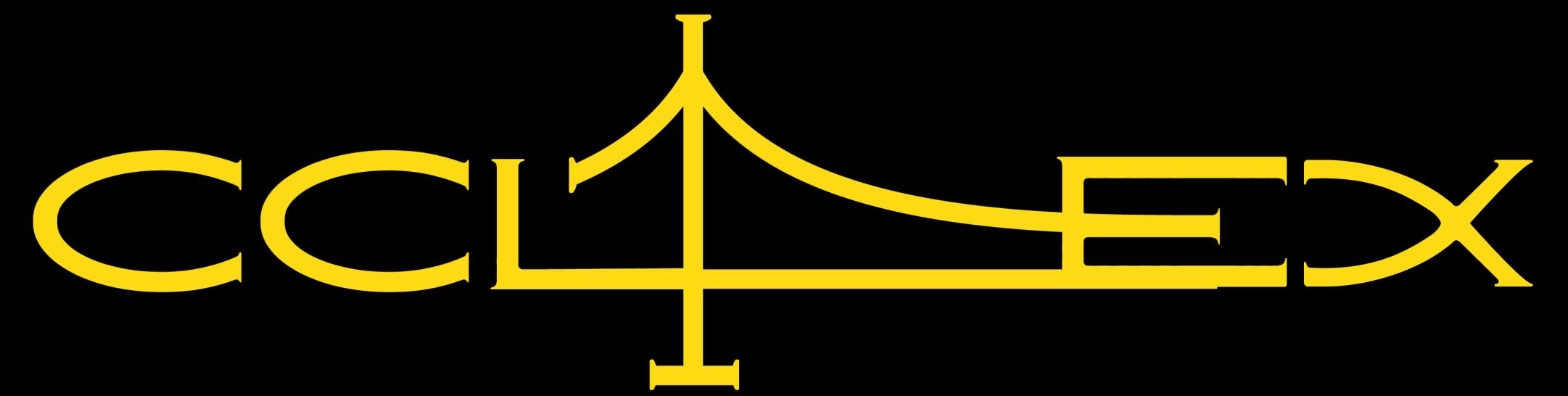
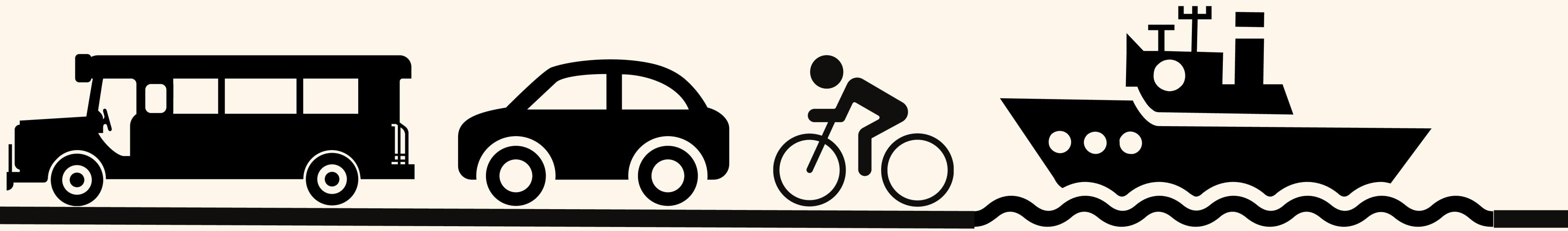




