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ATLANTIA

- WHO is Atlantia today?
- WHAT are we known for?
- WHEN did we venture into ultra-deepwater?
- WHERE did we focus?
- WHY a semi-submersible FPU?

WHO is Atlantia today?

- EPCI mindset from our origin – SEAHORSE
- Continue to improve SeaStar® mono-column TLP technology (Larger and Deeper)
- Provider of Deep and Ultra-Deep platforms
- New Owners – IHC Caland

WHAT are we known for?

- 1st Generation SeaStar TLP

Morpeth

Allegheny

Typhoon

- 2nd Generation SeaStar TLP

Matterhorn

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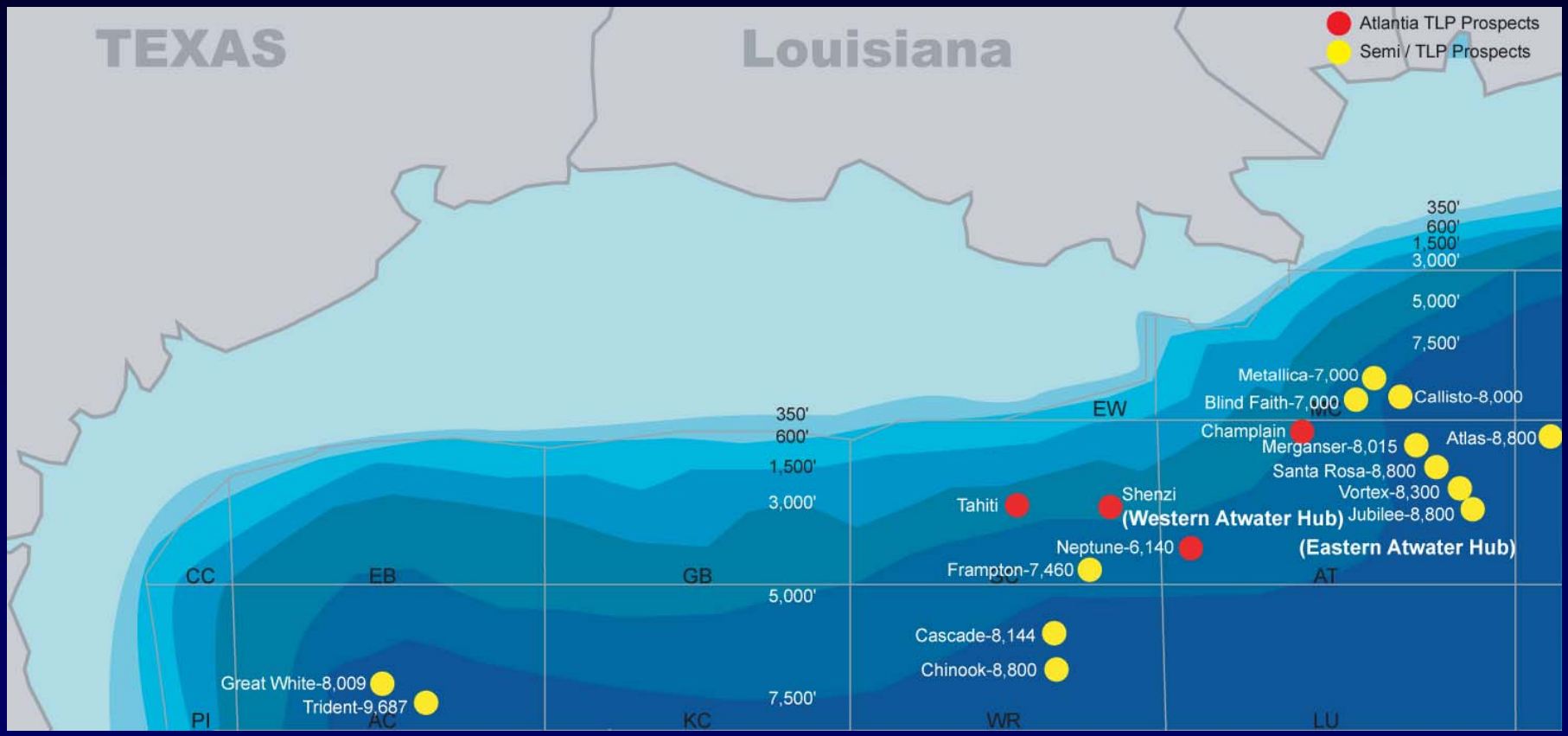
MEMBER OF THE IHC CALAND GROUP

WHEN did we venture into ultra-deepwater?

