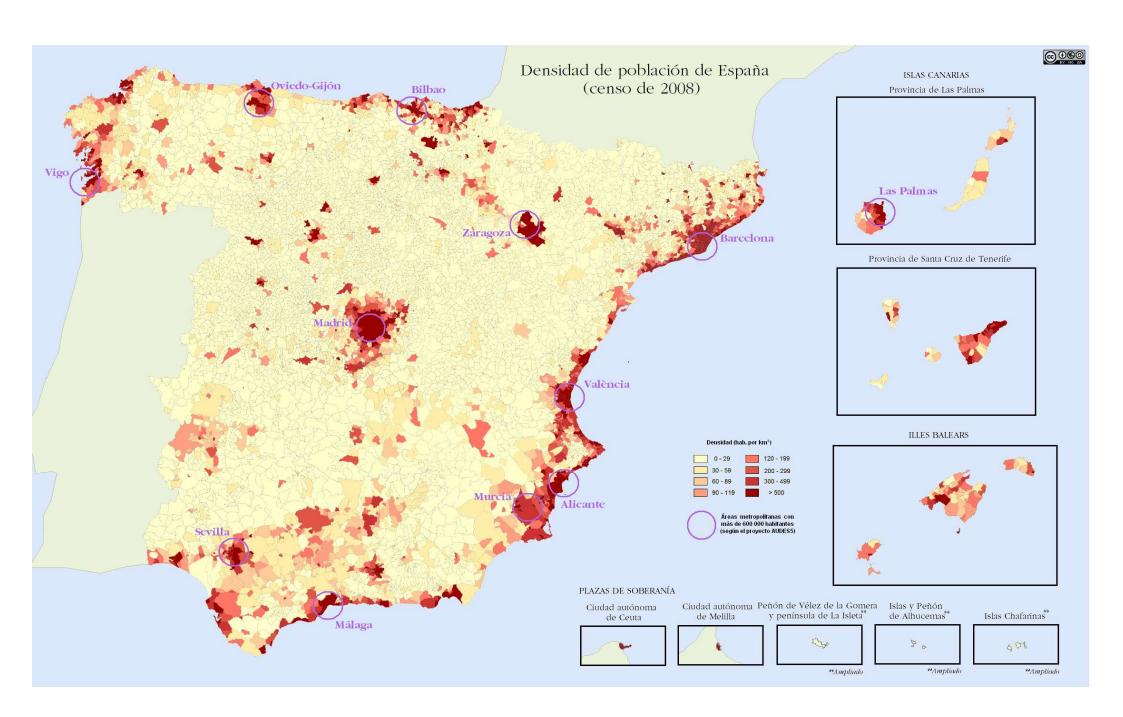
URBAN LANDSCAPES



WHY BARCELONA?

- 1. Continuous urban evolution since its foundation in Roman times until today.
 - Population increase due to immigration from other parts of Spain.
 - Celebration of diverse economic, cultural and sporting events: Universal Exhibition of 1888, ..., Olympic Games of 1992.
- 2. Model for the development of other Spanish cities (Urban Plans, eg.) → precursor of most of the urban evolution...
 - Plan de Ensanche.
 - Plan de Enlaces (1903) to absorb municipios limítrofes.
 - Today, a "Barcelona Model" of urbanism → one of the most cutting-edge
 European cities and a guide for many cities (worldwide)
 - Design and innovation, linking urbanism with ecological values and sustainability.
 - Recognized with numerous awards and distinctions.
 - Prince of Wales Award for Urban Planning from Harvard University (1990)
 - Gold Medal of the Royal Institute of British Architects (RIBA) en 1999.

THE BEGINNINGS: THE PRERROMAN CITY

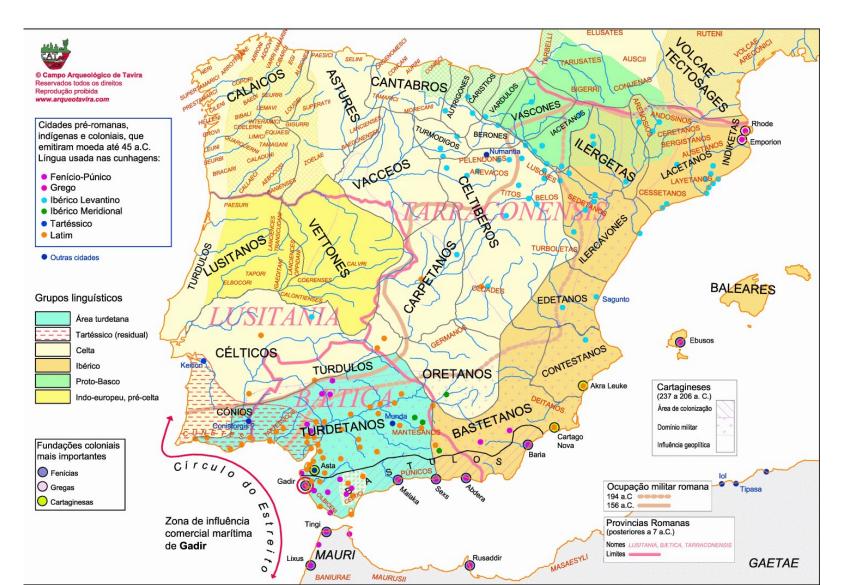
The Pre-roman Iberian was organized into

Coastal areas (colonial process):

- Greeks in the Catalan coast.
- Phoenicians → south and southeast + Ibiza.

Interior areas:

- Iberian area: S and E (mediterranean cultures).
 - the Indo-European "celtic" culture.



The colonial "cities"

COLONIAL CITIES





COLONIAL CITIES

EMPORION (Ampurias)



The indigenous "cities"

DEFENSIVE LOCATIONS (oppidum)

- Small settlements

- On hills, closed to rivers

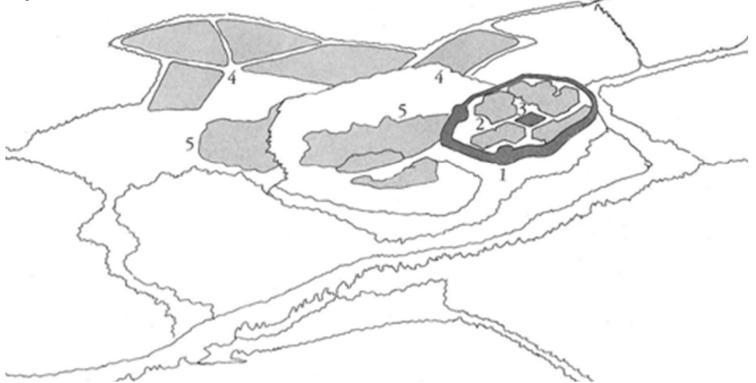
- Protected by walls

Why fortifications?→
Varrior and war-lords society (iron swords

 Warrior and war-lords society (iron swords and armors).

 frequent wars against other opppida, mainly in times of hunger, in order to steal crops and

livestock.

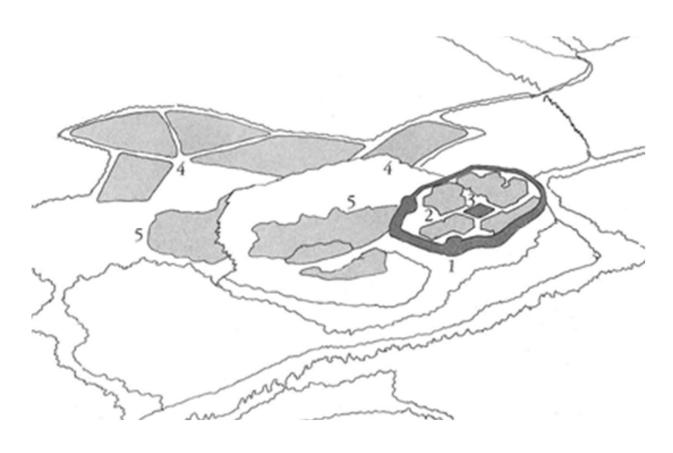


Living under these conditions was uncomfortable.

- Carry water and firewood
- Every night it was necessary to contain the livestock after the wall.
- Permanent surveillance of the surroundings, specially during conflicts (alarm if necessary)

ECONOMY Inhabitants devoted themselves to

- Agriculture (growing cereals) + raising livestock.
- Worked bronze and iron, manufactured ceramic vases and wove wool and flax.
- Keeping up an active trade in those products.