CCL<sup>E</sup>X

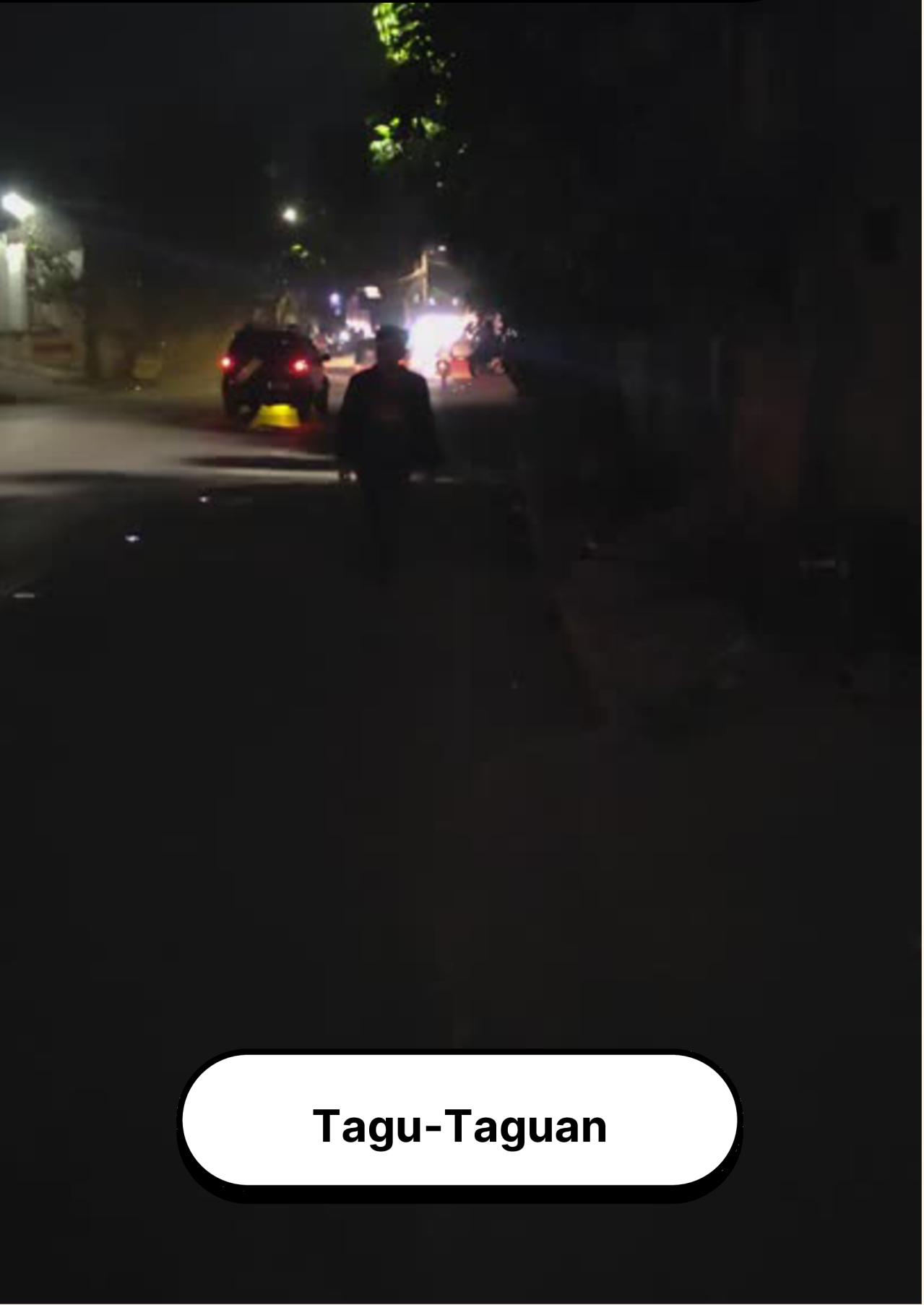
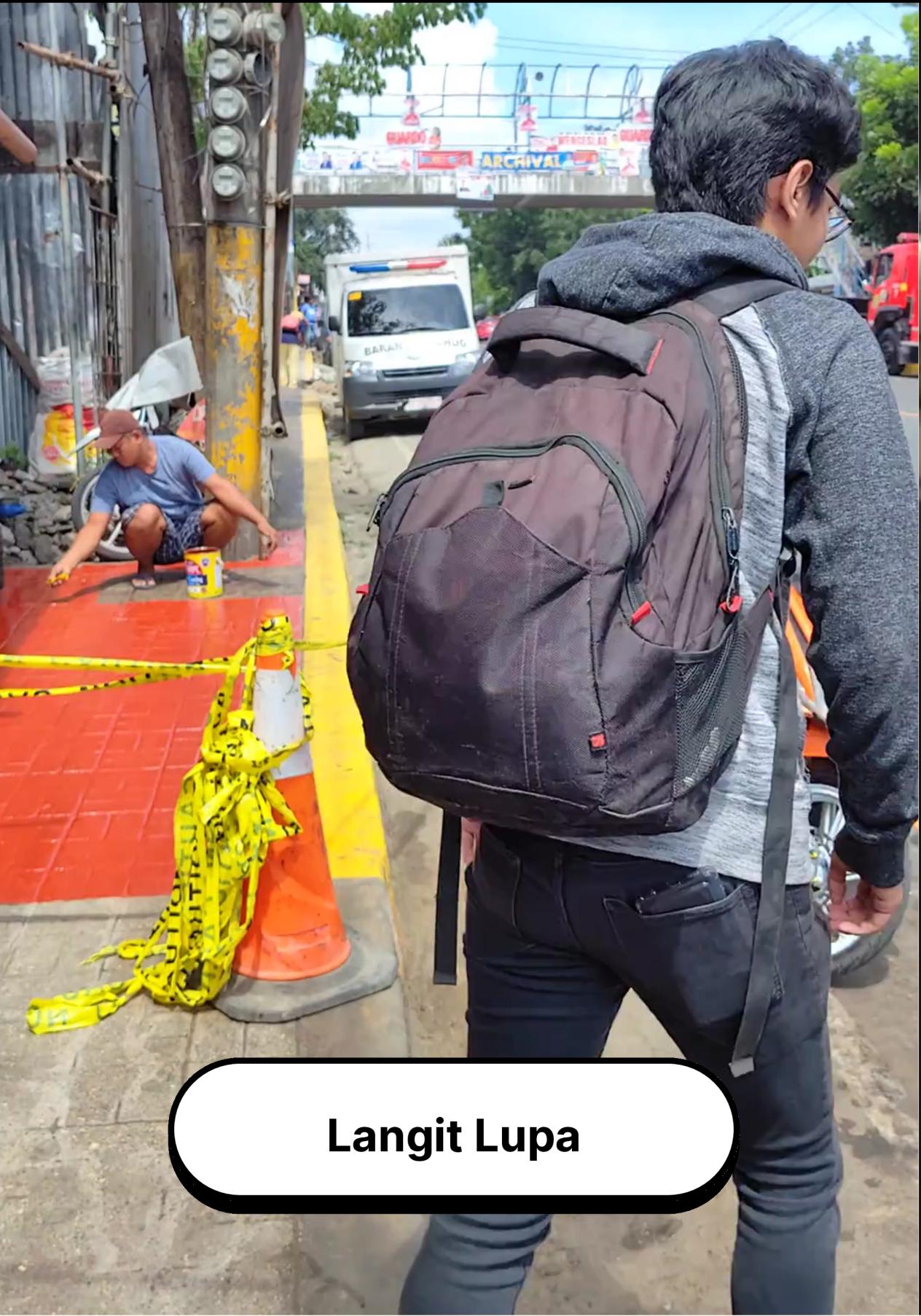
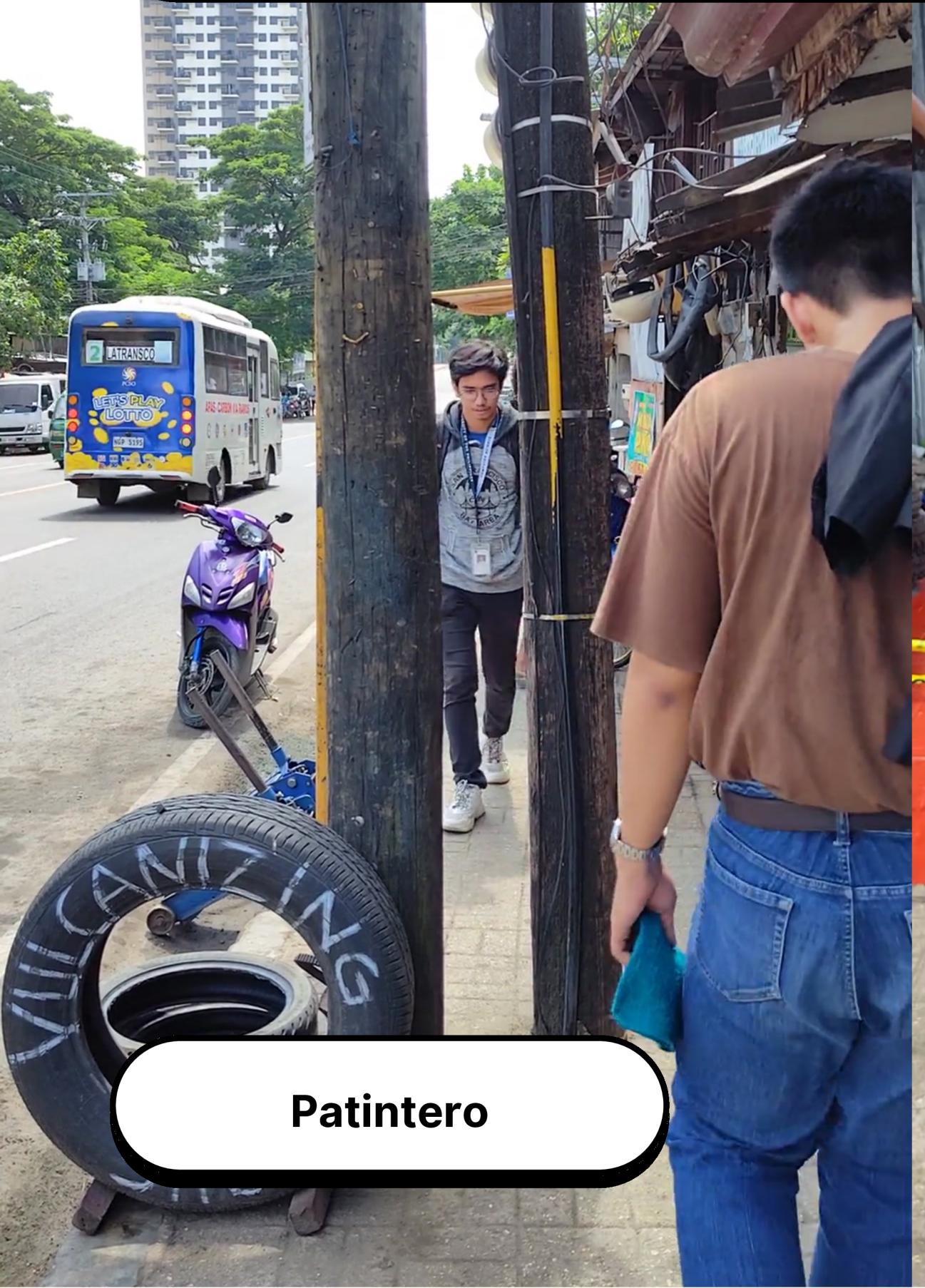
A yellow graphic design featuring the letters 'C', 'L', and 'E' from the text 'CCL^EX'. The letter 'C' is a standard vertical shape. The letter 'L' is stylized as a suspension bridge with two towers and cables. The letter 'E' is also stylized, with its top horizontal bar being a curved line that dips down to meet the bridge's cables. The entire graphic is set against a black background.







