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GenAI Personas: Methodology, *Not Magic.*

How AlgoVerde builds synthetic research panels you can defend — and why they work.



Executive *Summary*

Prospects ask us two questions more than any others: how do you create your AI personas, and why are they better than simply prompting a chatbot? This paper answers both. The short version: everyone has access to the same foundation models — the difference between a research instrument and an improvisation is **methodology, not technology**. That is also the central finding of the published literature: AI personas work under specific conditions — disciplined input data, designed sampling frames, continuous validation — and fail predictably without them.

AlgoVerde's GenAI Personas are not AI twins of individuals; they are **behavioral models of your customer segments**, built through a reviewable process with a human approval gate at the step that matters most, **grounded in your data inside a SOC 2-certified environment**, validated head-to-head against real human panels, and owned by you.





SECTION 01

The Real Question

Despite its vocal and growing fan base, synthetic consumer research still has a credibility problem. The conversation has divided into two camps: one sees a step change — synthetic cohorts queryable at any time at a fraction of fieldwork cost — while the other camp points, with reason, to tools that produce plausible-looking outputs while hiding systematic bias. Both camps have evidence on their side. Our meta-analysis of that evidence, *AI Personas: What the Evidence Actually Says* (AlgoVerde, 2026), reviews 24 academic and industry sources — from peer-reviewed replication studies to Bain's assessments and the sharpest published critiques — and reaches one conclusion: the difference between well-built AI personas and poorly built ones is almost entirely a question of methodology, not technology.

So when a prospective client asks, "How is this different from asking a chatbot to act like my customer?" — that is exactly the right question. Everyone has access to the same foundation models. What makes a synthetic panel defensible isn't the model itself—it's everything built around it: how segments are identified, how personas are developed, what data grounds them, and how rigorously they are validated. Skip any of those steps, and fidelity degrades in predictable ways. Get them right, and something fundamentally different becomes possible: a panel that behaves like your market, responds in minutes, and transparently shows the evidence behind its conclusions.



SECTION 02

What a GenAI Persona Is — and What It Is **Not**.

A GenAI Persona is not an AI twin. It is not a replica of any actual individual and is not built to imitate one. While it may draw on interviews, transcripts, survey responses, CRM records, or other customer research as inputs, those materials are used to identify patterns and characteristics—not to recreate or simulate any specific individual.

A GenAI Persona is a **synthetic representation of a broader customer segment**, not a digital replica of a real person: a simulation-ready profile engineered to think, decide, and react the way a defined group of your customers does, so you can test how that group responds to a product, a price, or a message. Some providers do offer AI twins of actual customers; we deliberately do not follow that approach.

That distinction changes how the panel is constructed. Traditional research often uses demographics as the primary framework for recruiting and balancing a sample. **We take a different approach.** We begin by identifying the behaviors, motivations, attitudes, and decision patterns that matter for the question at hand. Demographics may be used to shape or calibrate the panel when they are relevant, but they are one signal among many, not the foundation.

A 34-year-old urban professional could be a bargain hunter, a heritage-brand loyalist, or a creator-led impulse buyer. Age, income, and geography help describe that person, but they do not explain how she makes decisions. What matters is the logic she applies ("Does this brand make me look like a discoverer?"), the motivations that drive her, and the tensions she navigates ("I want to signal taste through a brand others don't yet have, but I don't want to look like I'm following the algorithm."). Those are the forces a new concept, campaign, or price change actually activates. Demographics help ensure appropriate representation when needed, but behavior explains response. A synthetic panel built on behavioral and psychographic foundations can react to new stimuli in ways that a demographic profile alone never could.

We also want to be clear that GenAI Personas are not a statistically-fitted forecast, and not a replacement for your judgment.



SECTION 03

The Recruitment Paradox: When Synthetic Beats "Real"

The instinctive objection to synthetic research is that real people are, by definition, more representative. In practice, the panel you can actually recruit is often not the market you are trying to understand.