SUBSISTENCE

Continous <u>cleaning of forest</u> to obtain new land (not payments nor rotation)

To obtain new fields <u>forest is set on</u> <u>fire</u>, then the roots were pulled up and successive plow works

Abandoning lands after several crops and searching for new land, progressively far away from the town → new settlements

Agriculture → Crop fields (4).

Olive groves and vineyards (5)→ by influence of Mediterranean colonial powers (Greeks and Phoenicians) → periodical commercial contacts → first importing vine and the olive tree for wine and oil.

Shepherding →
Goats and sheep.
Oxen (working land).
Horses for warriors.

HOUSING

- Material: stone and masonry.
- Model:

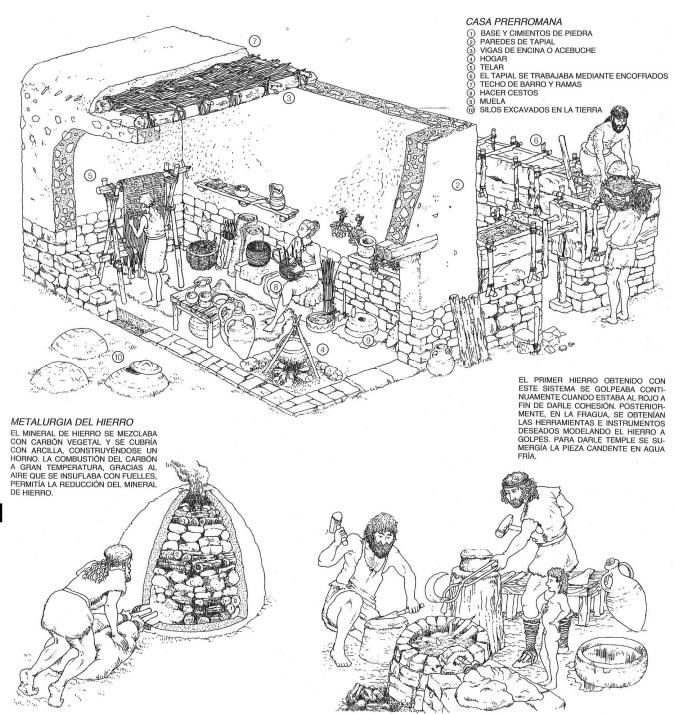
3 m width oak beams, roof made of clay with straw or bush lattices, with an opening to facilitate smoke extraction. Usually one floor, sometimes two floors.

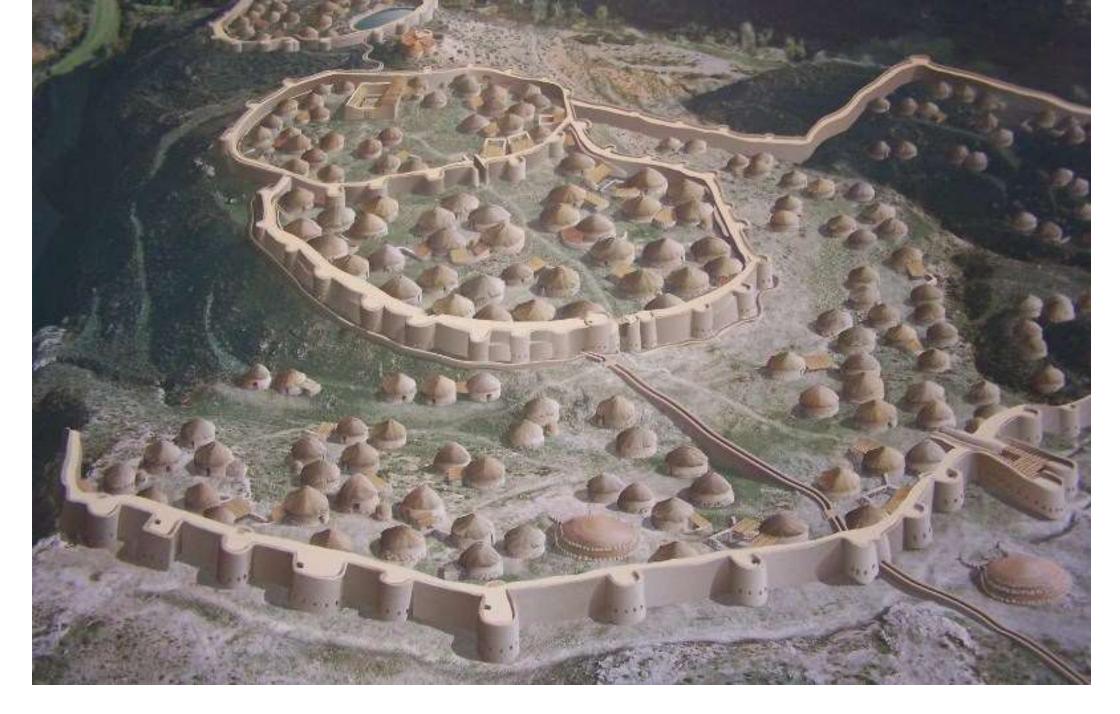
Silos

- Conservation of crop (cereal)
- Dug into the earth, covered by clay→ as grain was needed they opened it up.

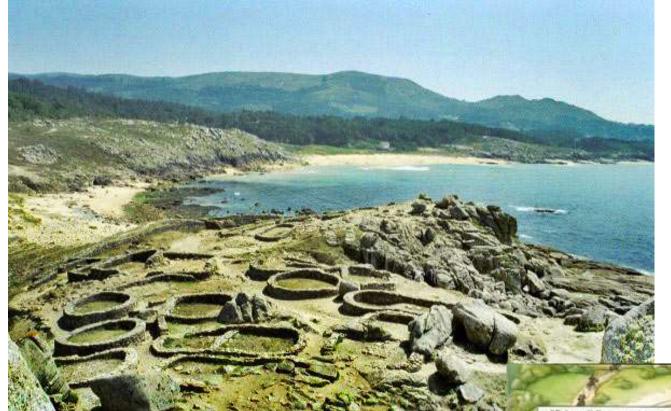
Cisterns

- to preserve water.

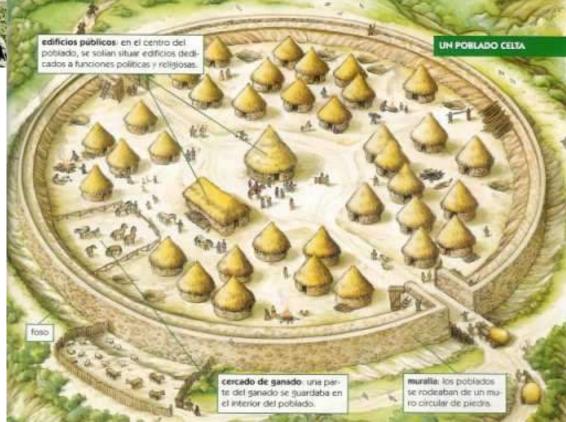




LOS MILLARES (2500 - 1800 a. d. C.):



CASTROS



- 1. Neolithic settlements (mines at Gavà) supporting a relatively dense population (18 settlements).
- 2. Speculation about an **Iberian settlement** close to Montjuïc called Laie (hence the name Laietani):
 - Strabo's vol III → "...Laietani lived at Barcelona's plain, the Maresme as far as the mouth of the Tordera River and a part of the Vallès.
 - Who were the Iberians? → Indigenous people → not a homogeneous group, but rather several ¿ethnic? groups sharing a common culture and language.
- Arqueological hypothesis: a twin city → one Iberian and another Roman for some time, the first falling into decay, the latter prospering.

