

Title Of The Presentation

« Water in the Desert ,a new vision towards the protection of ressources in the saharan territories, case of study ; FOUGGARA system of irrigation IN Algeria as a monument to preserve and protect.



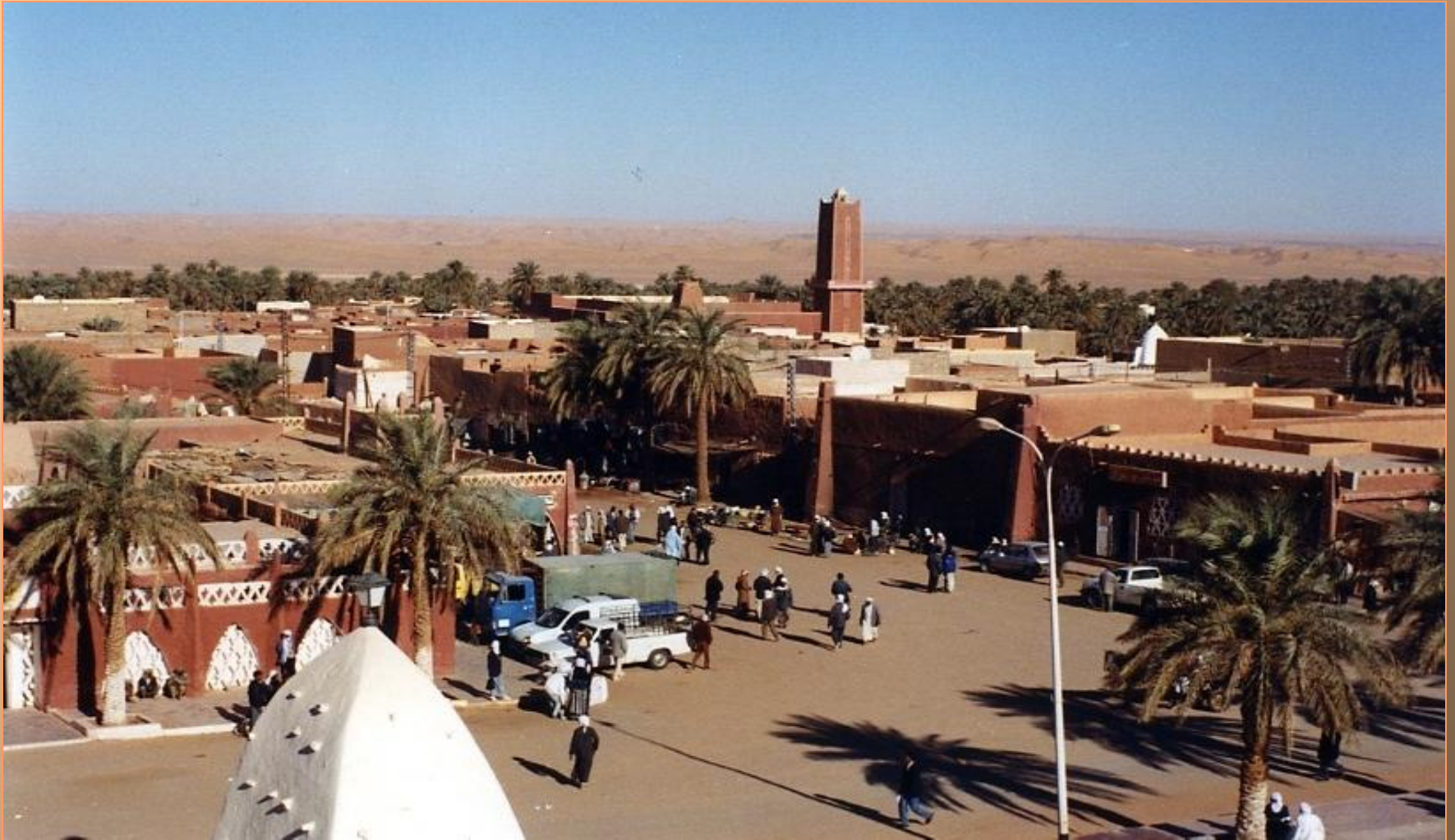
Dr ,ARCh/ MOURAD MAROC

Expert of Monuments and Protected Sites
Ministry of Culture .Algeria

