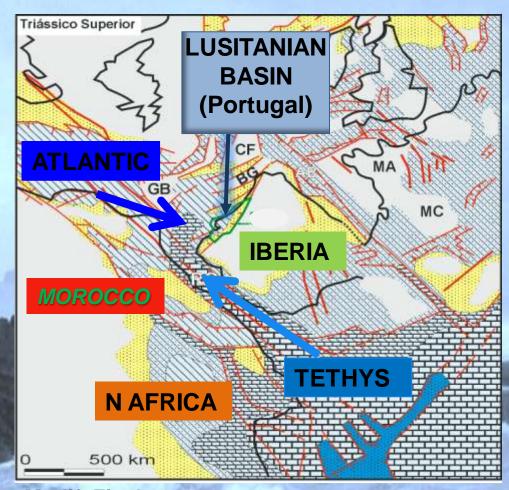
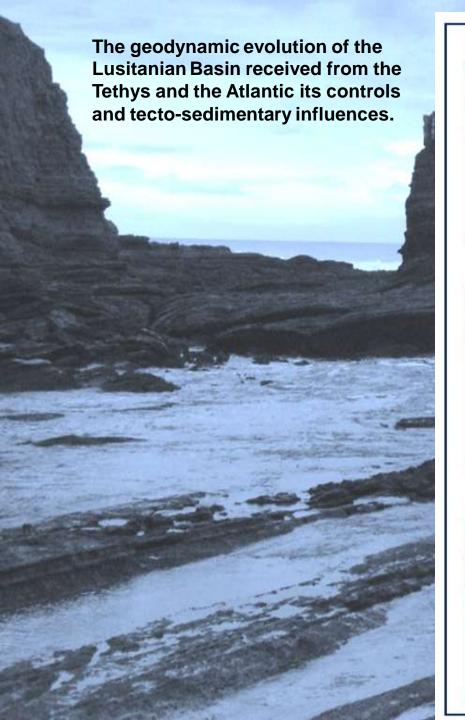


The Lusitanian Basin (LB) is located at the western façade of Europe, facing the Atlantic Ocean and North America, but close to Morrocco and the Mediterranean Sea (the former Tethys).

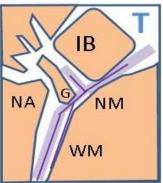


GEODYNAMIC FRAMEWORK
OF IBERIA IN UPPER TRIASIC

Modif. Ziegler, 1988



#### Late Triasic - Step 1



Early Liasic - Step 2

NA/

IB

NM



IB - Iberia

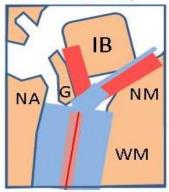


NA - North America

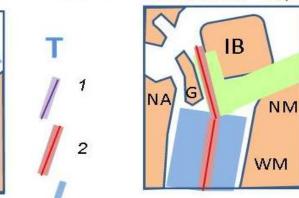
NM - North Morocco (Atlas)