The plain of Barcelona:

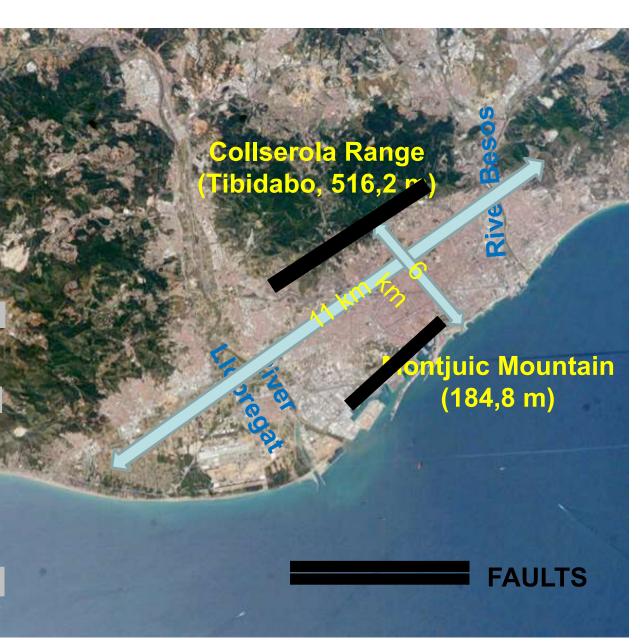
Not uniform topography →

a ramp sloping from the Collserola mountain range to the sea (11 x 6 km).

Undulated by **small streams** grouped intro three sectors

- o riera de Horta in the area near the river Besós (Levante area).
- riera Blanca and the Gornal torrent in the Llobregat area (Poniente area);
- a set of streams from the southern slope of Tibidabo in the central area: Rieras of San Gervasio, Vallcarca, Magòria and Collserola.

The terrain is formed by a substrate of slate and granite, as well as clays and calcareous



- The coast was formerly occupied by marshes and lagoons.
- 2. Disappeared as the coastline advanced thanks to the sediments contributed by the rivers and torrents that flowed into the sea.
- 3. It is estimated that from the sixth century BC. C. the coastline has been able to advance about 5 km.



CLIMATE

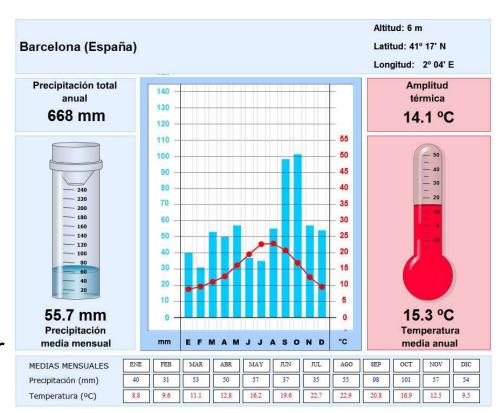
Mediterranean (Csa).

Temperature:

- ✓ Ranges between 9.5°C and 24.3°C, on average.
- ✓ Mild winters (sheltered from the north winds –mistral- by the mountains).
- ✓ Hot and sultry summers.

o Precipitation:

- ✓ Moderate 600 mm anuales) but irregular from year to year.
- ✓ Maximum in early autumn ("torrential precipitation → gota fría).
- ✓ Effective precipitation less than actual precipitation → water shortages → in the past, numerous works had to be done to supply water to the city, including wells, canals and ditches.



THE BEGINNINGS: THE ROMAN CITY

ROMAN SETTLEMENTS

Usually, on previous indigenous settlements

- As strategic points, to control the territory.
- Lately, to guarantee the **progressive colonization and exploitation** of the territory.

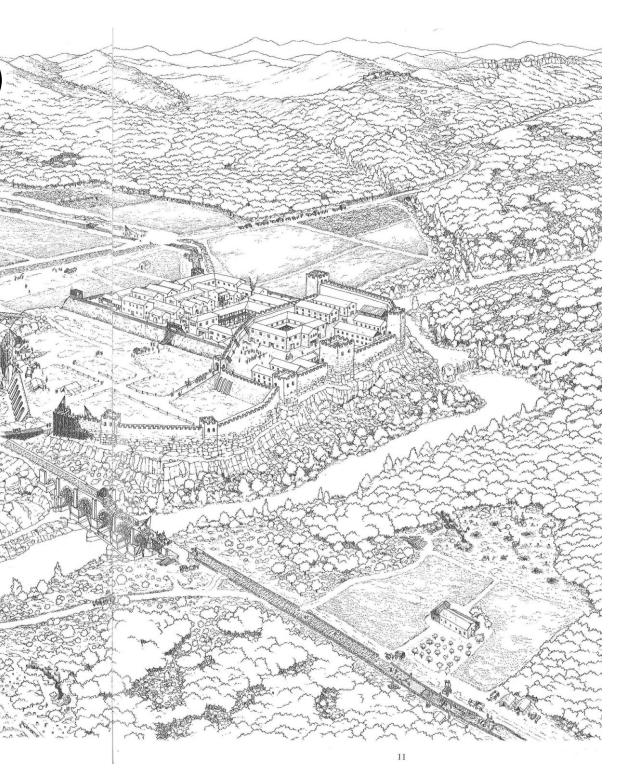


A ROMAN SETTLEMENT (colony)

Careful planning → construction according to a previous study of needs and possibilities of the territory.

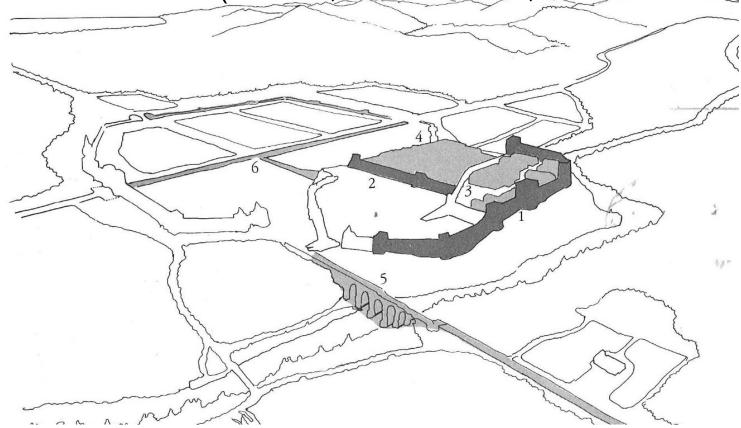
Process

- Legionaries and slaves cut forests, building bridges and roadways.
- Surveyors and engineers:
 - Traced the perimeter of the city and the urban layout (main streets)
 - Highlighted and solved the main urbanistic problems (food and water evacuation).



A ROMAN SETTLEMENT (initial phase)

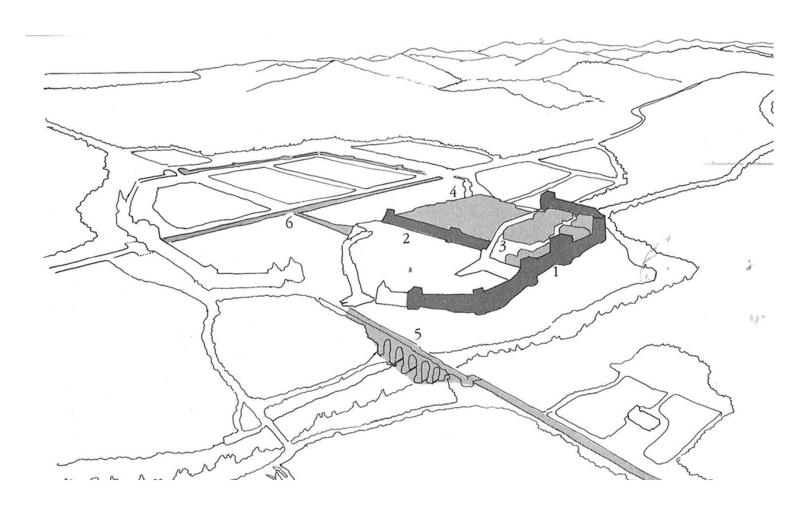
- A legionary camp (León = Legio VII Gémina)
 - ✓ Initially surrounded by a wooden barrier and a protection gutter (2).
 - ✓ Campaign stores
- Bunkhouses and sheds (soldiers, war machines, horses and livestock, 3).