## Pinagbabawal na Teknik





**25 min & 30 sec  
per 10 km**

An average person's travel time in  
Metro Manila



₱4.9 B

lost from traffic congestion due to  
car-centered policies



# 35.42 M

tons of CO<sub>2</sub> emissions from the  
transportation sector alone



**20%**

amount of income is spent on  
commuting by low-income households

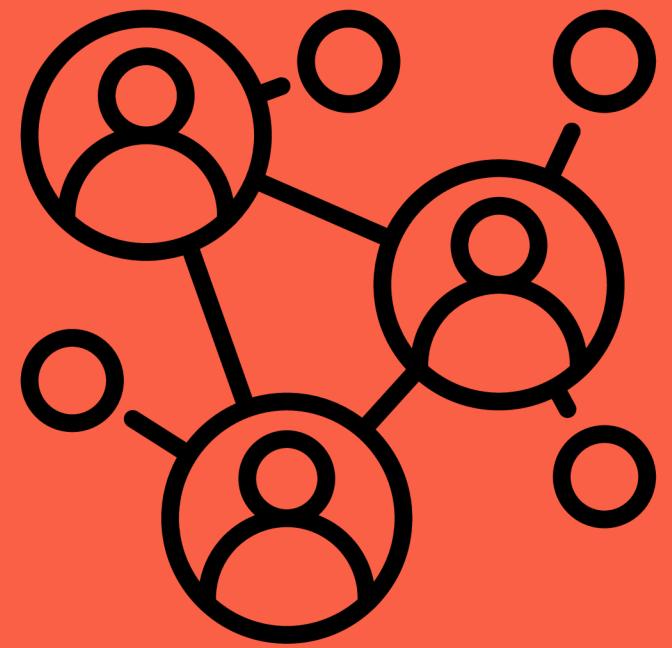
L



IK

B





**Rigid and  
Resource  
Intensive**



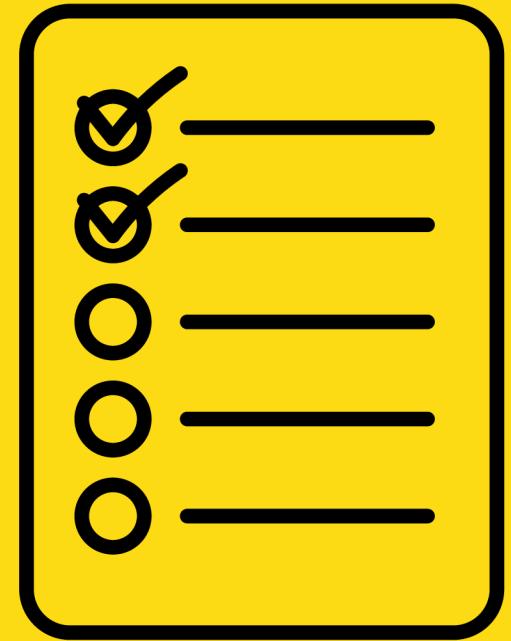
**Time-  
Consuming  
and Easily  
Outdated**



