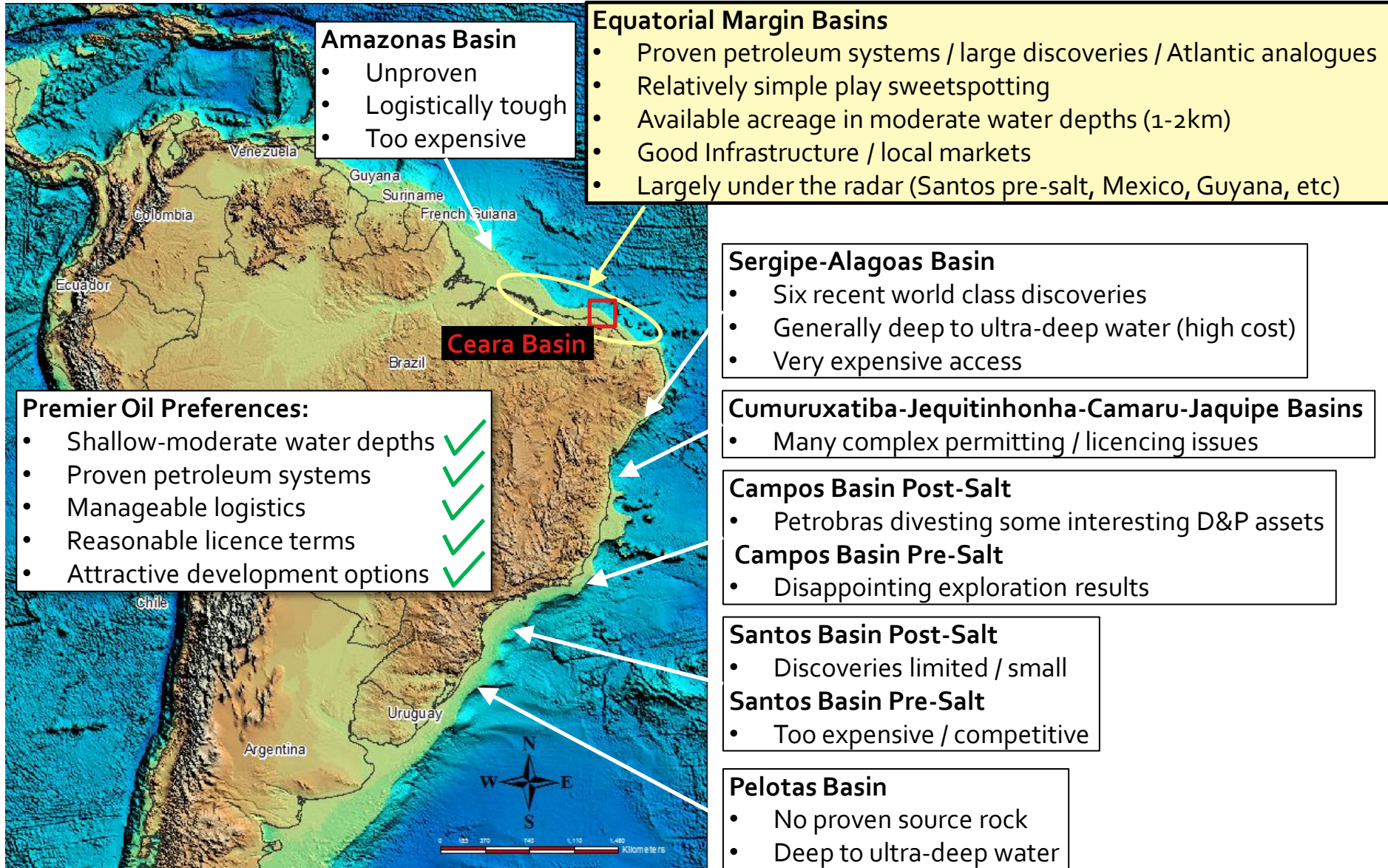


Brazil – Opportunity Whilst All Eyes on Mexico

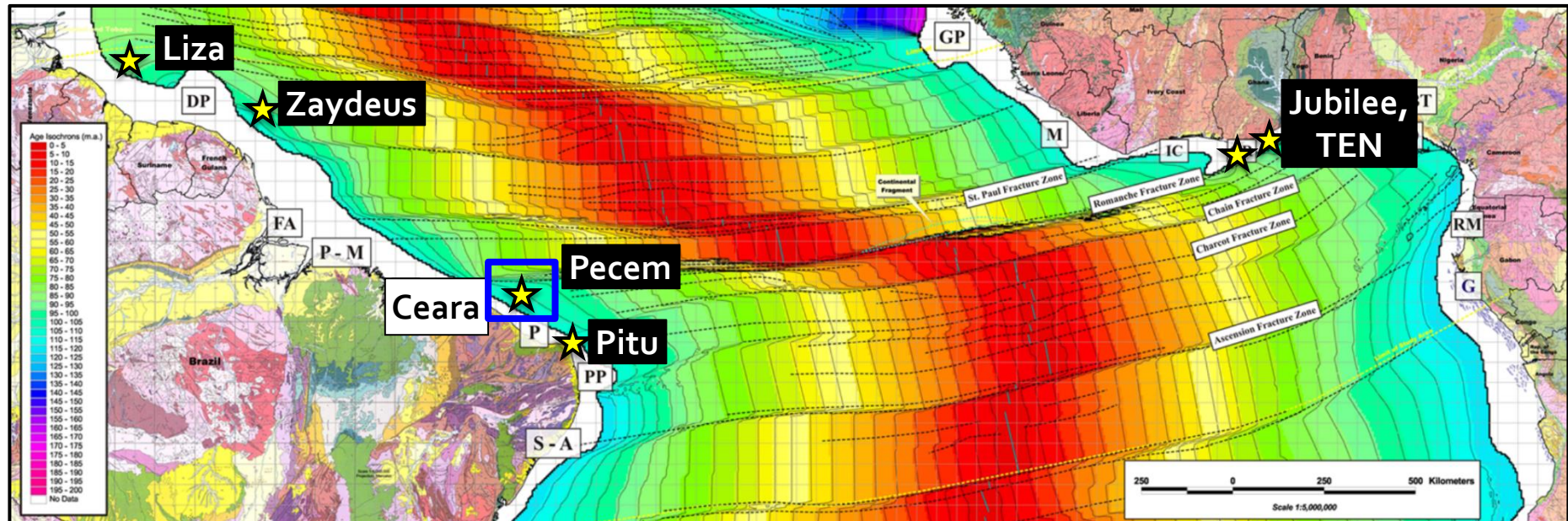
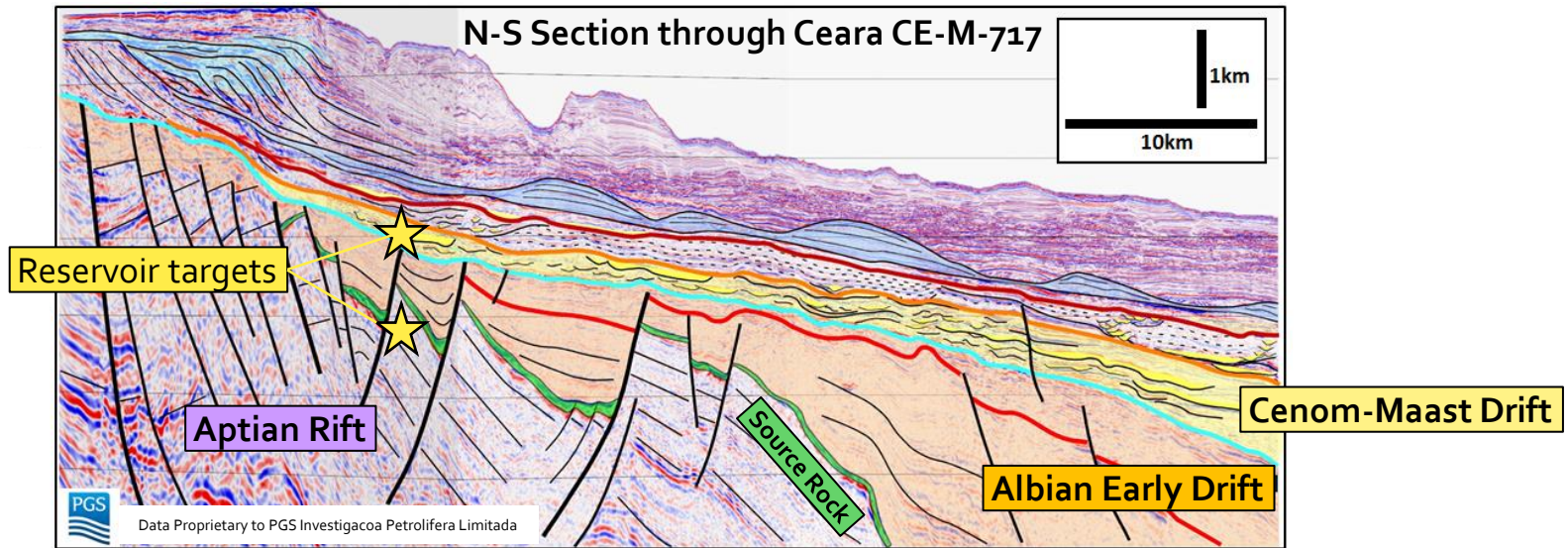
Toby Garwood



