

# Cadastral and smart City powered by Supermap

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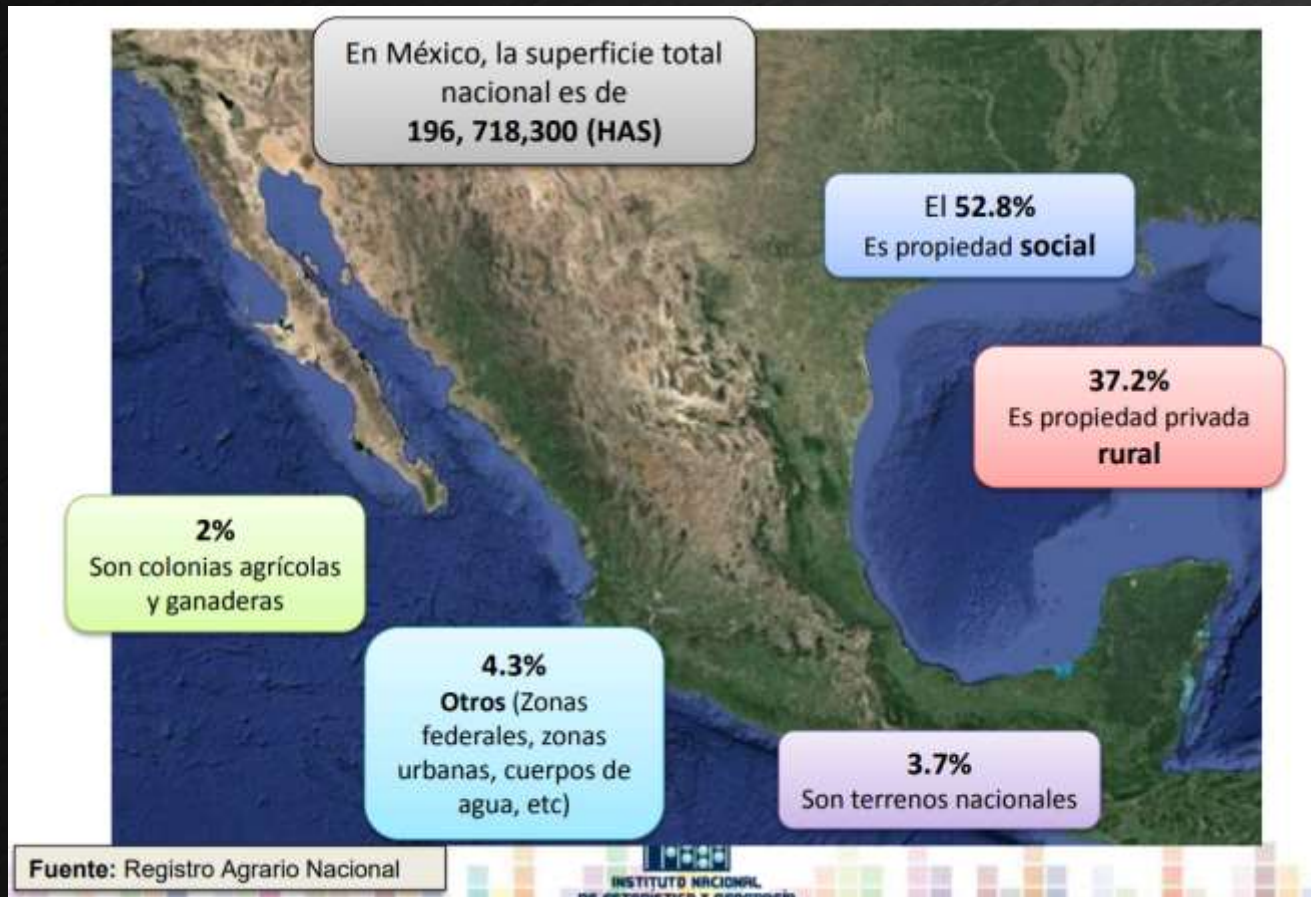
27 Jun. 2023, Beijing

