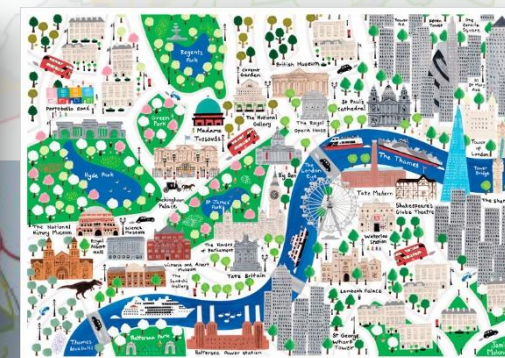# Accessibility Planning vs. Accessibility in Transport Appraisal

In the context of Sustainability

Cecília Silva

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Accessibility Planning

Approach

Strategic Thinking / Decision Making

All Modes

Integrated / Holistic

Urban Structure

Objectives

Reflect on Accessibility

Improve Sustainability

Accessibility Planning

Accessibility Planning

Real Demand

Accessibility

ends

- -

means

Derived Demand

Land Use Planning

Proximity
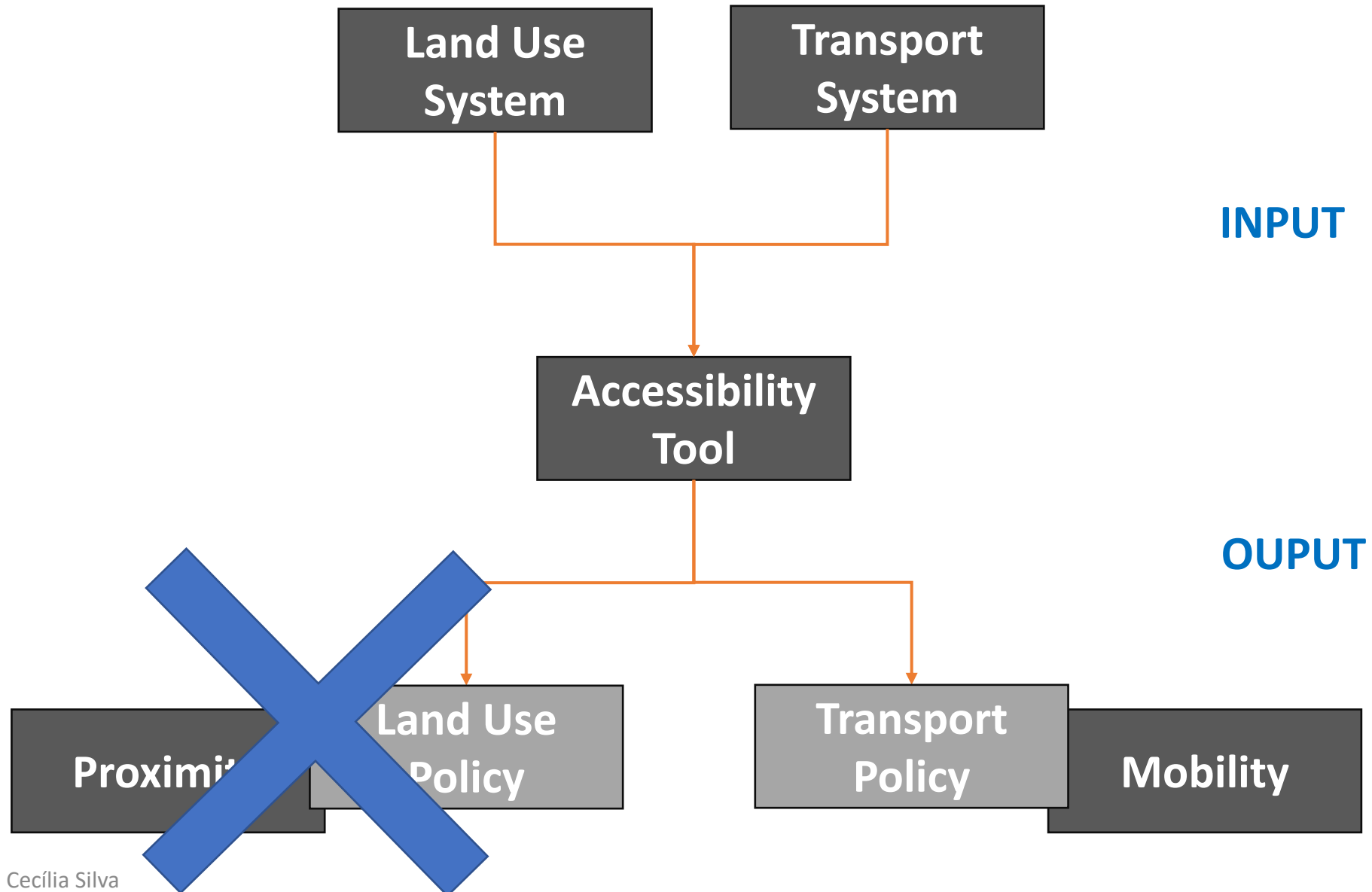
Mobility

Transport Planning
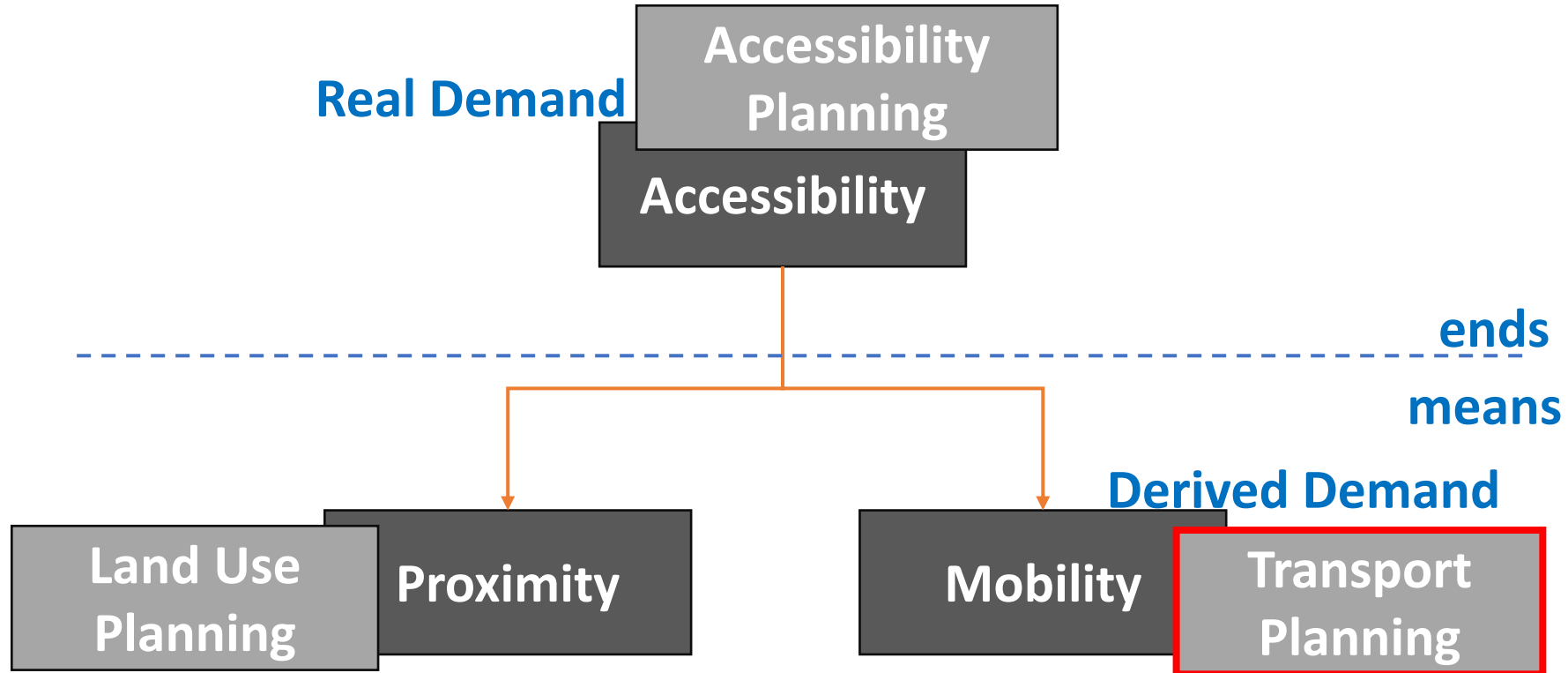
+ proximity **HAVE**   - mobility **NEED**

