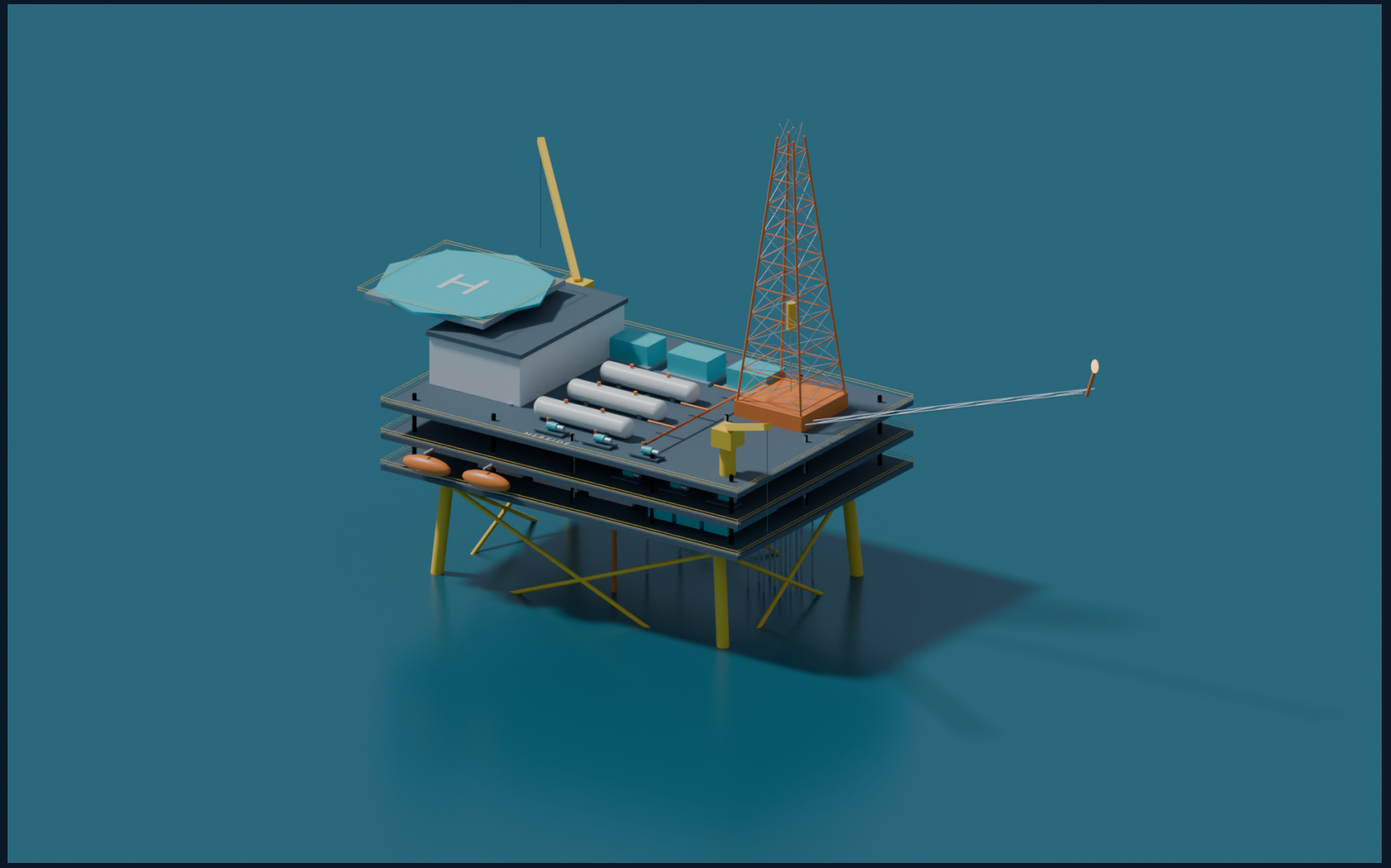
NEREIDE

Integrated offshore platform

3D model and technical narrative



CONCEPT STUDY / SYNTHETIC DATA / 18 NOVEMBER 2026

NEREIDE design basis

90 x 64 m

Nominal topsides

-95 m

Seabed relative to marine datum

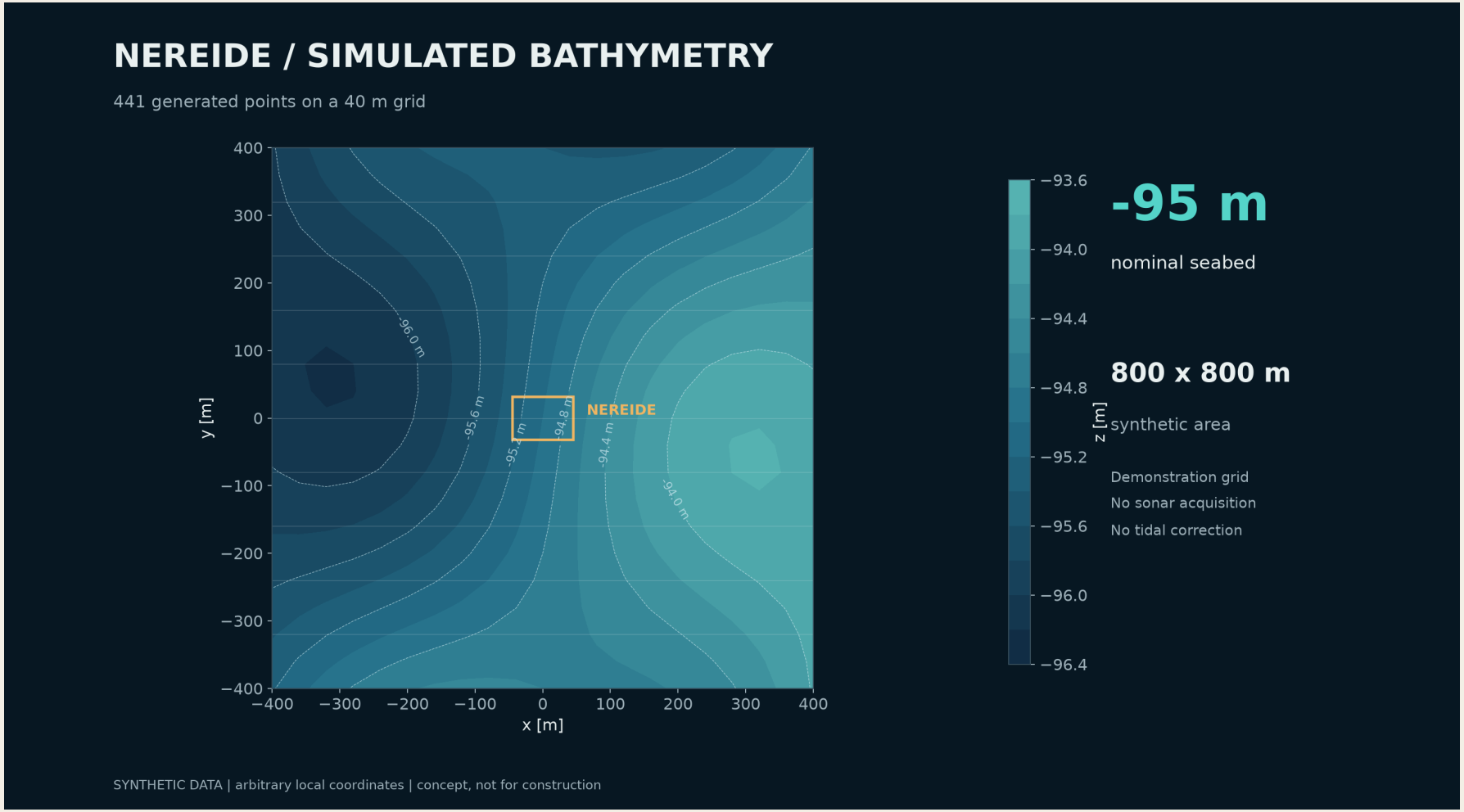
12 / 60,000

Well slots / assumed bbl per day

A jacket supports three nominal decks at +24, +31 and +38 m. Drilling, processing, utilities and accommodation form one scenario.

Geometry and capacity are case assumptions. No structural or reservoir verification.