- Late 2002
- Double water depth of deepest TLP
- Growing market



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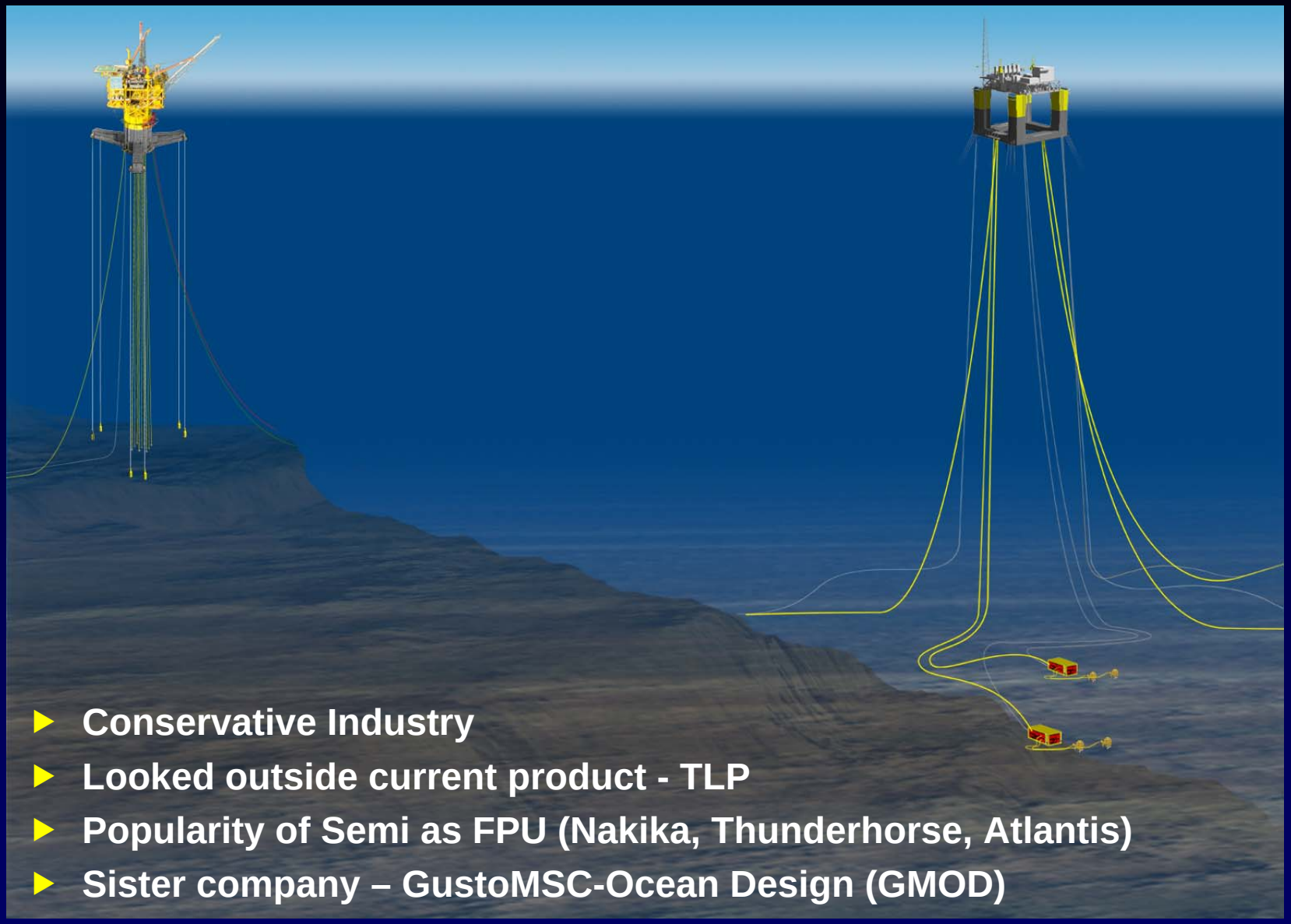
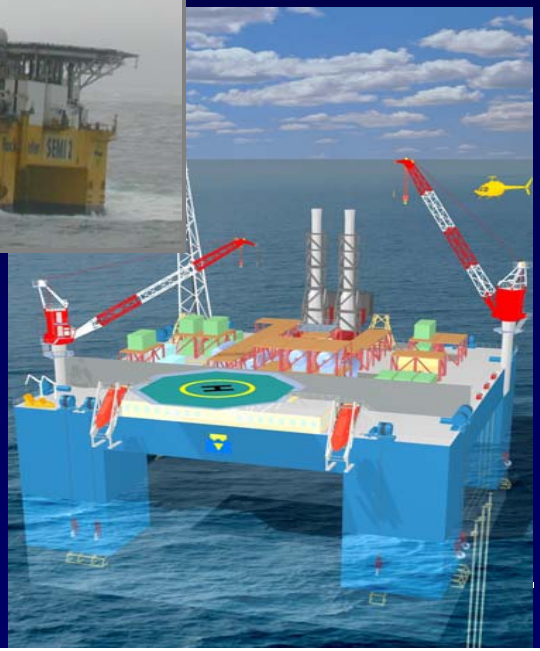
WHERE did we focus?



