

Principles of Urban Planning and Urbanism

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Planning the Ancient City

Planning the Medieval City

Planning the Absolutist City

Fighting the Evils of the Early Industrial City

Urban Engineering and Urban Design

Readings

Rome

- Ancient Rome was the first mega city, estimated at 1 million people. Although it wasn't extremely technologically advanced, its success (in terms of population, and power I guess) is in part due to its urban infrastructure and developments
- It was an extremely unequal society
- Rome had features we recognise in modern cities: dense living spaces with (abusive) landlords, courts, theatres, basilicas, large gathering spaces (colosseum), forums, sewage systems,...
- Housing conditions
 - Apartments were a hazard, because they were made of wood and were prone to fires. Rome had 'vigils' who were firemen and looked out for fires. Some kind of red clay bricks were banned because they were not sturdy enough building materials
 - Richer households had more luxurious houses, but the comforts were still limited (eg. most lacked running water). Rich people purchased agricultural land outside the (western side?) of the city, which limited sprawl because the fields were in the way
- Shops and baths
 - Baths were incredibly noisy place and a "social necessity" (p. 631), and emphasised the importance of a water system. Aqueducts were built to serve them. Baths started as privately run places, then came enterprises, and then came public baths
 - The streets were super narrow (2.9m wide), and always congested. Some streets were pedestrian only, and the rich travelled in cushioned chairs (sedan chairs) carried by men
 - Days were divided into 12 hours: first hour at sunrise, midday when sun was highest, and last hour at sunset. Thus hours were longer during the summer, and shorter during the night

- Two main and complex challenges for Rome: to feed and water its large population. It managed to do both, even though it might not have been done the most efficiently
- Water
 - Aqueducts were built to supply the city with water, supplying up to 1 billion litres of high quality water daily. Distribution is estimated to have been: 26% for the emperor's service area, 32% public use, 44% private use. They were expensive to build and run, and a team of people were appointed to keep them running and maintained
 - Households used 60 times more water then, than today's standards, which was attributed mostly to the baths. Overflow water from public fountains was used to clean the streets, beneficial because there was no sewage system, and fountains also served to cool the city in the hot summers
- Funding
 - Aqueducts were expensive and land had to be bought, and mostly funded through war booty (Rome fought many wars, in Europe, North Africa, Asia...), also through selling land
- Sewers
 - People emptied their chamber pots outside, and thus residential areas didn't smell nice. The city relied on the heavy inflow of water through the aqueducts to dilute the sewage enough that it wouldn't be a problem when it arrived in the rivers/sea
- Health
 - Average life expectancy was 27, infant mortality rates were 20%, and there was a class difference in life expectancy: the poor lived 20, the rich 30, mostly because the poor didn't have enough to eat, and the living conditions spread diseases (cholera, plague, malaria...)
- Food
 - Rome wasn't abundant in food, and didn't drain food products from the surrounding regions as can be seen with urbanisation trends in North Africa, for example (p. 649). It took a long time to travel (either by foot, or with ox or mule carriages) and thus food must have come from a 20-40 mile radius
 - Rome had colonies who produced grain, three quarters of the grain consumption must have come from outside of the city vicinity, usually by river and sea from other (today Italian) regions and countries, from public (imperial) and private merchants
 - Food was sold predominantly at the markets. The poor didn't have storage space, thus had to depend on small shops in the city, who probably got their stocks on the market
 - Daily food doles: free and rationed food (like corn) given to the masses by the emperor, to ensure good order; free pork for 150 days a year; child rations → a socialist system, and an unequal society?
- Administration, public order
 - The emperor and the rich needed to keep poor people, the plebs, content, if they didn't want them to revolt. This included policing

- Senators administrated Rome, and delegated the administrative tasks that kept public services running, managed the treasury, planned public works...
 - When the city became too large to effectively rule by one body, it was divided in 14 boroughs
 - The taxation system financed doles, games, public services, with money from the wealthier populations
- Rome ended when the capital was moved to Constantinople. Interestingly, Rome didn't have many technological innovations, but perhaps this is due to its large pool of slave labour

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