

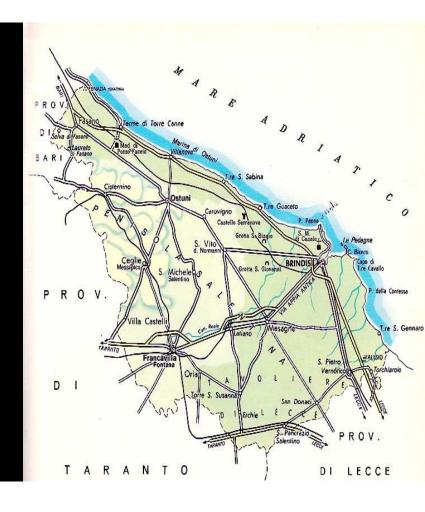


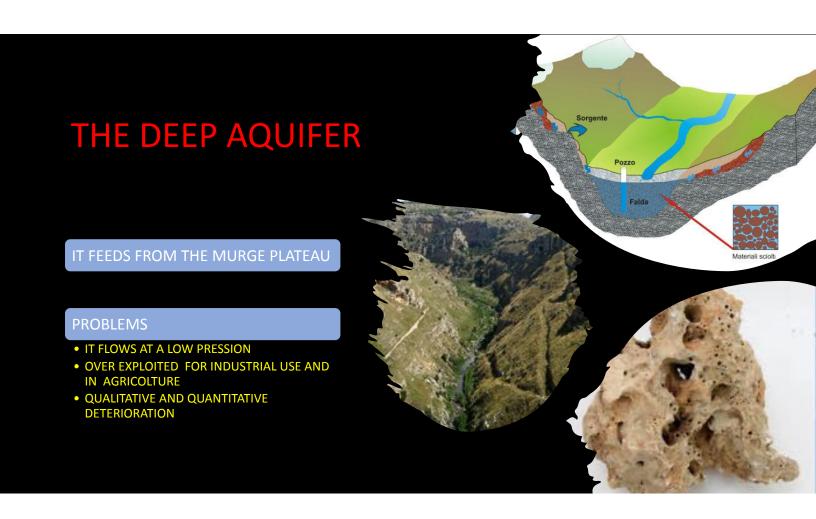
HYDRAGRAPHY OF THE BRINDISI PLAIN AND THE MAIN STREAMS
OF WATER IN THE TERRITORY OF MESAGNE
The danger of deep aquifer contamination
towards desertification?

# THE BRINDISI PLAIN GEOLOGICAL ORIGIN

A DEPRESSION OF THE GROUND THAT EXTENDS UP TO

formed thanks to the progressive lowering of the carbonate base ( the calcium carbonate accumulated by the action of living organisms)







LIMESTONE (zona ovest)

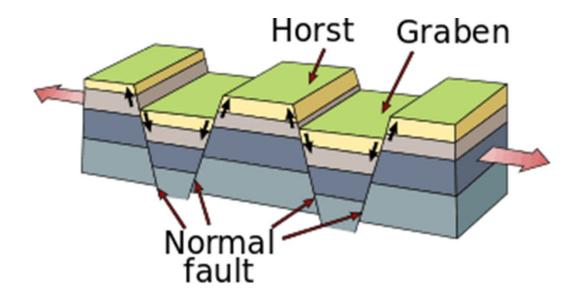
ARGILLE SUBAPPENNINE (territorio centro orientale)