Improving of the walls $(1) \rightarrow$

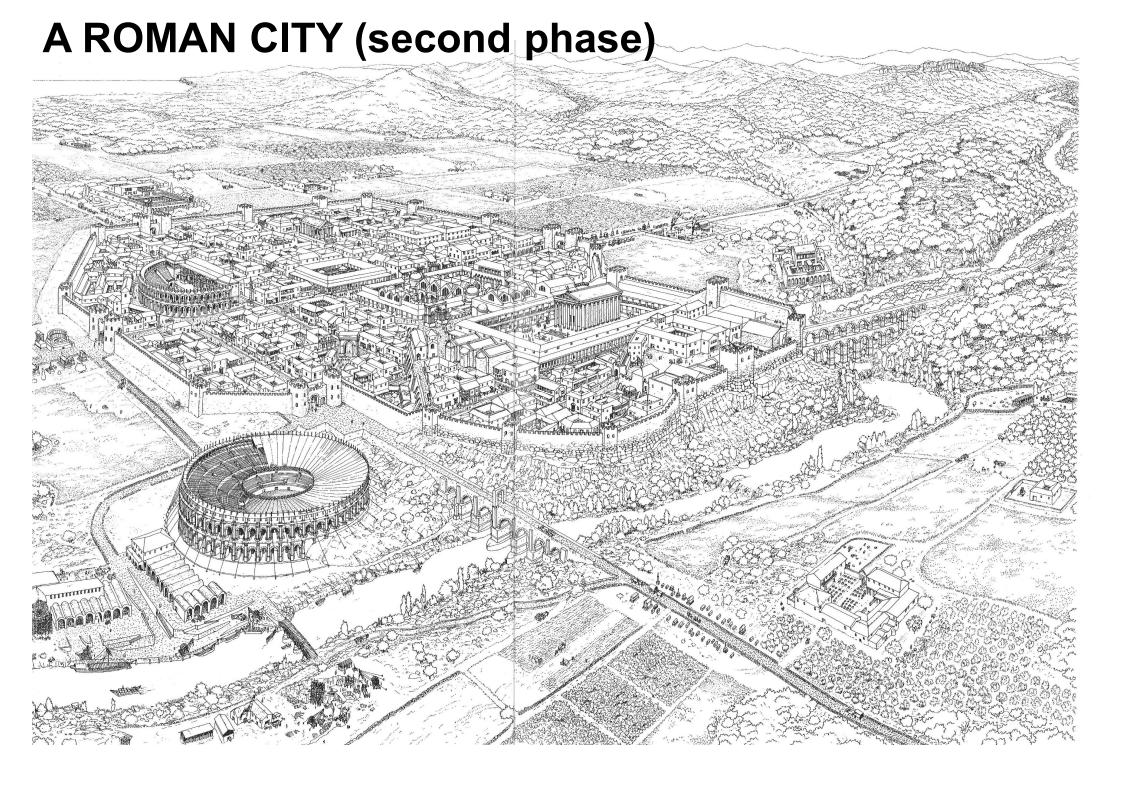
- Base: large enormous stone blocks, sustained by their own weight.
- Upper: arrays of little stones mixed by cement (mixture of lime, sand and it dilutes).

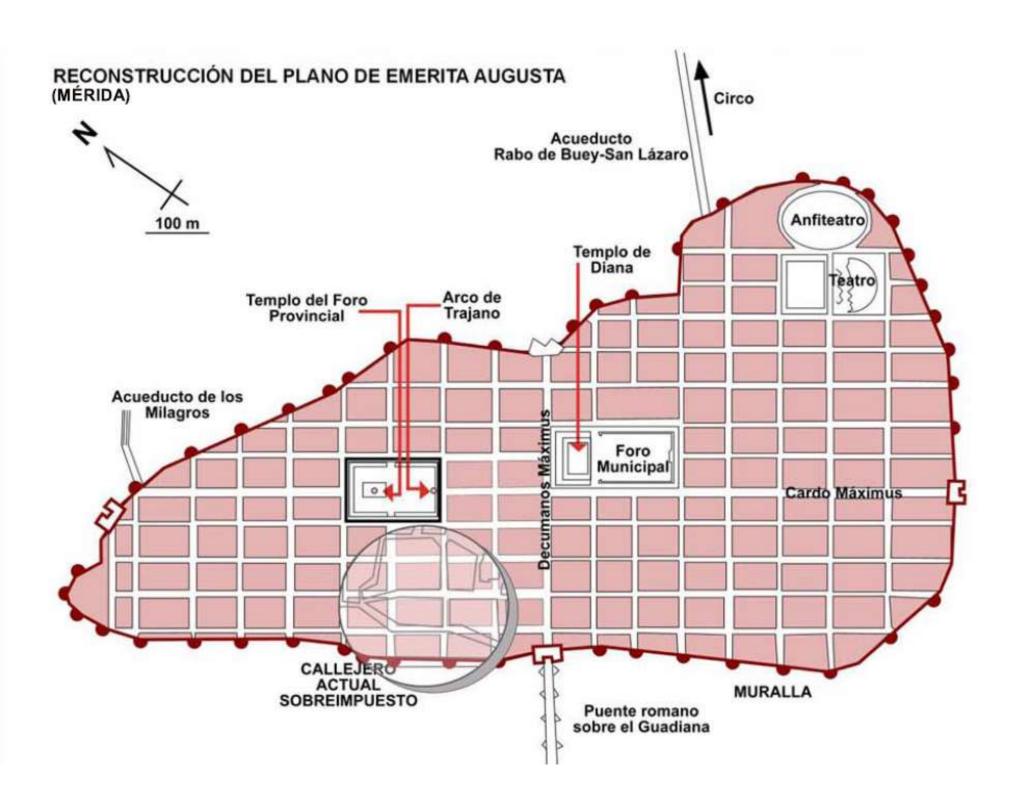
A ROMAN SETTLEMENT (initial phase)

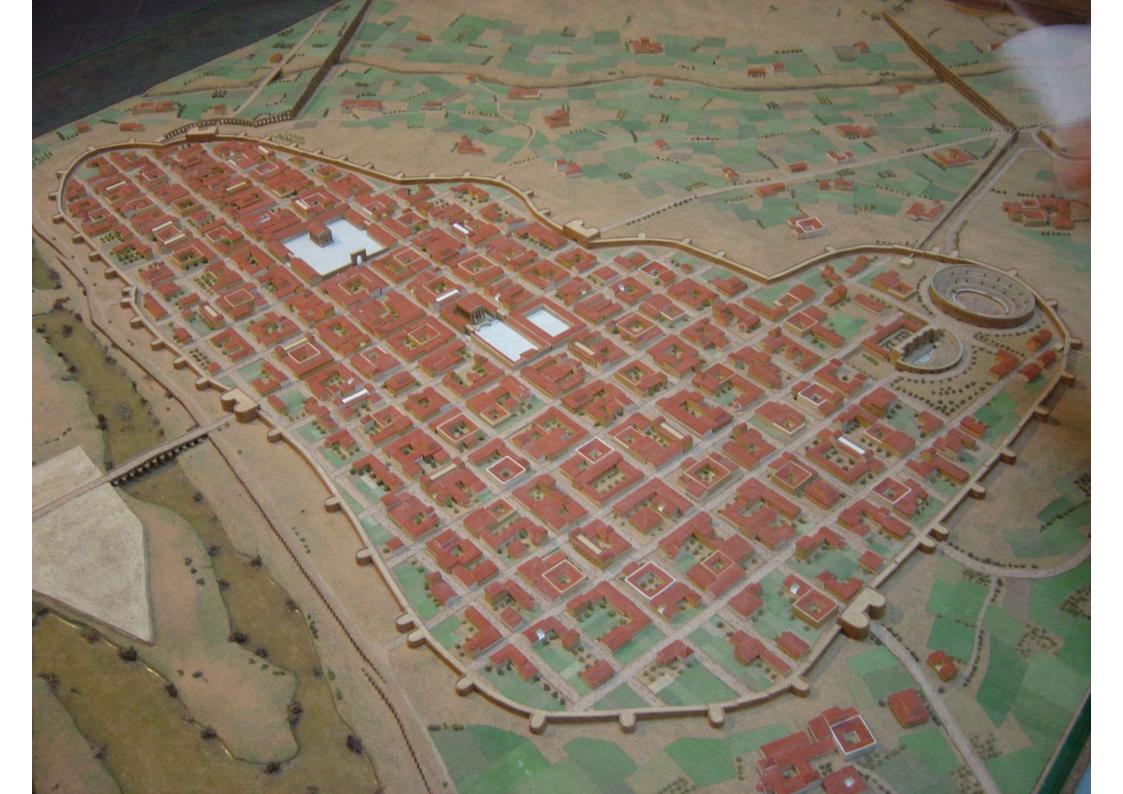


Vicus:

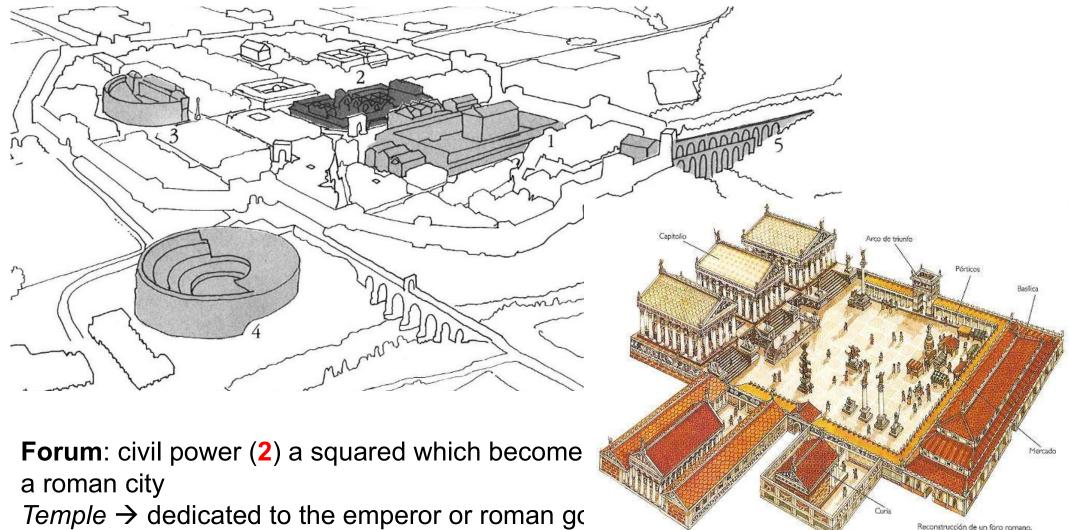
- Vicinity of the permanent camps.
- Small towns where some soldier's families resided as well as merchants and business men (bathrooms and taverns for the soldiers' leisure) 6







Military power: Prefecto del Pretorio (military governor) and officials related with the imperial services (1).



Temple → dedicated to the emperor or roman go (sincretism).

Basilica → Justice

Curia → Local political power

Offices for local administration.

Luxurious mansions ("potentates")

Important buildings and public spaces

where Plaça - one brought water from the Collserola mines (running along Carrer dels Arcs) other from River (running along

entered the city

Nova now

Besòs, near

Montcada

Carrer dels

Capellans)

stands:

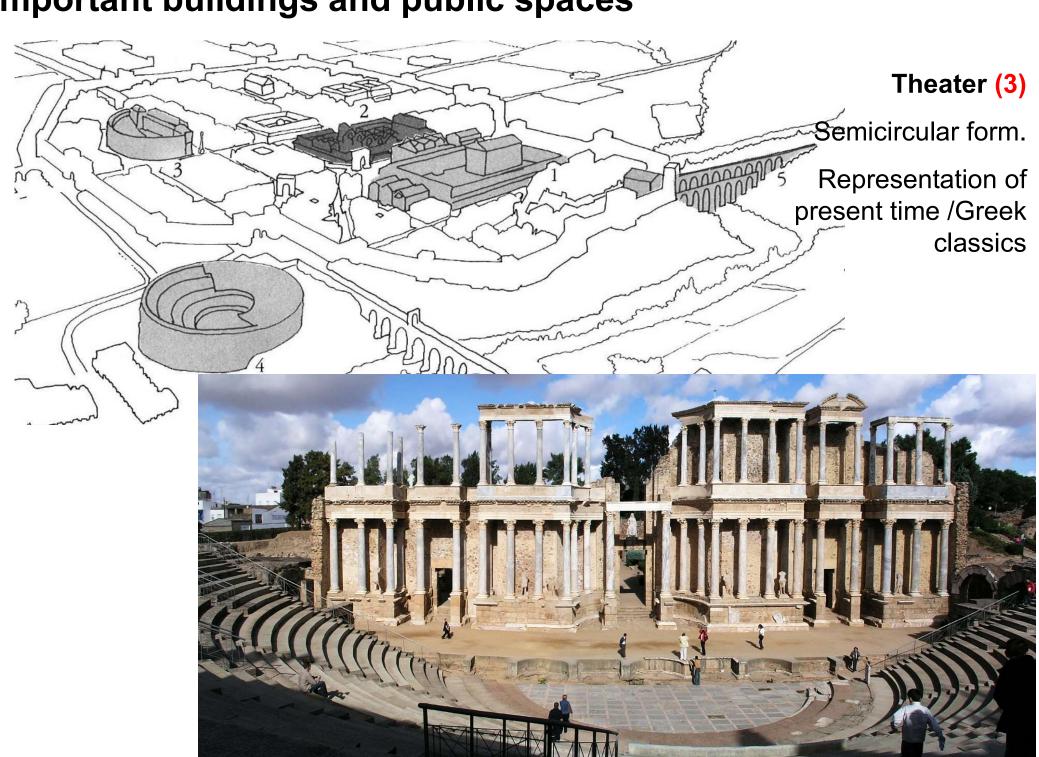
The aqueduct (5)

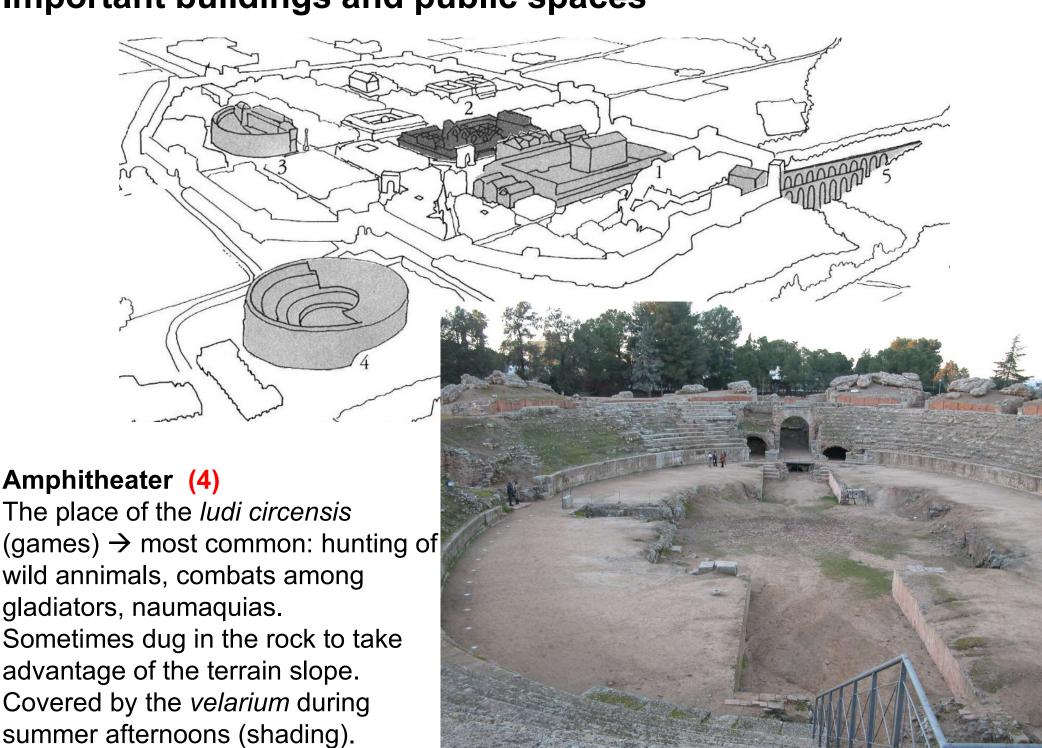
For urban water supply. Capture of water from springs or rivers at higher height. Channeling the water using gravity up to a water castle. Distribution within the city by means of canalizations or pipes.