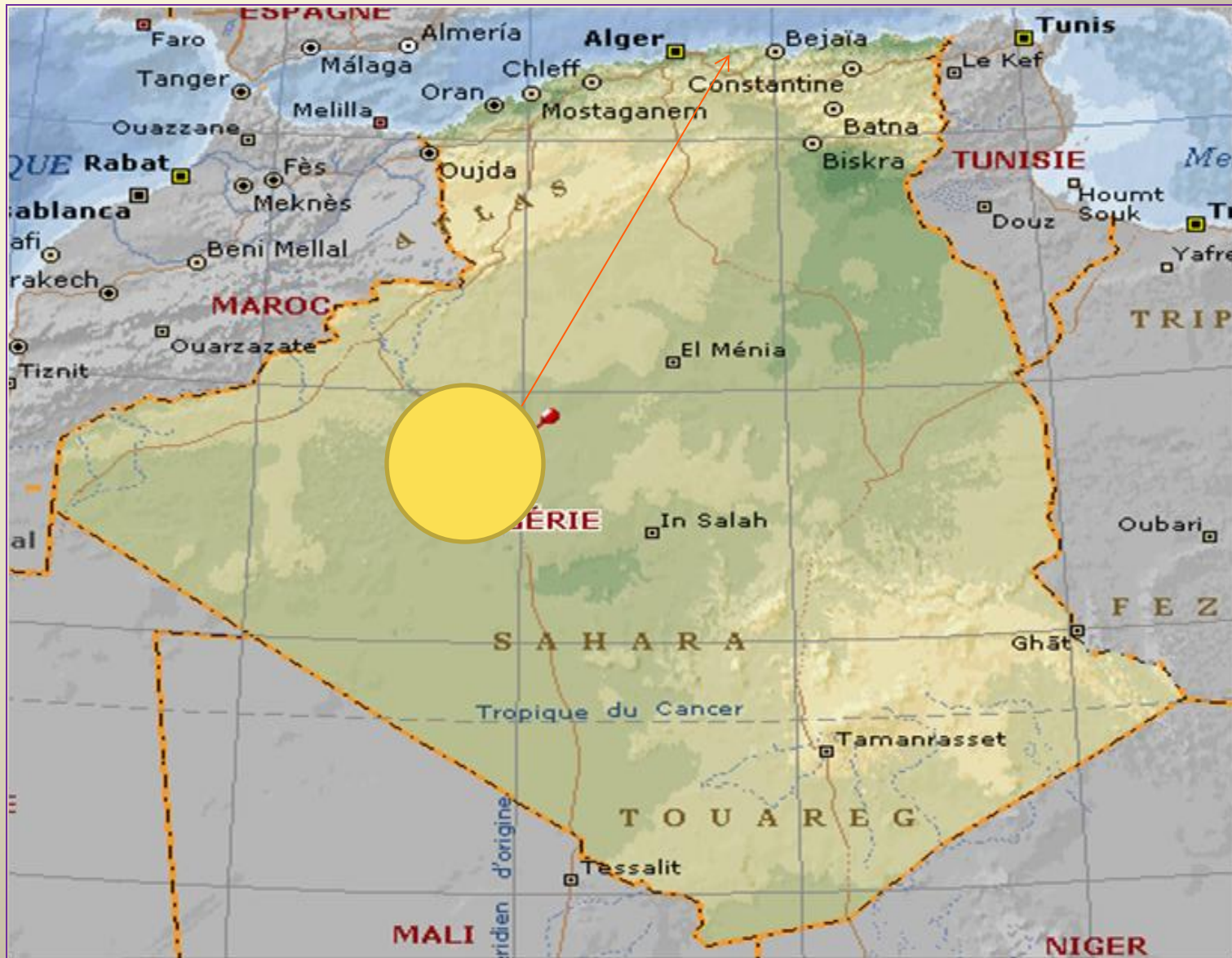
INTERNATIONAL SUMMER SCHOOL

******* Orvieto – Todi / - jully 20-26th, 2025 *******

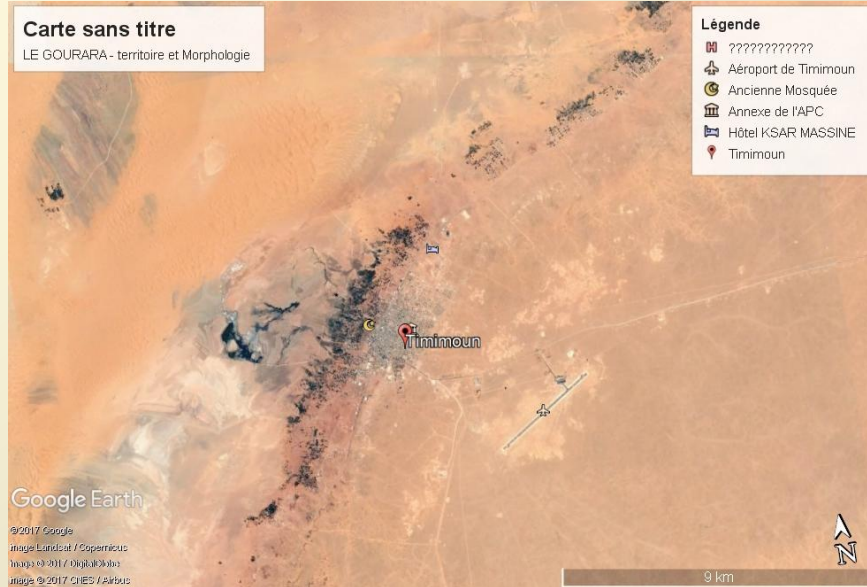
TIMIMIMOUN " the " Red Oasis " Sanctuary of Saharan Architecture in Algeria



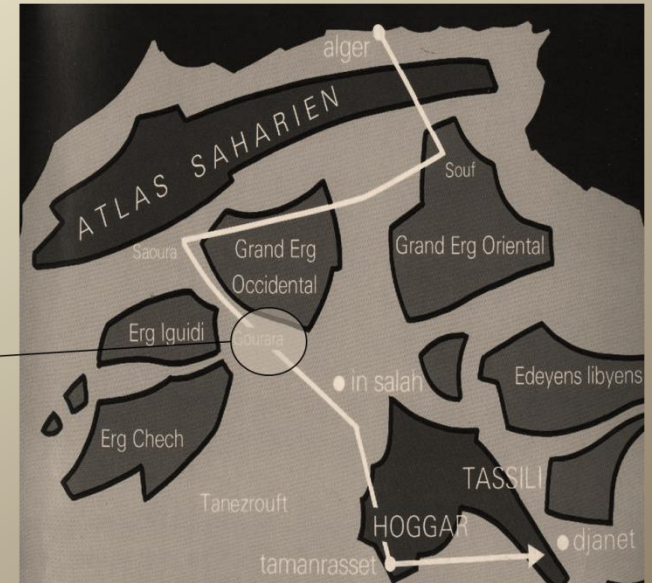
Geographical situation of Timmimoun



Presentation of the territory of « Timmimoun »