**Foreign-  
Based  
Standards**



You got bamboozled



**Simple  
Annotation  
Tool**



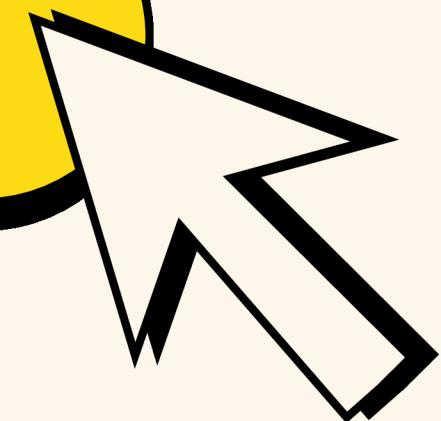
**Adaptive  
Results**



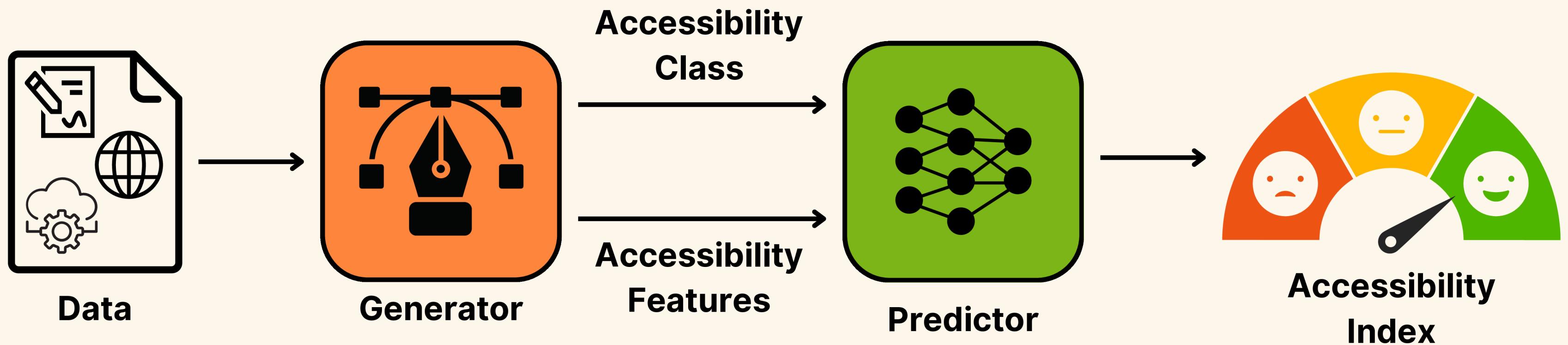
**Philippine  
Standards**



**[lakbai.maxellmilay.com](http://lakbai.maxellmilay.com)**



# Model Overview

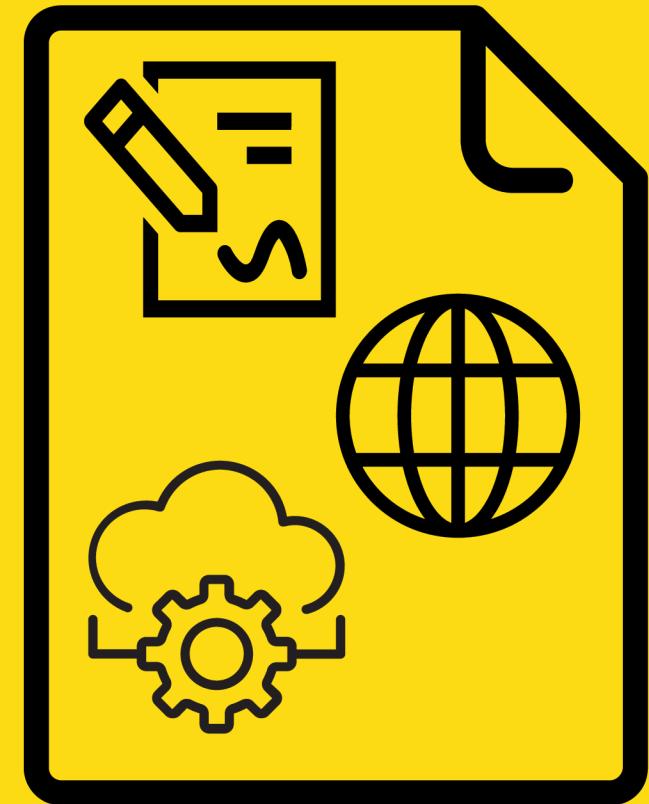


0

1

**Truth isn't binary,  
it's a spectrum.**





**Data**



**Infrastructural**

- Population
- Proximity to Amenities
- Zone



**Socioeconomic**

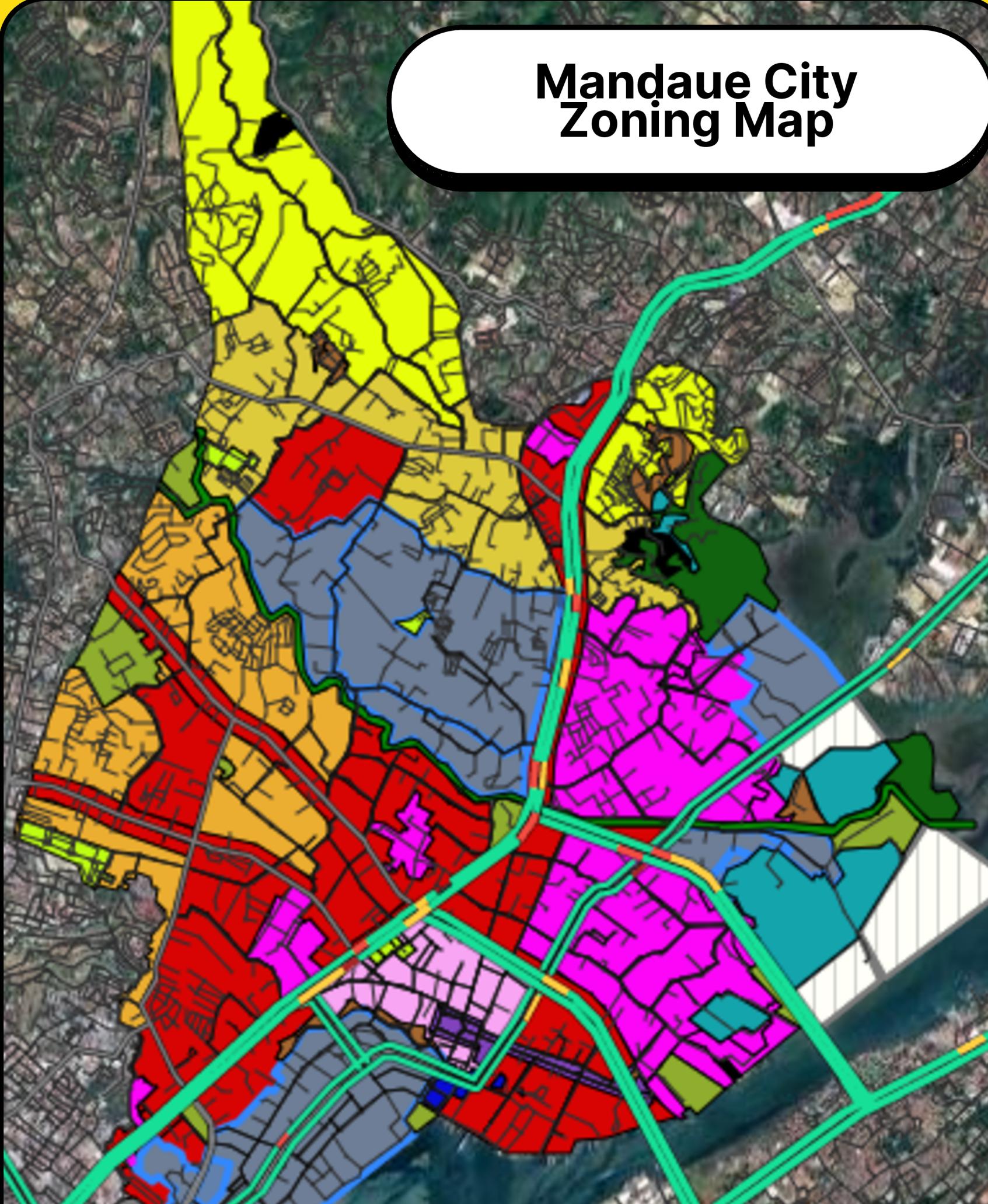
- Street furniture
- Gradient
- Surface
- Border Buffer
- Lighting
- Sidewalk Width