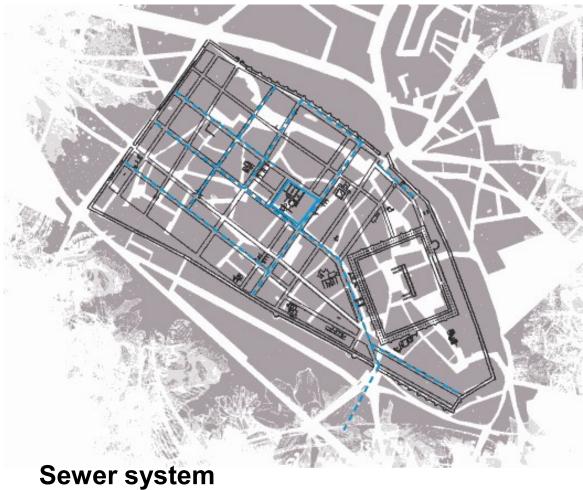
Baths

- 1. Importance of the corporal hygiene: hot (caldarium), cold (frigidarium) and temperate (tepidarium) bathrooms.
- 2. A place for socializing: chatting, gymnastics, massage services or even library.









Evacuation of dirty waters and residuals

Blue: roman sewers currently in use

Black: roman city

Grey: modern city



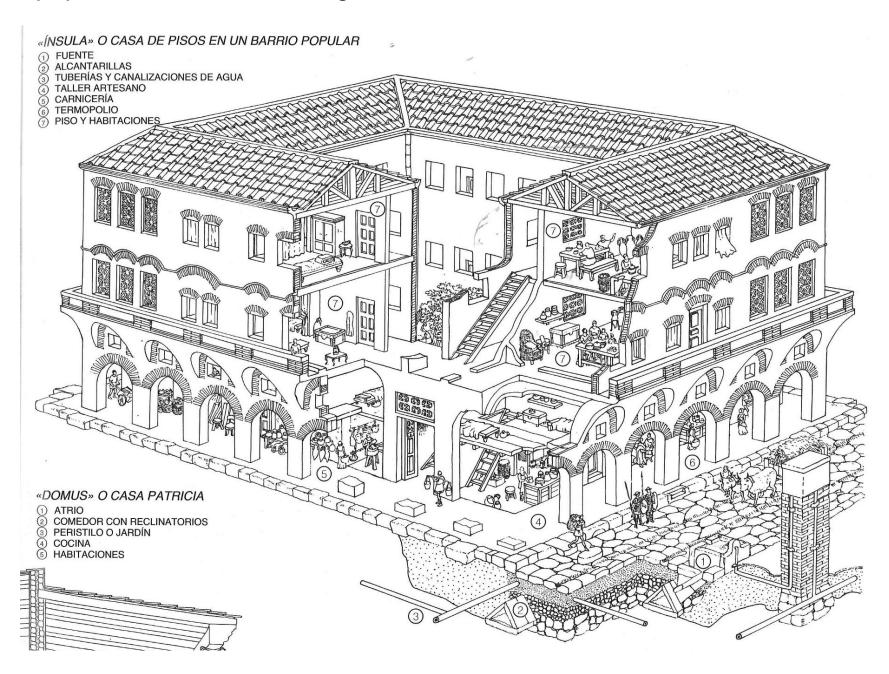
Ports

Needed for trading (Mediterranean) → wine, oil, ceramic and manufactured products.

Garum → Mons Testucci (Rome)



Insulae: popular residential buildings, with several floors



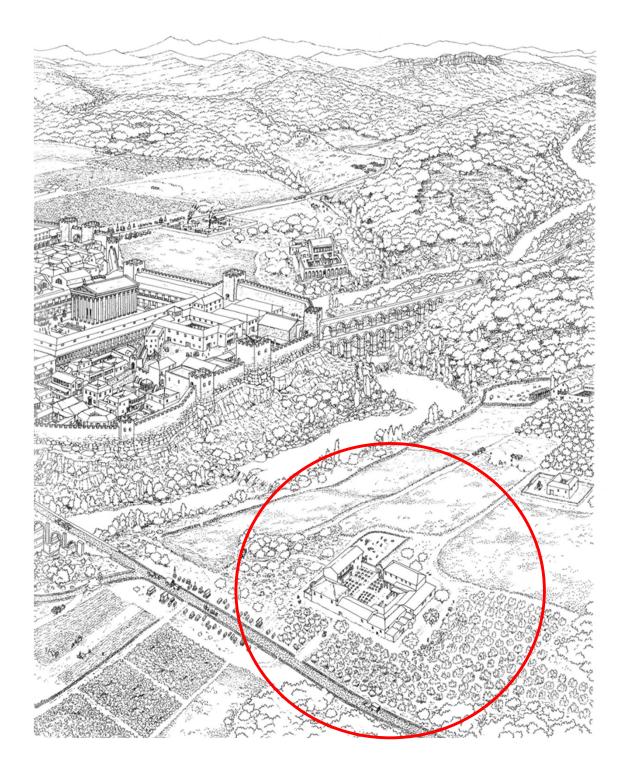
Villae

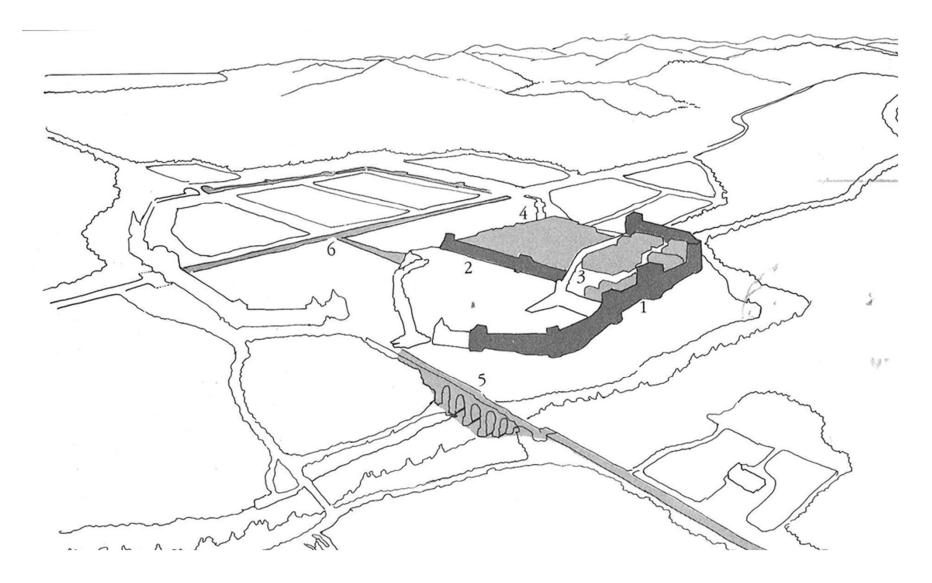
In the proximities of the city

Dedicated to agricultural production

Parcelation by means of <u>centuriaciones</u> → large square field lots







Bridges and roads

Purposes:

- 1. Link the neuralgic centers of the empire: faster displacement of the legions, trading, natural resources exploitation.
- 2. Propagandistic effect: force and power of Rome (5).



CONSTRUCCIÓN DE UNA CALZADA PAVIMENTUM NUCLEUS RUDUS STATUMEN 6 PIEDRA MILLAR 6 AGRIMENSORES UTILIZANDO LA GROMA EN EL DISEÑO DE LA CALZADA









Miliario

(from Latin miliarium)
Cylindrical or oval column
Between 2 and 4 m height
Diameter 50- 80 cm.