Gourara
au centre
du Sahara



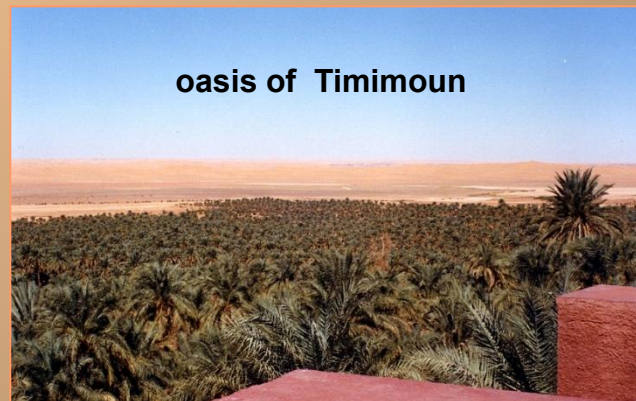
Different forms of Saharan Landscapes



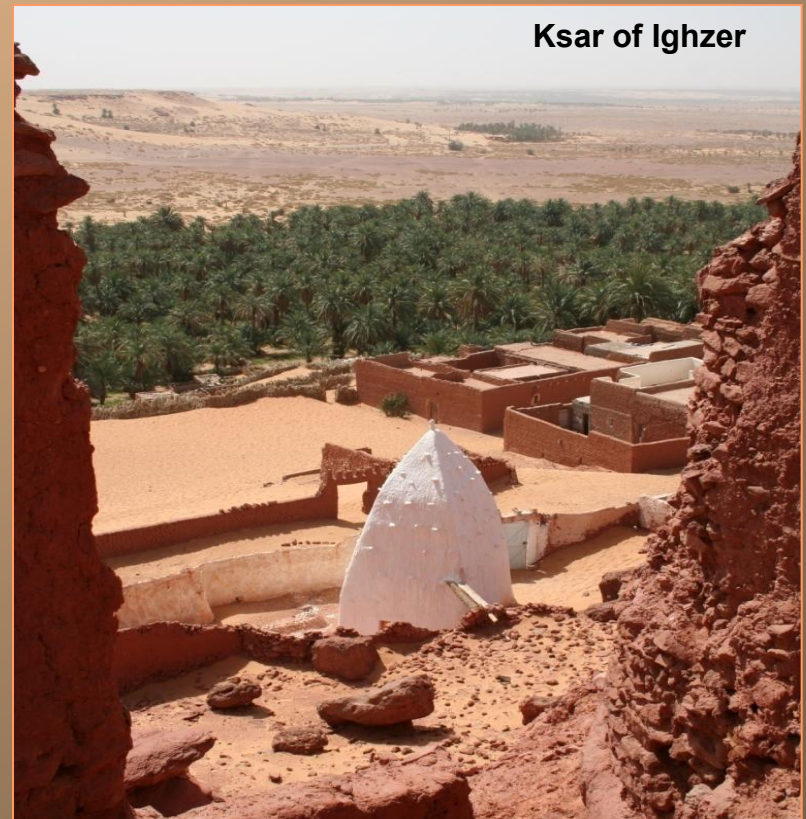
Ksar of Aghlat



Plateau of Ighzer



oasis of Timimoun



Ksar of Ighzer

Identification of intervention themes on the Timimoun Ksour



Degradation of the Ksar



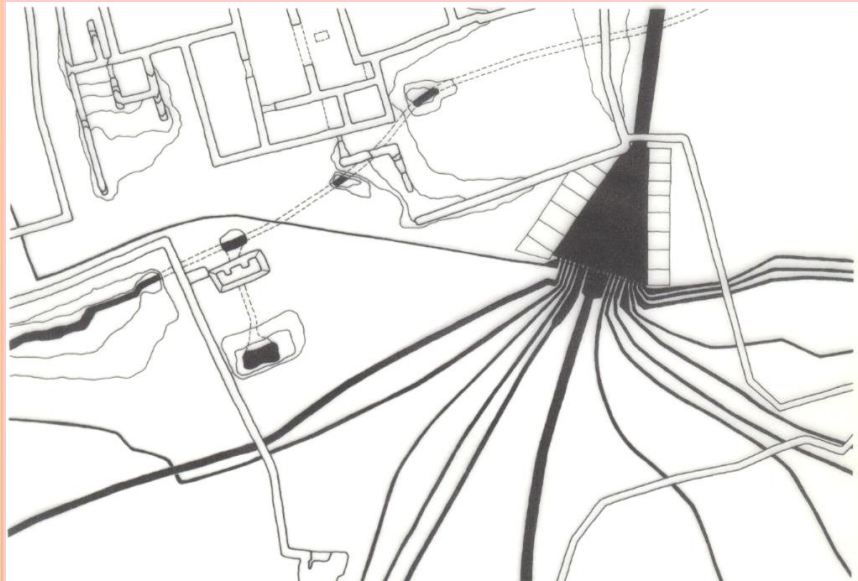
Water as a structuring factor (système OF FOGGARA)

وَنَبِّئُهُمْ أَنَّ الْمَاءَ قِسْمَةٌ بَيْنَهُمْ كُلُّ شِرْبٍ مُحْتَضَرٌ, 28, سورة القمر

“And inform them that the water is shared between them, each [day of]
drink attended “ [aya] 28 SURAT el kamar / the moon .



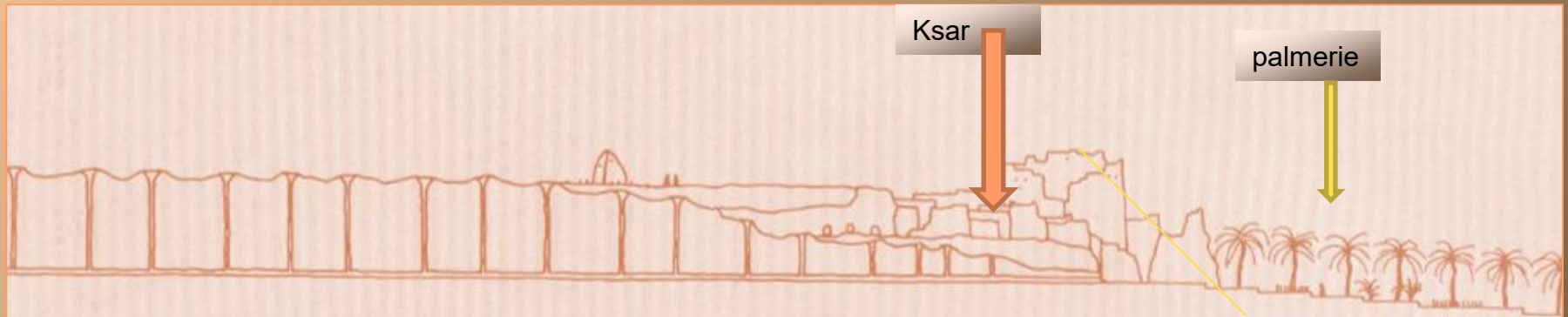
Water as a structuring factor (système OF FOGGARA)