- Conservative Industry
- Looked outside current product - TLP
- Popularity of Semi as FPU (Nakika, Thunderhorse, Atlantis)
- Sister company – GustoMSC-Ocean Design (GMOD)

GMOD Experience

- **Installation Semi-Submersibles**
  - Heerema HERMOD, BALDER
  - Saipem SAIPEM 7000
  - McDermott DB101
- **Construction Semi-Submersibles**
  - Halliburton
  - Rockwater Semi 1 & Semi 2
- **Floating Production Units**
  - Preliminary Designs
  - FPU-8500 (shown)



WHY a semi-submersible FPU?

- Semi around for 40+ years / well understood
- Semi's operated in ALL environments
- Hull design similar to TLP
- Atlantia's project execution skills and GOM experience
- Combined skills of GMOD/Atlantia
- Relocatable / Leasable

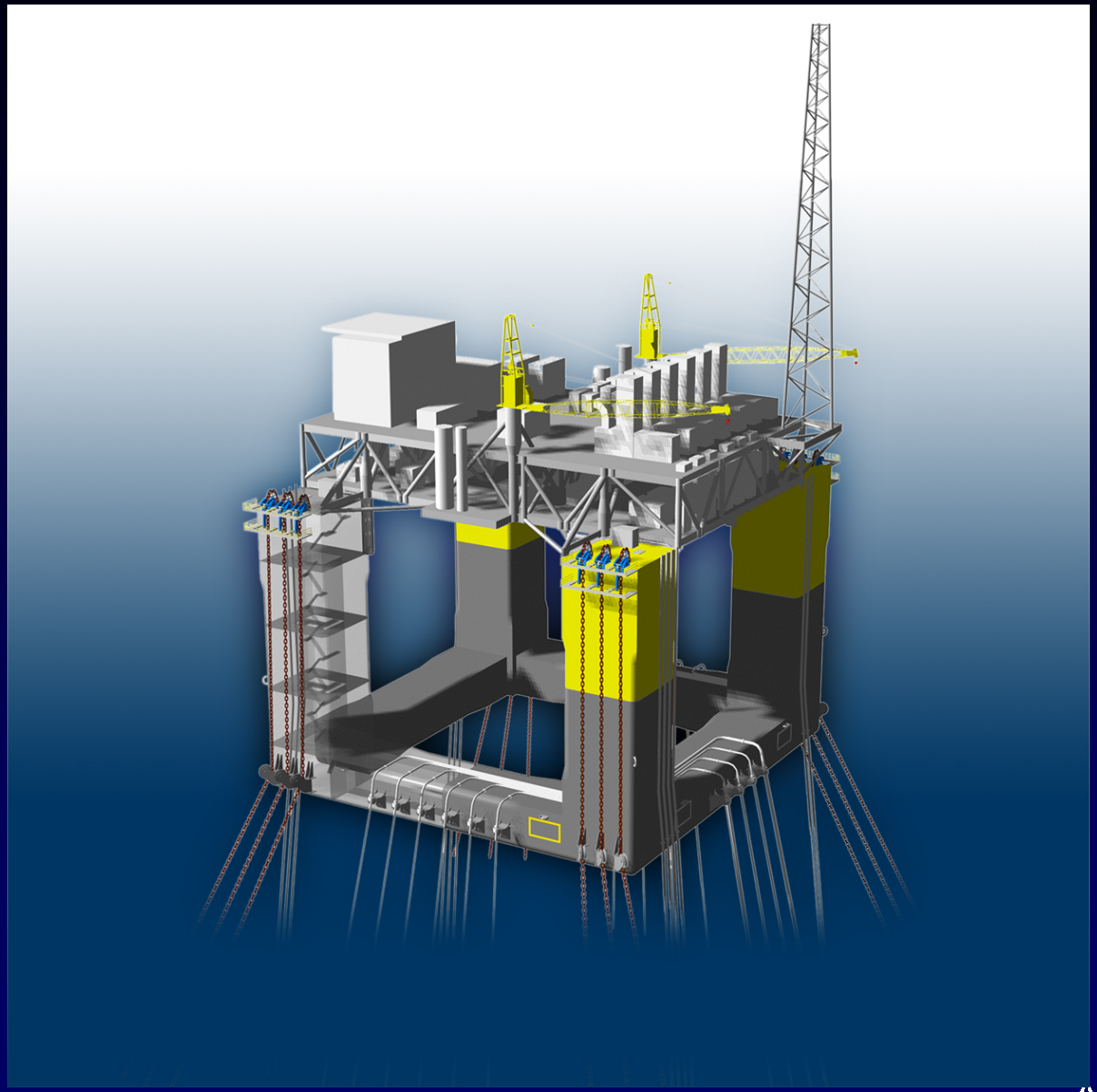
Atlantia Design Approach
“blank sheet of paper”