**What is de actual situation of cadastre in Mexico?**



# THE PROPERTY IN MEXICO

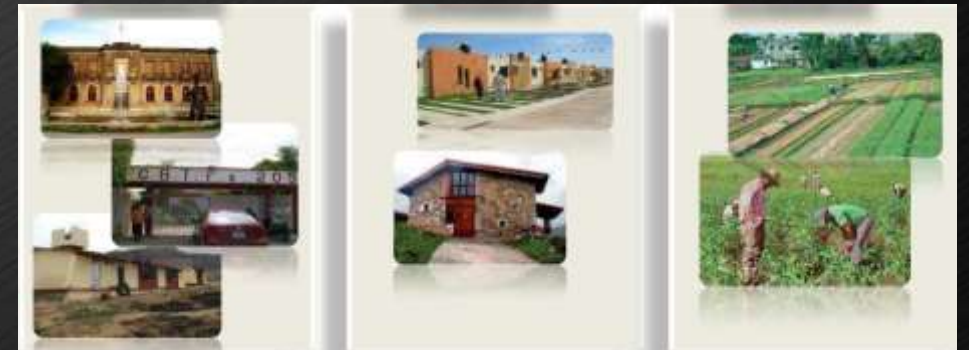
(There are approximately 200 million hectares in all the contry)



## WE HAVE 3 TYPES OF PROPERTIES:

- Public property
- Private property
- Social property

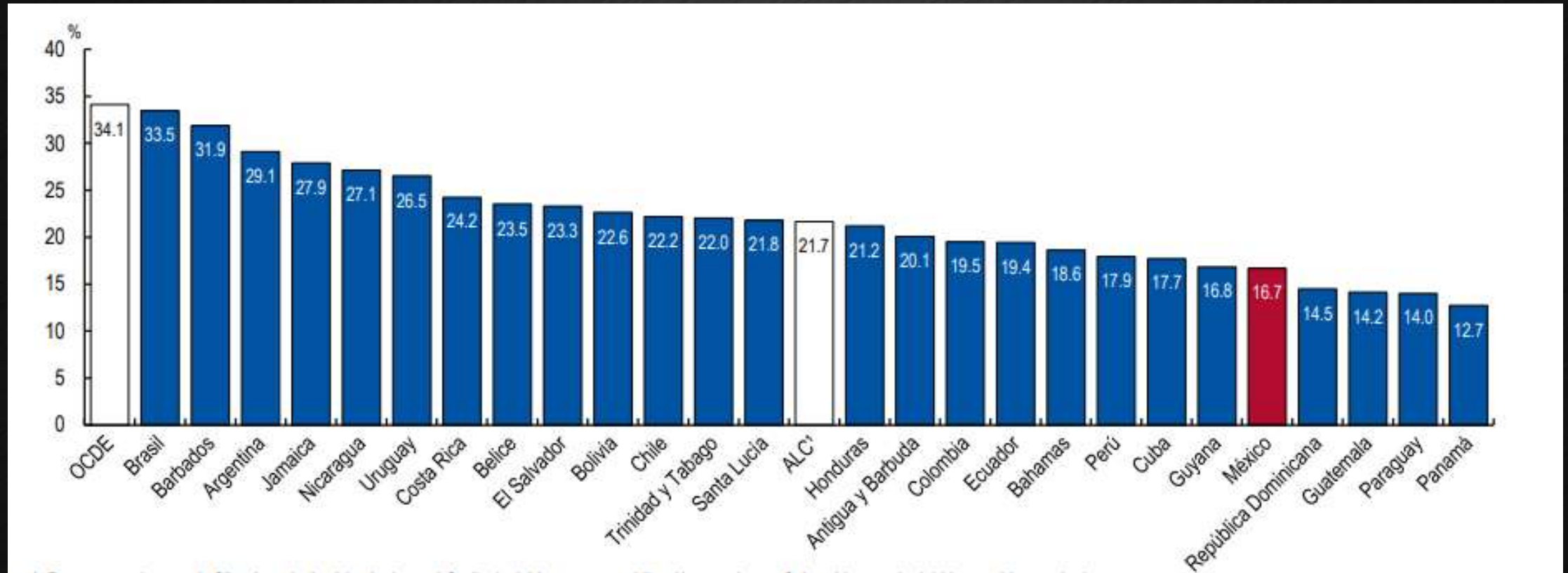
IN MEXICO THERE ARE 130 MILLION HABITANTS



In México we have 32 States and 2455 municipalities, 70% has les thas 5,000 properties, 25% les than 200,000

About 70% of the population lives in urban areas.