Placed in the border of Roman roadways

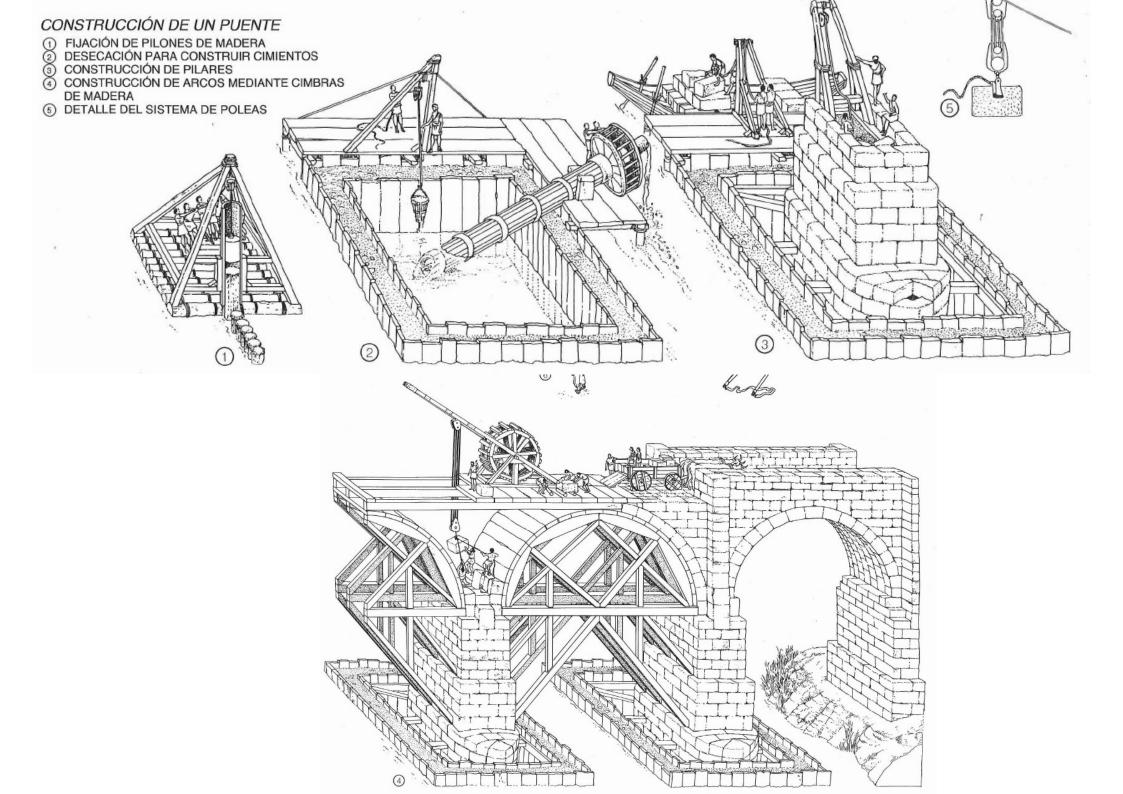
To point out distances each a thousand "passus" or each roman mile (1.481 meters).



Puente de Alcántara

Built in honor to emperor Trajano (born in Hispania) using the taxes of seven lusitanian villages

Roadway (Vía de la Plata) from Norba Caesarina (Cáceres, Spain) to Conimbriga (Condeixa-to-Velha, Portugal)+



Colonia Julia Augusta Faventia Paterna Barcino

- Founded by emperor Augustus around 10 BC as part of a restructuring plan for the north-eastern part of the peninsula, designed by Agrippa after the Cantabrian Wars (19 BC).
- Status of <u>colony</u> in the Hispania Citerior → by *deductio*, Roman citizens and veterans of the Cantabrian Wars settled.
- Important presence of freemen (libertos).

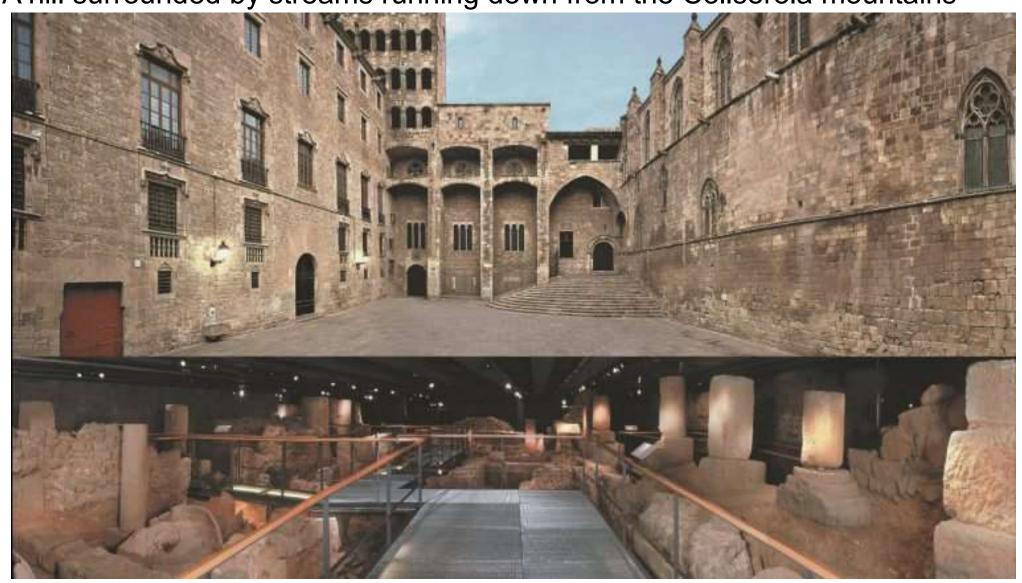
Reasons:

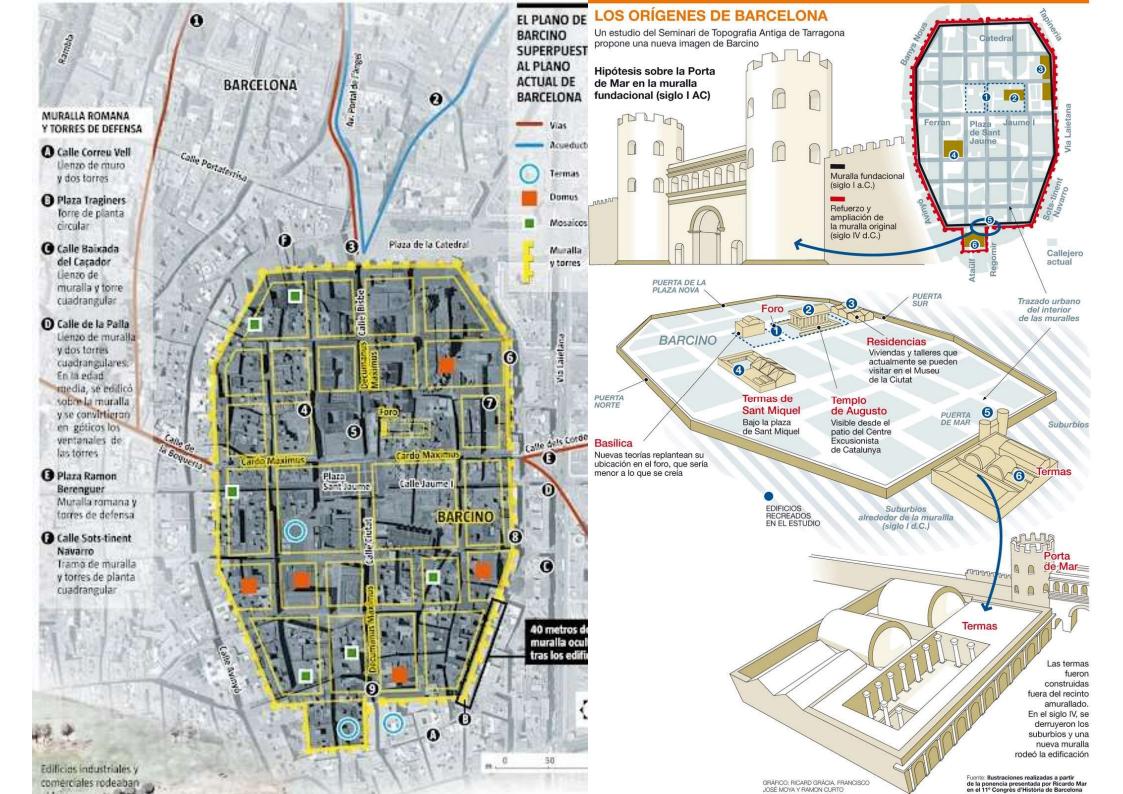
- ✓ Political control → Strategic area → good communications with the interior, coastal trade between two major cities (Empúries and Tarraco).
- ✓ Defensive lookout → 12 m promontory, later known in the Middle Ages as Mons Taber
- ✓ Very productive area: coastal fertile strip, mineral resources and abundant sea food.