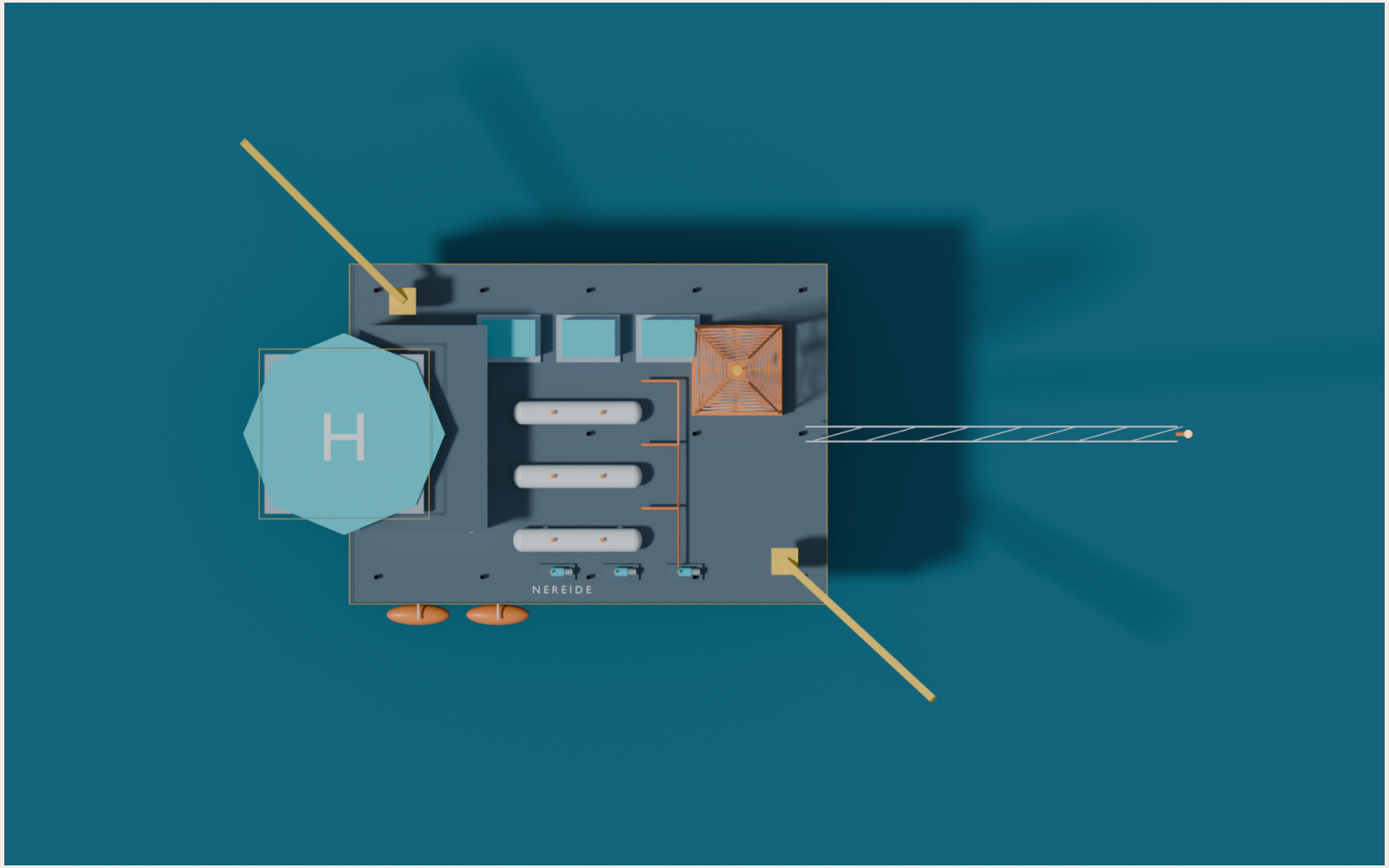
Synthetic bathymetry



No data were acquired offshore. Multibeam context: NOAA [S07].

