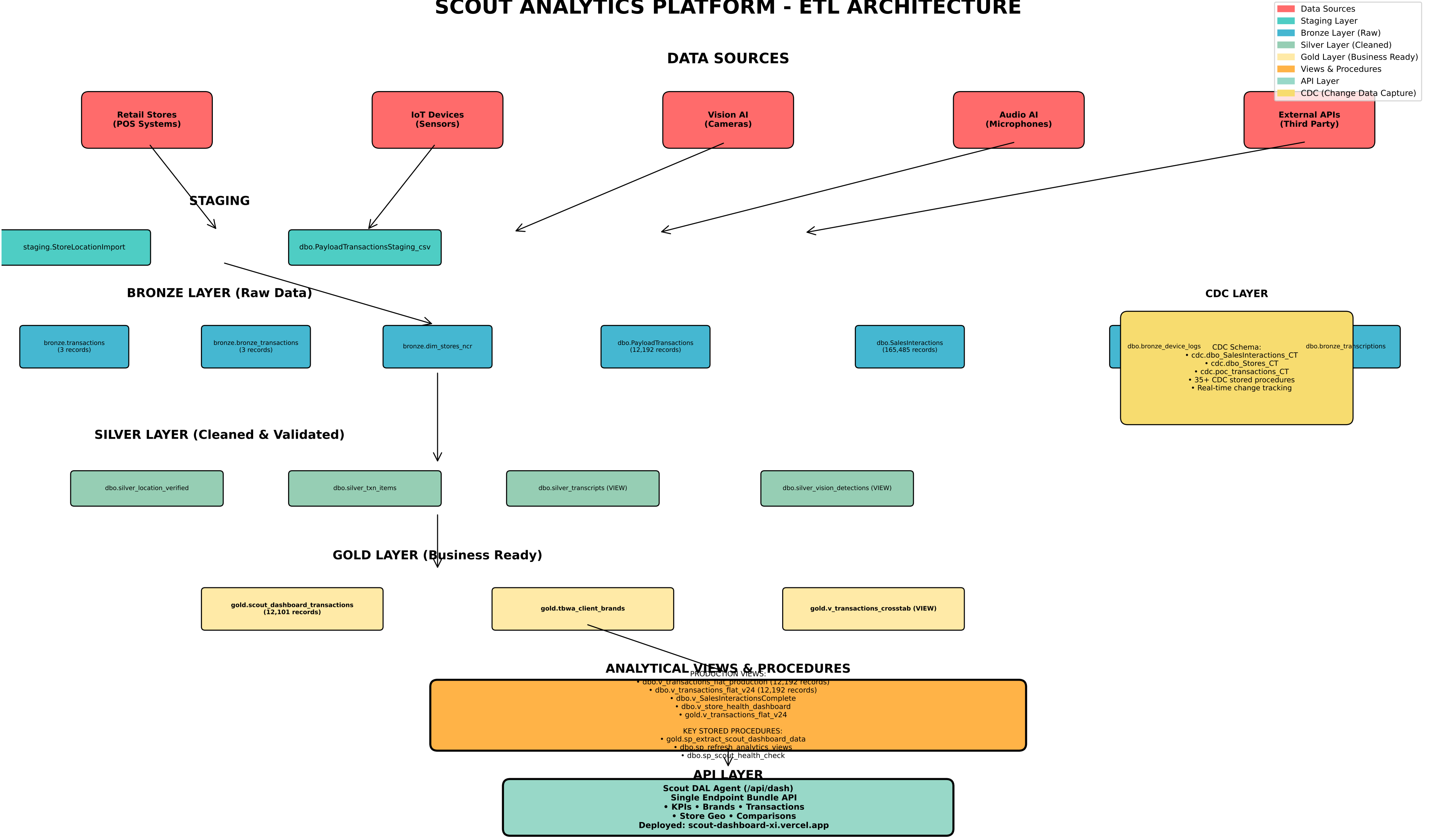


# SCOUT ANALYTICS PLATFORM - ETL ARCHITECTURE



## PRODUCTION DATA VOLUMES

- REAL PRODUCTION SCALE:
- SalesInteractions: 165,485 records (6 months)
  - PayloadTransactions: 12,192 records
  - Active Stores: 13 locations
  - Device Coverage: 15 IoT devices
  - Facial Recognition: 91.7% coverage
  - Audio Transcription: 44.2% coverage
  - Date Range: Apr 2025 - Sep 2025

## TECHNICAL STACK

- ARCHITECTURE:
- Database: Azure SQL Server
  - ETL: Medallion Architecture (Bronze→Silver→Gold)
  - CDC: Real-time change data capture
  - API: Next.js 14 serverless functions
  - Frontend: React with TypeScript
  - Deployment: Vercel Edge Functions
  - Authentication: Bearer token