

# ARCHITECTURE:

A TOOL FOR FIGHTING AIR POLLUTION

ANA LORENA RODE

# MEXICO CITY





MEXICO CITY



**UNHEALTHY**  
**181**

BEIJING



**VERY UNHEALTHY**  
**225**

DELHI



**HAZARDOUS**  
**712**

# THESIS

ALL ACROSS THE GLOBE, CITIES ARE BEING AFFECTED BY AIR POLLUTION, THE PREVALENCE OF ARCHITECTURE CAN BE USED AS A TOOL TO FIGHT THIS ISSUE.

THE EXAMPLE OF MEXICO CITY GIVES AN INSIGHT INTO WHAT CAUSES THE PROBLEM AND HOW IT AFFECTS DIFFERENT COMMUNITIES.

THIS CASE STUDY HAS LED TO THE DEVELOPMENT OF A TEMPLATE FOR DIFFERENT POLLUTION FIGHTING ARCHITECTURAL METHODS THAT CAN BE APPLIED ALL OVER THE WORLD IN DEVELOPED AND DEVELOPING COUNTRIES ALIKE.

# METHODS ALREADY FIGHTING POLLUTION: TITANIUM DIOXIDE



HOSPITAL MANUEL GEA GONZALEZ  
MEXICO CITY



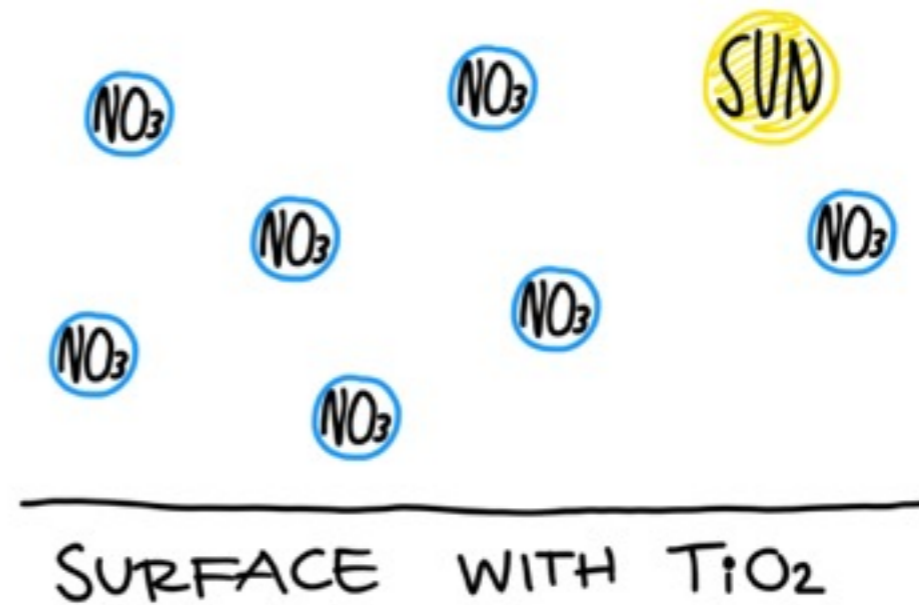
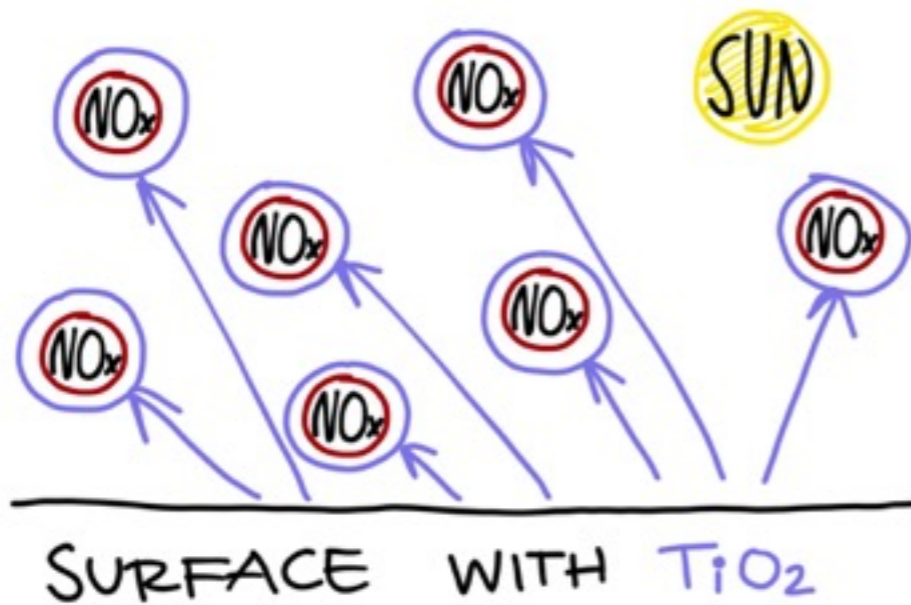
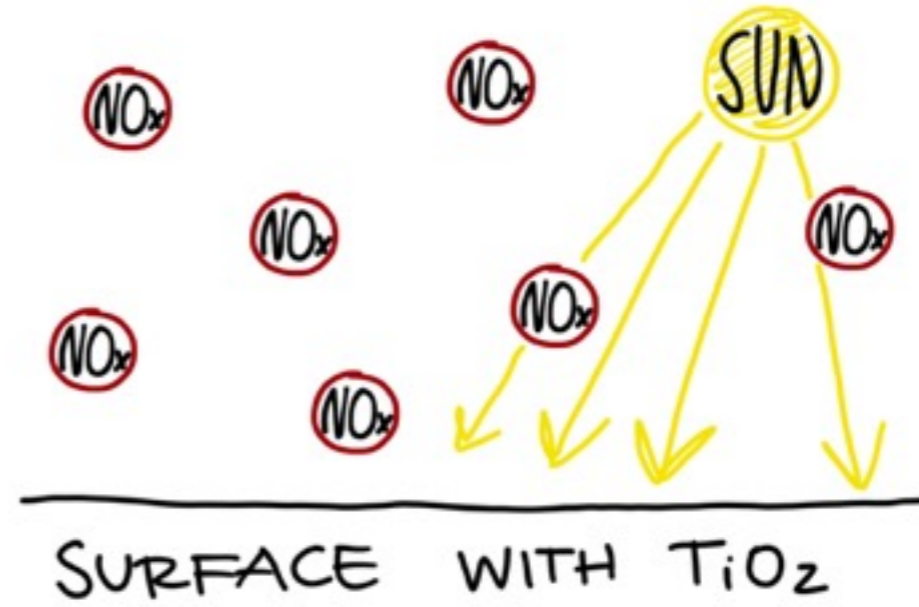
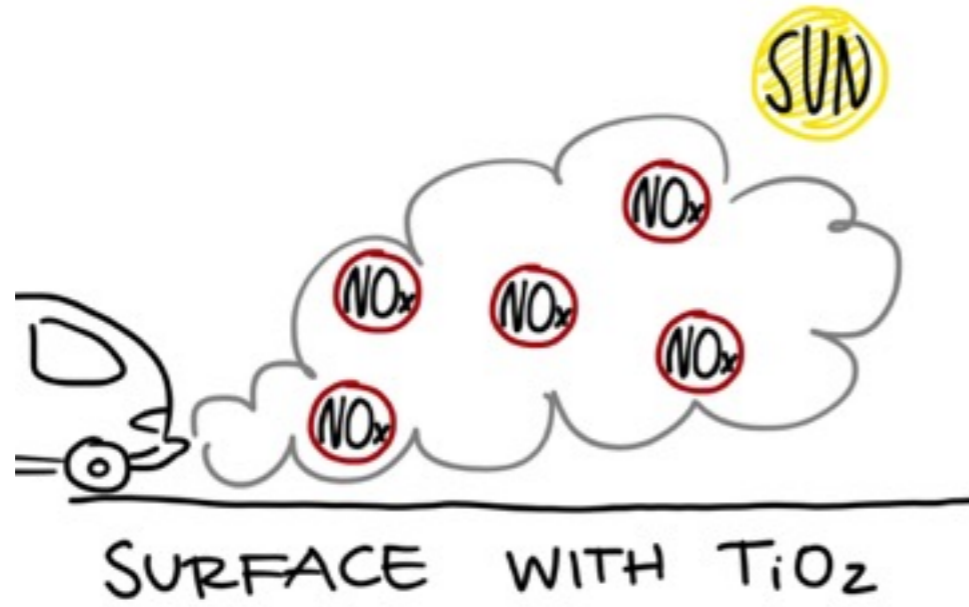
PALAZZO ITALIA  
MILAN, ITALY



