

EvolveCG, LLC is a Charlotte, North Carolina analytical services firm specializing in **geospatial data production, quantitative modeling, and independent advisory support**. We build and operate production pipelines that convert authoritative open geospatial and statistical sources into validated, versioned, decision-ready data products. Our work is method-first: every deliverable traces to a named source, a documented method, and an explicit assumption set — so a third party can audit it, and regenerate it.

CORE COMPETENCIES

Geospatial Data Production

- Ingestion of authoritative open geospatial sources — Census cartographic boundary files, federal open data, Overture Maps
- Shapefile, GeoJSON, and vector tile (PMTiles / MVT) conversion and packaging
- Schema transformation and conformance to a target data specification
- Automated validation, schema-drift detection, and QA gates
- Versioned, repeatable refresh pipelines with retained provenance
- Cost-efficient tile hosting and delivery to standard GL mapping clients

Data Analysis & Modeling

- Demographic and population modeling from federal statistical sources
- Demand forecasting with explicit uncertainty bands (P10 / P50 / P90)
- Cost, staffing, and multi-year financial modeling
- Multi-source data fusion, reconciliation, and conflict resolution
- Scenario and sensitivity analysis under stated assumptions
- Reproducible methods with auditable inputs and version history

Advisory & SME Support

- Independent review and validation of third-party analyses
- Feasibility studies and business-case development
- Methodology design, documentation, and defensibility review
- Data source assessment and requirements definition
- Short-duration taskings and surge analytical capacity

TECHNICAL ENVIRONMENT

- GDAL/OGR and mapshaper — geospatial format conversion
- Tippecanoe — vector tile generation
- PMTiles — single-file, serverless tile distribution
- MapLibre GL JS / Mapbox GL JS — delivery clients
- Node.js — cross-platform, re-runnable build automation
- Cloud-hosted pipelines with scheduled refresh and schema-contract testing

DIFFERENTIATORS

- **A production toolchain, not slideware.** The geospatial pipeline described here runs in production today supporting our own analytics platform.
- **Reproducible by a third party.** Re-runnable pipelines and versioned inputs — our output can be regenerated, not merely read.
- **Independent findings.** We report what the data supports, including when it undercuts the preferred course of action.
- **Principal-level delivery.** A small senior team with no layers to route through — suited to bounded, urgent taskings.
- **Open formats throughout.** No proprietary lock-in on data or delivery.

COMPANY DATA

LEGAL NAME	EvolveCG, LLC
DOING BUSINESS AS	Evolve Consulting Group
LOCATION	Charlotte, North Carolina
WEBSITE	evolveconsultinggroup.com
IDENTIFIERS	<i>Registration in process — identifiers provided upon issuance</i>

POINT OF CONTACT

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