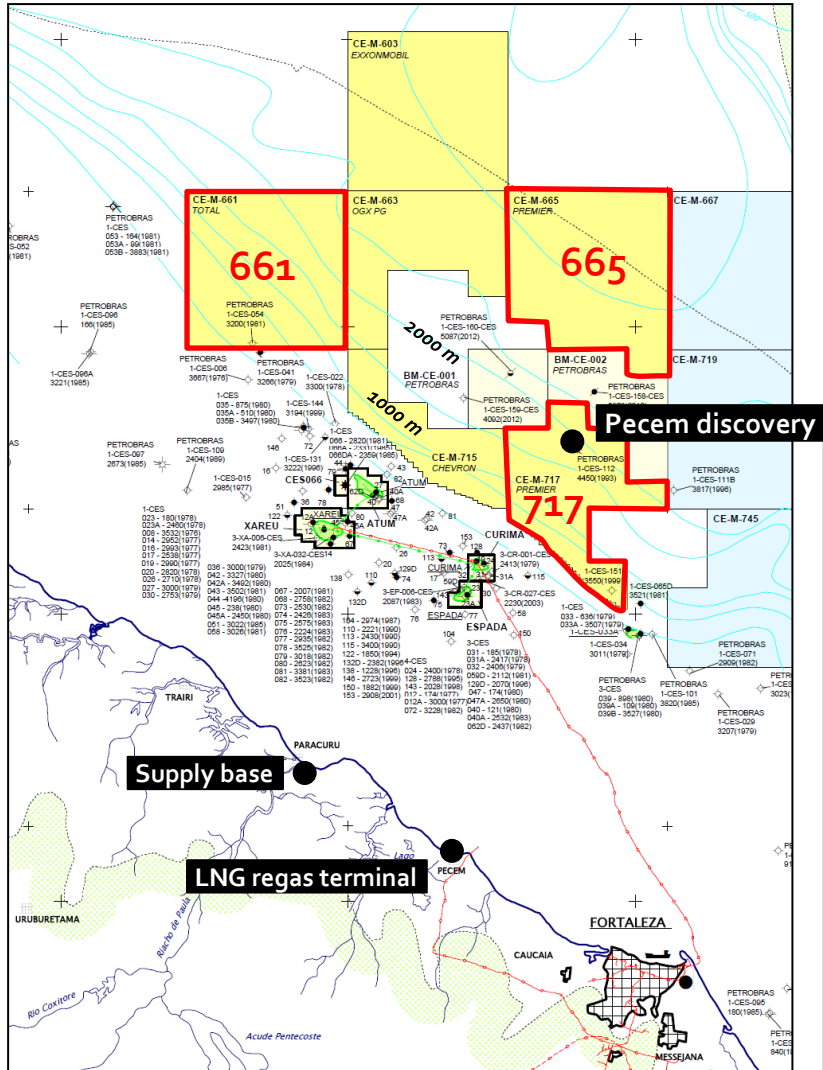
Brazil – Where Is The Opportunity For Companies Like Premier Oil?



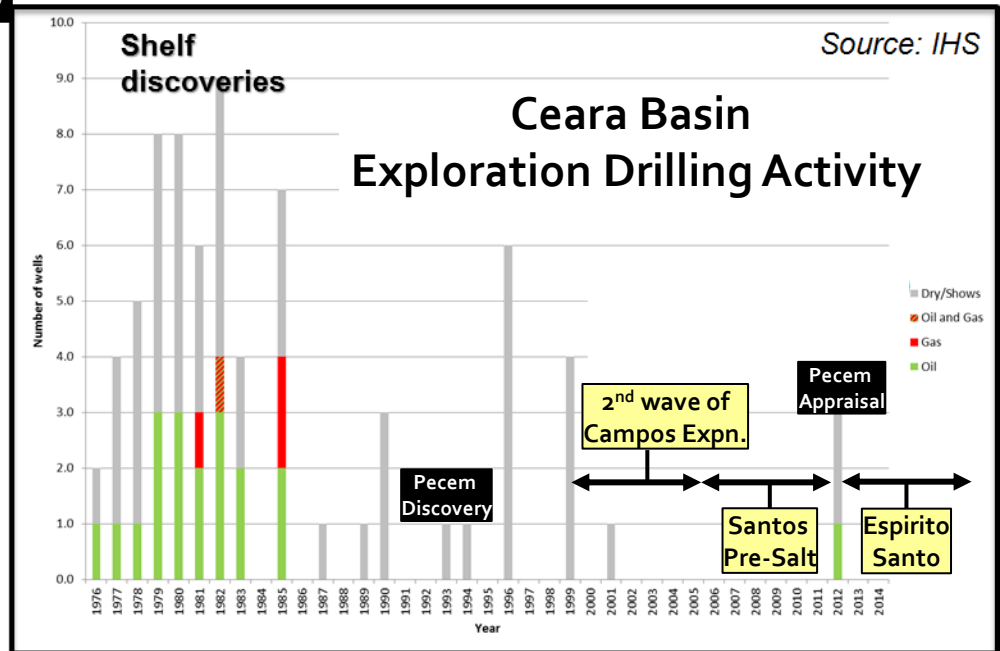
Ceara Basin – Typical Atlantic Margin Architecture, And Strong Similarity to Equatorial Margin Discoveries



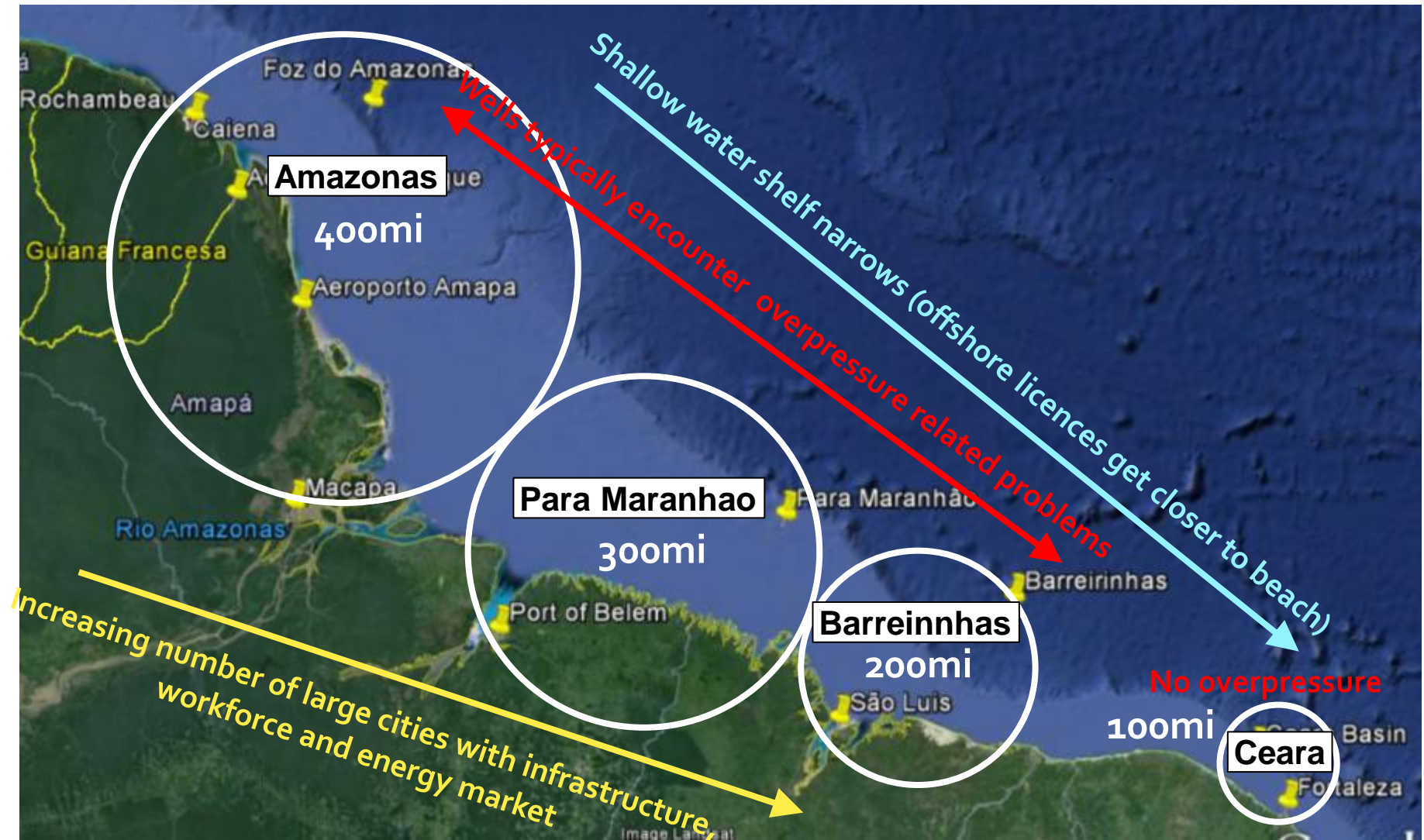
Ceara Basin – Limited Exploration since Mid-1990s Creates Opportunity For Premier Oil