**Environmental**

- Precipitation
- Heat Index
- Flood Risk
- Time

## Mandaue City Zoning Map



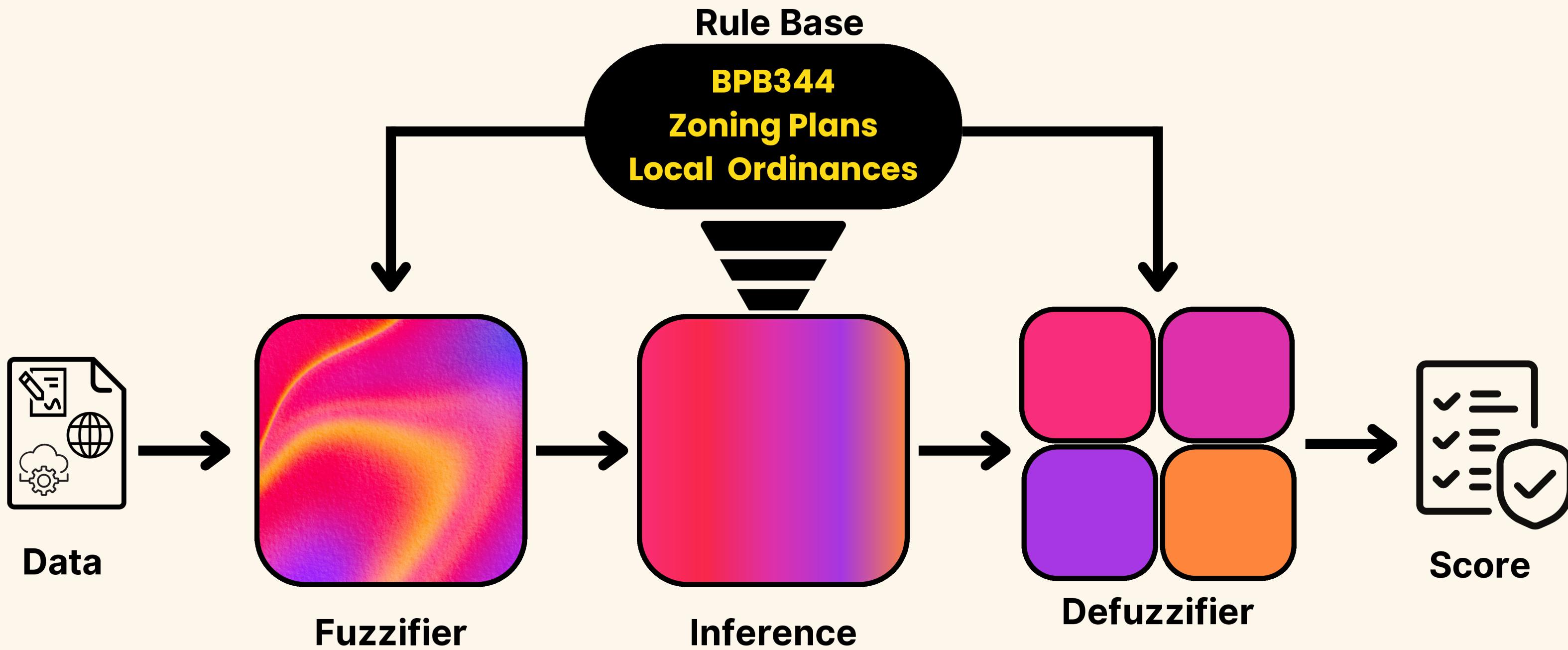
### **BATAS PAMBANSA BILANG 344** (Accessibility Law) and its Original and Amended Implementing Rules and Regulations

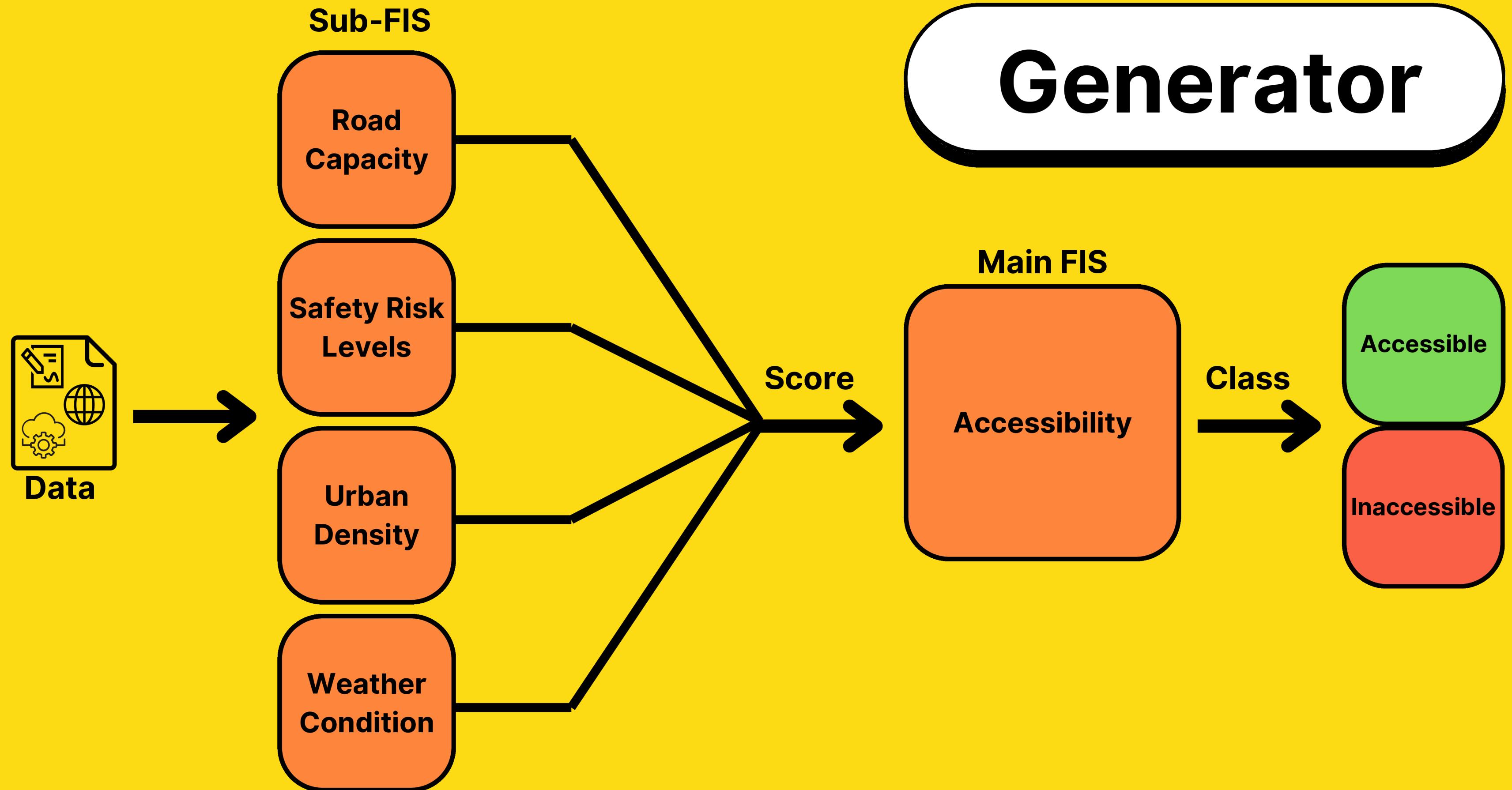
An Act to Enhance the Mobility of Disabled Persons  
by Requiring Certain Buildings, Institutions,  
Establishments and Public Utilities  
to Install Facilities and Other Devices