- proximity   + mobility

Accessibility in Transport Appraisal

INPUT

OUPUT

Land Use System

Transport System

Accessibility Tool

Proximity

Land Use Policy
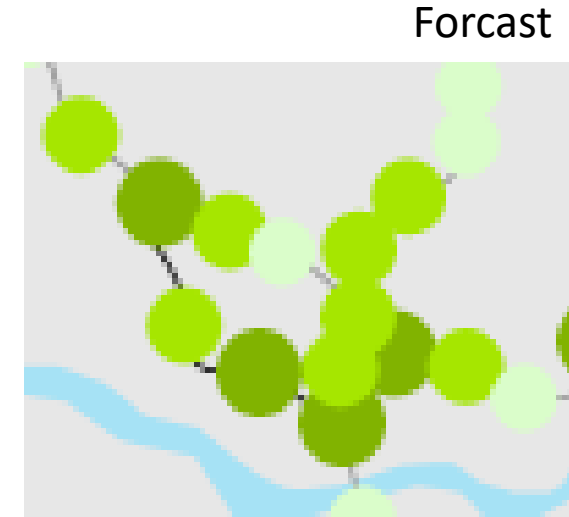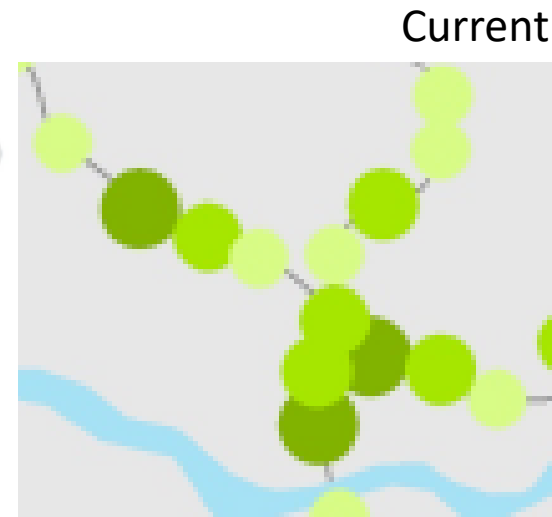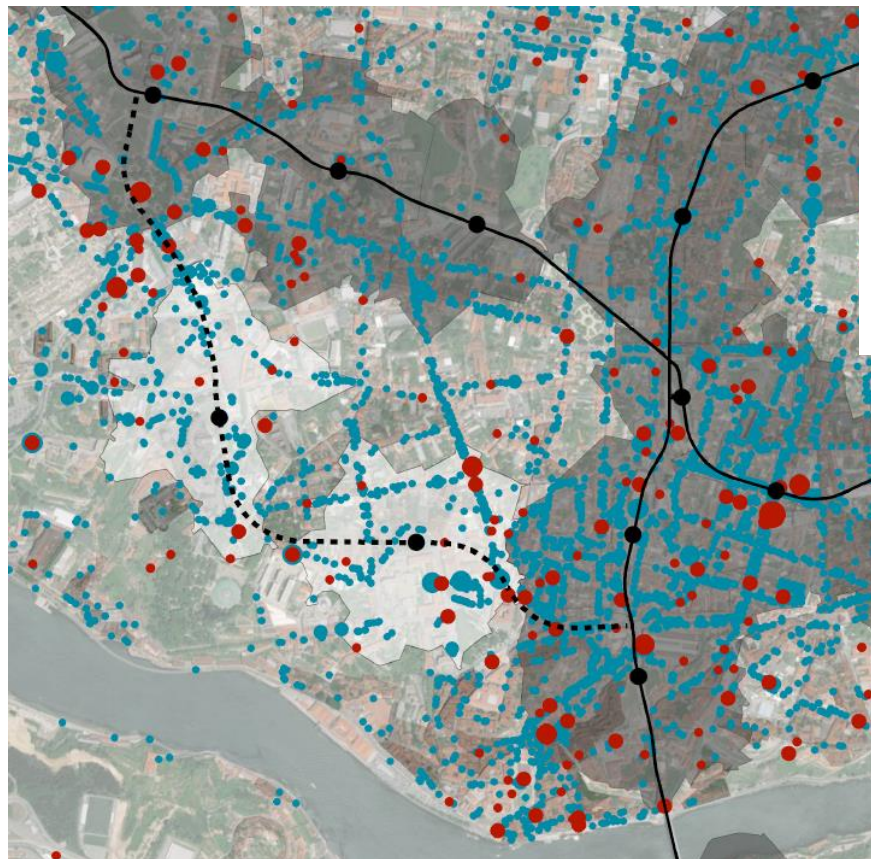
Transport Policy

Mobility

Accessibility in Transport Appraisal

Example: Porto Metro Expansion Strategy

Improve Mobility by PT

Current

Forcast

Validações Médias Diárias Anuais

Validações estimadas (sem transbordo)

- 29 - 200
- 201 - 400
- 401 - 750
- 751 - 1200
- 1201 - 2000
- 2001 - 4000
- 4001 - 6039

R Quadrado	R Quadrado Ajustado	F Ajustado	df1	df2	Sig. FAjustado
,884	,878	142,797	4	75	,000