# PROPERTY TAX COLLECTION 2023 (Organization for Economic Cooperation and Development)



PTC 2023 (Organization for Economic Cooperation and Development) , the collection represents 0.28% of the Gross Domestic Product in México.

# CADASTRE CHALLENGES IN MEXICO

CURRENT SITUATION	CHALLENGES
There is an optimal cadastre model to standardize real estate pricing in Mexico, only operates in 2d	3D CADASTRE TO SUPPORT THE CORRECT REAL ESTATE TRAFFIC
We don't have a system operating for the entire country that meets the standards	CREATE THE CADASTRAL STANDARD IN 2 AND 3D THAT OPERATES THROUGHOUT THE COUNTRY
Low property collection in the municipalities	IMPROVE THE PROPERTY COLLECTION OF THE MUNICIPALITIES USING TECHNOLOGY (Example. REMOTE SENSORS + GIS)
The current cadastre model does not contemplate creating digital twins of the city	DRIVING AND STANDARDIZING THE CREATION OF USEFUL DIGITAL TWINS FOR A SMART CITY
There are no technical personnel trained in 3d GIS, digital twins, AI and 3d development associated with remote perception	PREPARE PROFESSIONALS TO SUPPORT THE DEVELOPMENT OF THESE APPLICATIONS

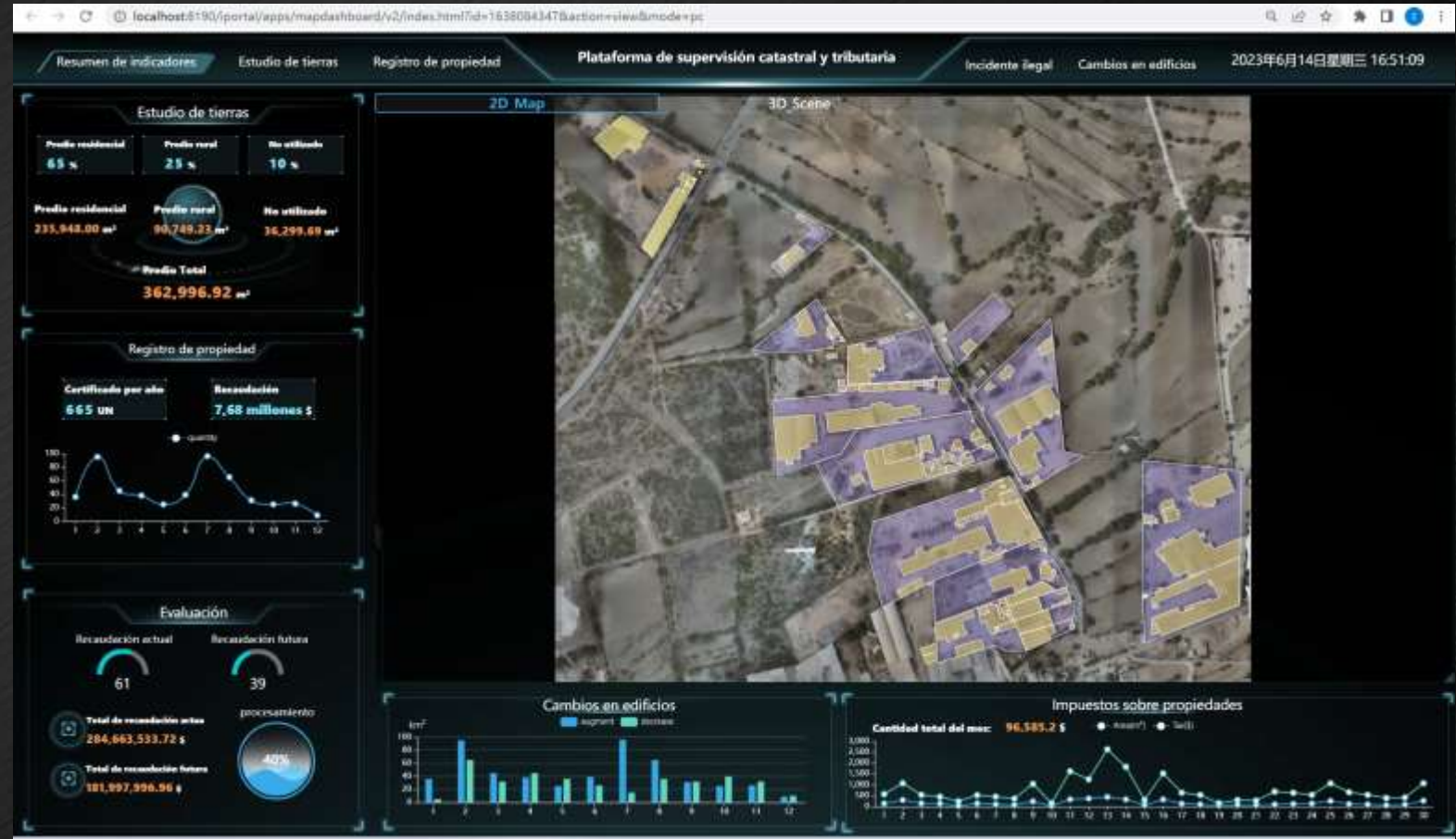
WE HAVE BEEN WORKING WITH SUPERMAP TO IMPROVE ALL THESE OPPORTUNITIES. REMOTE SENSE + GIS + AI + 3D + DIGITAL TWINS ARE OUR FIRST GOAL