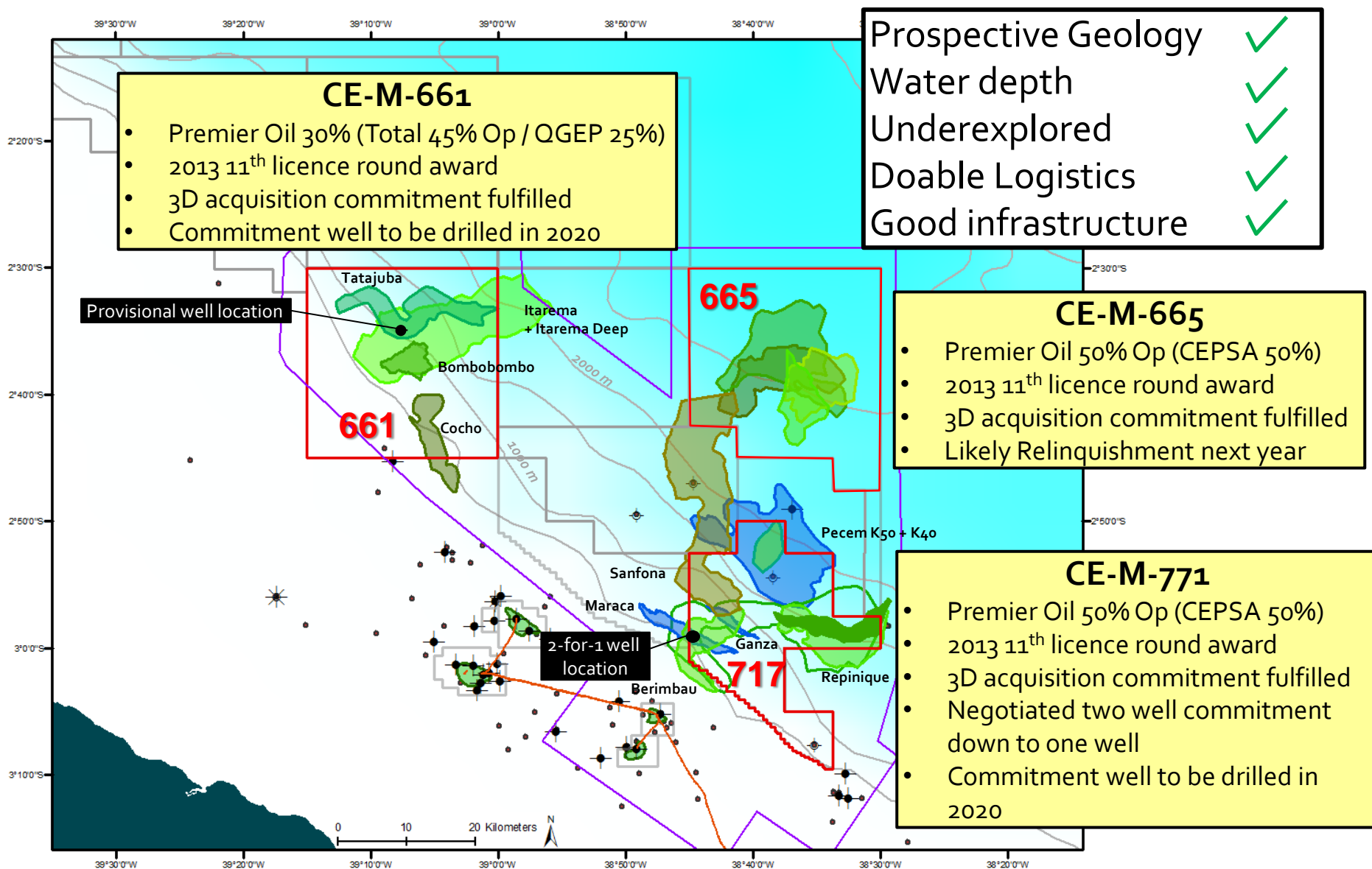
- Total 77 'Exploration' wells drilled in entire basin
- Only seven wells drilled offshore
 - Only four of these drilled in last 18 years
- Reduction of drilling activity in Ceara Basin coincides with Petrobras focus on Southern Basins



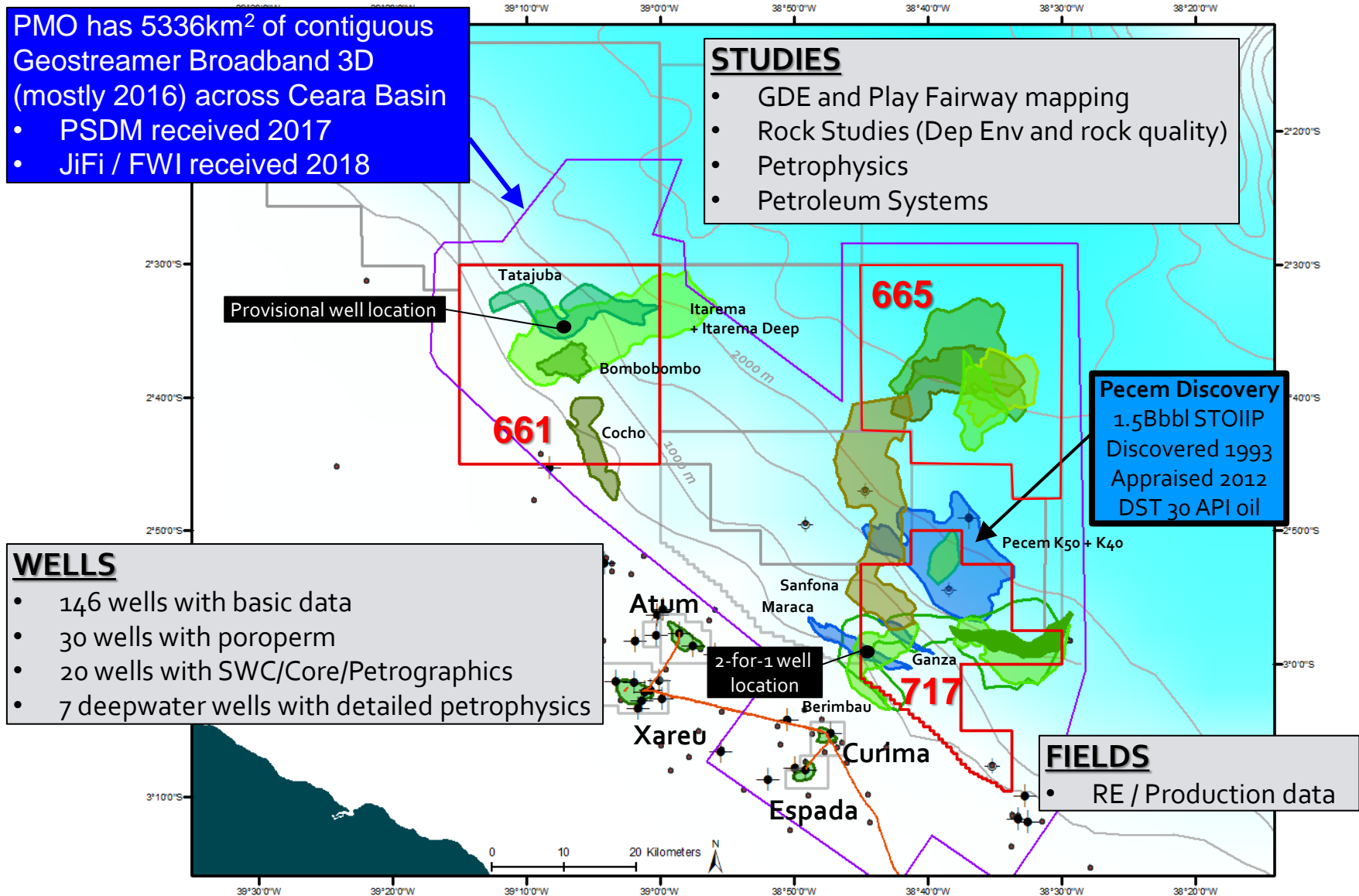
Ceara Basin – Favourable Logistic Circumstance



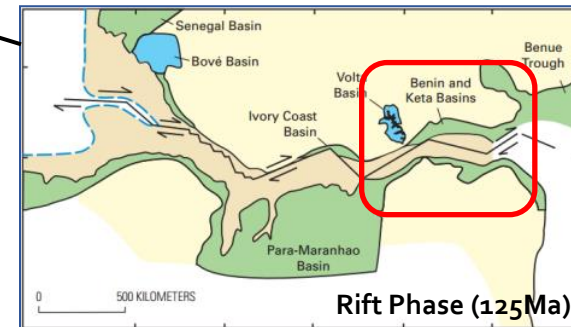
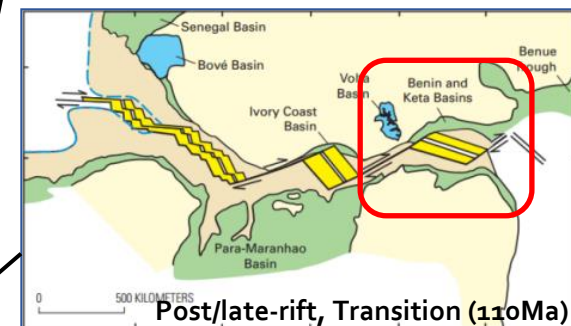
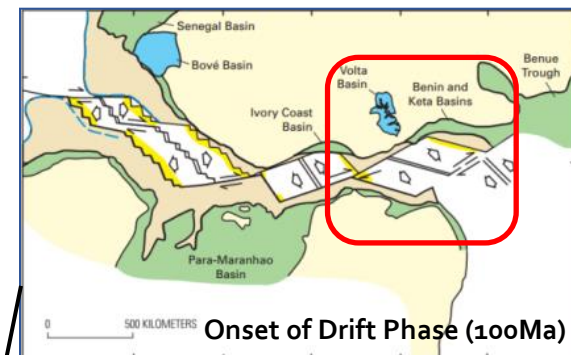
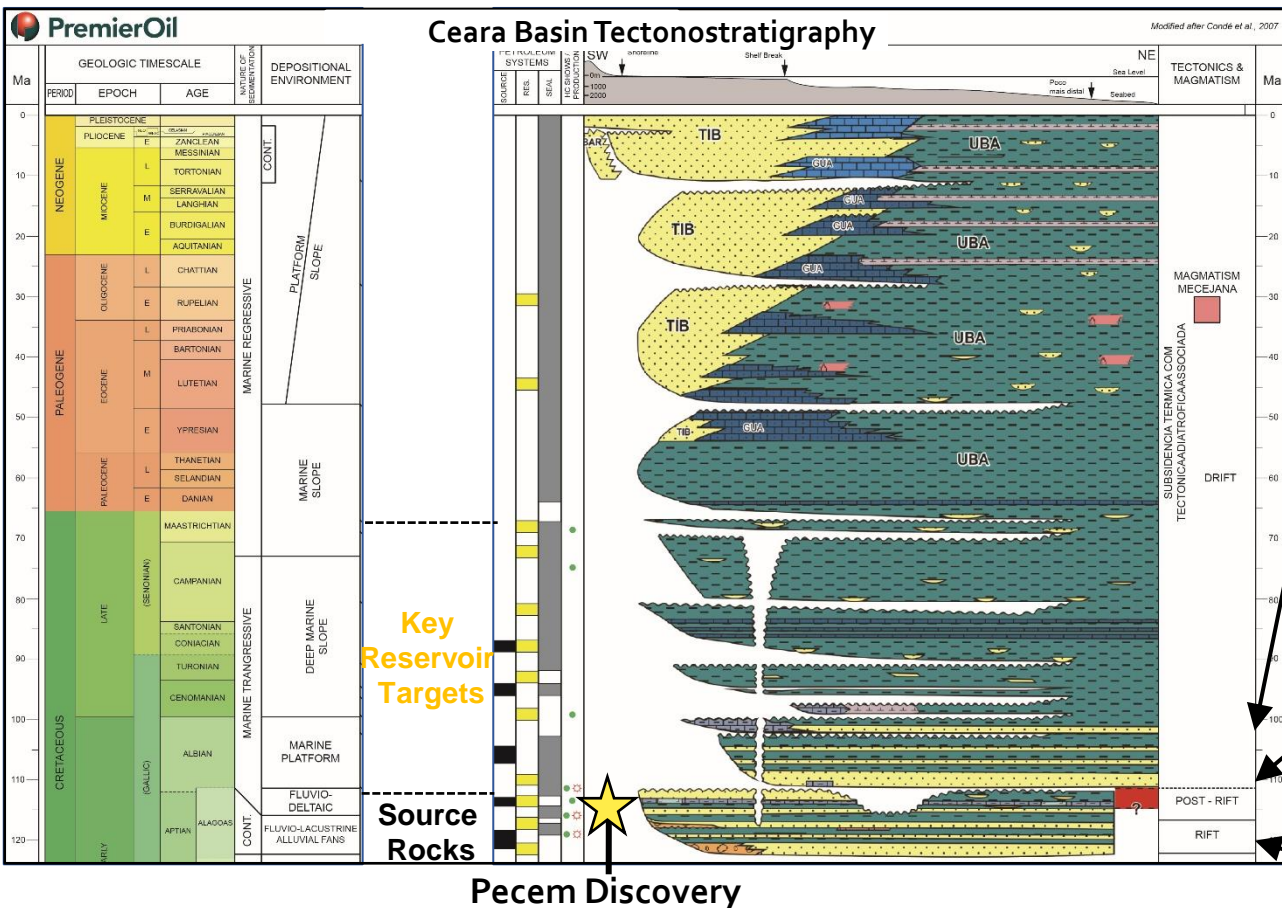
Premier Oil – Ceara Basin Licence Status