WM - West Morocco

Lt. Jurassic - Step 5

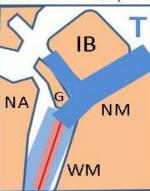


Erl.Cretaceous-Step 6



Late Liasic - Step 3

WM



T - Tethys marine realm

1 - Salt Basins and volcanics

2 - Ocean spreading

3 - Shallow marine carbonates

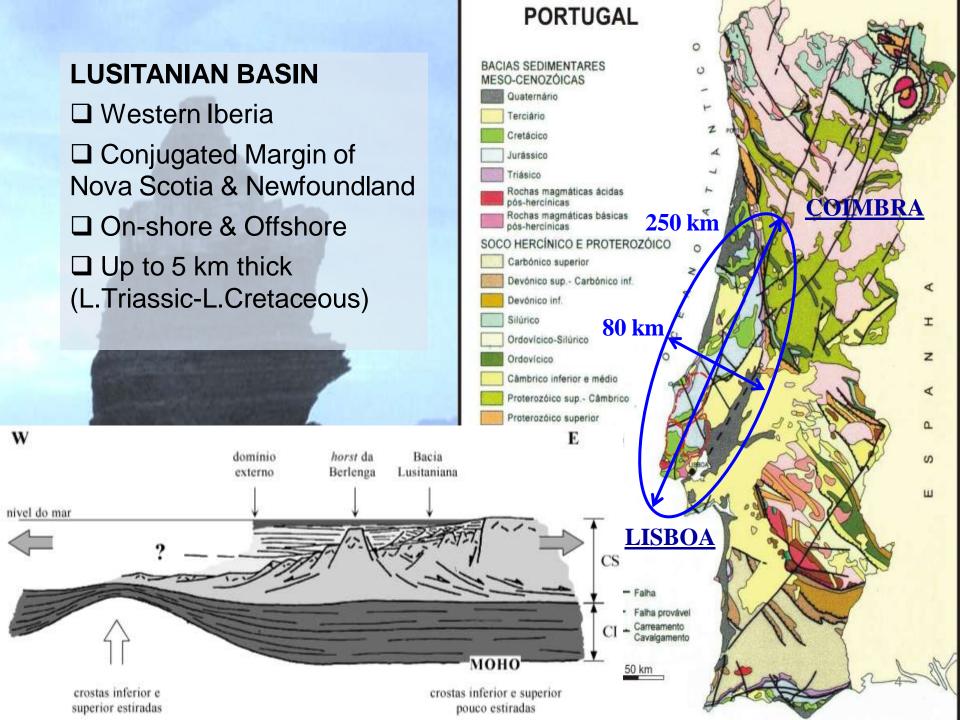
4 - Deep marine carbonates

**5** – Alluvial to marine siliciclastics

6 - Transitional siliciclastics and carbonates



3



This work presents a new stratigraphic chart of the LB, focusing on the main steps and events of its evolution, since the Late Triasic crustal stretching untill the Late Creatceous inversion.

Sector Central

CANEÇAS BICA

SERRA DE AIRE

BC. ZAMBUJAL

C.CARVO EIRO

CONRARIA

CH. PIAS

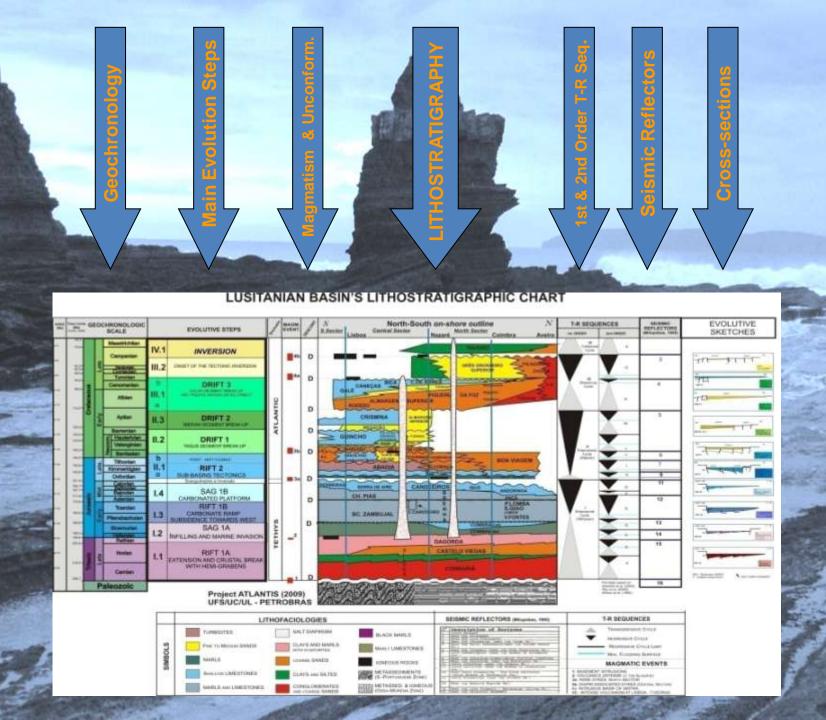
GUINCHO

S.Sul

Quadro Esquemático - Secção N-S - on-shore **BOA VIAGEM** ANDORINHA V.FONTES DAGORDA CASTELO VIEGAS