VIEW in plan of the Kasseria Of Foggara

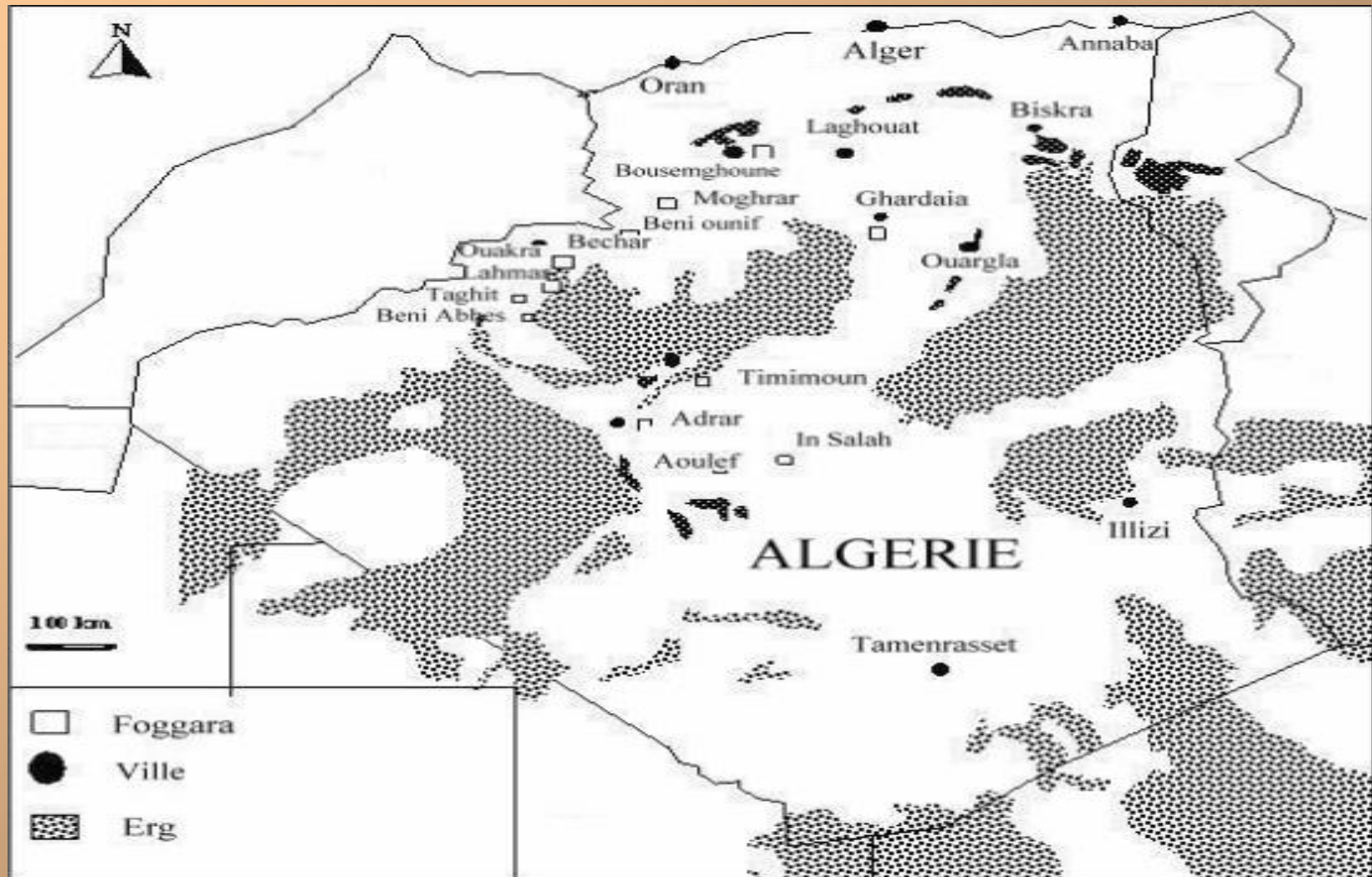


Overview of the Kasseria

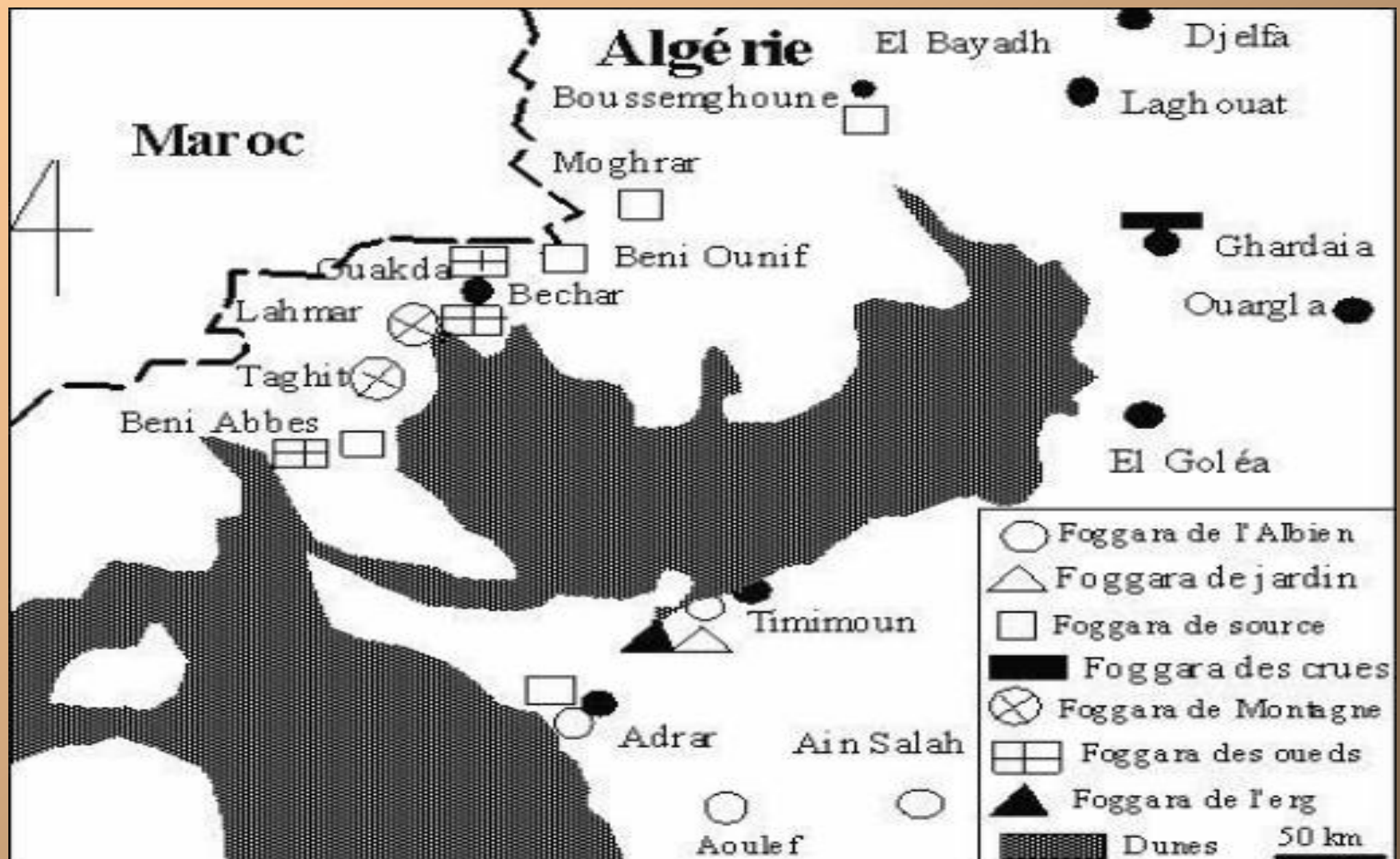


Cross section on the Foggara system

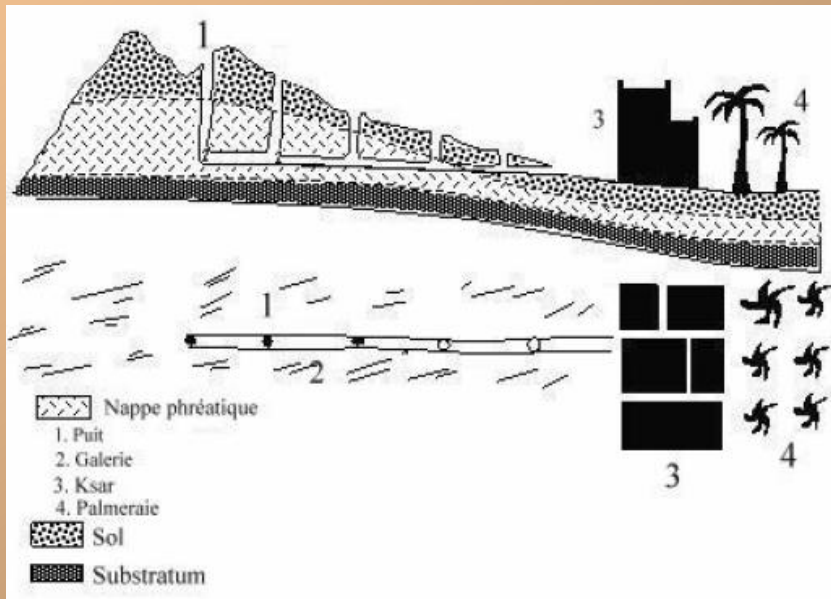