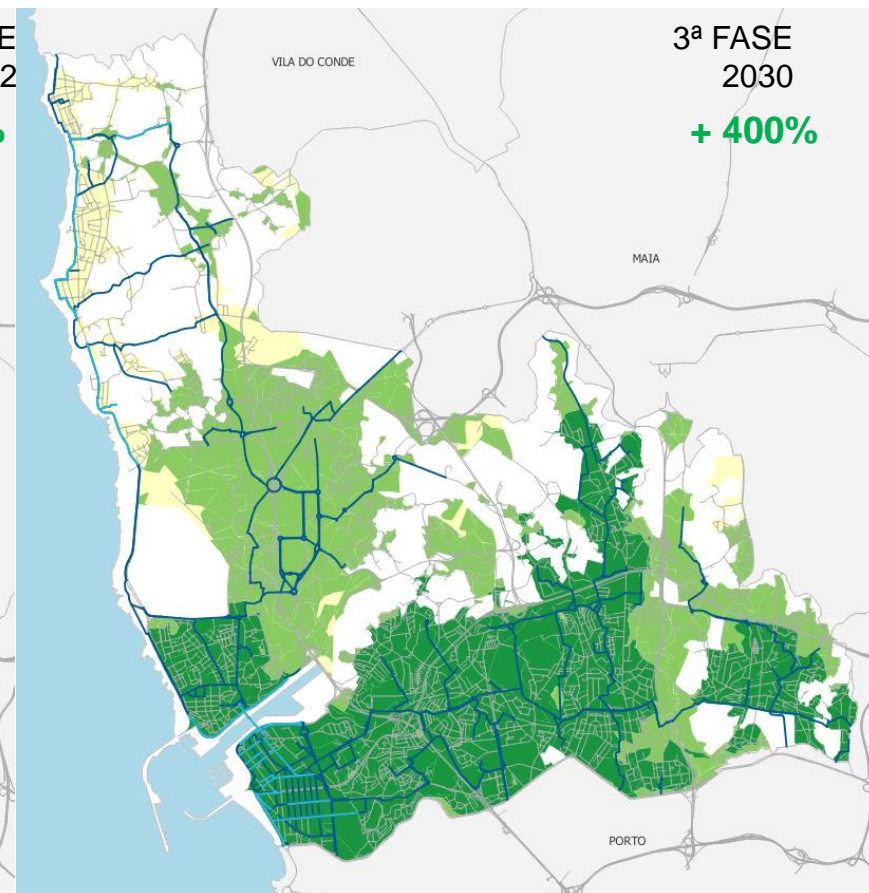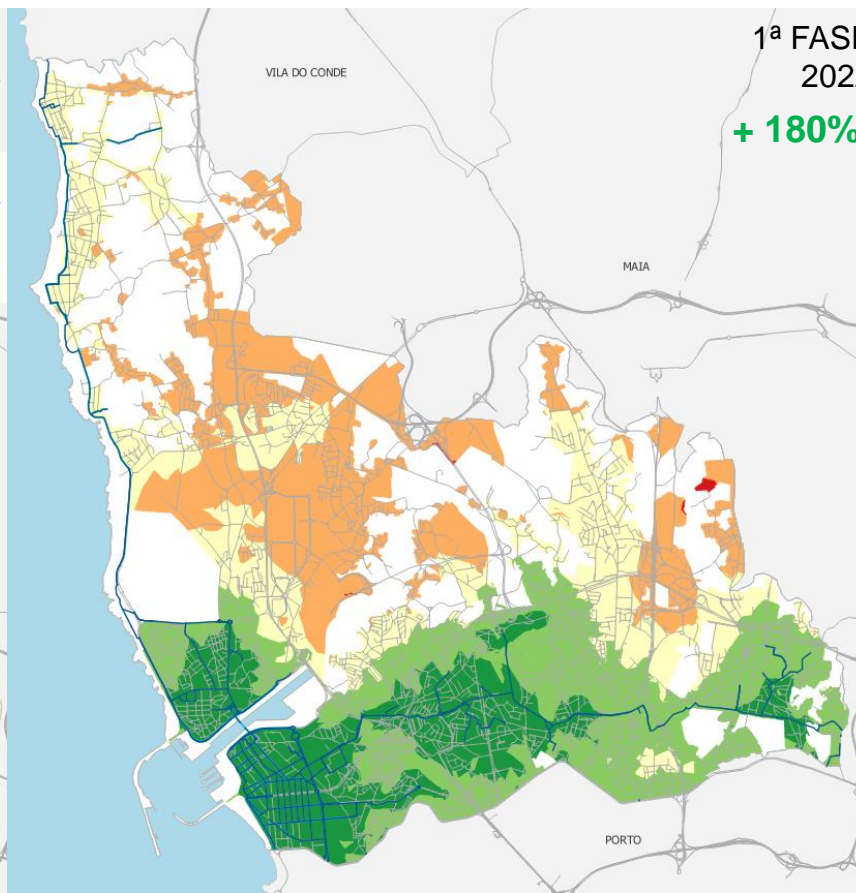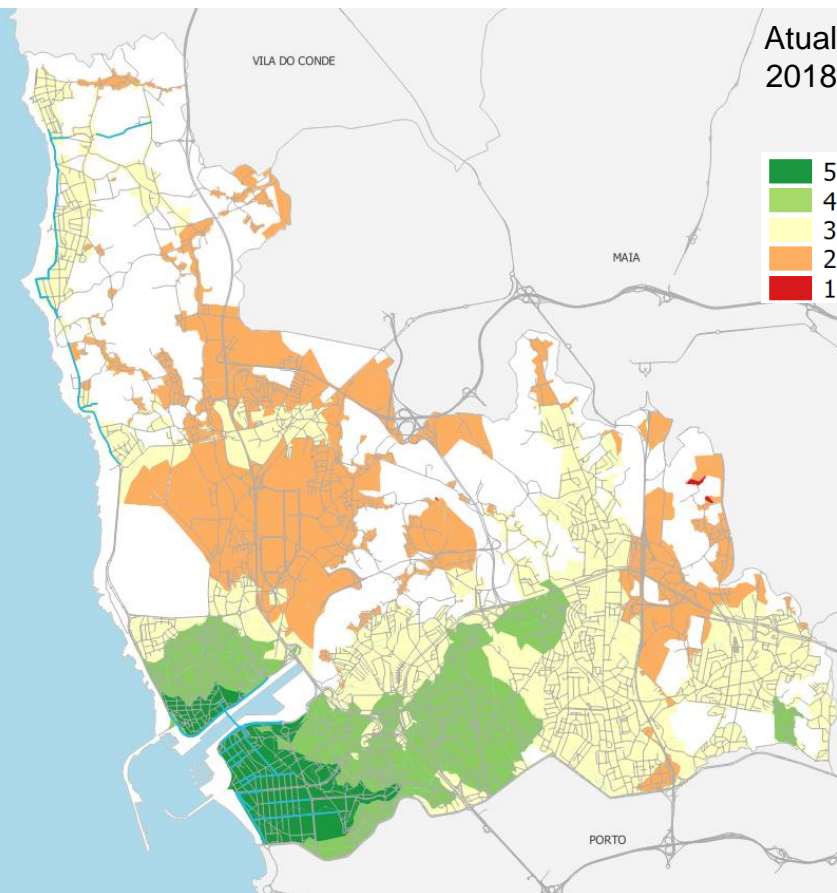| Coeficientes não padronizados			
B		Desvio padrão	Sig.
Constante da equação de regressão	-1,524	87,578	,986
Coeficiente "População na área de influência"	,152	,044	,001
Coeficiente "Emprego na área de influência"	,096	,033	,005
Coeficiente "GGV na área de influência"	,124	,009	,000
Coeficiente "Emprego acessível a 5,1 Km pela rede"	,011	,003	,000