Ceara Basin: Extensive and Complete Dataset as Basis for Basin Mastery



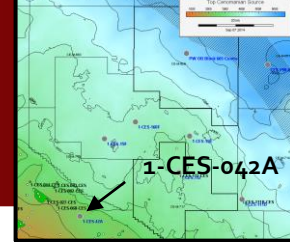
Ceara Basin – Typical Atlantic Margin Rift-Drift Stratigraphy



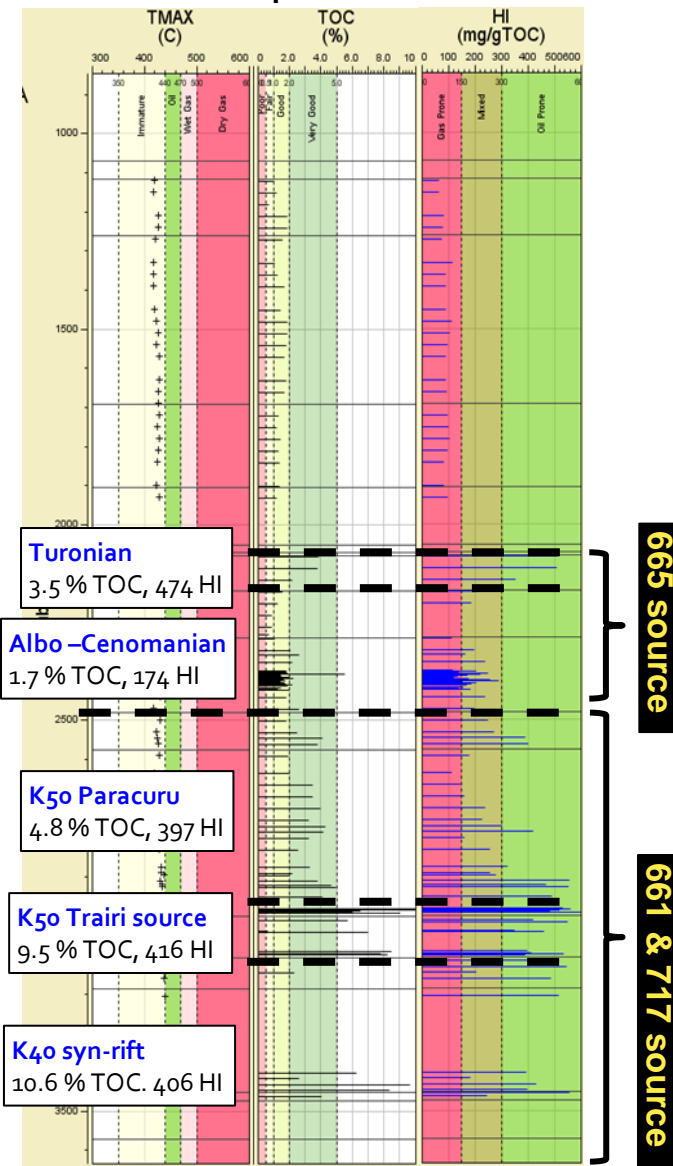
Petroleum system is calibrated by 146 wells (7 offshore)

- Multiple source rocks are proven, calibrated and modelled
- Mid-Upper Cretaceous reservoir sand delivery systems are well imaged by recent seismic.