NOXER BLOCK  
KENDAL, ENGLAND



# METHODS ALREADY FIGHTING POLLUTION: TITANIUM DIOXIDE





# METHODS ALREADY FIGHTING POLLUTION: GREEN BUILDINGS

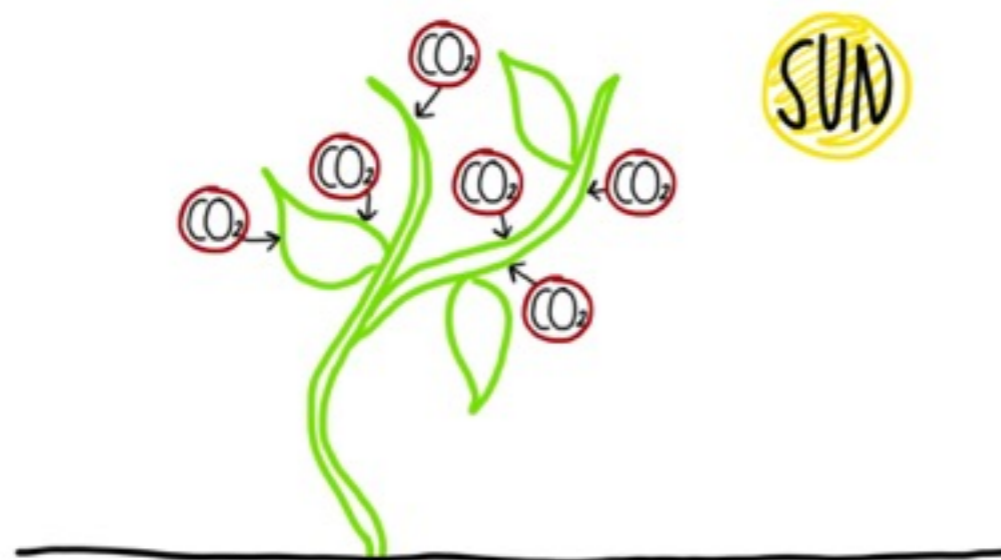
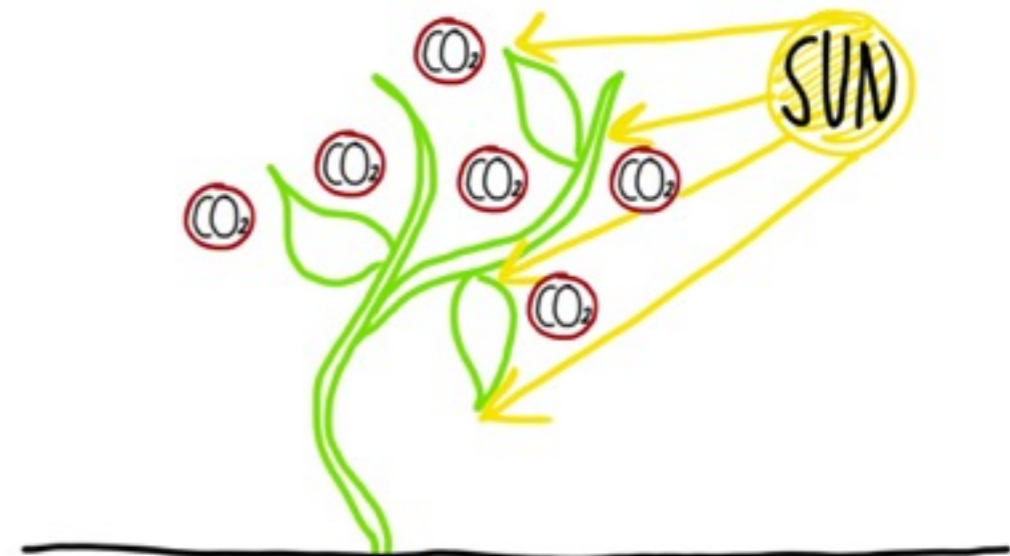
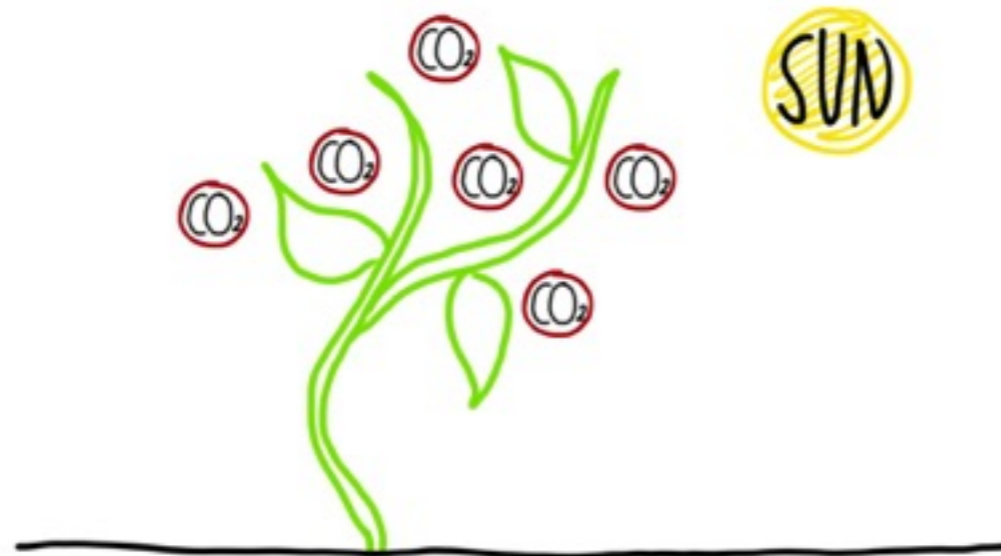
MILAN