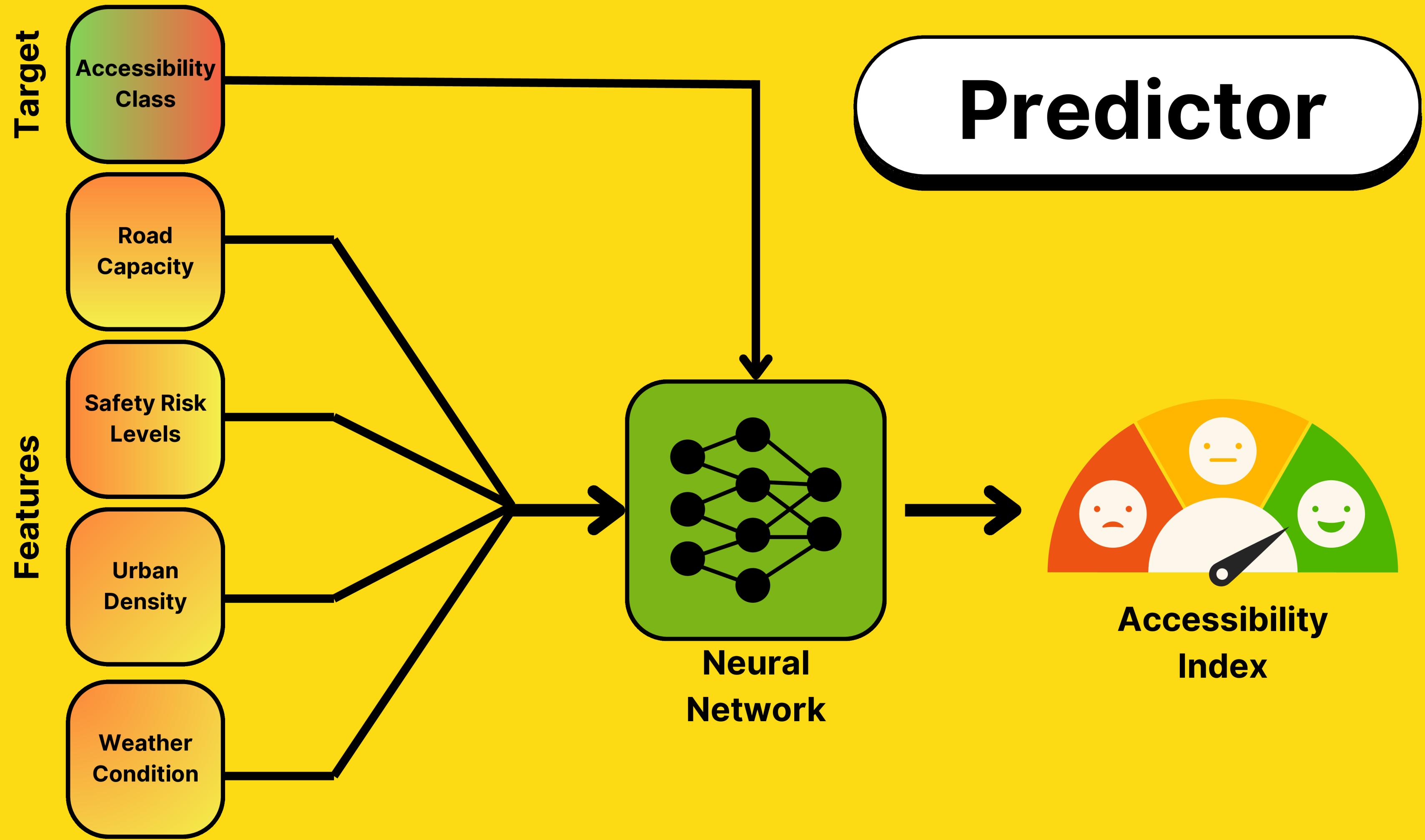


**NATIONAL COUNCIL ON DISABILITY AFFAIRS**  
Quezon City, Metro Manila, Philippines  
2008

# Fuzzy Inference System

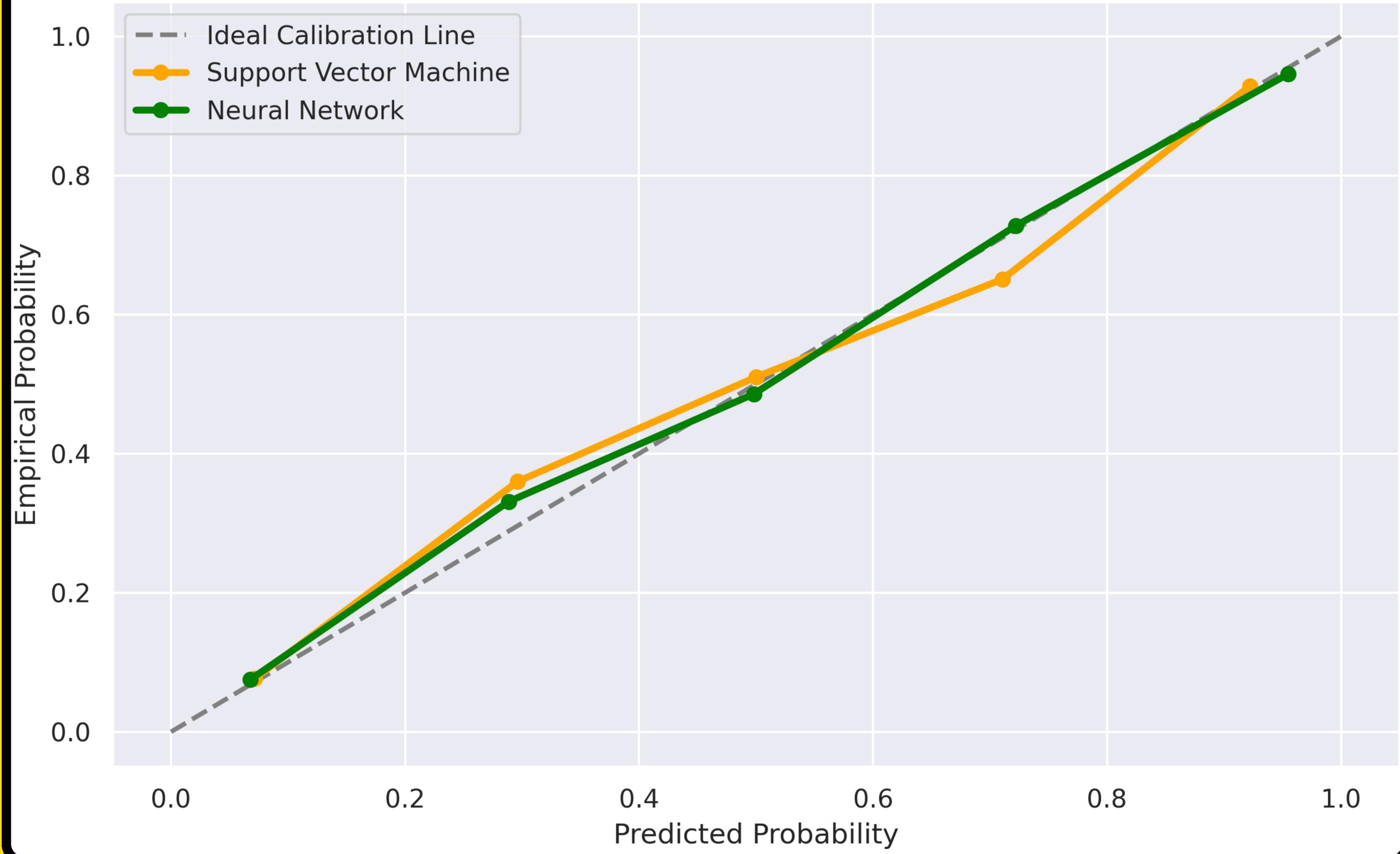




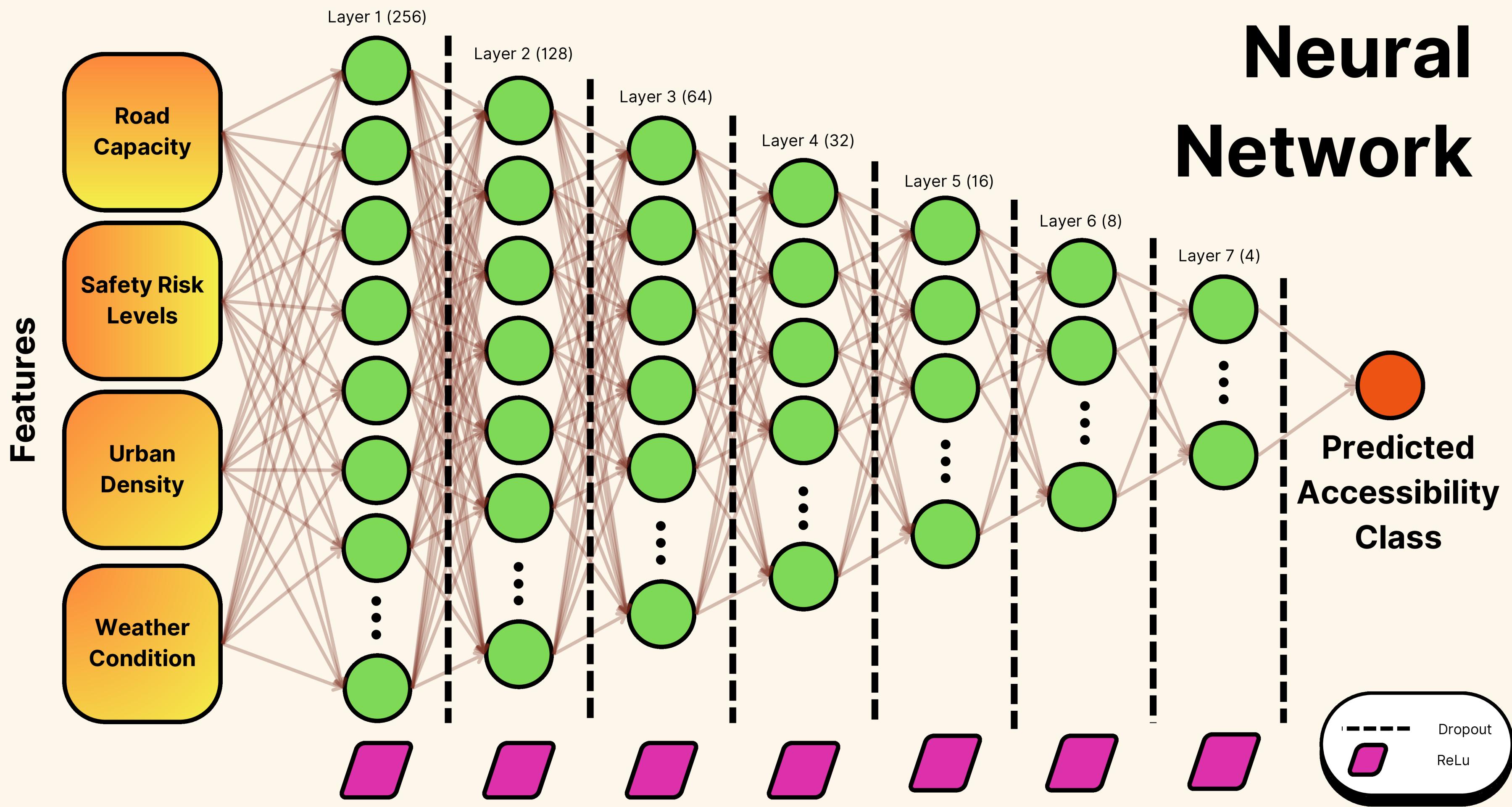


	<b>Logistic Regression</b>	<b>Naive Bayes</b>	<b>Support Vector Machine</b>	<b>Neural Network</b>
<b>Accuracy</b>	<b>83.5%</b>	<b>82.2%</b>	<b>87.7%</b>	<b>87.6%</b>
<b>Precision</b>	<b>84.7%</b>	<b>81.6%</b>	<b>88.2%</b>	<b>88.9%</b>
<b>Recall</b>	<b>89.5%</b>	<b>91.8%</b>	<b>92.4%</b>	<b>91.3%</b>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