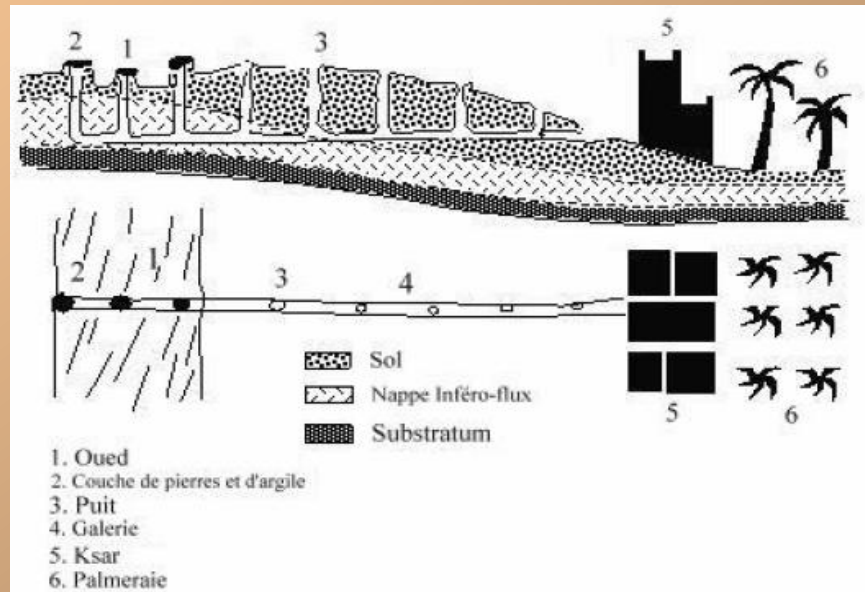
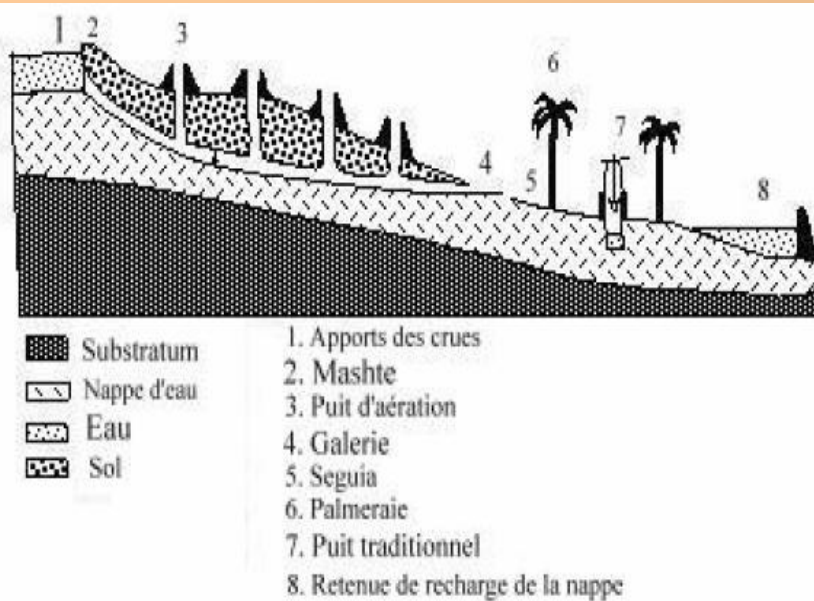
Water as a structuring factor (système OF FOGGARA)



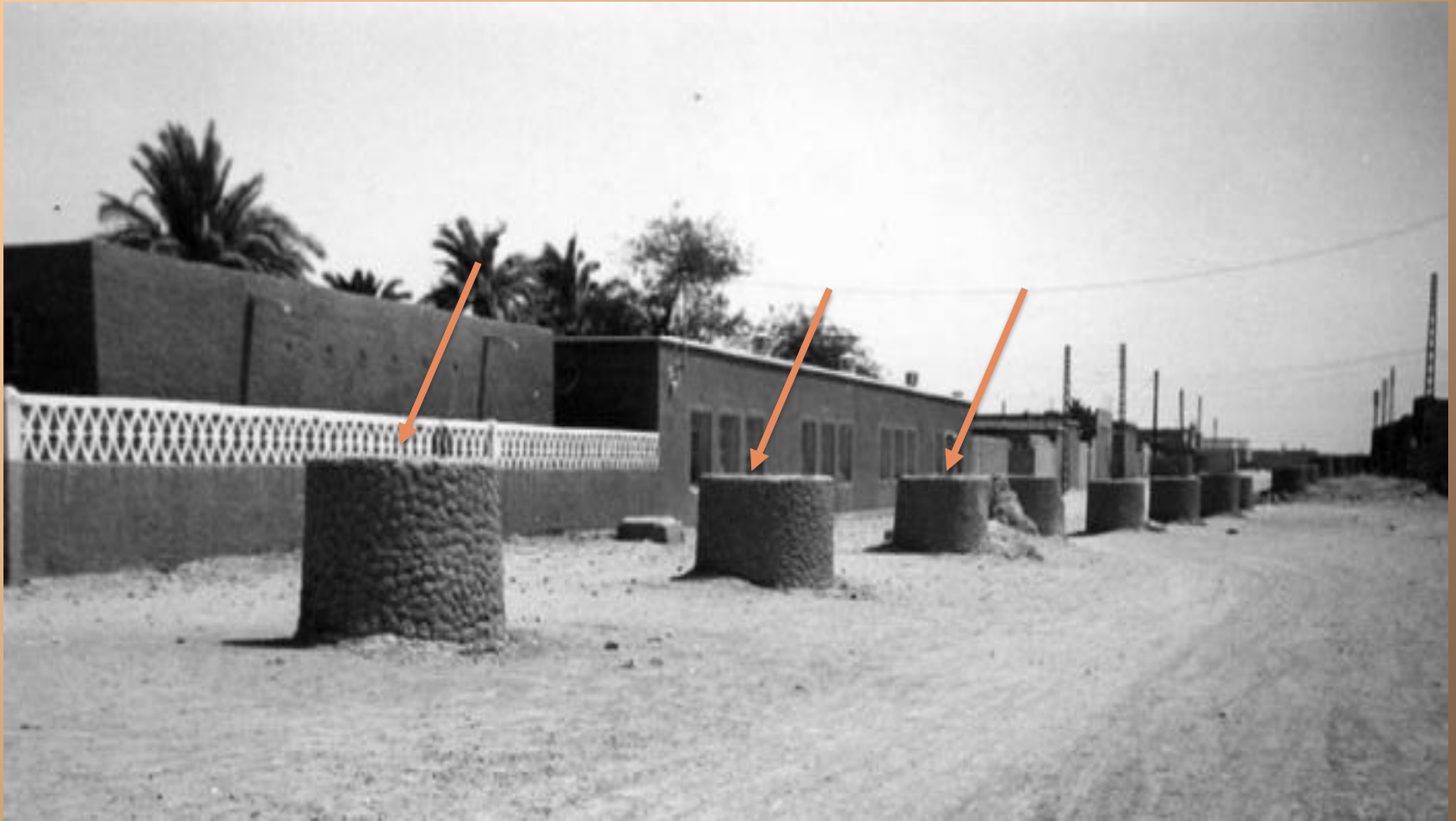
Water as a structuring factor (système OF FOGGARA)



