

Draft the steps of work you would perform.



Effects of urbanisation on soil loss and water cycle WORKSHEET 1

Think about your province/region/municipality.
Do you know how big is it (km²)?
Can you give an estimate of the urbanized surface (km² or %)?
How much is the forested area (km² or %)?
Do you think that have been changes in the last century? In which areas?
How would you calculate the soil loss due to urbanization using two land cover maps, one old and one recent?





Effects of urbanisation on soil loss and water cycle WORKSHEET 2

How many land cover classes did you find in your region/province/municipality?
How much surface was covered by forests from the oldest land cover map
(year)?
How much surface has been urbanized?
Has the forested surface increased or decreased? How much?
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Has the urbanized surface increased or decreased? How much?
List as many as possible negative or positive effects of urbanization on soils. Then, make some reflections.

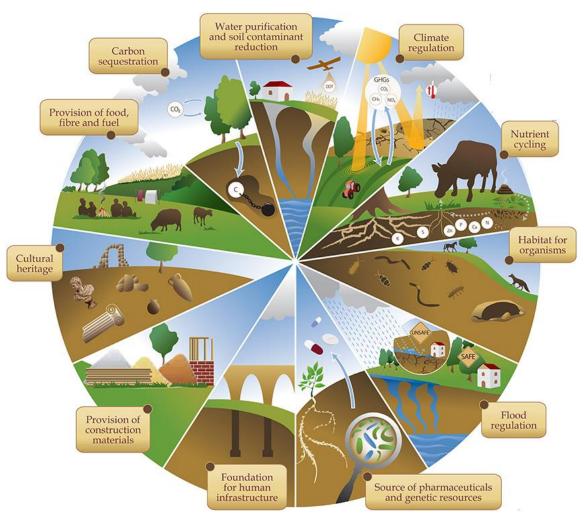




EFFECTS ON THE WATER CYCLE

In case of a storm, raining 100 mm in a few hours on a neighbourhood of 2 hectares with
a green playground area of 1000 m², how much rain would go directly in the drainage
system assuming that the playground can absorb/infiltrate it all?

Which of the represented soil services to ecosystem are affected by urbanization in your area?



Source: https://www.frontiersin.org/articles/10.3389/fenvs.2016.00041/full