Ceara Basin: Multiple Rich Source Rock Intervals



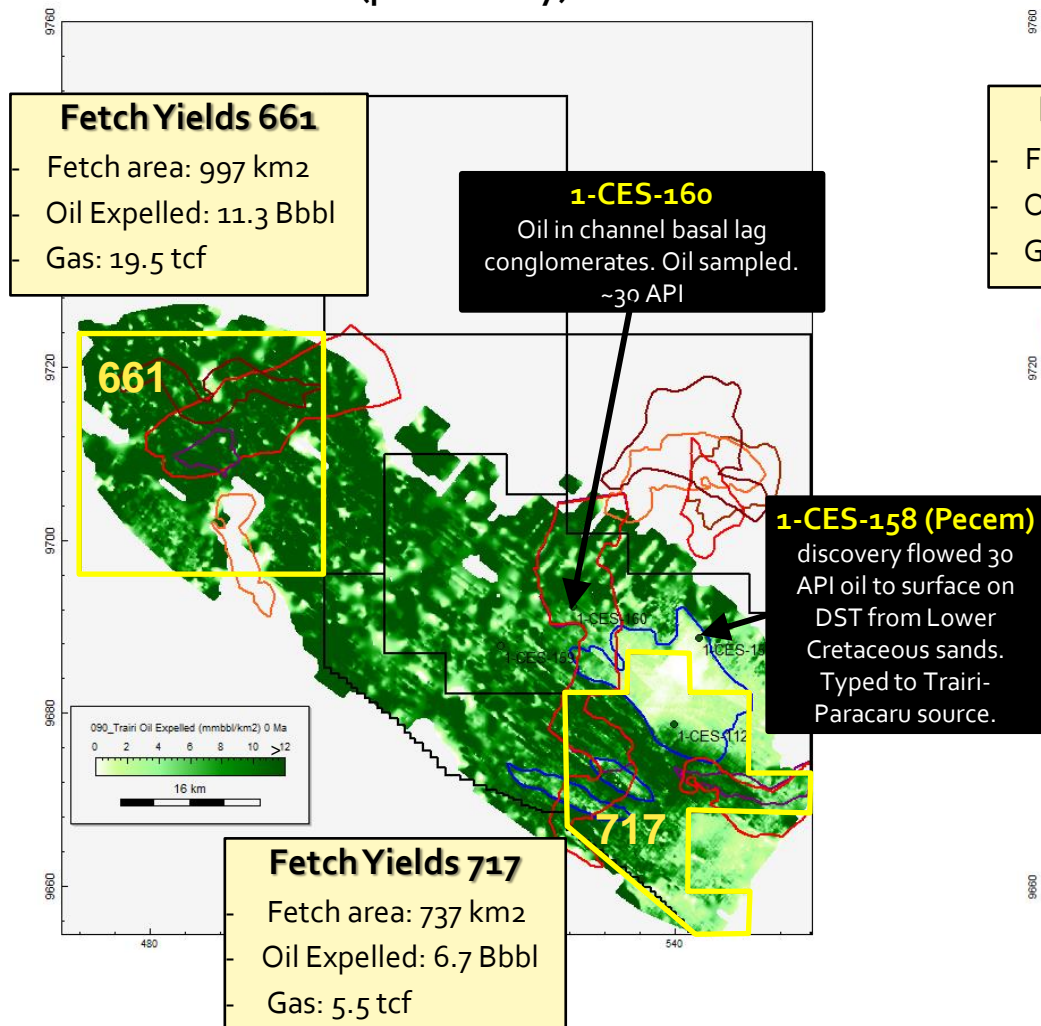
Well 1-CES-042A



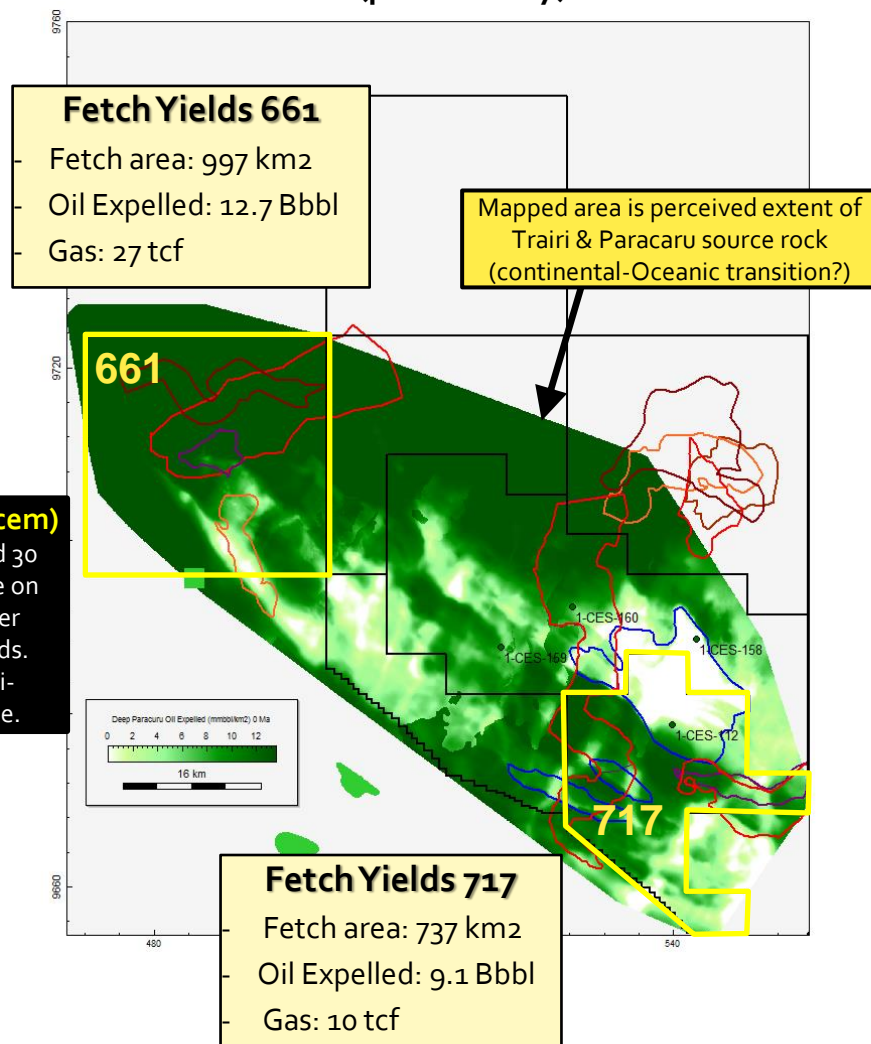
1. Turonian – marine source, oil prone
 - Present in some shelf and deep water wells
 - Not mature anywhere in basin
2. Albo-Cenomanian – marine source, mixed oil and gas
 - Present, but not proven mature in shelf and deepwater wells
 - TOCs typically 2-4% on shelf, and 4-6% in offshore wells 158, 159 and 160.
 - If present, models suggest oil maturity in deeper section
 - Proven effective mature source on conjugate margin
3. K50 Paracuru – Oil source rock beneath the drift unconformity
 - Widespread, including deep water wells
 - Good source quality package toward base.
 - Believed to partially contribute to some shelfal fields
 - Good viable source for CE-M-661 and CE-M-717.
4. K50 Aptian Trairi Member: marine carbonate/ evaporite/lacustrine, oil-prone
 - **Main source rock in Ceara Basin (shelf fields and 717 Pecem discovery)**
 - **717 and 661 are located in optimal Trairi oil kitchen**
 - **Not mappable outboard of 717/661**
 - **Several phases of expulsion (some quite late)**
5. K40 syn-rift lacustrine shales
 - Multiple lake floodings of rifted terrane
 - Laterally extensive and consistent in character
 - Some oils in shelfal reservoirs are typed to K40
 - Mostly in gas window offshore

CE-M-661 & 717 Are Both Optimally Located for Trairi and Paracaru Oil Kitchens

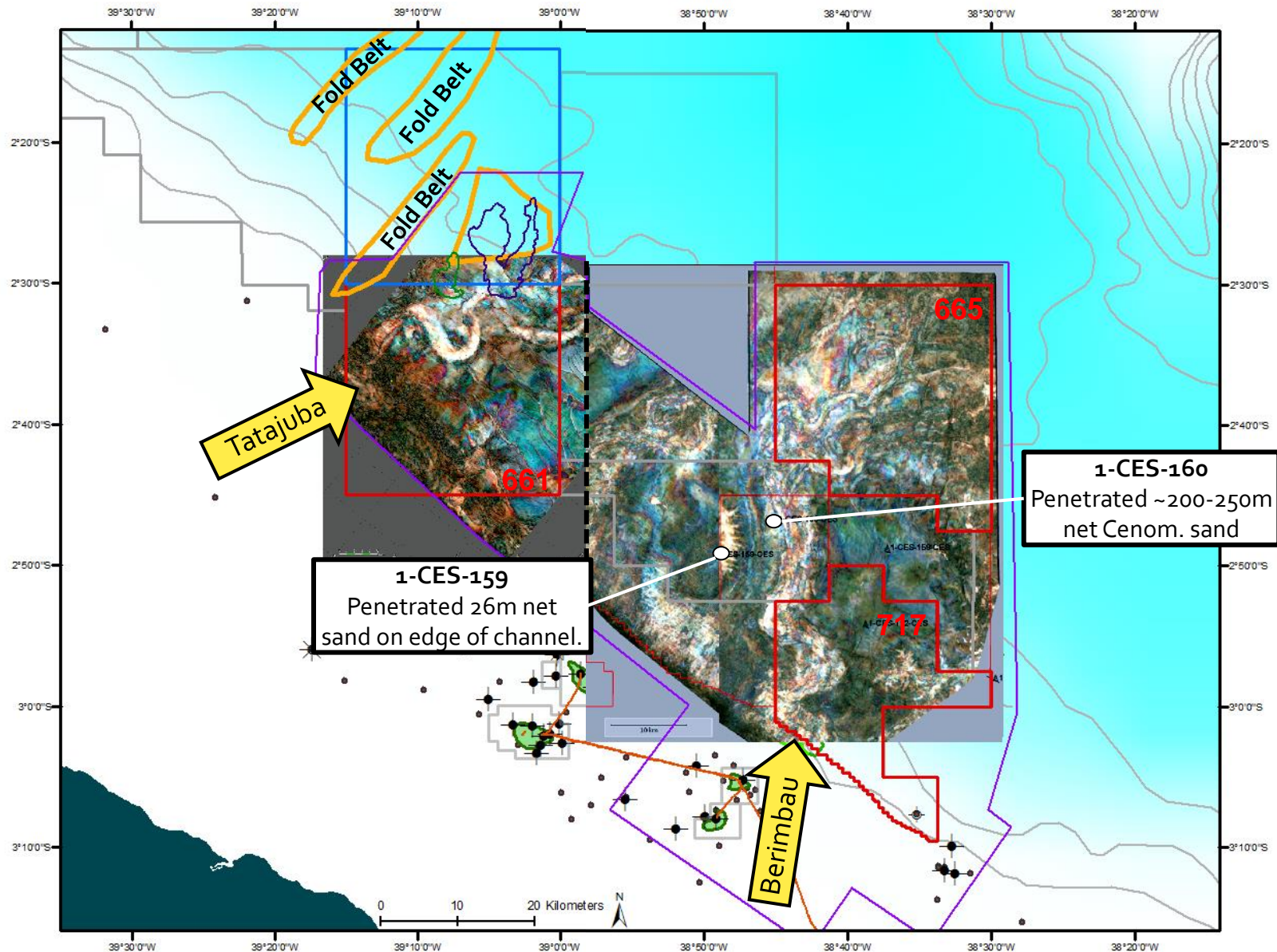
Trairi Oil Expulsion (present day)



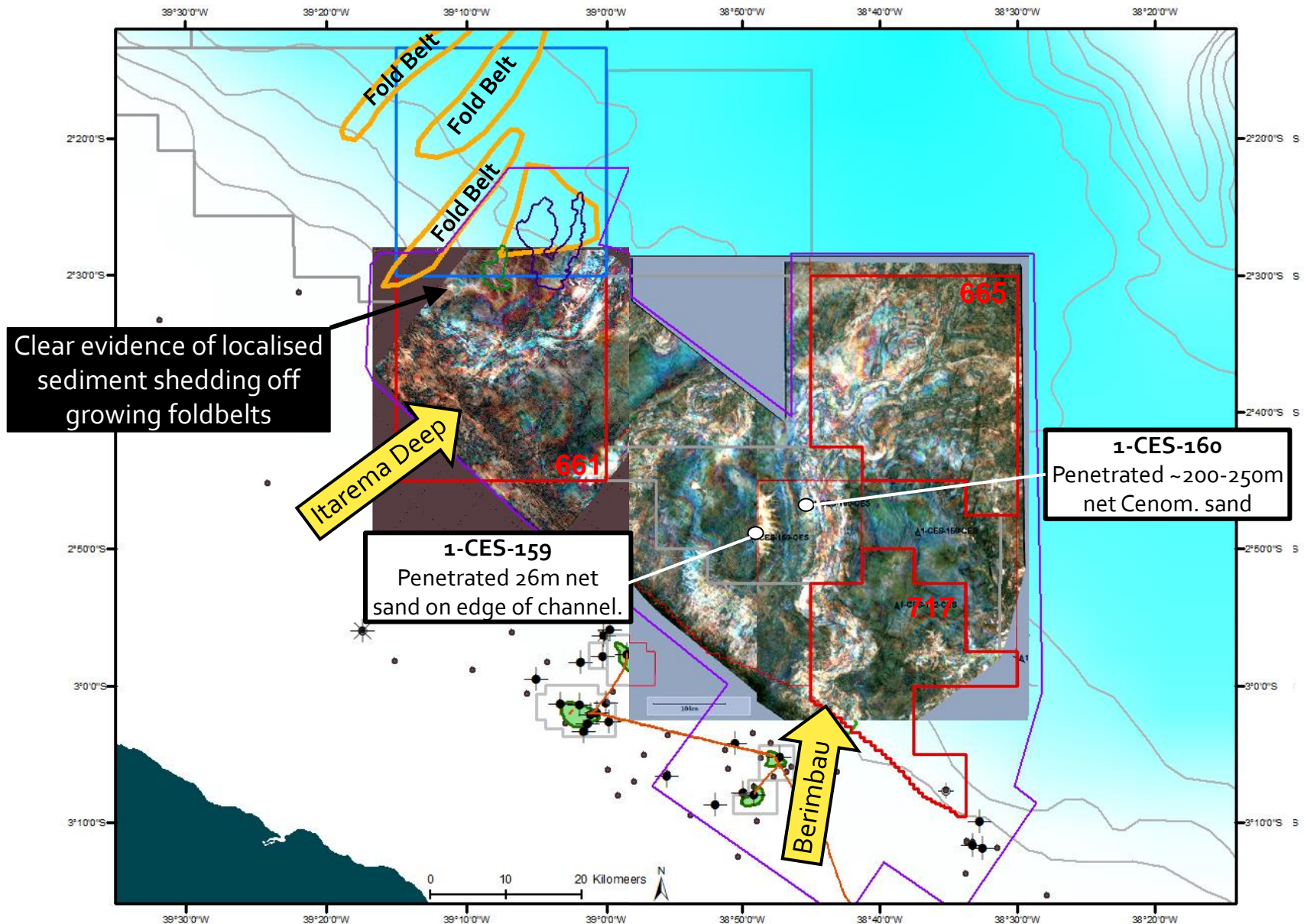
Lower K50 Paracaru Oil Expulsion (present day)