Accessibility in Transport Appraisal

Example: Cycling Infrastructure

Improve Mobility by Bike

Legend:
- 5 - Less than 2 min
- 4 - Between 2 and 4 min
- 3 - Between 4 and 6 min
- 2 - Between 6 and 8 min
- 1 - Above 8 min
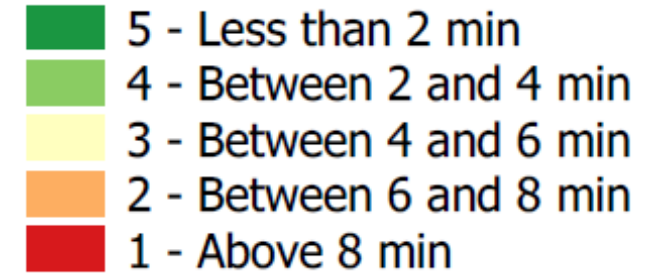
Coverage of Cycling Infrastructure

Atual 2018

1ª FASE 2022 + 180%

3ª FASE 2030 + 400%

Accessibility in Transport Appraisal

Example: Cycling Infrastructure

Improve Mobility by Bike

Relative Accessibility Car/Bike - 5min

5 - Acc by Car <80% Acc by Bike
4 - Acc by Car 80-100% Acc by bike
3 - Acc by Bike 80-100% Acc by Car
2 - Acc by Bike 40-80% Acc by Car
1 - Acc by Bike <40% Acc by Car

