

Capability Statement

TerraNexa Maps — 3D WebGIS, spatial analytics and geospatial execution partner

TerraNexa Intelligence delivers end-to-end 3D WebGIS, spatial analytics and custom mapping systems for international consortiums, government contractors and technology enterprises. We are engaged as a subcontractor on defined geospatial work packages, as a consortium partner from bid preparation through execution, and as embedded senior capability for specific programme phases. TerraNexa Intelligence is the geospatial division and a trading name of THEAIPLUSPLUS LTD, a company registered in England & Wales with company number 17397374. Contracts and invoices are issued by THEAIPLUSPLUS LTD, registered office 82a, James Carter Road, Mildenhall, United Kingdom, IP28 7DE.

Core competencies

3D WebGIS & digital twins

Photoreal and schematic 3D scenes, operational dashboards and analyst tools running in the browser. Cesium, deck.gl and MapLibre over real terrain, 3D tiles and live feeds.

Spatial databases & analysis pipelines

PostgreSQL/PostGIS schema design, indexing and migrations; ETL and tiling for vector, raster and point-cloud data; reproducible scheduled analysis with monitored runs.

Remote sensing & data integration

Sentinel and Landsat ingestion, cloud masking and derived indices; AIS, telemetry, IoT and weather feed integration; fusion of disparate sources onto one reconciled timeline.

Operational picture (GEV)

One continuously updated view of a whole site or network: digital twin, live telemetry, sensor feeds and asset register resolved onto the same coordinates and clock.

What sets us apart

- ✓ Eleven products deployed and publicly openable — claims are verifiable, not referential.
- ✓ One shared spatio-temporal engine, so entering a new sector is modelling work rather than a platform rebuild.
- ✓ Senior engineers on the delivery path; no layer between scope and implementation.
- ✓ Built to be handed over: source, schemas, infrastructure-as-code and documentation on delivery.

Past performance

- ✓ ClarityGrid — substation-to-home power flow digital twin over photoreal 3D Lower Manhattan, with live per-building consumption over the daily load cycle.
- ✓ Maritime Corridor Risk & Routing — live AIS vessel flows through nine choke points with reroute pricing per vessel.
- ✓ Cold Chain Integrity — predictive cross-border cold chain monitoring across nine jurisdictions on a 48-hour horizon.
- ✓ TransitOptimizer, Telecom5GCongestion, AirTraffic4D, ClimateCausality, CropHealth, WaterHydraulics, MarketCongestion, StorageBacktest — deployed spatio-temporal products across transport, telecoms, climate, agriculture, water and energy.
- ✓ CashPilot — deployed full-stack SaaS with subscription billing, background automation and an AI assistant, demonstrating transactional product delivery beyond mapping.

Technical stack

- ✓ 3D & GPU: CesiumJS, deck.gl, MapLibre GL, Mapbox GL, Three.js, Google Photorealistic 3D Tiles
- ✓ GIS platforms: ArcGIS (JS API, Pro, Enterprise), QGIS, GRASS GIS
- ✓ 2D web mapping: Leaflet, OpenLayers
- ✓ Spatial data: PostgreSQL + PostGIS, GeoServer, GDAL/OGR, PDAL, rasterio, GeoPandas, DuckDB Spatial, GeoParquet, PMTiles, STAC
- ✓ Earth observation: Sentinel-2, Landsat, Google Earth Engine, SAR

- ✓ Engineering: React, TypeScript, Node.js, Python, FastAPI, Docker, Kubernetes, Terraform, GitHub Actions, AWS/Azure/GCP, Nginx

Engagement models

Subcontracting a defined scope

We take the WebGIS and mapping modules against your specification, schedule and acceptance criteria, reporting into your programme structure.

Consortium partner

We join the bid as technical partner — method statement, architecture and defensible estimates — and deliver the work we helped specify.

Technical capability augmentation

Embedded senior geospatial capacity for a phase, with documented handover and a supported transition.

Contact

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