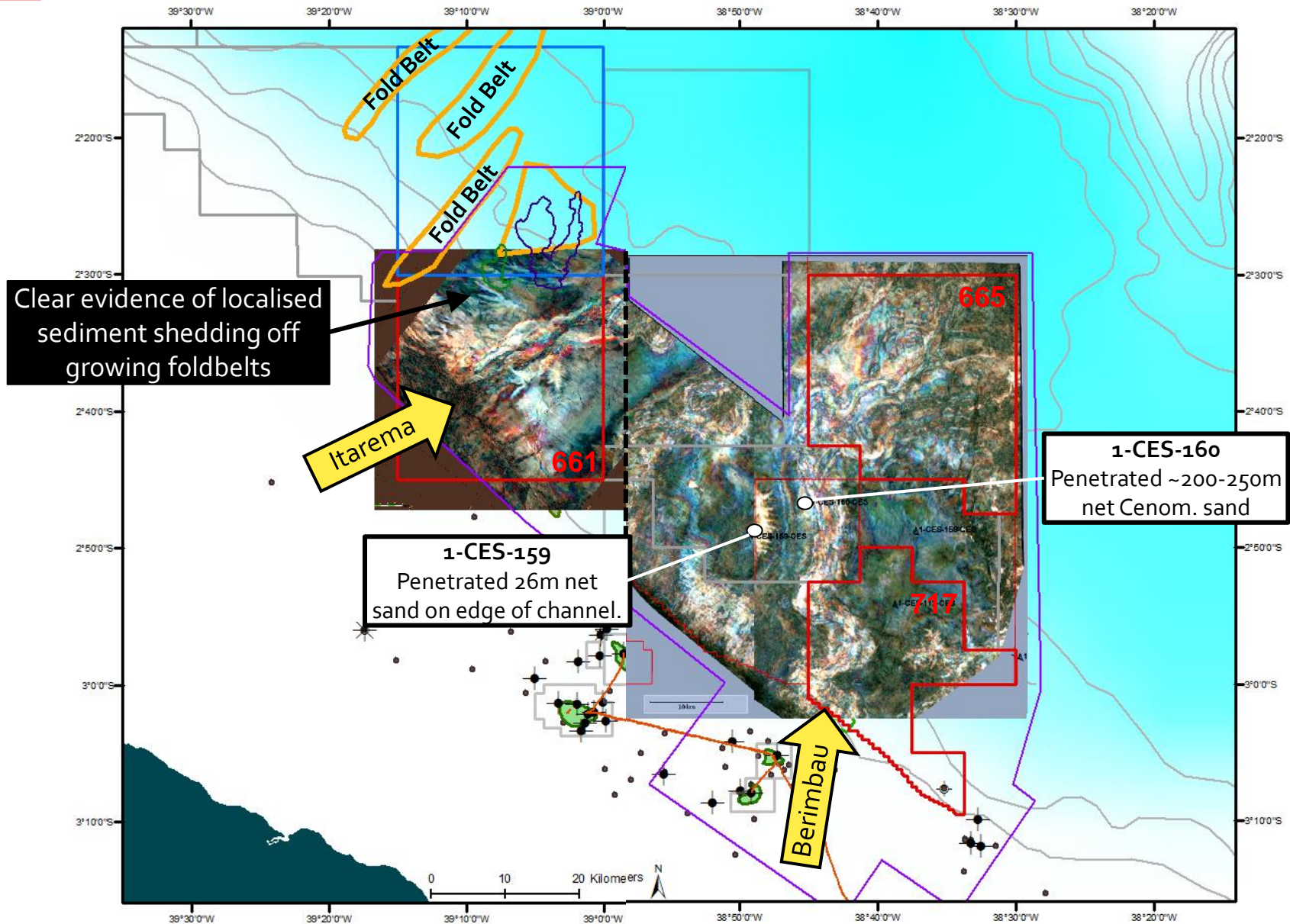
717 and 661 Are Optimally Sited For Mid-Cretaceous Sediment Delivery Systems (CE-M-717 – Cenomanian, CE-M-661 – Albian)



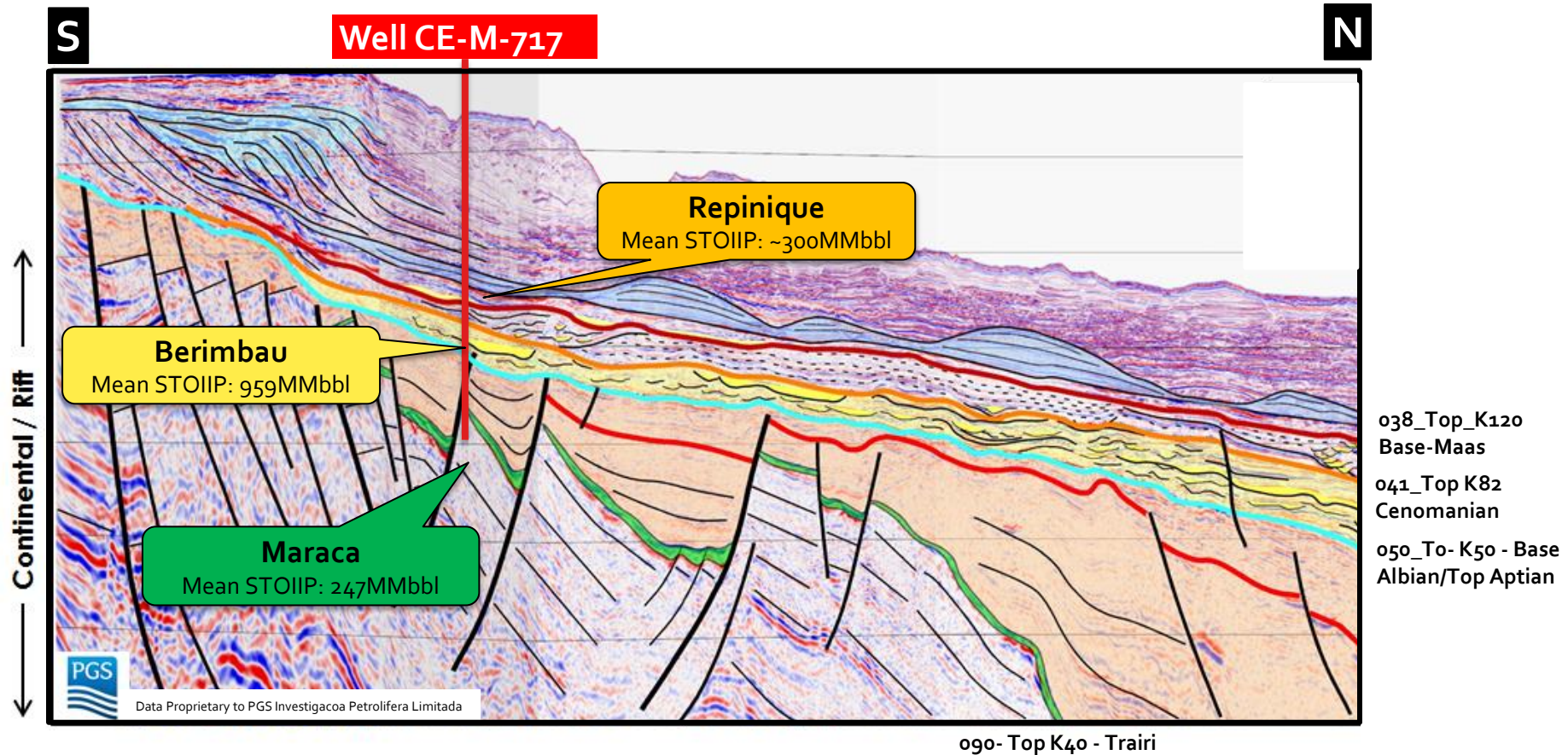
717 and 661 re Optimally Sited For Mid-Cretaceous Sediment Delivery Systems (CE-M-717 + 661 – Cenomanian)



717 and 661 re Optimally Sited For Mid-Cretaceous Sediment Delivery Systems (CE-M-717 – Cenomanian, CE-M-661 – Coniacian)