- Focus on SCRs
- Decoupling of hull and deck
- Hull designed for Quay-side deck lift and integration
- No derrick barges required for offshore installation

Design Basis

- Reviewed numerous GOM ultra-deep prospects
- Focused on Atwater Valley area
- 8500 feet water depth
- Primary mission for gas processing
- Riser/umbilical payload – 4000 to 5,000 tons
- Topsides Operating payload – 5,000 to 6,000 tons
- 18” Gas SCR

Hull Animation



Deck Design

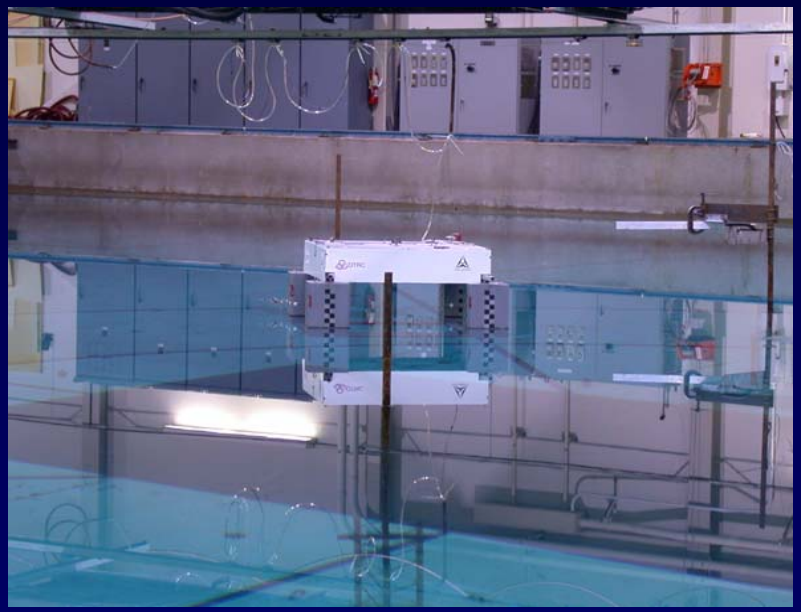
- De-couple deck fab from hull
- Prefer to procure/HUC equipment in GOM
- Deck must be configured for SCR installation
- Prefer lifted module(s) – trade off integration vs. lifting costs

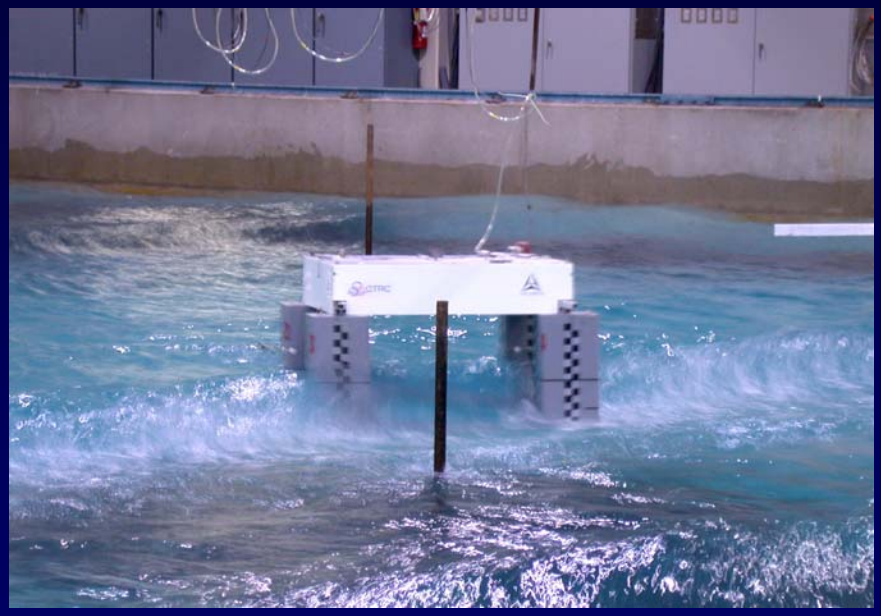
Installation
Sized for AHV-Based Vessels

- Preset Mooring Installation
- Host Transportation
- Host Transportation and Mooring Connection

Design Maturity

- Model Tests
- Completing Detail Design





Design Results

- Wet-tree semi hull
- Deep-draft, four columns, set on ring pontoon
- Water depth capabilities – up to 10,000 feet
- Scalable payload – 8,000 to 20,000 tons
- Twelve leg mooring (chain / polyester / chain)
- Two level deck
- Quayside integration

A Project?

- Yes!
- Detail design underway
- Confidentiality Agreement