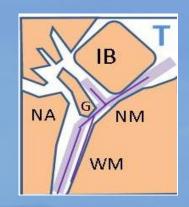
Published data have been integrated with recent studies developed within the of Project Atlantis scope (PETROBRAS - UFS/UC/UL).



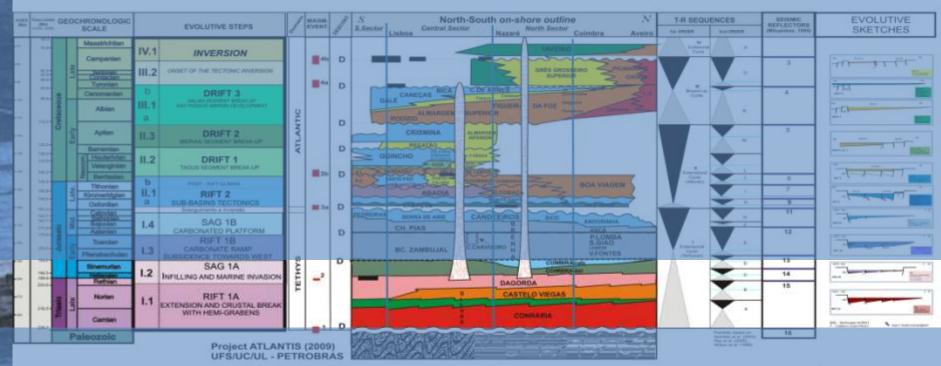


### LATE TRIASIC to EARLY JURASSIC

### **TETHYAN 1st RIFT AND SAG**



#### LUSITANIAN BASIN'S LITHOSTRATIGRAPHIC CHART

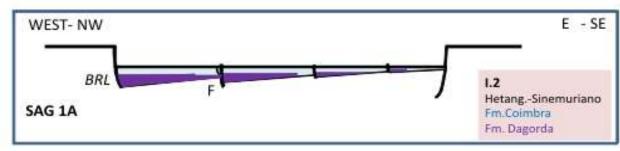


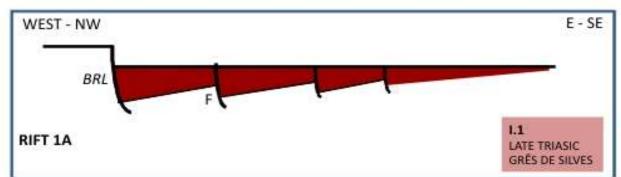