NANJING



# METHODS ALREADY FIGHTING POLLUTION: GREEN BUILDINGS





# APPLYING THESE METHODS: MEXICO CITY

VIA VERDE



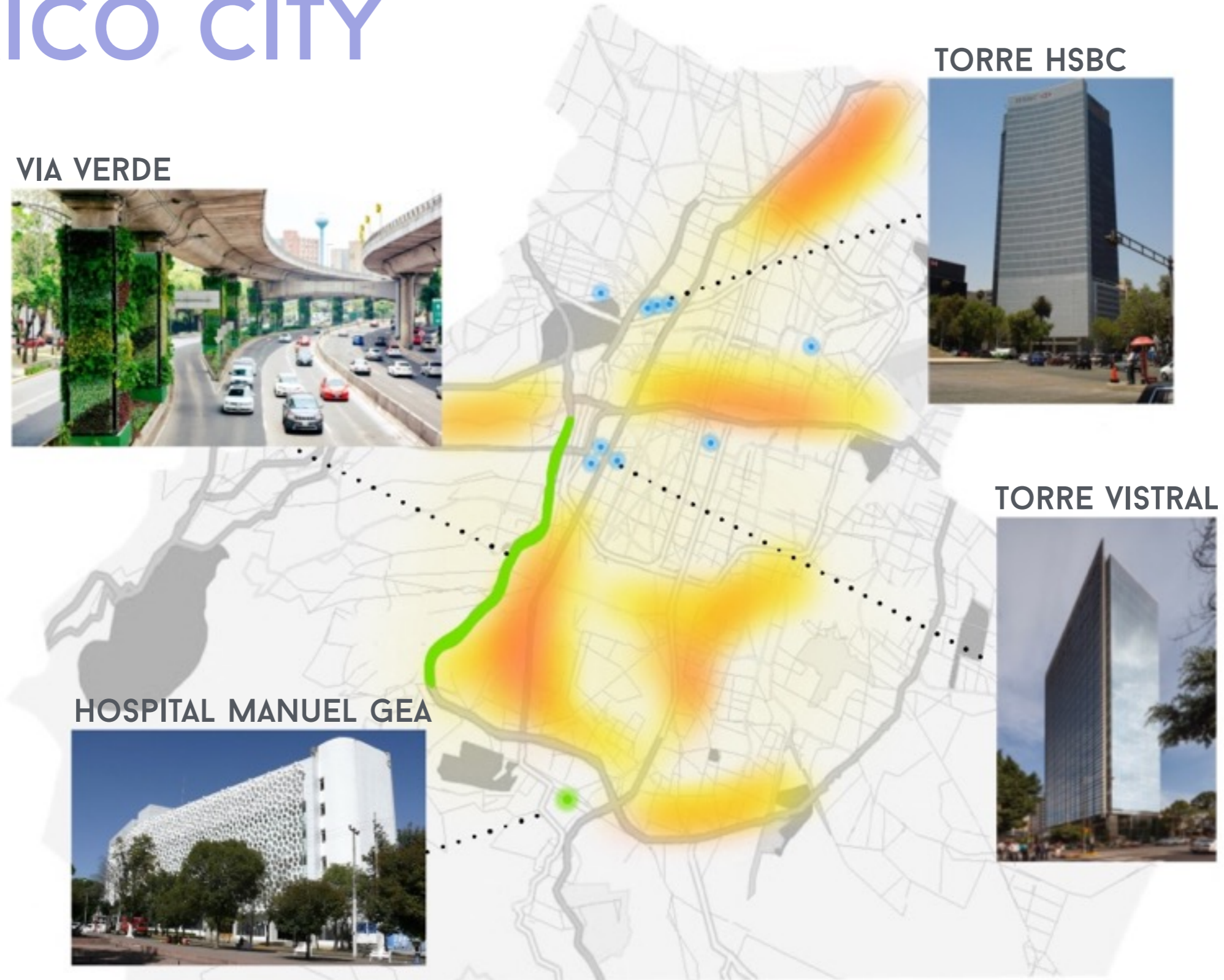
TORRE HSBC



TORRE VISTRAL



HOSPITAL MANUEL GEA

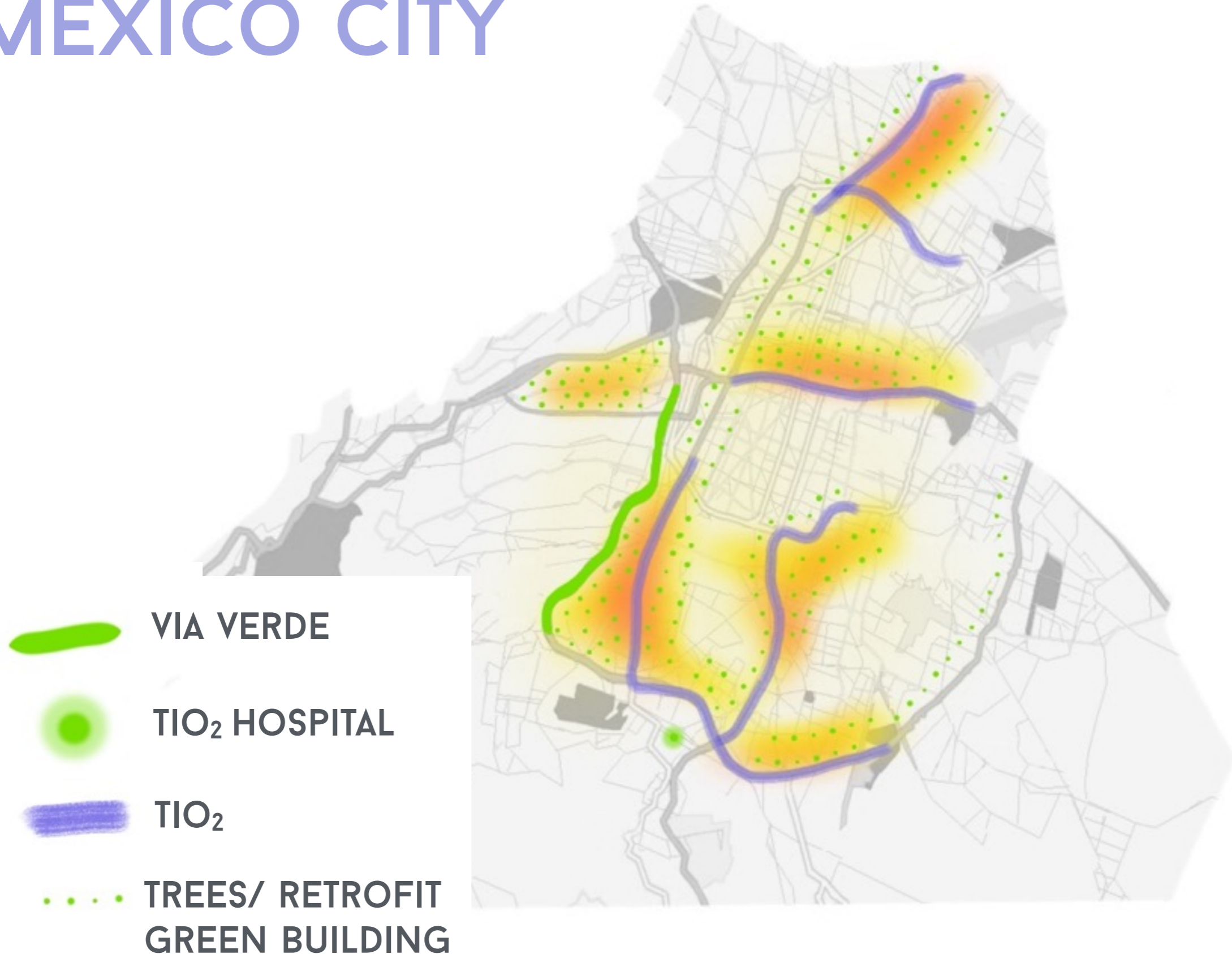


# APPLYING THESE METHODS: MEXICO CITY











# APPLYING THESE METHODS: MEXICO CITY



# FINAL PROPOSAL

	<b>GREEN BUILDINGS</b>	<b>TITANIUM DIOXIDE</b>	<b>TREES</b>
<b>TYPE OF POLLUTION IT ABSORBS</b>			
<b>WASTEFUL BYPRODUCTS</b>	<b>CONSTRUCTION BYPRODUCTS</b>	<b>4,500 KG OF WASTE/ TON OF TIO<sub>2</sub></b>	
<b>PRICE</b>			
<b>TYPE OF APPLICATION</b>	<b>RETROFIT OR NEW CONSTRUCTION</b>	<b>RETROFIT OR NEW CONSTRUCTION</b>	<b>CAN BE APPLIED ANYWHERE</b>