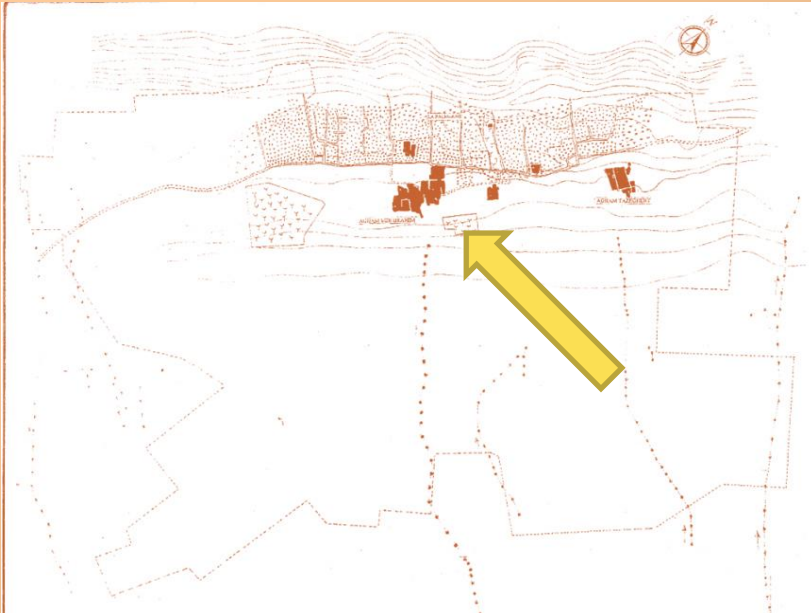
Models of fogguara



Water as a structuring factor (système OF FOGGARA)



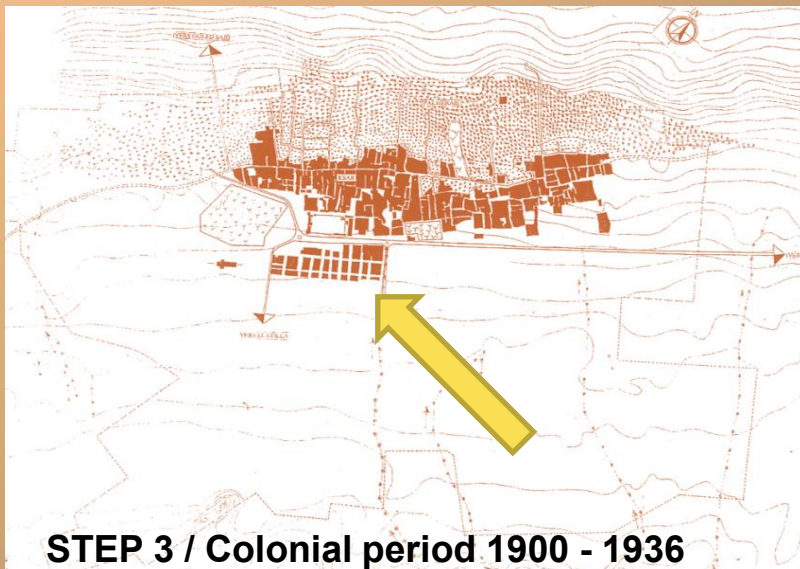
Historical process of formation / transformation - Ksar de Timimoun