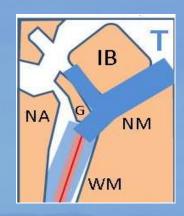
### LATE TRIASIC to EARLY JURASSIC

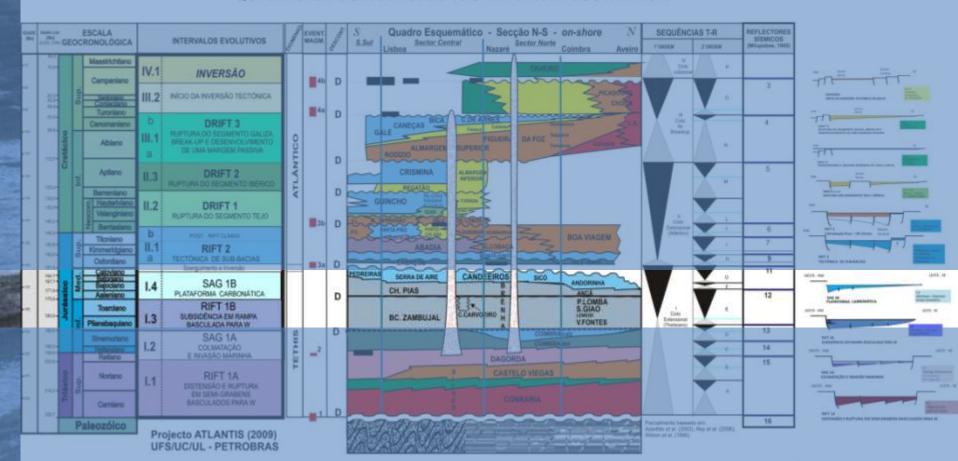
TETHYAN FIRST RIFT AND SAG



### **EARLY AND MIDDLE JURASSIC**

### **TETHYAN 2nd RIFT AND SAG**

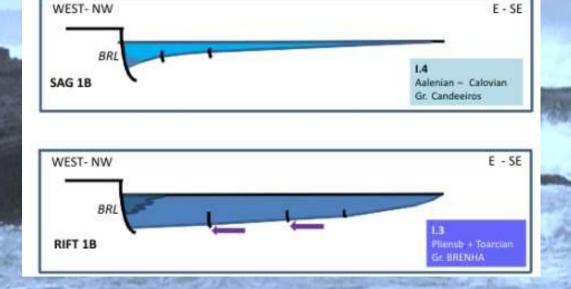


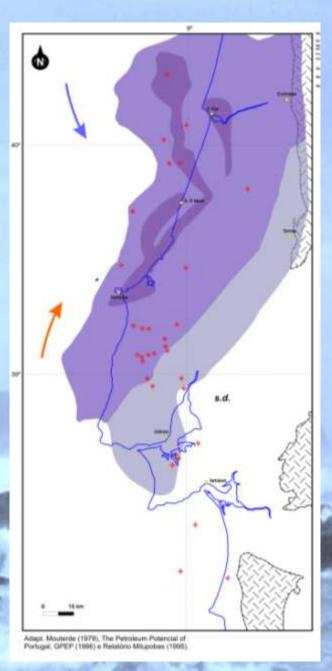


### EARLY AND MIDDLE JURASSIC TETHYAN 2nd RIFT AND SAG

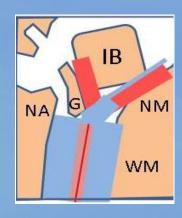


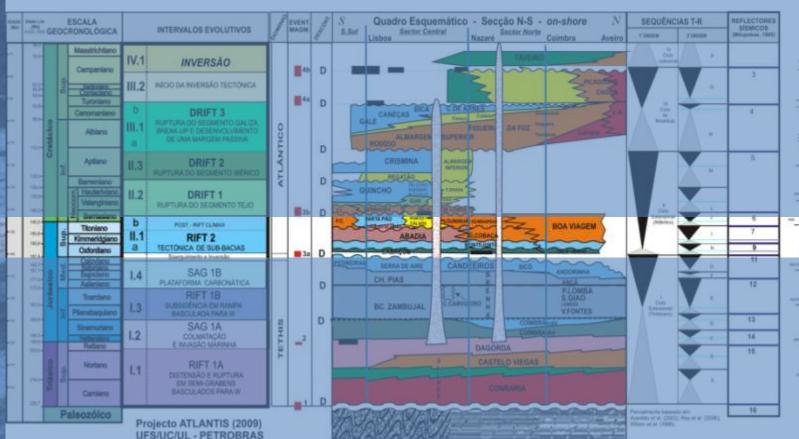