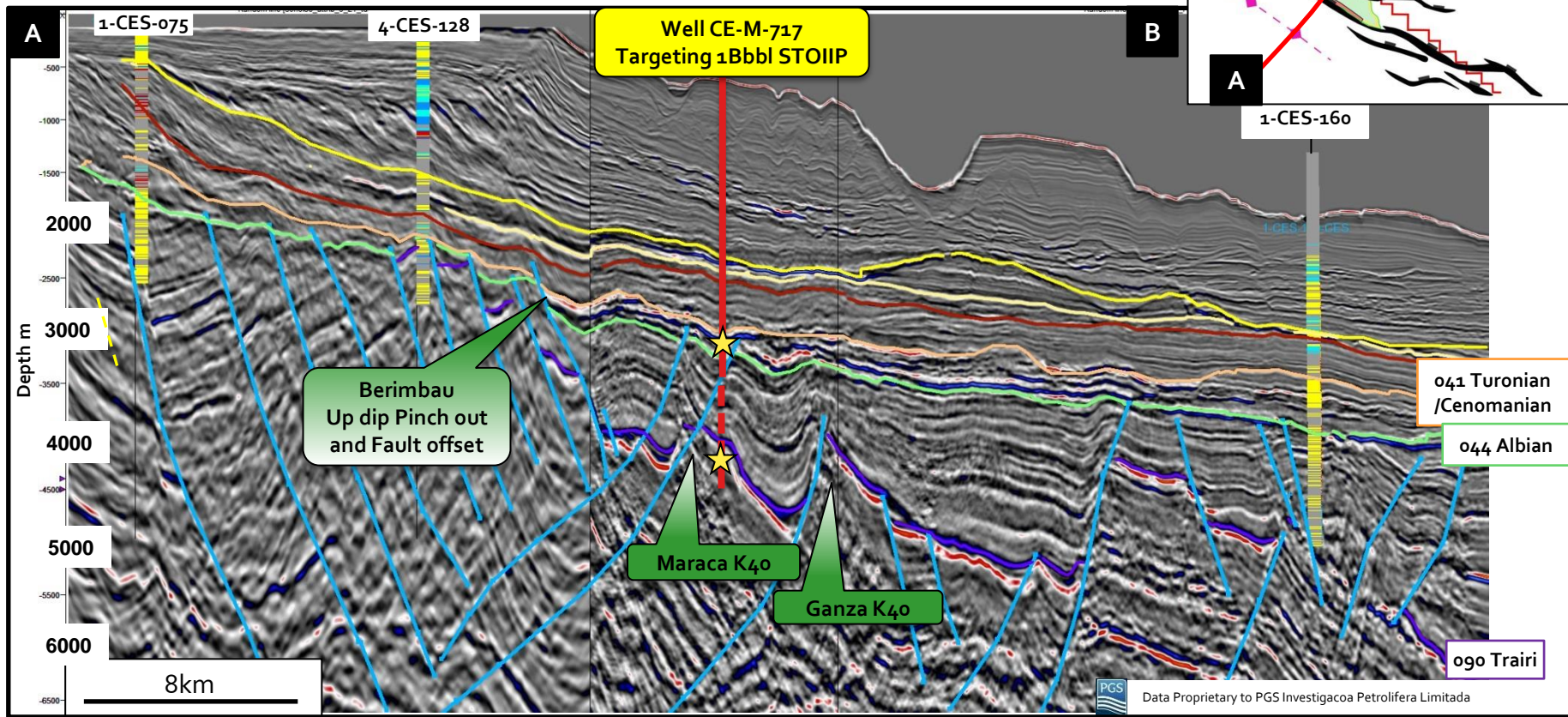


Ceara CE-M-717: 2-for-1 Well Targeting 1.5 Bbbl Mean STOIP

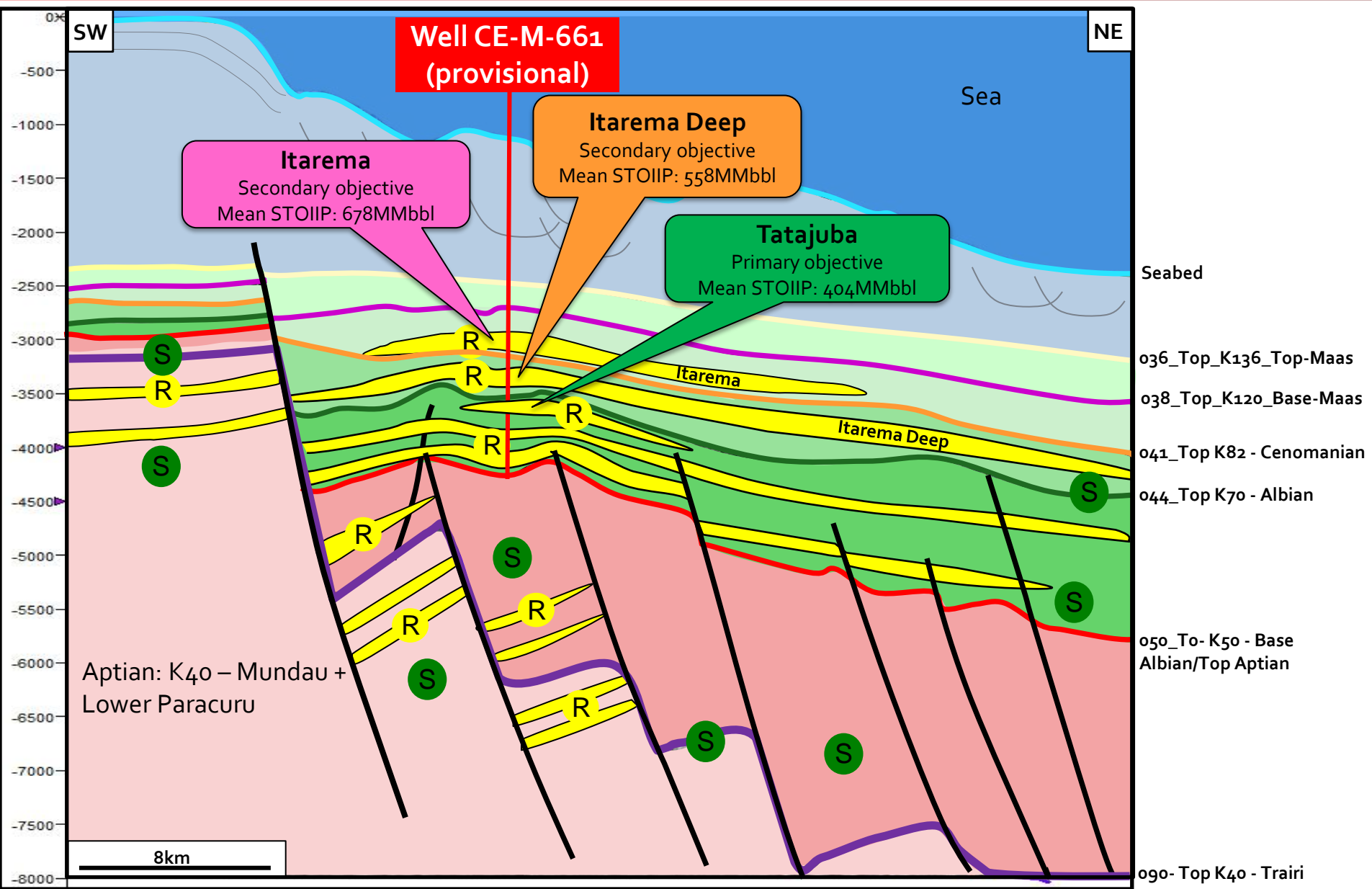


Ceara CE-M-717: 2-for-1 Well Targeting 1.5 Bbbl Mean STOIP

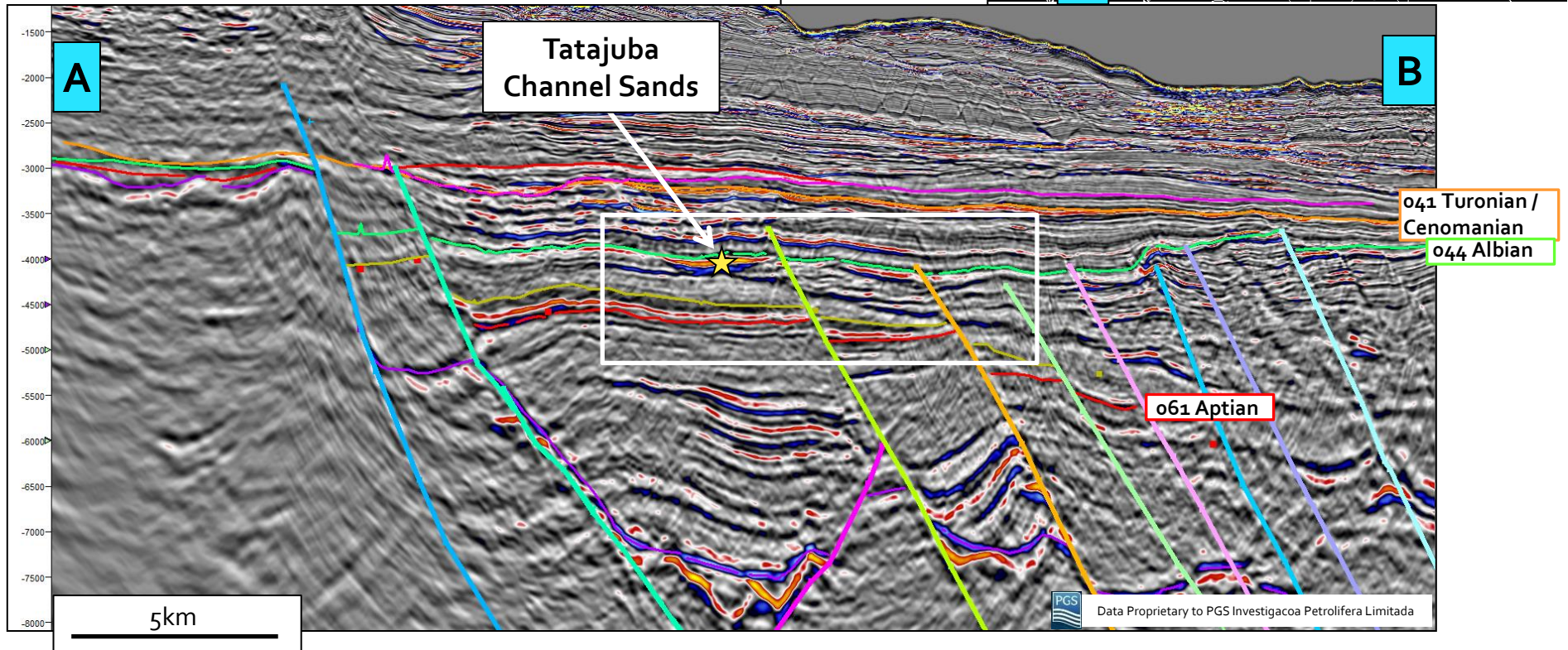
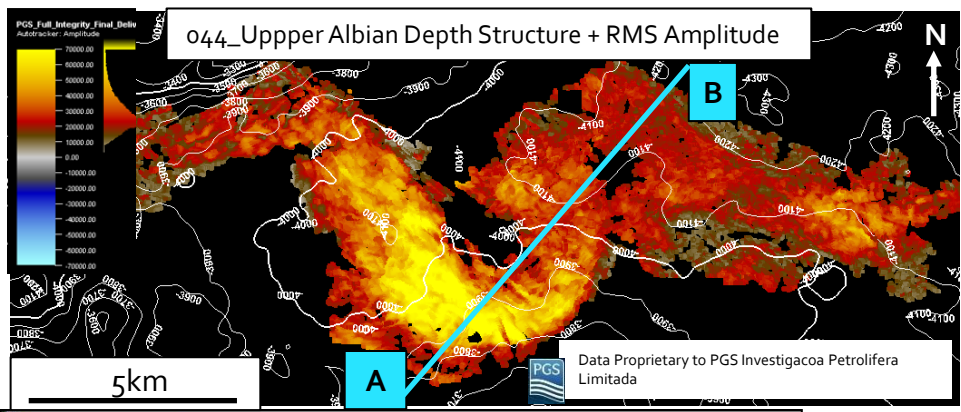
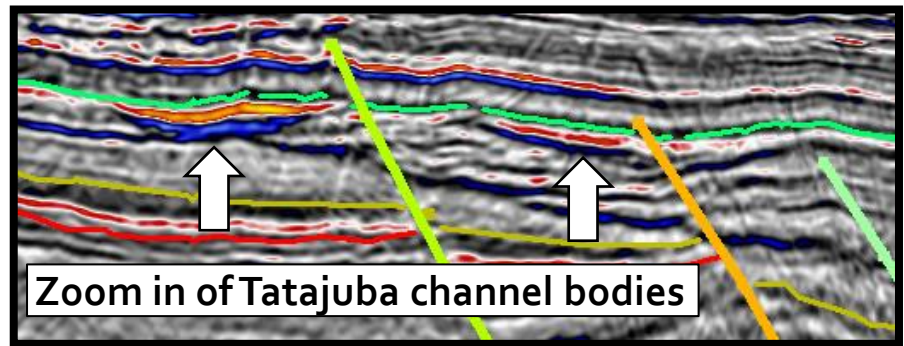
- Berimbau Pinches out at Fault + significant fault throw
- Stacked targets - Maraca + Ganza underlie Berimbau
- U. Cretaceous wedge thins onto shelf – more shale prone