## Calibration Curves for Neural Network, and SVM Models



# Neural Network





GO

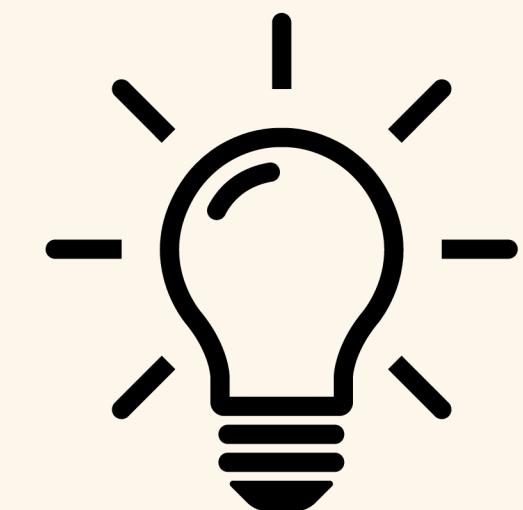


MEET



DO

# Future Steps



**Model  
Improvements**



**Better User  
Experience**



# **Rule Addition & Refinement**



**Time Series  
Analysis**

**Emergency  
Route  
Planning**

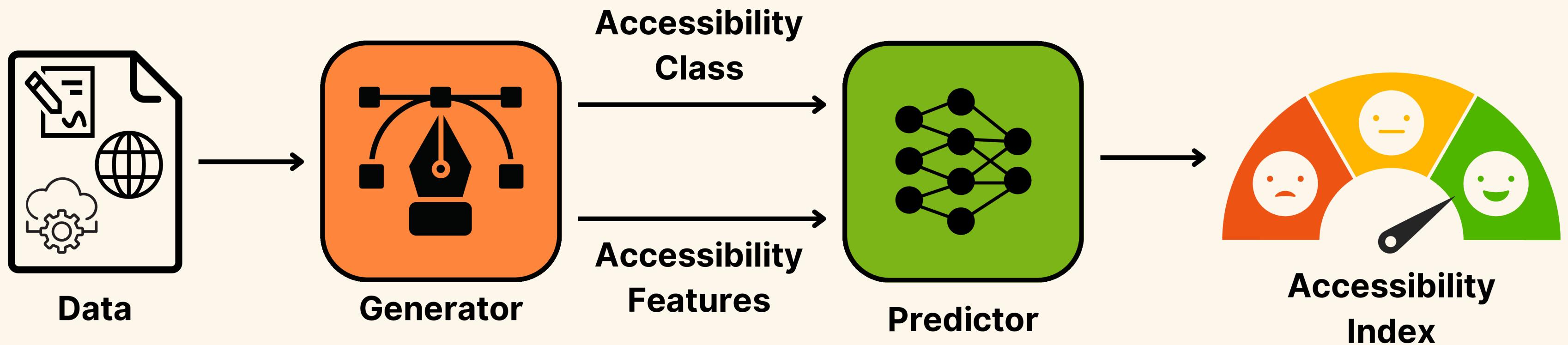
**Improve  
Coach Marks**



**Community  
Use**

**Run Real Time**

# Model Overview



L



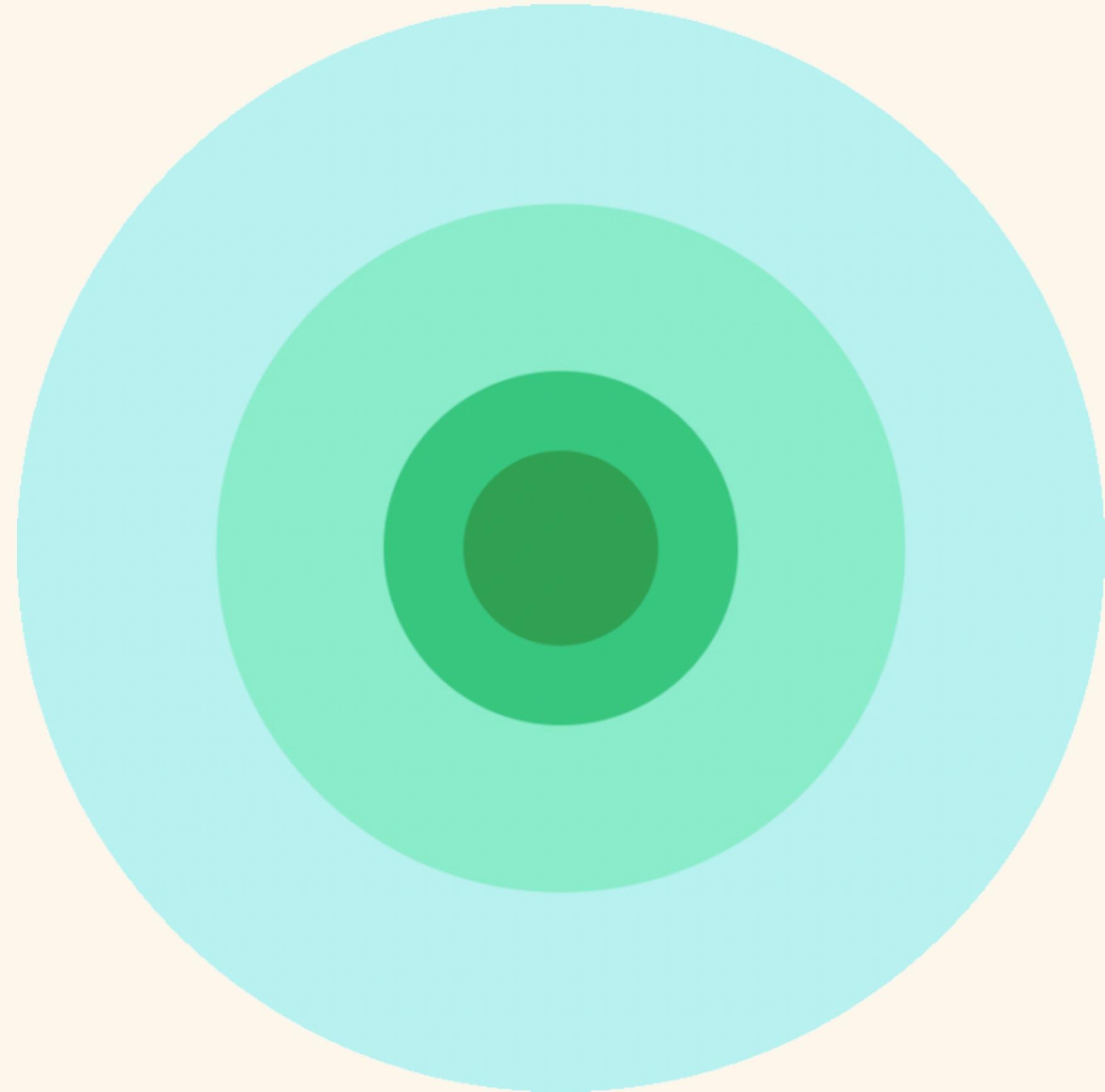
IK

B





**Start**





GO



MEET



DO

L



IK

B



CCLEEX

The logo features the word "CCLEEX" in a bold, black, sans-serif font. The letter "E" is uniquely designed to incorporate a suspension bridge. The vertical support tower of the bridge is positioned at the top of the "E", and its base extends downwards to form the horizontal bar of the "E". The two cables of the bridge are represented by curved lines that connect the tower to the main horizontal bar, creating a visual metaphor for connectivity or crossing.

**SUSTAINABLE CITIES  
ONE STEP AND ONE DATA POINT  
AT A TIME**