Topsides arrangement

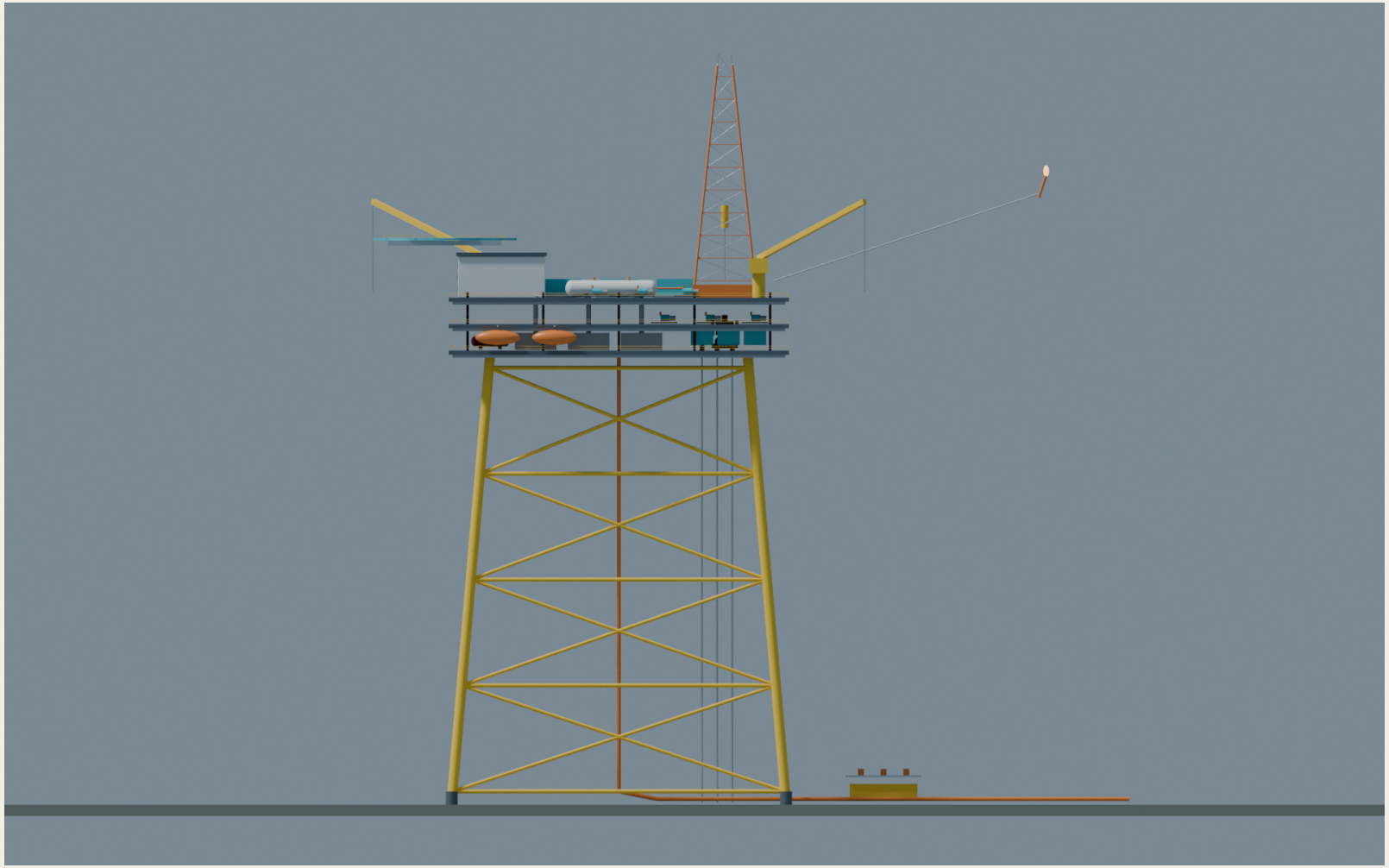
Drilling, processing and accommodation occupy distinct modules in the composition.



Top view of the model. Separation and escape have not been verified.