- Example :

- Municipality of Zapopan, Jalisco , 2017.

- The tax collection was 31 million dollars Work was carried out to identify differences through processing of aerial photographs 2017 versus 2014 finding new properties, changes in construction volumes, updating cadastral cartographic data.

- Based on the above, the property calculations were updated and it was achieved gradually in three years to raise up to 110 million dollars



# SMART CITY IN MEXICO

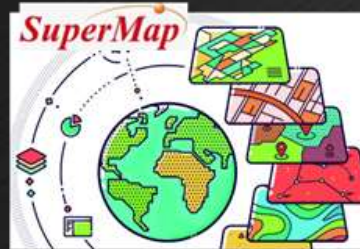


## CAMBIO CLIMATICO



- IN 2050 WE WILL BE 10,000 MILLION PEOPLE
- 68% OF THE POPULATION WILL LIVE IN CITIES
- IT WILL REQUIRE NEW INFRASTRUCTURE, URBAN EQUIPMENT, SCHOOLS, SECURITY, FOOD, ETC.
- MILLIONS OF DATA WILL BE GENERATED , IF NOT ANALYZED CORRECTLY, IT WILL BE VERY DIFFICULT TO ADMINSTRATE AND GENERATE BETTER SOLUTIONS FOR THE CITIZEN .

# CHALLENGES FOR THE TRANSFORMATION TO SMART CITIES



La transformación digital revolucionara la planeación , diseño, construcción, manufactura, cadena de suministros, explotación de recursos naturales y servicios públicos y privados