Mons Taber

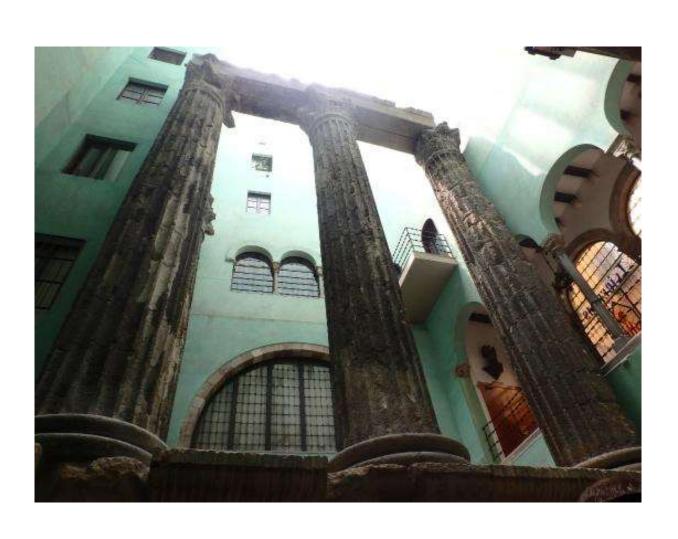
The shape of the hill and its height decided the characteristic regular layout of Roman Barcelona.

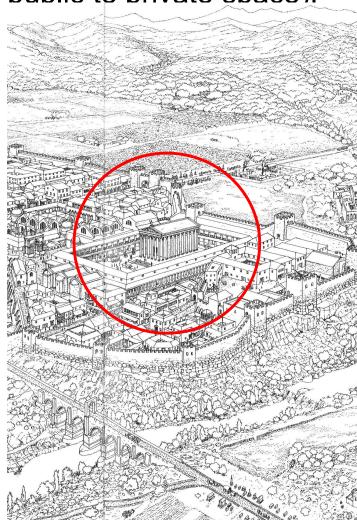
A hill surrounded by streams running down from the Collserola mountains

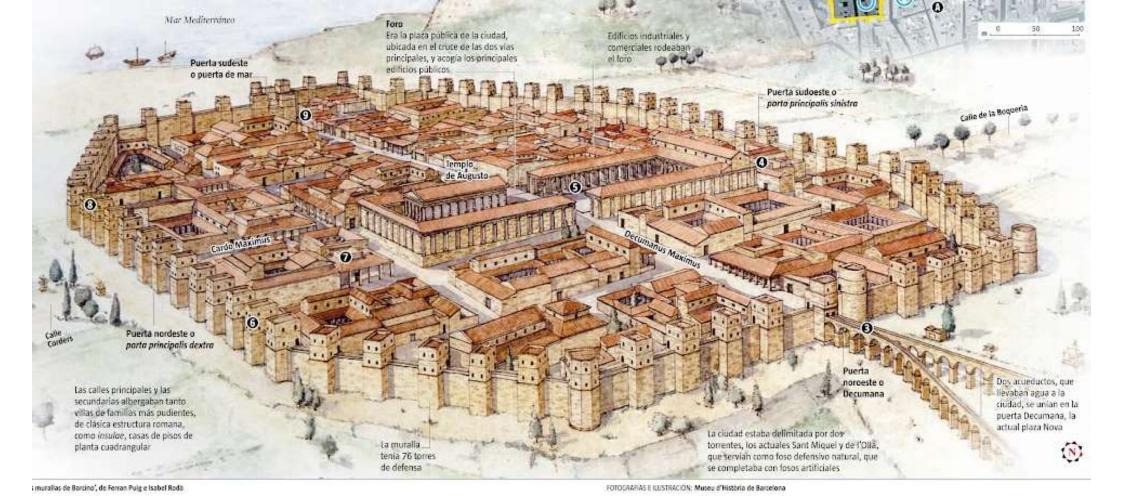




Granted its own administrative and government structure modelled on Rome → Small initially fortified (44 AD Pomponius Mela) administrative and religious center (street layout, presence of a state religious temple and the proportion of public to private space).







The forum → cardus and decumanus maximi, today under Carrer Llibreteria-Call and Carrer Bisbe-Regomir).

Other important buildings there, but nothing remains.

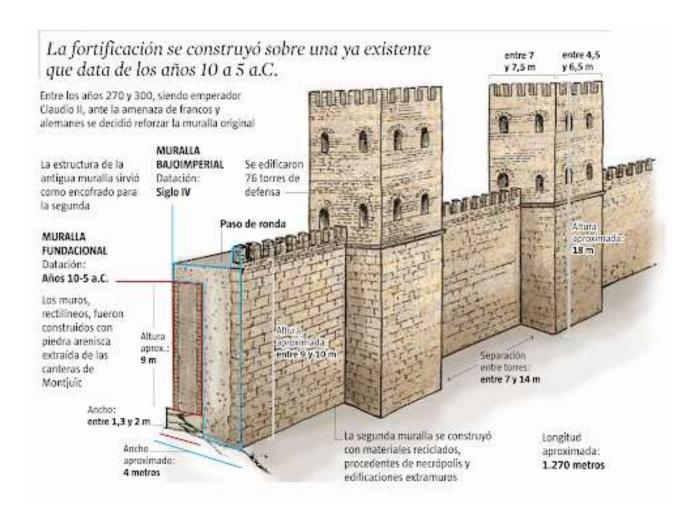
Not a big city (around 13 hectares and 2000 inhabitants), including those in the suburban **villas** near the walls (found on Avinguda/Avenida de Francesc Cambó).

Roman walls

Barcino was walled.

1. A first city wall:

- Built in the first century BC.
- Very simple: towers only at the angles and at the gates.



2. A second wall:

- Built on the foundations of the first wall, later extended in the IV century.
- Why? → instability related to the Great Crisis of the 3rd century (incursions of Franks and Alamanni from the 250s).
- More complex:
 - Perimeter of 1.5 km, which protected a space of 10.4 ha
 - Double wall of 2 meters, with space in the middle filled with stone and mortar.
 - 74 towers about 18 meters high, most of them rectangular base.



Roman walls

Palacio del Obispo, Plaza Nueva





Roman necropolis (cemetery)

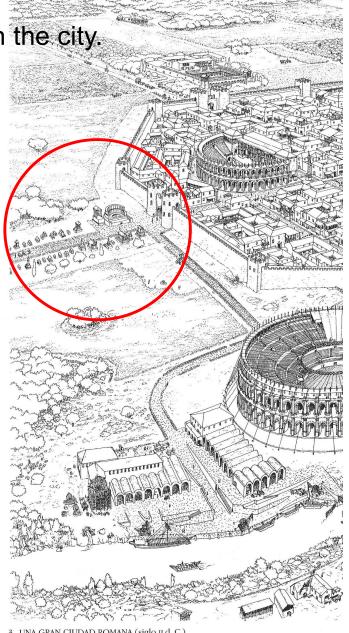
 Outside the walls, close to the city gates → along Via Augusta (Plaça de l'Àngel and Carrer de la Boqueria).

Why outside the city: roman law prohibited burials within the city.

Burial site for people of low social standing.



Plaza Villa de Madrid (from the end of the 2nd century AD to the beginning of the 3rd century AD),



Roman necropolis (cemetery)

85 graves of different types have been identified:

- six monolithic cupae,
- o six aras,
- o a stele,
- two slabs with inscription,
- thirty-three burial mounds (two of them conical and the rest quadrangular or cupae of work),
- seventeen burials protected with tiles and amphorae
- twenty burials without remains of protections.

Discovered in 1956, several excavation campaigns after that (the current museum opened in 2008).

Why it's exceptional:

- Very good state of conservation → the tombs were found in their original place (most roman graves are known as fragments reused in other works.
- The reason? → Shortly after the necropolis ceased to be used, it was covered with alluvial deposits from torrents.

Roman aqueduct (water supply)

Older than the first wall of Barcelona.

Would supply water from the Besós River → considered
 the first public work of Barcino.

the first public work of Barcino.

- 1. Rediscovered in 1988, after being hidden behind subsequent buildings.
- 2. Four arches in the wall of an 18th-century building (Plaça del Vuit de Març)

http://www.bcn.cat/historia/pag/capitols/cap_01/en/capitol_01.htm