CE-M-661 Stacked Plays Targeting 1.7Bbbl Mean STOIIIP

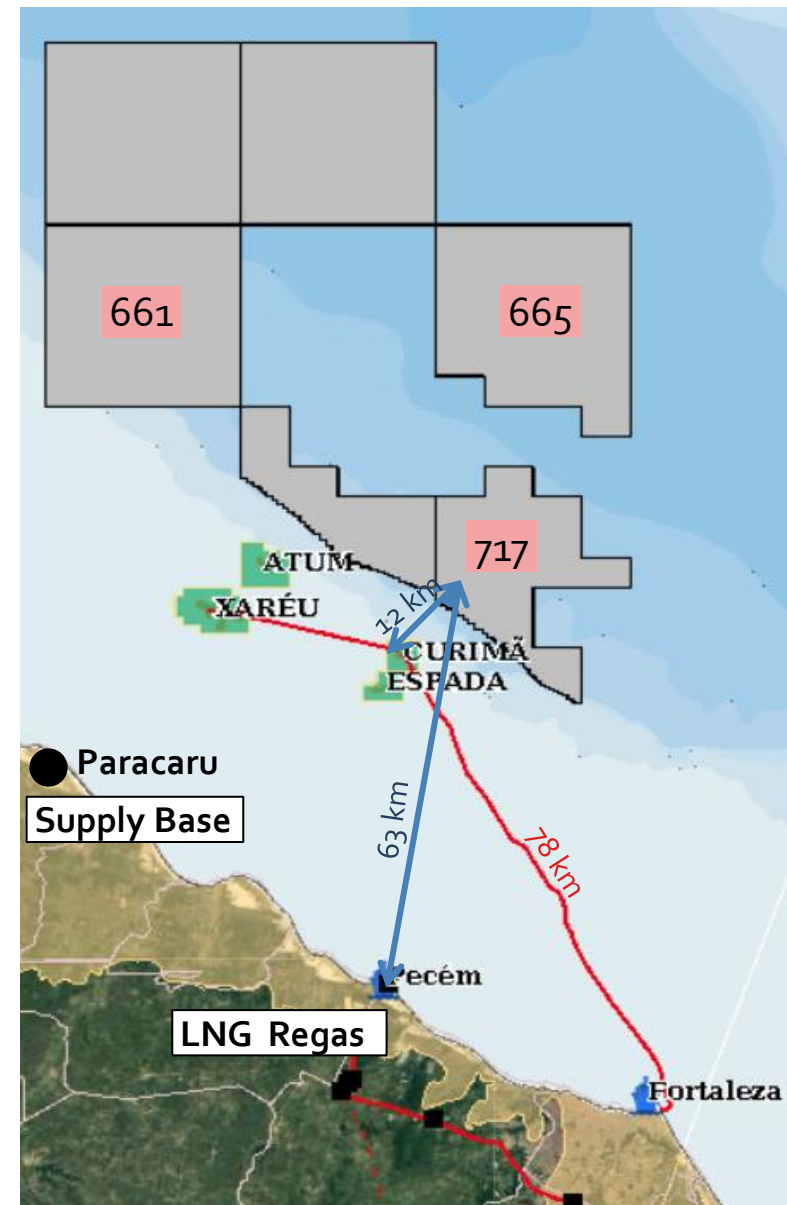


Ceara CE-M-661: Well Imaged Tatajuba Channel



Ceara Basin Shelf Fields Offer Significant Development Optionality

- Four oil fields exist on Ceara shelf:
 - Integrity of field infrastructure is good.
 - Plenty of ullage available
 - 10MW electric cable laid to Curima Field (6MW spare)
 - Existing 16inch gas export line to Fortaleza with large gas market.
- Significant room for negotiations on partnerships or infrastructure utilization.
- In case of marginal discovery increases options for monetization
 - Sell discovery, or HC's to new platform owners
 - Shallow water tiebacks result in less wells
- FPSO Scenario –
 - Gas Sales to shelf platforms, or Fortaleza pipeline
 - Eliminate pipeline permitting risk and reduce cost
- Shallow Water Platform Scenario –
 - Subsea tieback to wellheads
 - Oil offtake to FSU
 - Gas export to Fortaleza pipeline



Local Gas Market Access via - Fortaleza Pipeline or Pecem LNG Regass Terminal



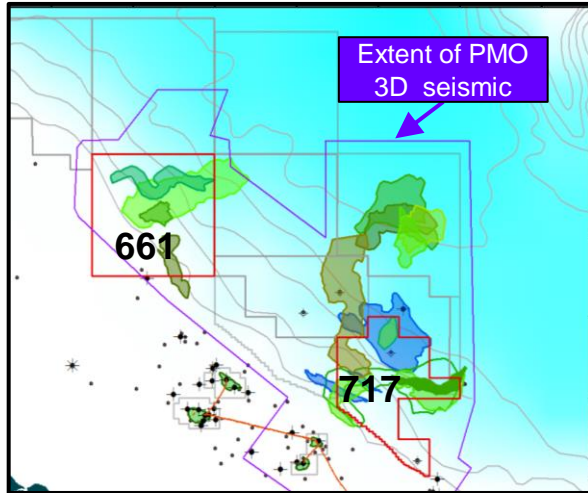
Ceara Support Base and Jetty Paracuru



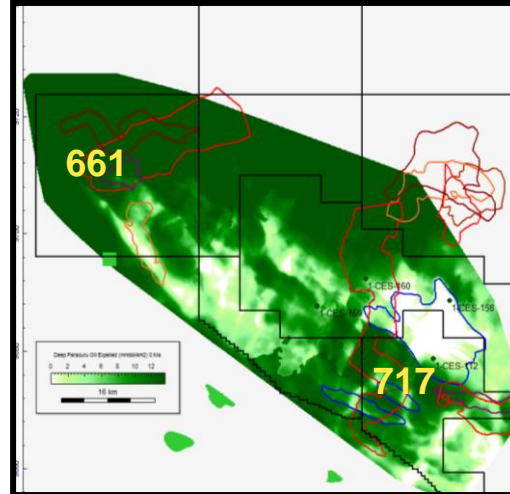
Ceara Basin Conclusions:

Both 717 and 661 are Highest Ranked Ceara Blocks

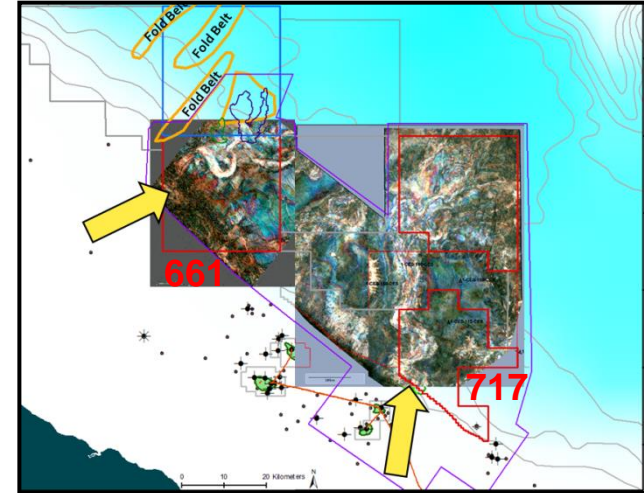
Prospects Identified on 3D



Source Oil Expulsion



Mid-Cretaceous Channels



1. Multiple Mid-Upper Cretaceous prospects (mapped on good 3D) in under-explored drift plays analogous to those proven in French Guiana and the conjugate Tano basin in Ghana.
2. Optimally located for mature Trairi and Paracaru source kitchen.
3. Optimally located for well imaged Mid-Upper Cretaceous sand delivery systems.
4. Diverse play types: channels, channel/fan drapes, rotated fault blocks.
6. Close to existing infrastructure resulting in significant Development optionality
7. Two wells drilling in 2020

END