SOCIEDAD 5.0

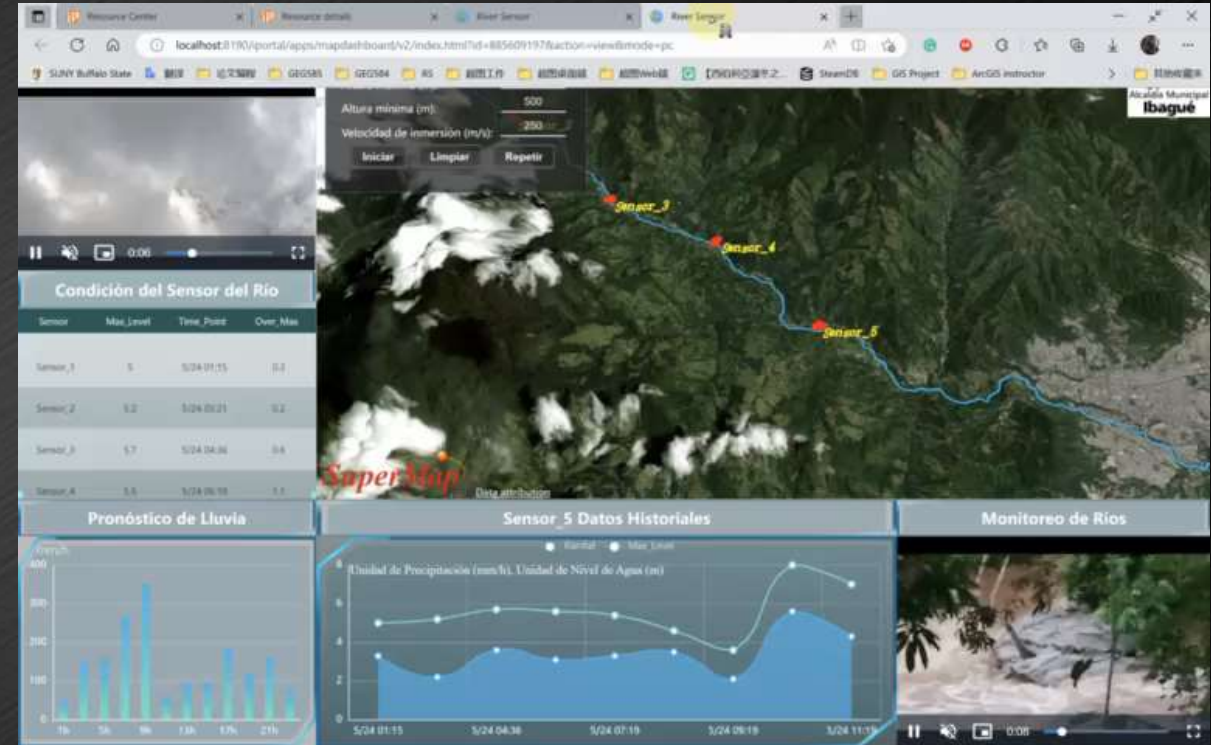
- SMART CITY IS A SET OF SOLUTIONS THAT MAKE LIFE EASIER FOR CITIZENS
- IN MEXICO YOU HAVE THE GREAT OPPORTUNITY TO CREATE THESE APPLICATIONS TO OFFER INDUSTRY, COMMERCE, RESIDENCES, GOVERNMENT AND SERVICES, THEY WILL INVEST THIS THIS YEAR AROUND 1500 MILLION DOLLARS TO TRANSFORM THE WAY OF LIFE OF THE POPULATION



# EXAMPLES



VIDEO VIGILANCIA AND DASHBOARD FOR PEMEX , 88 MDD



VIDEO VIGILANCIA AND DASHBOARD FOR CIVIL PROTECTION IN COLOMBIA

# WORKING WITH SUPERMAP IN MEXICO

- IN JULY WE ARE GOING TO DELIVER THE SUPERMAP ON LINE FOR MANY SMALL. MEDIUM AND LARGE COMPANIES RUNNING IN OUR MEXICO DATA CENTER.
- WE ARE WORKING TO MIGRATE OUR CADASTRE SOLUTION TO OFFER SMALL. MEDIUM OR LARGE MUNICIPALITIES THE BEST GIS PLATAFORM TO ADMINISTRATE THE PROPERTIES AND INCREASE THE TAX COLLECTION AT LOW COST.
- ALSO WE ARE GOING TO OFFER REMOTE SENSE AND GIS PROCESS TO FIND DIFERENCE BETWEEN ONE YEAR VERSUS LAST YEAR GROWING AND UPDATING THE CADASTRAL REGISTER OF THE MUNICIPALITIES
- FACILITATE THE CREATION OF DIGITAL TWINS IN CADASTRE TO PROMOTE SMART CITY SOLUTIONS
- WORKSHOP ON LINE FOR CADASTRE AND SMART CITY

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# Thank You!

**GISTC**  
空间智能 因融至慧

**2023地理信息软件技术大会**  
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