

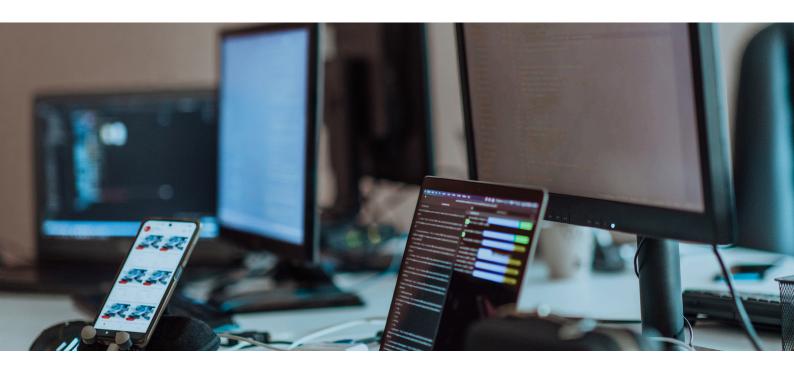
The GDR Insight Multiplier

With The GDR Insight Multiplier, Global Data Resources ensures that partners and advertisers can access high-quality, data-driven consumer insights, even in Survey-Poor Countries.

The GDR Insight Multiplier



THE FUTURE OF DATA-DRIVEN INSIGHTS



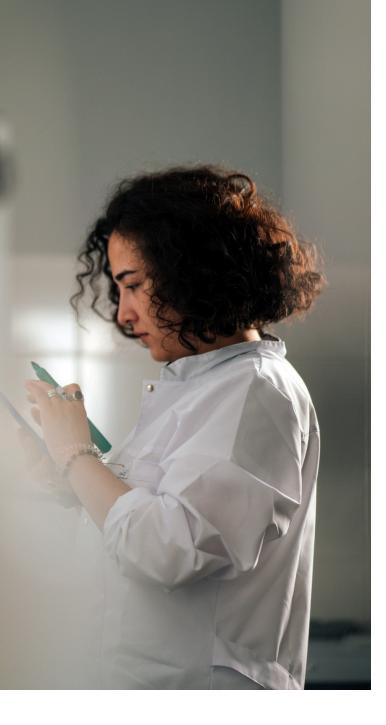
Expanding Consumer Insights In Survey-Poor Countries

OVERVIEW

At Global Data Resources, we work with **highquality survey providers** whenever possible to ensure the most accurate and granular consumer insights.

However, in survey-poor countries, where survey data is unavailable or of low quality, we use the GDR Insight Multiplier - **our Al-driven modelling system** - to reliably and at scale extrapolate insights. **The GDR Insight Multiplier** expands surveybased insights into survey-poor markets by utilizing advanced machine learning, Bayesian modelling, and proprietary AI techniques.

At its core lies **The GDR InsightFusion Algorithm (IFA)**, our unique meta-model that intelligently integrates multiple predictions to **guarantee the highest degree** of accuracy and market alignment.



How It Works

1. HIGH-QUALITY DATA INPUTS (CONSUMER CLASSIFICATION)

To ensure accuracy, we use **GDR's Consumer Classification (CC) data**, which is consistently available across all markets.

THIS INCLUDES

- **Demographics**: Age, household size, education level.
- **Economics**: Income, employment type, property ownership.
- **Geo-Segmentation**: Urban vs. rural, regional economic conditions.

In Survey-Rich Countries, we have direct surveylinked data connecting CC to consumer interests.

In Survey-Poor Countries, we apply The GDR Insight Multiplier to predict these interests.

2. TRAINING THE MODEL WHERE SURVEYS EXIST

Using survey-rich markets, we train three AI models to learn the relationship between CC data and consumer interests:

1) XGBOOST/CATBOOST (GRADIENT BOOSTING)

- Finds complex interactions between consumer traits and interests.
- **Strength**: High predictive accuracy with clear feature importance.

2) RANDOM FOREST (DECISION TREE ENSEMBLE)

- Averages multiple decision trees for **robust predictions**.
- **Strength**: Reduces overfitting and works well with structured tabular data.

3) NEURAL NETWORKS (DEEP LEARNING)

- Identifies **hidden patterns** in high-dimensional data.
- **Strength**: Best for detecting deep behavioural trends.