Jacket and decks

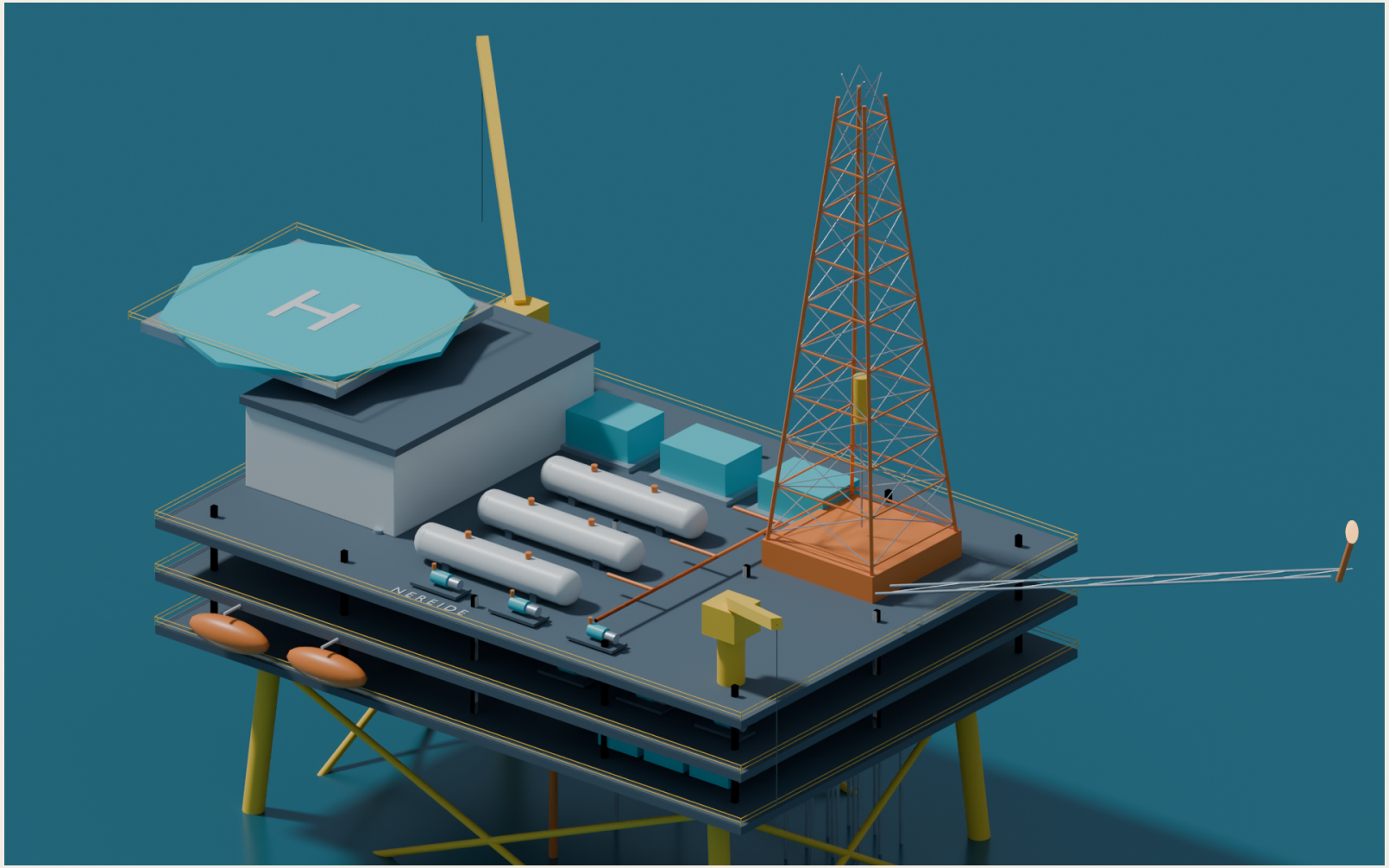
Three nominal levels at +24, +31 and +38 m connect structure and machinery.



No metocean, fatigue or foundation analysis.