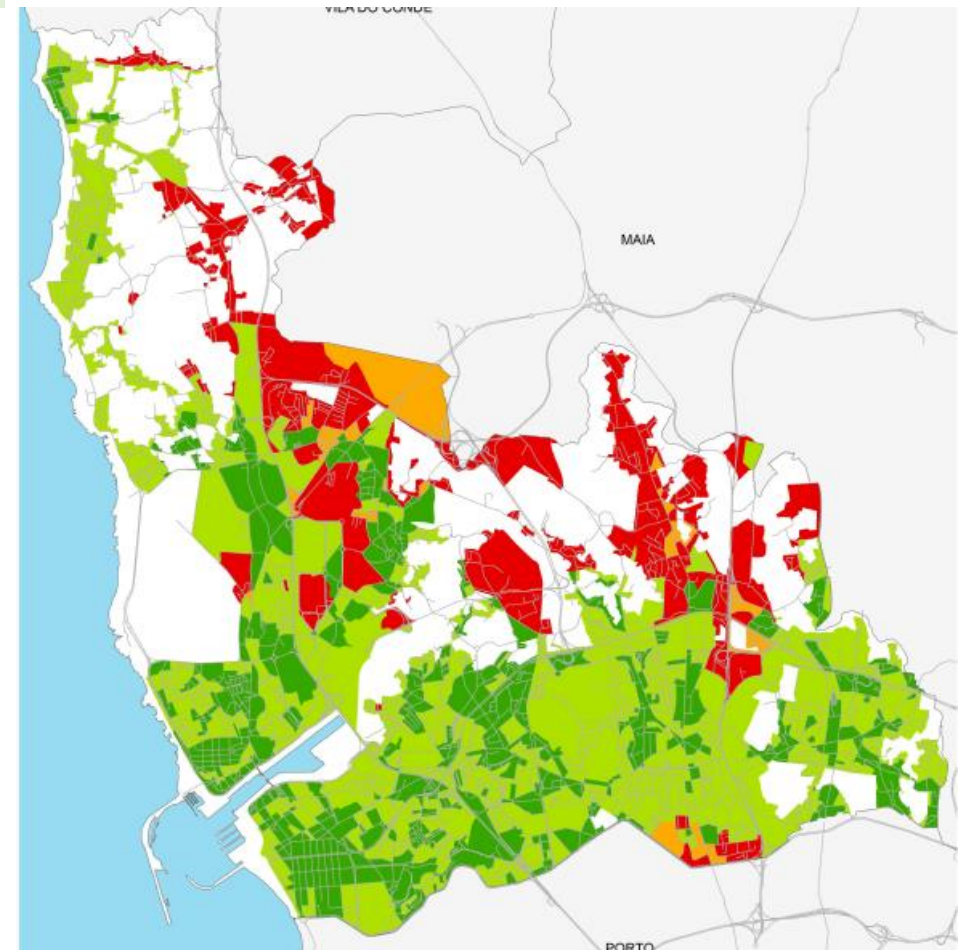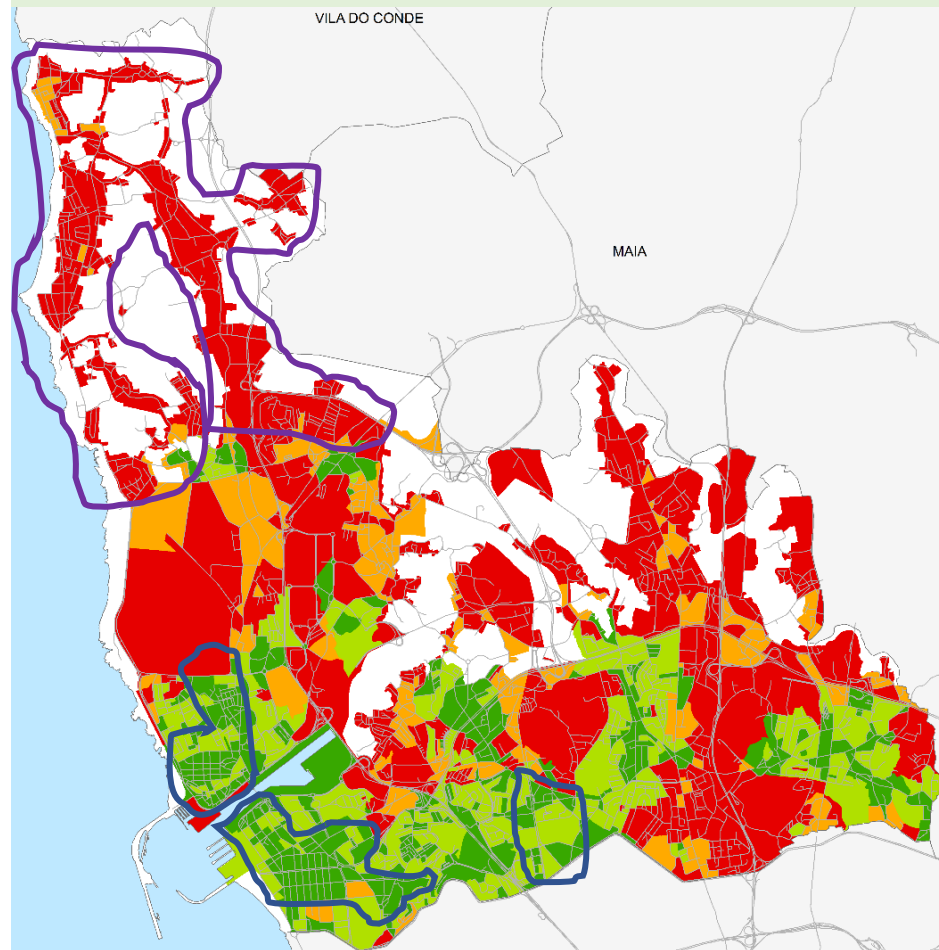Atual 2018