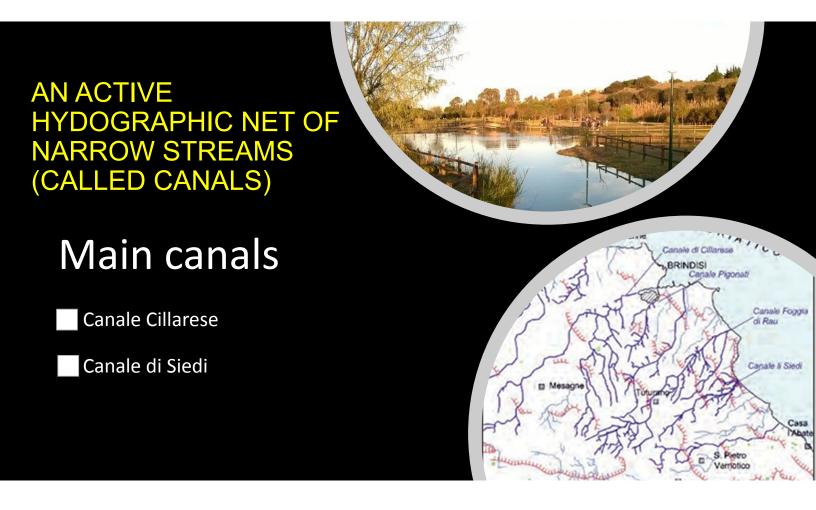
**BIOCALCARENITES** 

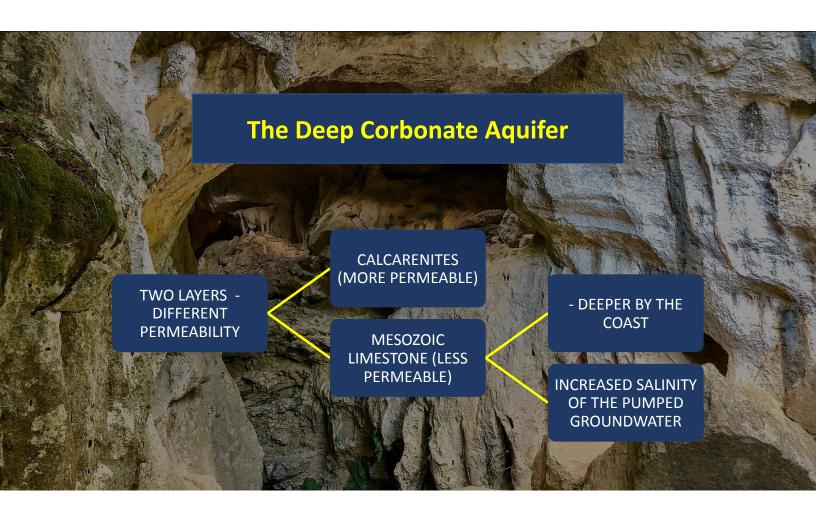
**MARINE TERRACE DEPOSITS** 



### **GEOSTRUCTURAL CHARACTERISTICS**







#### CLEAN WATER IS WHAT WE NEED!

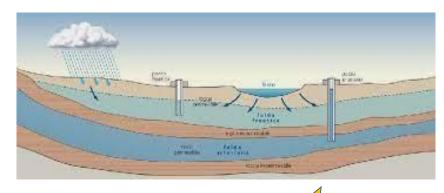
COMMUNICATION BETWEEN THE SUPERFICIAL AQUIFER AND THE DEEP AQUIFER - THE RISK OF CONTAMINATION AND POLITION

**SUPERFICIAL AQUIFER** 

- FEEDS FROM RAINFALLS
  - SUBJECTED TO SEASONAL AND ANNUAL VARIATIONS ACCORDING TO THE QUANTITY OF RAINFALL
  - IT IS LIKELY TO BE CONTAMINATED BY PESTICIDES AND BY BIOLOGIC CONTAMINATION

