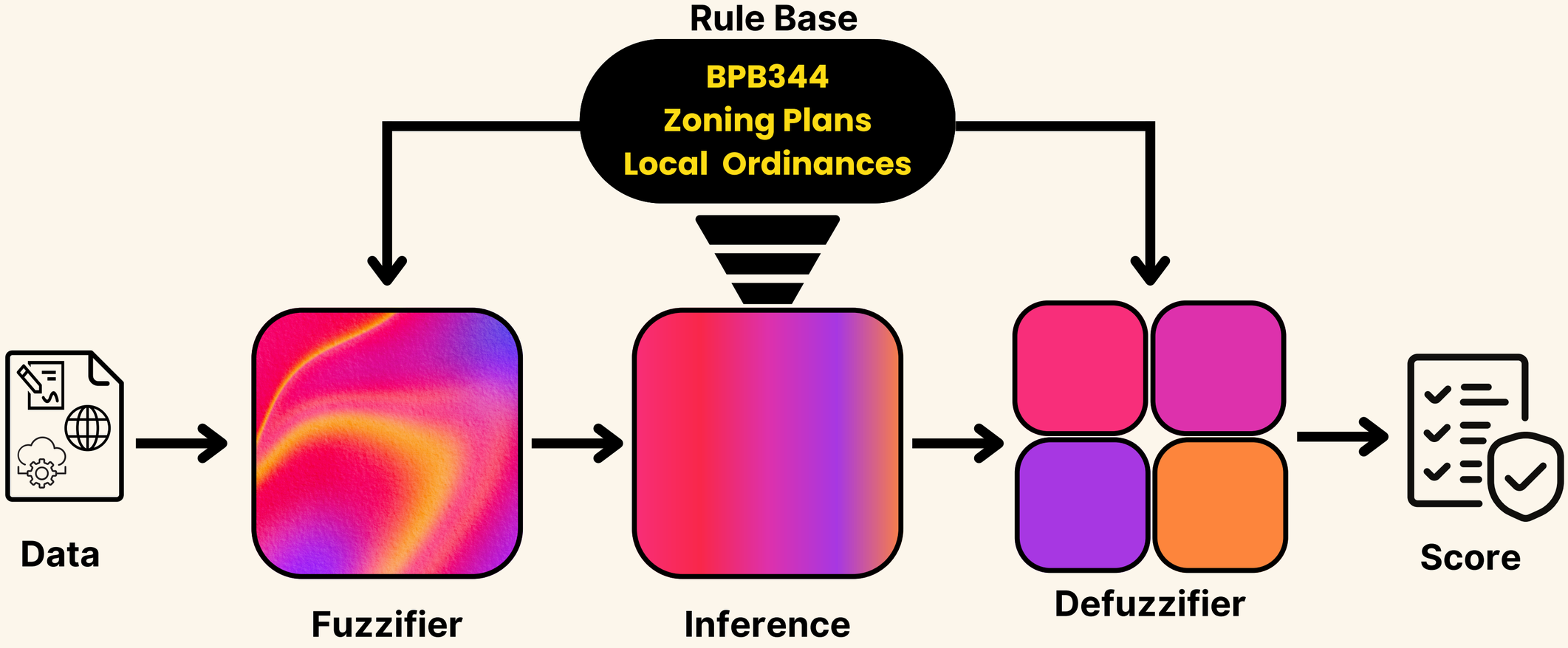
BATAS PAMBANSA BILANG 344

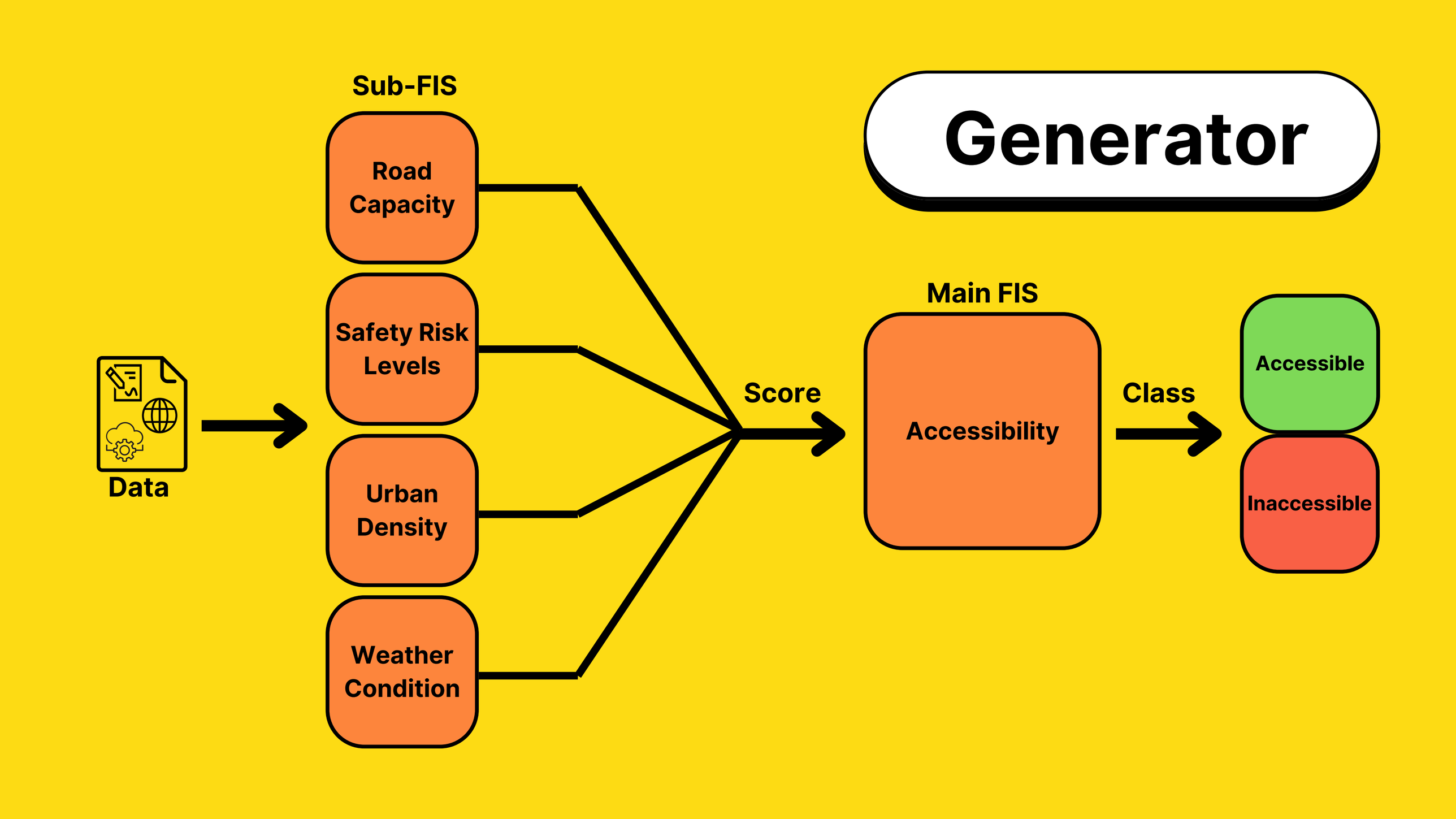
(Accessibility Law)
and its
Original and Amended
Implementing Rules and Regulations

An Act to Enhance the Mobility of Disabled Persons by Requiring Certain Buildings, Institutions, Establishments and Public Utilities to Install Facilities and Other Devices

NATIONAL COUNCIL ON DISABILITY AFFAIRS
Quezon City, Metro Manila, Philippines
2008

Fuzzy Inference System




Generator
Sub-FIS
Road Capacity
Safety Risk Levels
Urban Density
Weather Condition
Data
Score
Main FIS
Accessibility
Class
Accessible
Inaccessible