3. PREDICTING INTERESTS IN SURVEY-POOR COUNTRIES

Once the models are trained, we use them to **predict soft interests** in Survey-Poor Countries by applying insights from **similar** consumer classification segments.

PROBABILITY SCORES

Each model generates probability scores for different consumer interests (e.g., car brand preference, tech adoption, travel habits).

4. THE GDR INSIGHTFUSION ALGORITHM: PROPRIETARY AI FOR ACCURACY

At the heart of The GDR Insight Multiplier is The GDR InsightFusion Algorithm (IFA), our proprietary AI-driven meta-model that refines predictions for maximum accuracy.

WHY THE GDR INSIGHTFUSION ALGORITHM IS UNIQUE

- Proprietary AI methodology that intelligently combines multiple predictions.
- Adaptive weighting ensures the best balance across different models.
- **Continuously improves over time** with new data inputs.

HOW IT WORKS

STEP 1

The three AI models make separate predictions.

STEP 2

The GDR InsightFusion Algorithm blends their outputs using:

- Averaging: Simple mean of all predictions.
- Weighted Voting: Assigns more weight to the most accurate model.
- Stacking (Meta-Modeling): Uses a Logistic Regression layer to optimize prediction blending dynamically.

MOST ACCURATE REPRESENTATION This ensures that the final insights are **the most accurate representation of consumer behaviour**, even without direct survey data.

5. BAYESIAN ADJUSTMENT FOR LOCAL MARKET DIFFERENCES





BAYESIAN ADJUSTMENT

To further refine our predictions, we apply Bayesian updating to incorporate **real-world sample market** data:

- Car brand registrations (government/industry reports).
- Google Trends & social media sentiment (regional interest signals).
- **Third-party market research** (e.g., Kantar, Nielsen, automotive reports).

This ensures that predictions reflect real-world variations **across different markets**.

6. INDEPENDENT VALIDATION WITH EXTERNAL DATA



INDEPENDENT VALIDATION

To verify accuracy, we compare predicted consumer interests against:

- Official car brand sales and registrations.
- Geo-spatial.
- Real-estate sales data.
- Market research and third-party reports.

If any discrepancies arise, we **recalibrate the model** to improve alignment.

Final Outcome



WHY THIS MODEL MATTERS

EXPANDS INSIGHTS GLOBALLY

Converts survey-driven learnings into predictive intelligence for new markets.

PRIVACY-SAFE

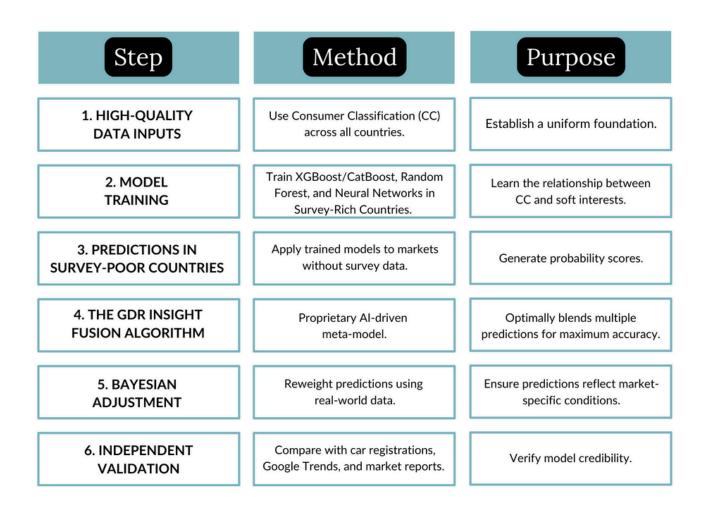
No personal tracking, only aggregated neighborhood-level insights.

PROPRIETARY AI

The GDR InsightFusion Algorithm ensures the most accurate and market-aligned predictions.

CONTINUOUSLY IMPROVES

Refines itself as new data sources become available.



THE FUTURE OF DATA-DRIVEN INSIGHTS

With The GDR Insight Multiplier, GDR ensures that partners and advertisers can access high-quality, data-driven consumer insights, even in **Survey-Poor Countries**.