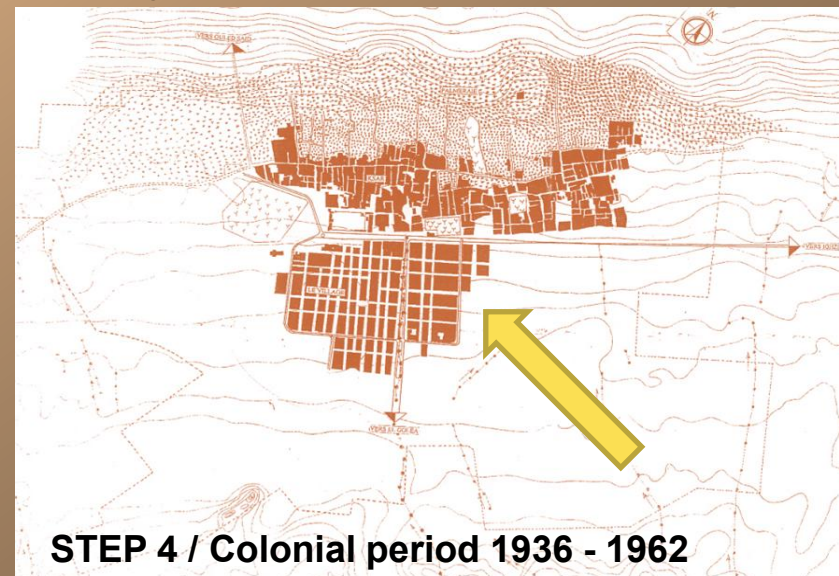
STEP 1 / Intramural period 300 AJC



STEP2 / Period extra- muros X in the 19th century

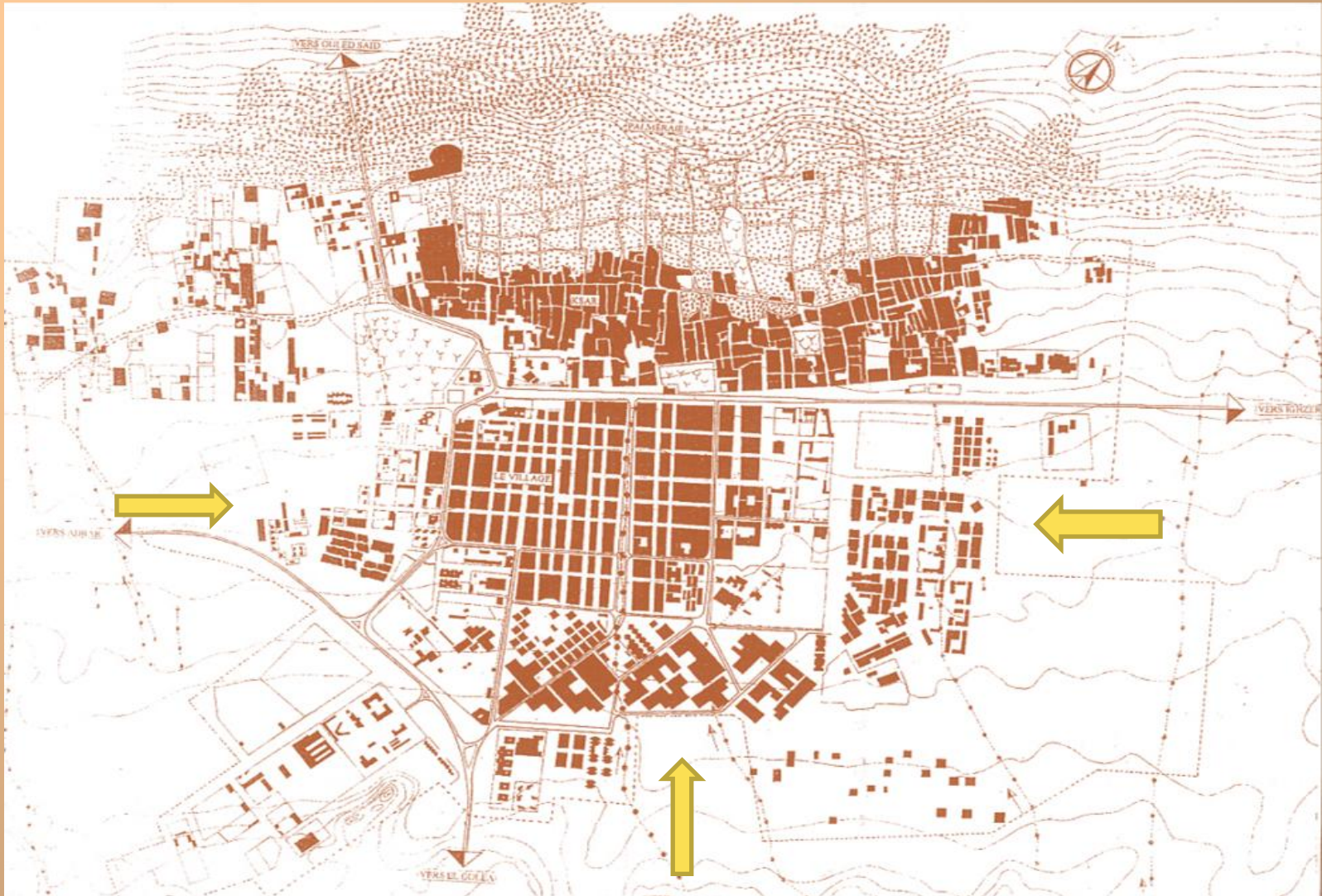


STEP 3 / Colonial period 1900 - 1936



STEP 4 / Colonial period 1936 - 1962

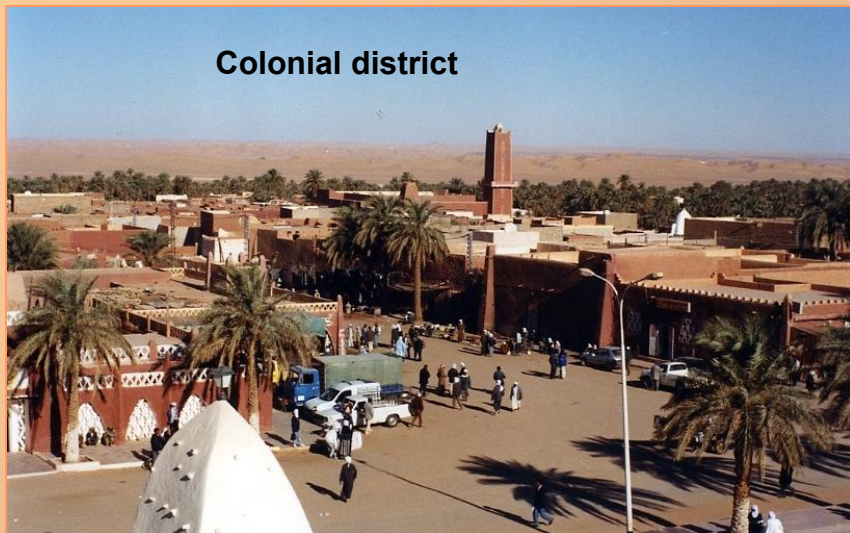
Historical process of formation / transformation - Ksar Of - Timimoun



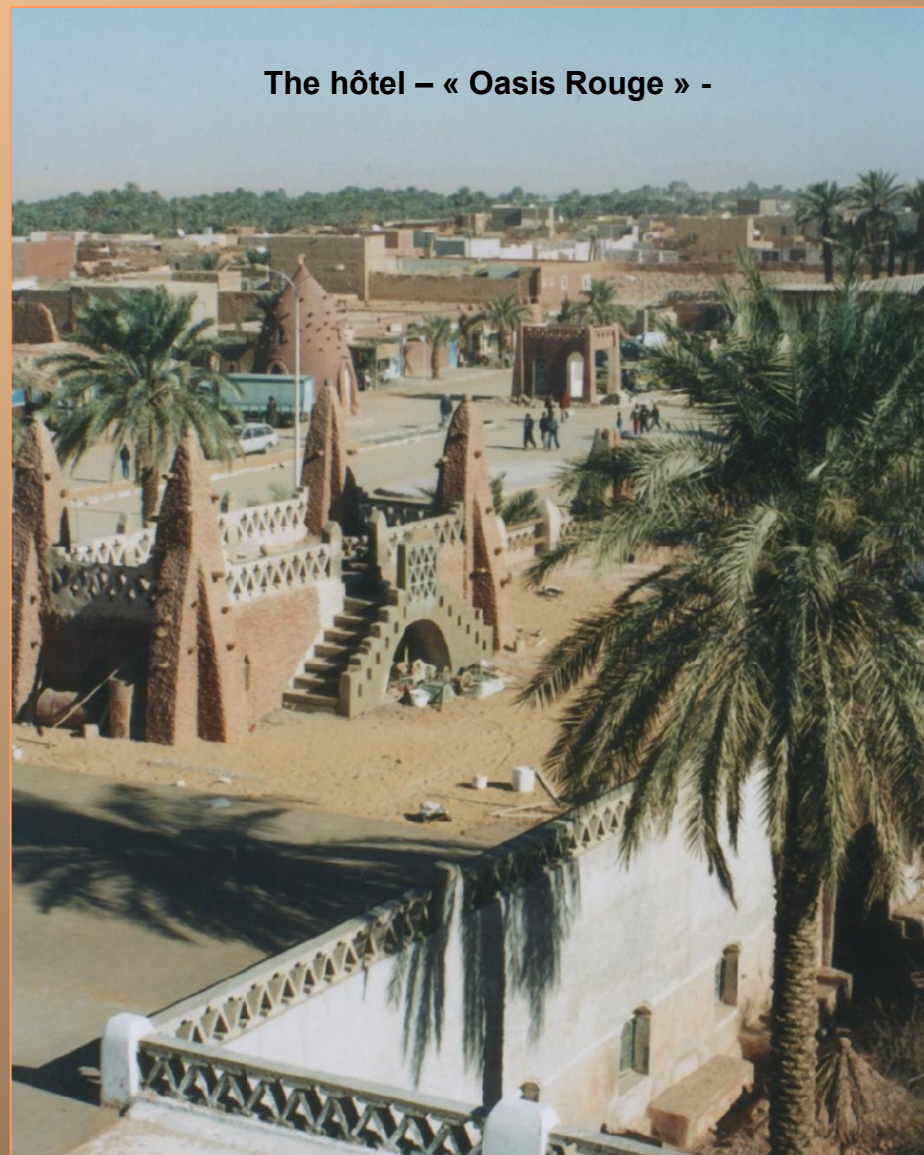
STEP 5 / Post-colonial period 1962 -1992