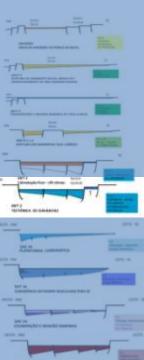




## UPPER JURASSIC ATLANTIC 1st RIFTING



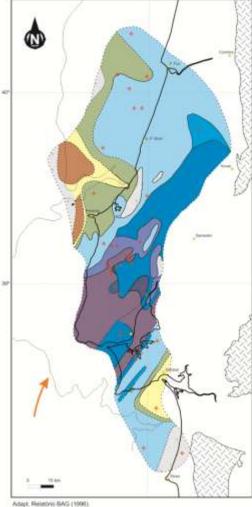


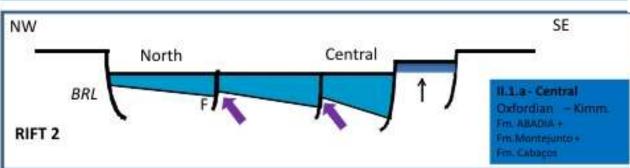




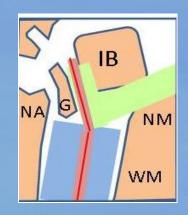
### **UPPER JURASSIC**

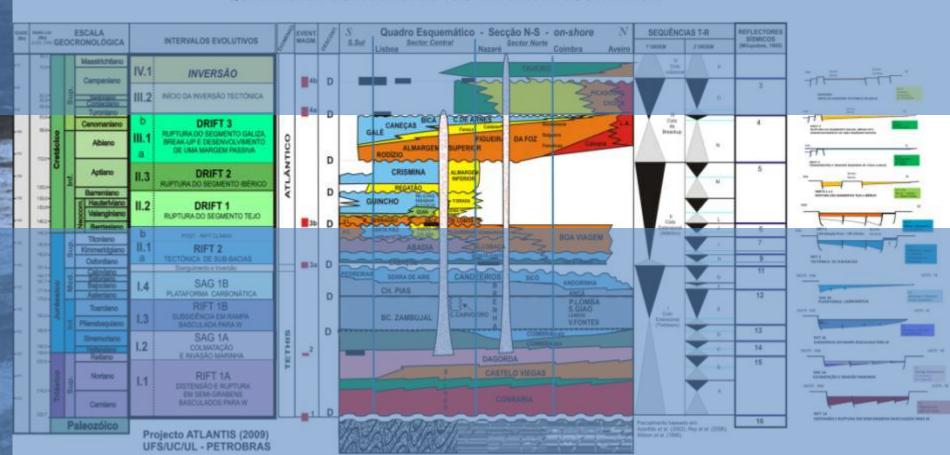
**ATLANTIC 1st RIFTING** 

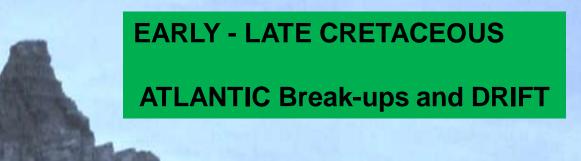




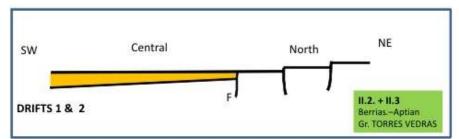
## EARLY TO LATE CRETACEOUS ATLANTIC BREAK-UPS and DRIFT