Predictor

Target

Accessibility Class

Features

Road Capacity

Safety Risk Levels

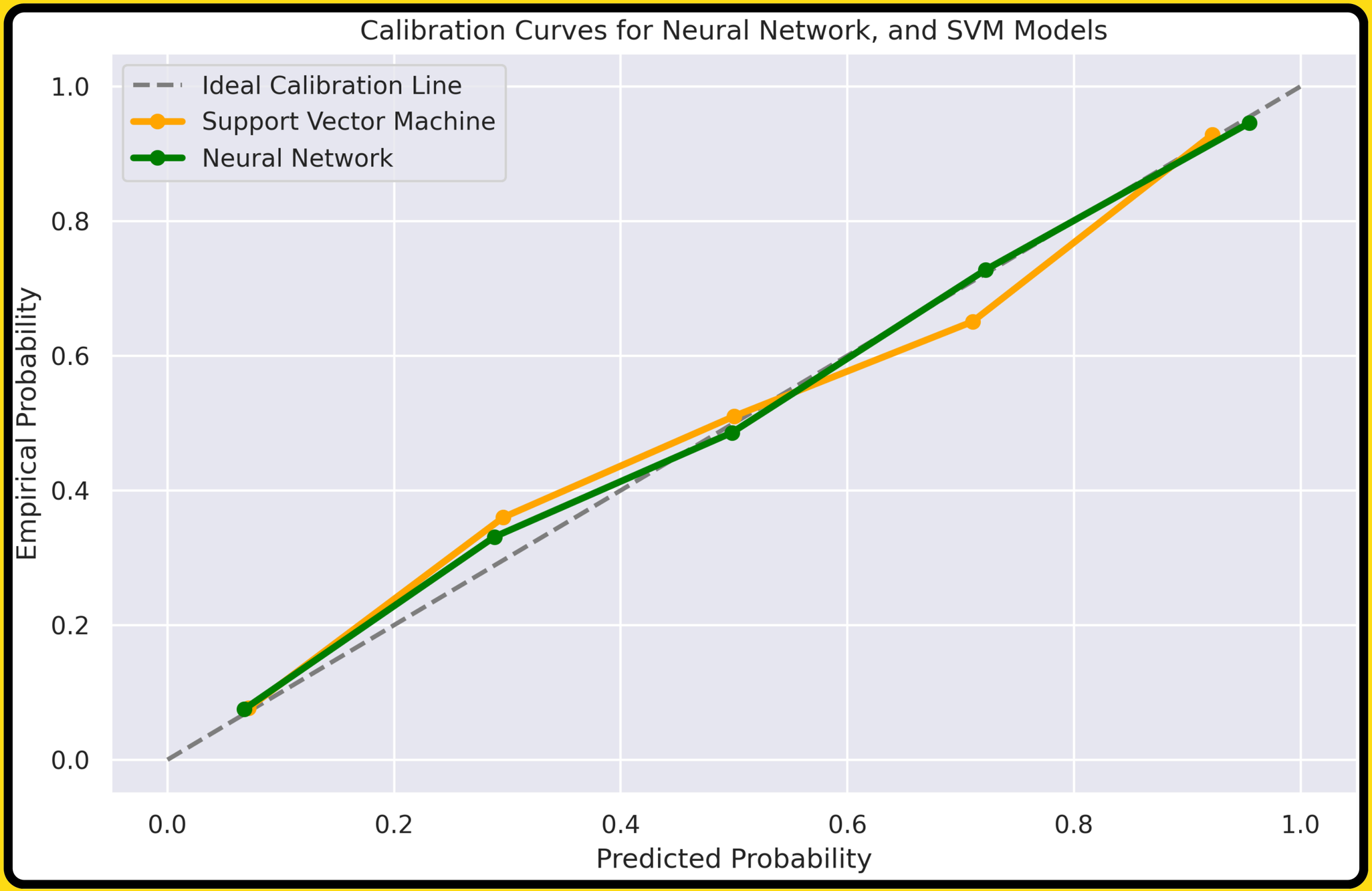
Urban Density

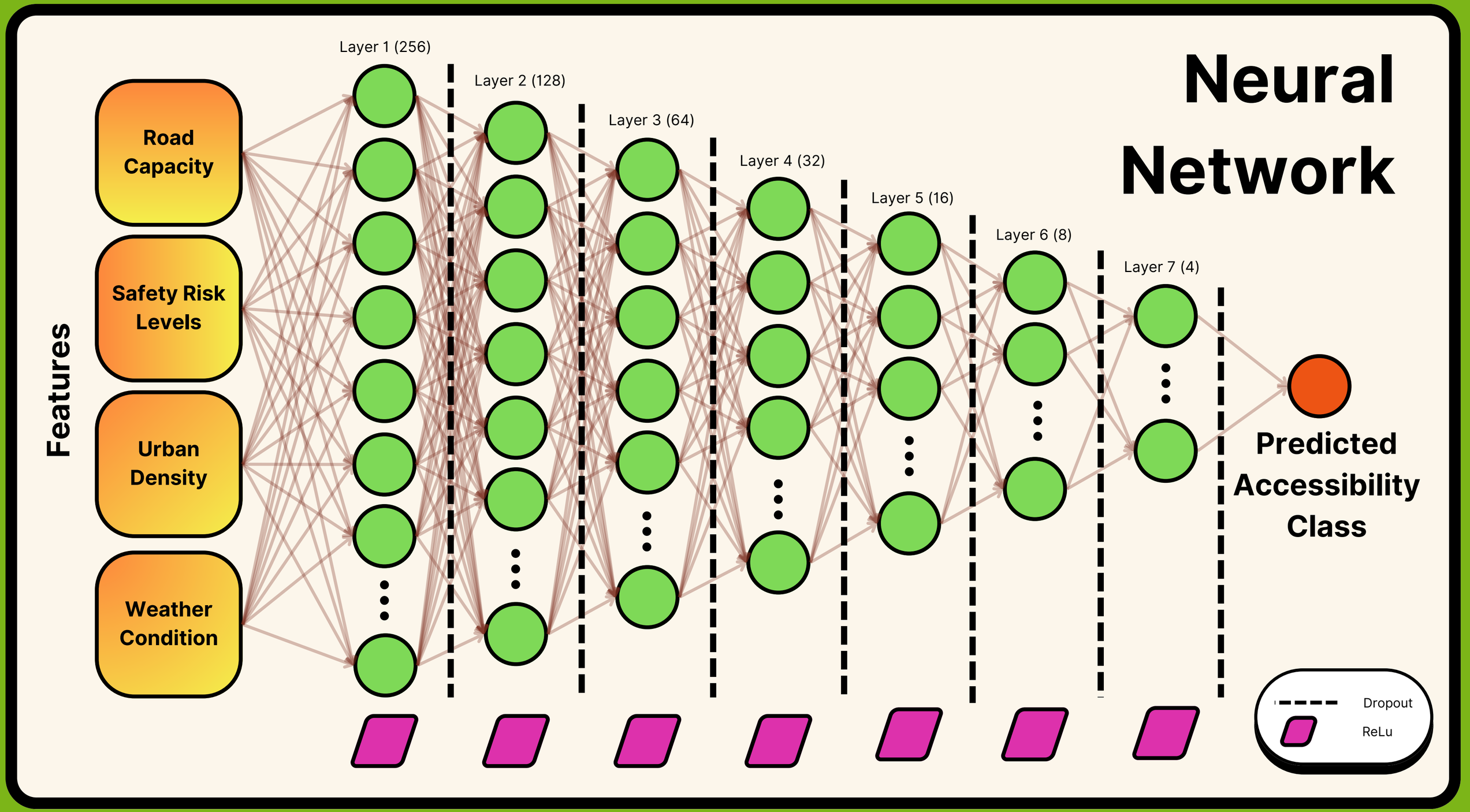
Weather Condition

Neural Network

Accessibility Index

	Logistic Regression	Naive Bayes	Support Vector Machine	Neural Network
Accuracy	83.5%	82.2%	87.7%	87.6%
Precision	84.7%	81.6%	88.2%	88.9%
Recall	89.5%	91.8%	92.4%	91.3%
F1-Score	87.1%	86.4%	90.3%	90.1%
Area Under the Curve	91.3%	90.3%	93.8%	94.4%


Calibration Curves for Neural Network, and SVM Models
Ideal Calibration Line
Support Vector Machine
Neural Network
Empirical Probability
Predicted Probability
0.0
0.2
0.4
0.6
0.8
1.0


Neural Network
Features
Road Capacity
Safety Risk Levels
Urban Density
Weather Condition
Layer 1 (256)
Layer 2 (128)
Layer 3 (64)
Layer 4 (32)
Layer 5 (16)
Layer 6 (8)
Layer 7 (4)
Predicted Accessibility Class
Dropout
ReLu