Presentation of the city of Timimoun

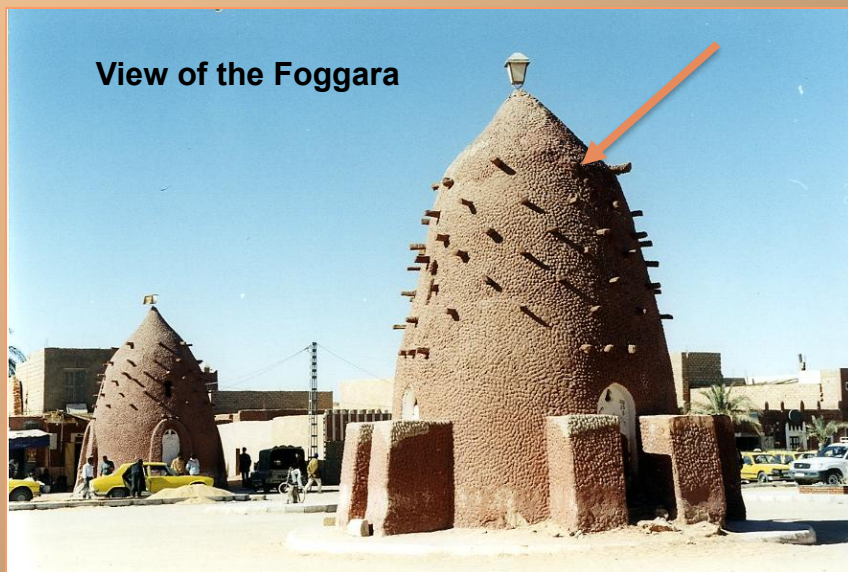
Colonial district



The hôtel – « Oasis Rouge » -



View of the Foggara

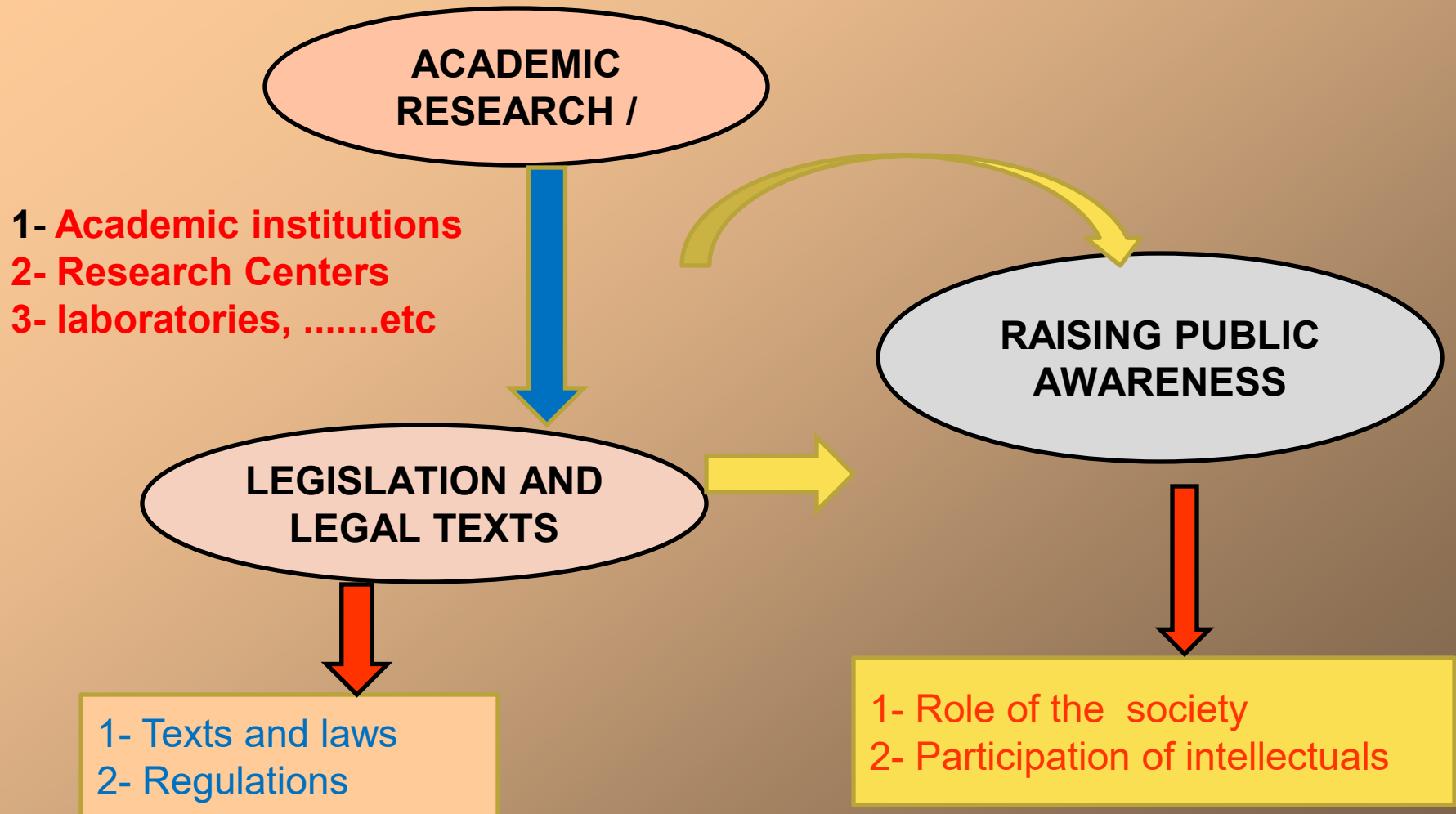


Historical process of formation / transformation -of the Ksar



Planimetric restitution of the Ksar / the model

The process. --









• **THANK YOU FOR YOUR ATTENTION**