

Comenius Project

Class IB A.F.M.

# WATER



Water can't be considered an inexhaustible good as the speed with which it is "consumed" is far superior to that with which it becomes available

Water is only apparently a renewable resource, and since it is essential to life on the planet it must be handled with extreme caution



The "quality" of water influence drastically the possibilities of human use, while its geological role and its geochemical characteristics make it vulnerable

# HOW MUCH WATER DO THE ITALIANS DRINK?

Water consumption per capita in Italy is: 267 l per day

The average European consumption is 150 l per day

At a global level we are ... «bronze medal»... ahead of us  
only the USA and Canada

The most wasteful region is :                      The north –west with 323 l

Followed by...

Centre with 275 l

Nord-Est with 268 l

South with 214 l

Islands with 235 l



# HIT PARADE OF CONSUMPTION

## REGIONS

Liguria... 373 litres/day/person



## CITIES

Latina... 692 litres/day/person

Frosinone... 641 litres/day/person

Bari... 434 litres/day/person

# HIT PARADE OF SAVINGS

## REGIONS

Puglia... 157 litres/day/person



## CITIES

Ascoli Piceno... 127 litres/day/person

Palermo... 139 litres/day/person

Oristano... 141 litres/day/person



# From the source to the tap

150 billion cubic meters of annual water picked up  
Or 2700 cubic meters pro capite for year



That come from :

503 surface water bodies (20%)

1656 wells (38%) and sources(42%)





# Where does the water of the city come from?

MILAN - 100% from groundwater with more than 350 wells.



TURIN - 70% from groundwater with 290 wells.  
20% from the river PO and 10% from the basin of the Pian della Mussa.

GENUA - 40% artificial basins.  
The remaining 60%  
between streams and wells.

FLORENCE - 95% from the river Arno.  
The remaining 5% from groundwater.





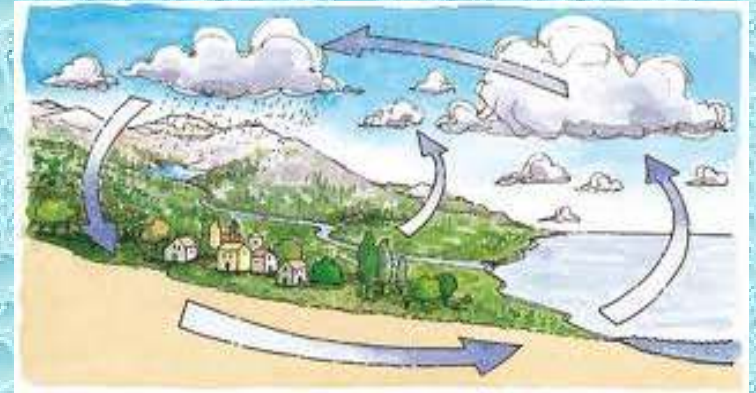
ROME - 80% from sources on Mounts Reatini. The remaining 20% from groundwater of the Nuovo Alessandrino

NAPLES - 80% from reservoirs. The remaining 20% from Fonti of Serino

PALERMO - 60% from 3 reservoirs. 20% from rivers, 10% from groundwater wells



# THE WATER CYCLE



*It is written in the Bible:  
All the rivers run into the sea, and the sea is  
never full*

*“... from which it can be concluded that as the water  
goes  
from the rivers to the sea and from the sea to the rivers,  
constantly circulating and returning, and like all  
the seas and rivers have passed countless  
times from the mouth of Nile ...”*

Leonardo da Vinci

The circulation of water to the Earth surface moves through five large tanks :

- oceans (96.4%)
- glaciers (1.72%)
- underground waters (aquifers+humidity of the ground 1.73%)
  - continental surface water (0.0013%)
  - atmosphere (0.001%)