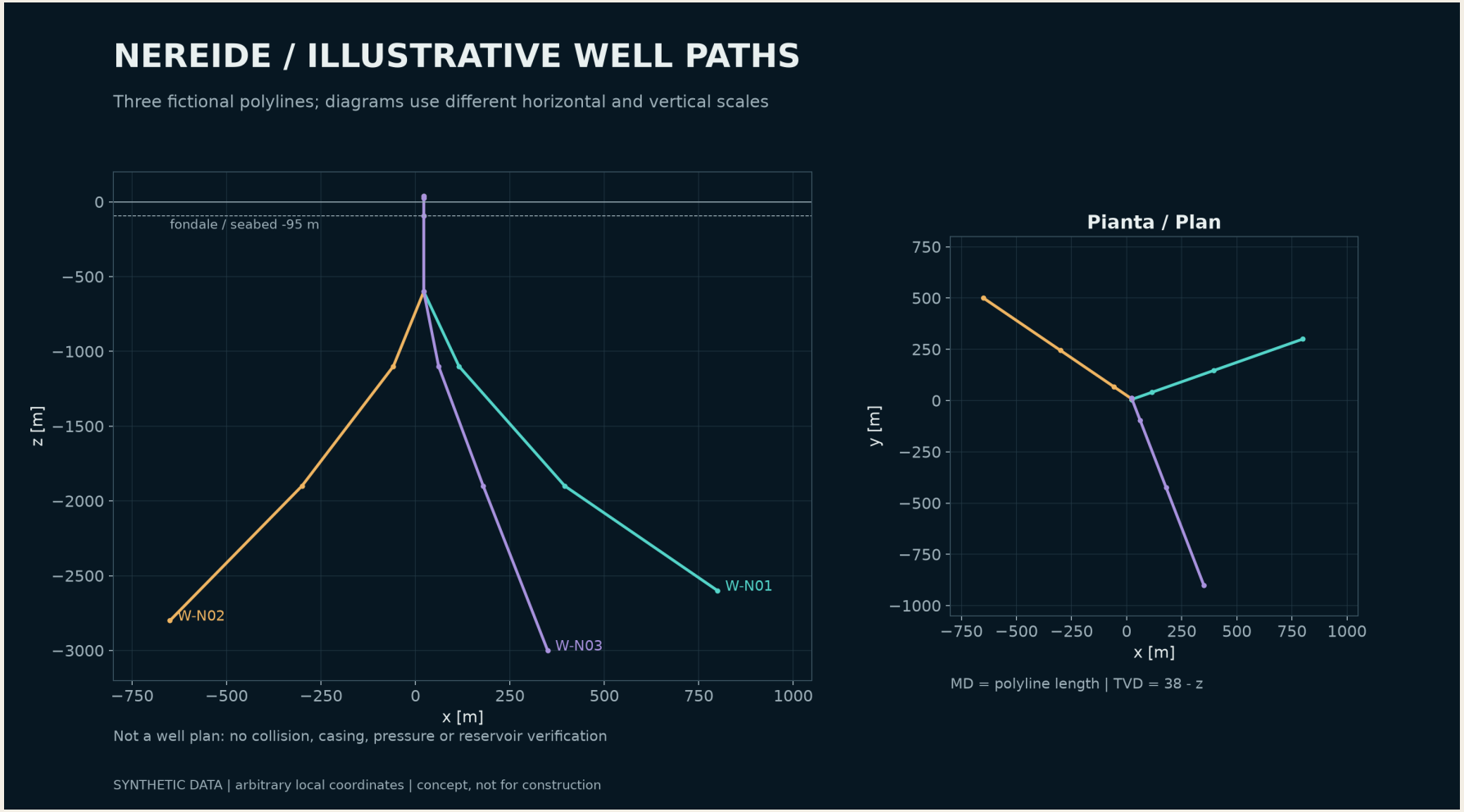
The drilling package

The derrick, pipe-handling area, mud system and well control identify the module functions.



Concept representation. No operational drilling programme.

Three illustrative well profiles



MD: sum of polyline segments. TVD: depth below the +38 m deck. Context: SLB [S08].

Production and treatment

Stream	Concept sequence	Destination
Well stream	Wells, manifold, separation	Oil, gas and water phases
Oil	Separation and treatment	Export riser
Gas	Treatment and compression	Platform use or export
Water	Produced-water treatment	Management to be engineered

Simplified functional sequence. No thermodynamic balance or sizing.