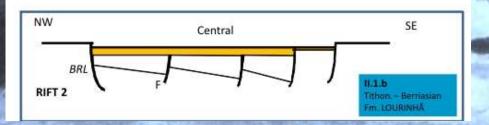


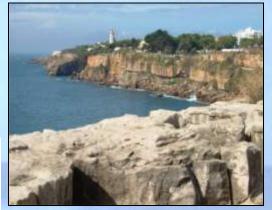


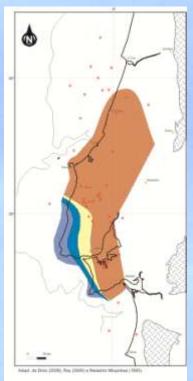








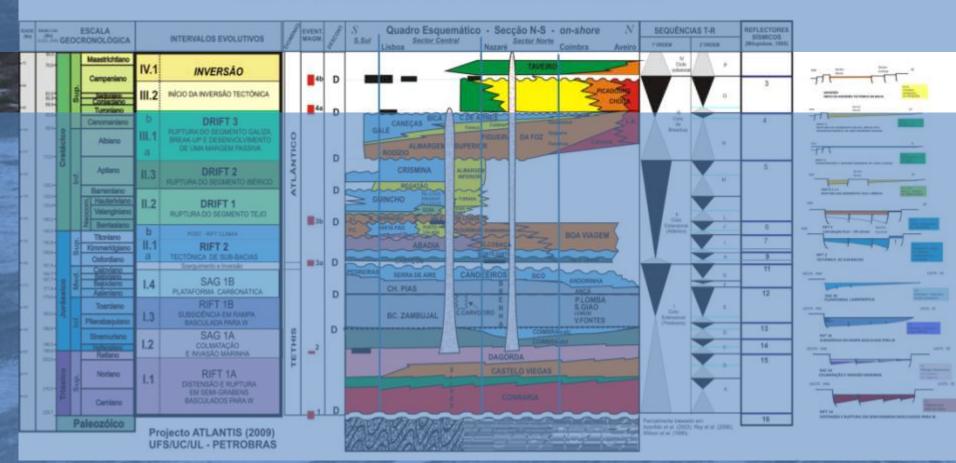


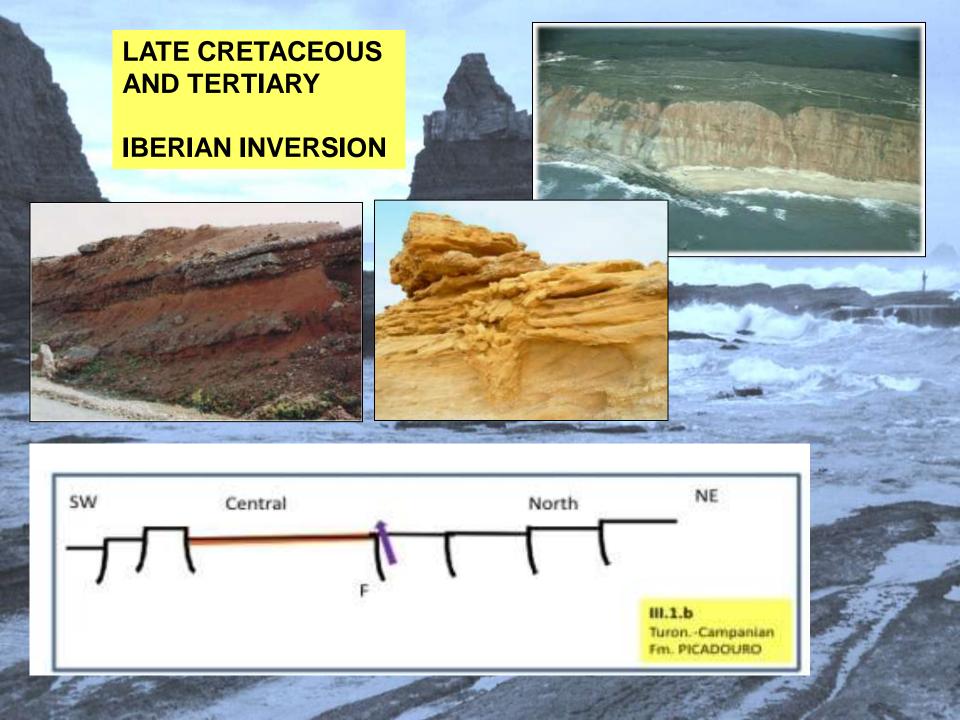




# LATE CRETACEOUS IBERIAN INVERSION







The evolution of the basin promoted the occurence of multiple Source-rocks and Reservoirs, with good conditions for the whole Petroleum System development, including numerous outcrop and well oil-shows

# SIMPLIFIED CHART OF THE PETROLEM SYSTEMS at the Lusitanian Basin (Portugal)