#### **DEEP AQUIFER**

• FEEDS FROM MURGIA PLATEAU





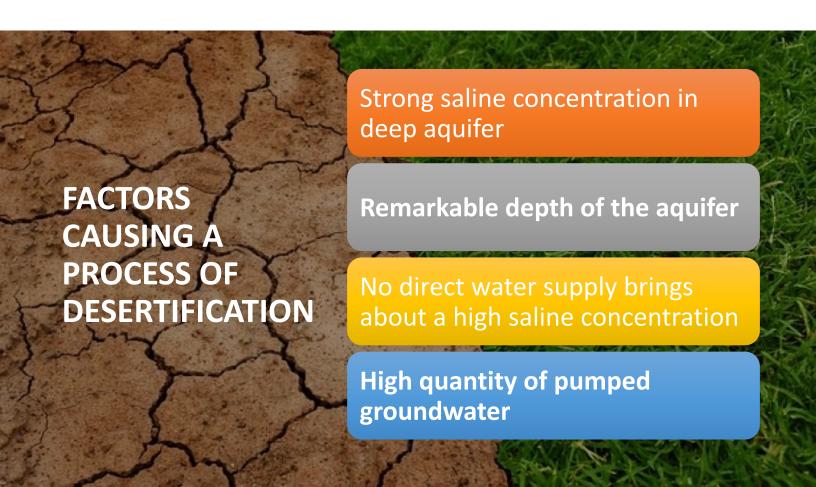
## FURTHER CAUSES OF POLLUTION

### **CARSIC GROUND**

THE WATER FLOWS WITHOUT ANY FILTRATION











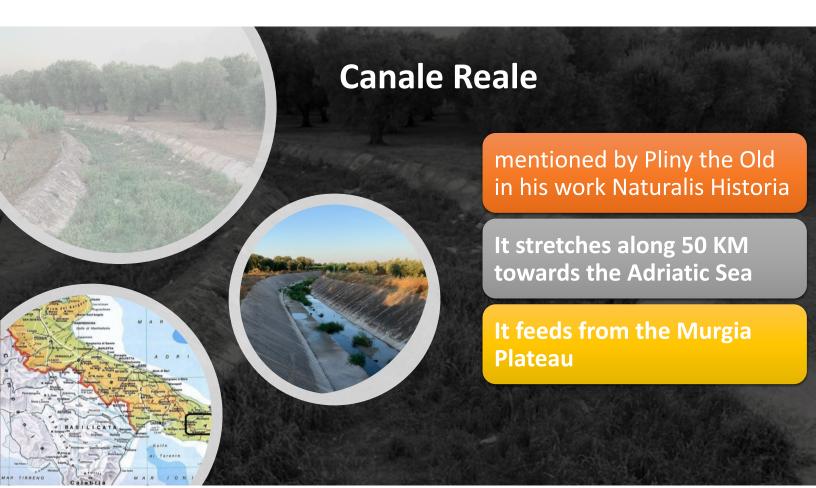


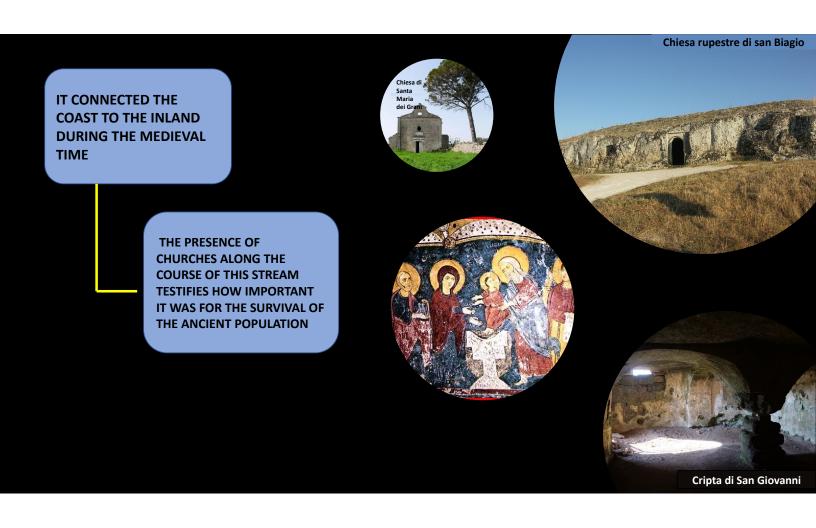
## IMPORTANCE OF THE STREAM OF WATER (CANALS)

THEY PREVENT FLOODING

In ancient times human settlements were possible only by the streams of water.

The stream of water have an important ecological function







## NSDS – National Sustainable Developmet Goals

THE SIXTH GOAL OF THE 2030
AGENDA FOR SUSTAINABLE
DEVELOPMENT (i.e., to ensure the
availability and sustainable
management of water and
sanitation for all) is a "priority on
the Italian political agenda, even in
the post-pandemic world,"

THE ITALIAN PLEDGE IS TO USE ALL AVAILABLE INSTRUMENTS - INCLUDING BUDGETARY POLICIES AND STRUCTURAL REFORMS – IN ORDER TO RESTORE A SUSTAINABLE, BALANCED AND INCLUSIVE DEVELOPMENT AND FIGHT INEQUALITY.

AT THIS AIM ITALY HAS APPROVED FOUR AREAS OF NATIONAL SUSTAINABLE DEVELOPMENT STRATEGY WHICH IMPLIES, AMONG OTHER NATIONAL STRATEGIC GOALS, TO ENSURE THE SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES – I.E. INLAND AND MARINE WATERS, SOIL, AIR AND FORESTS

ITALIAN TRANSFORMATIVE EFFORT SHOULD BE DIRECTED TOWARDS THE FOLLOWING PRIORITIES:

maintaining the vitality of seas, preventing impacts on the marine and coastal environment,

halting soil consumption and desertiication,

minimize water, soil and air pollution,

maximize water eficiency,

reduce water stress and ensure integrated water management at all levels.

upgrading and modernization of Italy's water infrastructure system THANK YOU ALL FOR YOUR ATTENTION!