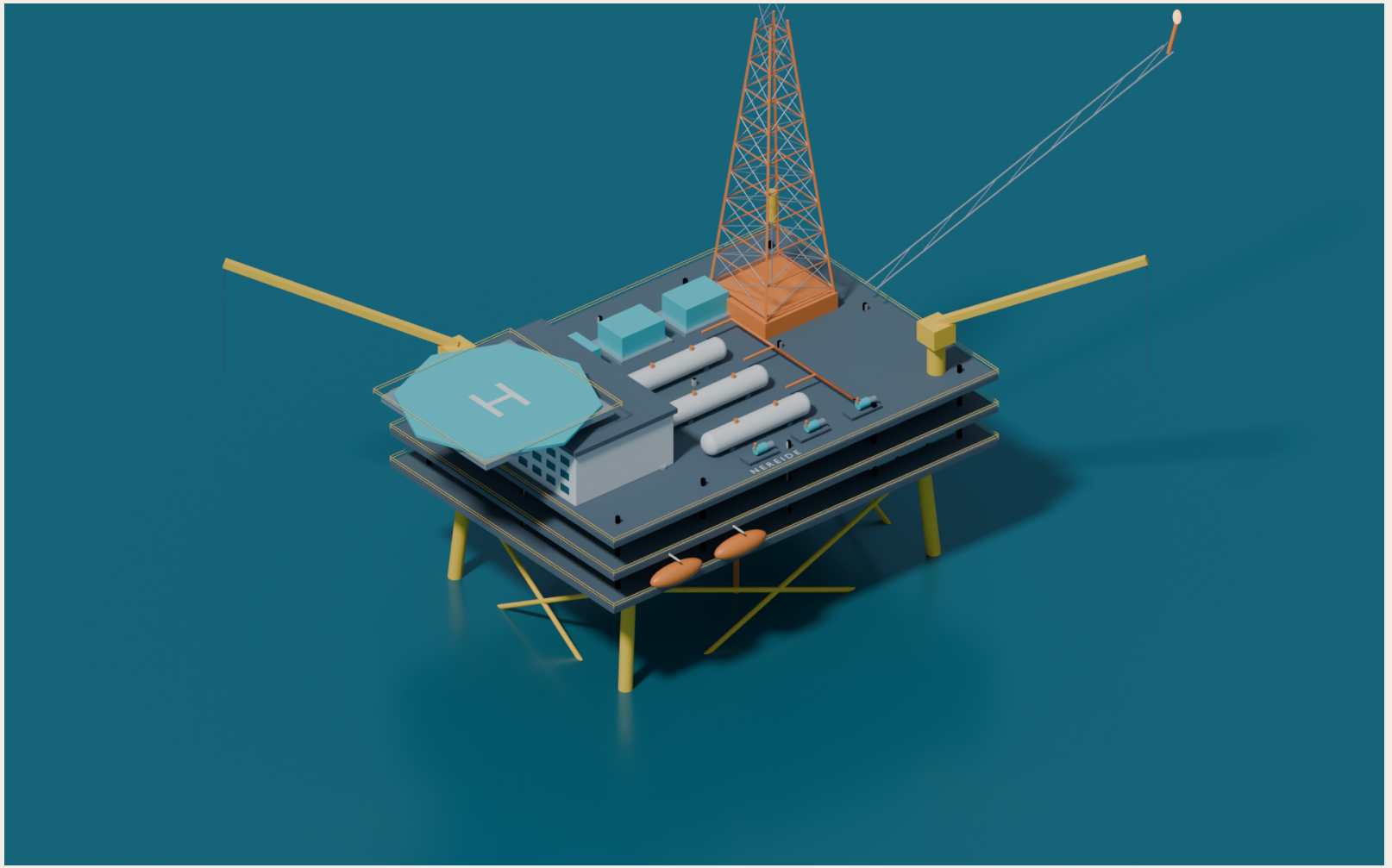
Machinery and modules

TAG	Description	Functional zone
V-301	Separator	30_PROCESS
V-302	Process vessel	30_PROCESS
P-301	Pump	30_PROCESS
GEN--22	Generator	60_UTILITIES
FIRE-WATER	Firewater module	60_UTILITIES
WH-01	Wellhead	40_DRILLING
RISER-01	Riser / conductor	40_DRILLING
K-301	Compression module	30_PROCESS

Tags present in the model. Conceptual functions without procurement specifications.