1ª FASE 2022

3ª FASE 2030
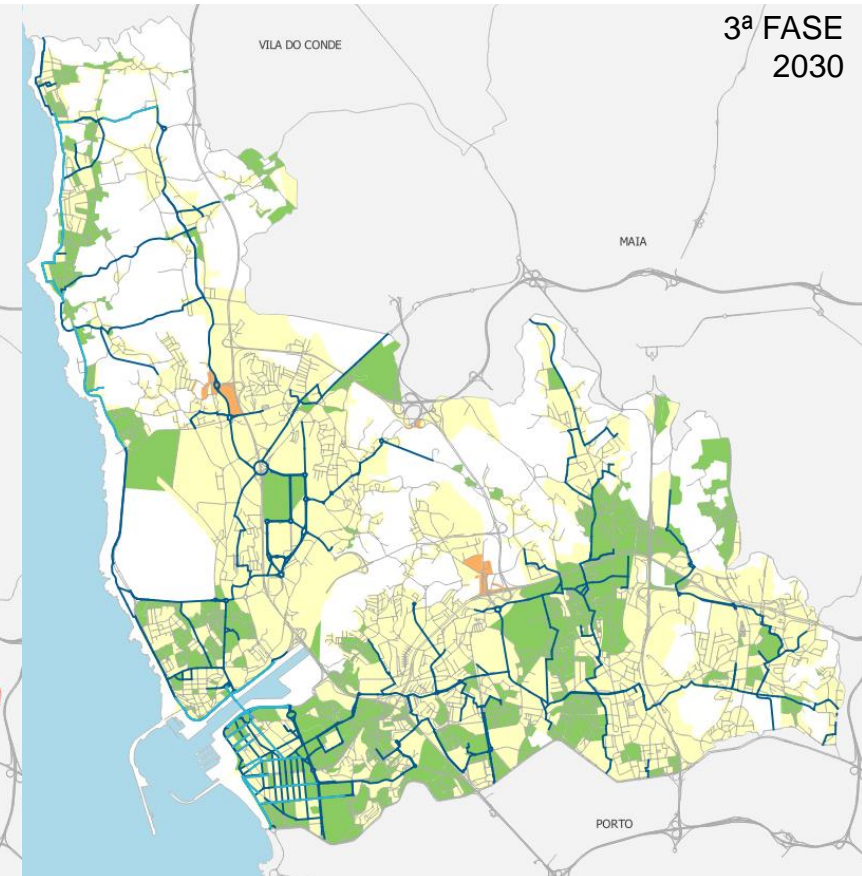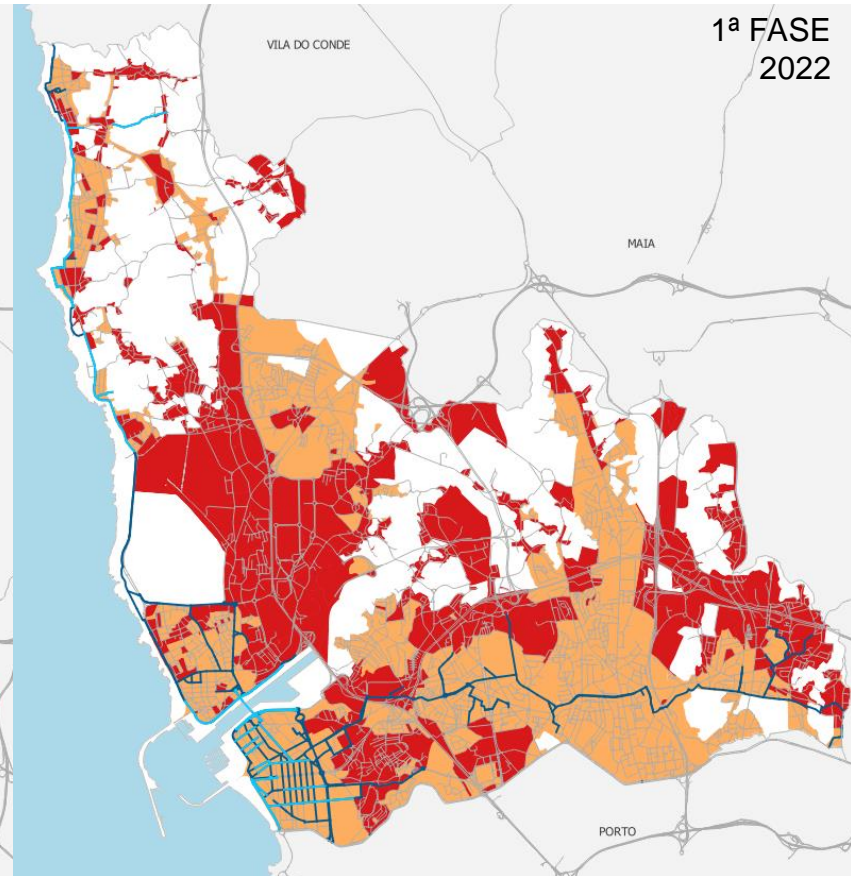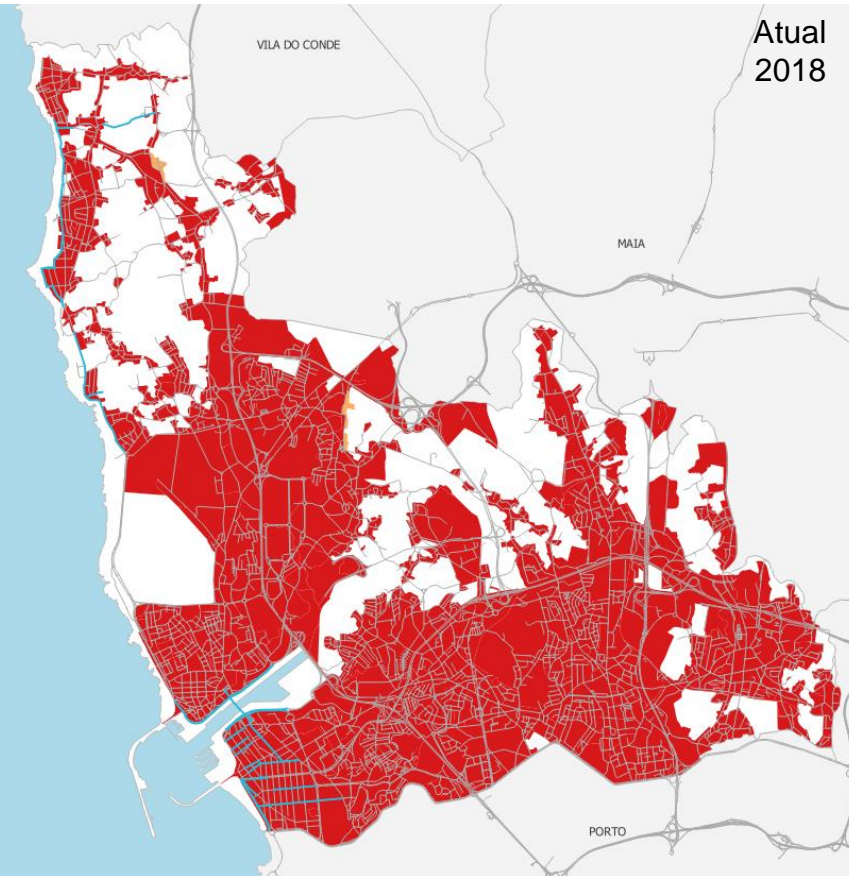
Accessibility Planning

Example: Mobility Plan for Matosinhos

Improve Sustainability

Accessibility Planning	Accessibility in Transport Appraisal
The use of Accessibility Measures in neither good or bad	
To consider Sustainability	It is useful for Transport Appraisal – understand the potential gain (coverage, patronage, etc.)
It should reflect on relative accessibility by different transport modes	But it still focusses on improving mobility
It should consider action on Land Use	

Accessibility Planning vs. Accessibility in Transport Appraisal

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