Living and working offshore

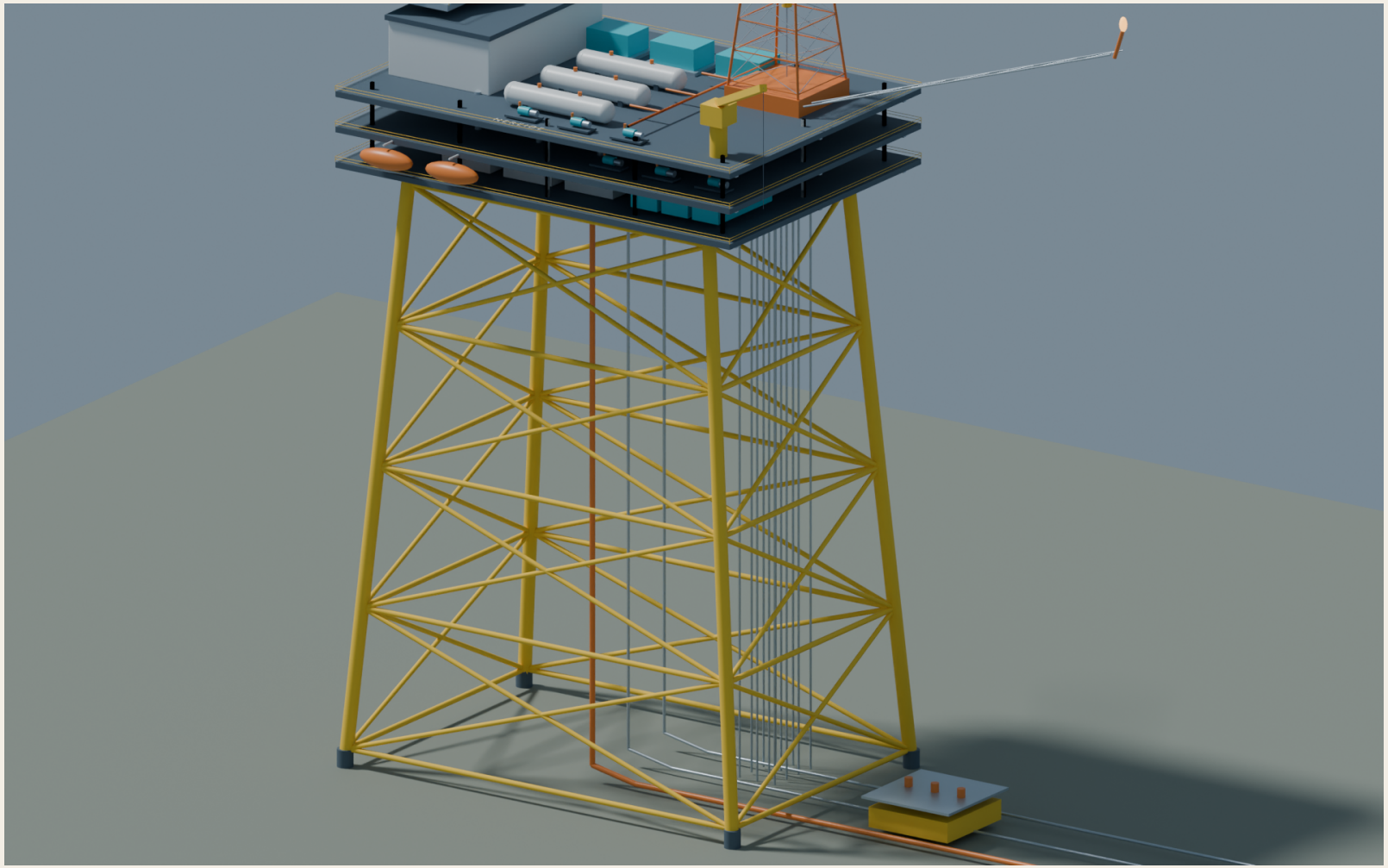
Accommodation, control, helideck, cranes and lifeboats complete the platform scenario.



Visual representation. Escape routes and area classification require specialist studies.

Above and below the sea

The jacket, conductors, risers and subsea links explain the continuity of the system.



The deep-well trajectory diagram is separate and not to scale.

The life cycle

	Stage	Content
01	Exploration and surveys	Site data, constraints and characterisation
02	Concept and verification	Layout and specialist studies before detail
03	Fabrication and assembly	Modules, structures and connections
04	Commissioning	Testing, procedures and operational handover
05	Operation and maintenance	Access, inspection and replacement
06	Decommissioning and restoration	Well abandonment and structure removal

Narrative sequence. Schedule and costs have not been estimated.

Model scope

Included in the package	Declared level
3D assembly and machinery	Conceptual envelopes and geometry
Plans, elevations and images	Views of the built scenario
Surveys, boreholes and trajectories	Reproducible synthetic data
Schedules and presentations	Concept documentation
Specialist calculations	Not performed in this study

Intended use: presentation and concept development. Not for construction, operation or procurement.

Sources and assumptions

The sources support general technical context. Capacity, site, geometry, surveys and subsurface profiles belong to this synthetic scenario.

S05 **BOEM / BSEE / Offshore exploration and production life cycle**

Offshore exploration, development and production sequence.

S06 **BSEE / Decommissioning**

Well abandonment and structure removal/disposition at end of life.

S07 **NOAA / Hydrographic survey equipment**

Role of multibeam echo sounders, bathymetry and backscatter.

S08 **SLB / Directional drilling and measured depth**

Directional wells and the distinction between along-hole length (MD) and true vertical depth (TVD).

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