In almost any category, recruitment carries heavy self-selection bias. Let's take the high end, for example: the luxury buyers, senior decision-makers, and hard-to-reach specialists who agree to join a panel for an incentive differ systematically from those who decline. Add social desirability and non-response gaps, and the result is familiar: real respondents, unrepresentative panel.

A well-constructed synthetic panel addresses that problem differently. Instead of relying on whoever happens to respond, it is built to reflect the underlying structure of the market. Segments are derived from observed behavioral patterns and calibrated to the population being studied. As a result, the synthetic panel can more accurately represent the market than a panel composed entirely of real people who were willing—and available—to participate.

This is not an argument against human research; it is an argument about where each method's blind spots sit.

Another frequent problem with recruitment is fraud, and it is worse than most buyers realize. A 2026 industry assessment presented to the Insights Association estimated that 40% of survey interviews conducted in 2025 were likely fraudulent, most of them from human click farms rather than bots (NORC, 2026). A study by Rep Data found an average of 29% of respondents flagged as suspicious or fraudulent across all six panel sources tested, including invitation-only panels; every source contained professional respondents attempting 200 or more surveys per day, with one attempting over 1,100, wearing a different identity for each screener (Rep Data, 2025). And fraud distorts exactly the subgroup analyses and small populations that premium research is bought to illuminate.

A synthetic panel eliminates this failure mode by construction. There is no incentive to game, no fee to collect, no screener to deceive, no second identity to wear. Every response comes from the behavioral profile it was built to represent, in the voice of the segment it models, every time, and every answer is traceable back to the evidence that shaped it.

SECTION 04

How We Build Them: From Brief to *Panel*

Everything begins with your brief, what researchers call the research question. The literature is unambiguous that every study showing strong persona performance begins with a clearly defined research question, and every study showing failure begins with something underspecified. The brief anchors everything: it can be handed off from an existing AlgoVerde project or provided directly, and you can enrich it with anything that adds context — uploaded files, documents, notes typed into the session.

From there, the system does what a good research team would do: it studies the context, establishes who the audience is, learns how they behave, groups them into distinct segments, and builds a fully-realized persona for each. The difference is that this runs as an orchestrated set of AI agents that check their own work at every step — and you see the work streamed on screen as it happens.

01 Brief and research question.

We start with your brief and any added context into a precise research question: the decision to be studied, the audience that makes it, and the evidence the output must support. Everything downstream is designed against this.

02 Context and market analysis.

Before personas are built, the agent establishes the business context for the research. It analyzes your strategic objective, the market and category dynamics surrounding it, and the behavioral patterns most relevant to the decision at hand. It defines the business lens and the behavioral dimensions that should shape the synthetic panel. This is the step most people don't realize is happening, and it sets up everything after: without this step, personas answer in a vacuum; ours answer inside your market.

03 Demographic analysis, or the audience report.

We then establish who the audience is in the language every client asks for first: age range, geography, income, gender mix, cultural mix. This report sets the audience-level constraints that every later step must honor, so the panel stays anchored to the real structure of the population, and can be checked against your existing research in the same terms. We take demographics fully into account here, and then go well beyond them.

04 Behavioral pattern discovery.

On that demographic foundation, the agent researches how the audience actually behaves — the patterns, tensions, and frictions that drive their decisions. Behavior is the core of what makes an AV persona different from a demographic profile: our personas are built to react the way real buyers in their segment decide — including saying no.

SECTION 04 · CONTINUED

05 Segmentation with you in the loop.

We identify the segmentation drivers, including demographic, behavioral, and/or psychological patterns, that help us zoom into a set of distinct customer segments, each carrying a defining behavior, a core tension, its decision logic, and guidance for generation. This is the one human checkpoint, the place where human judgment matters most: you review the proposed segments and either approve or steer, tightening a segment's age band, broadening another's behavior, adding or excluding a segment. The system applies your direction and confirms the final segment set before generating anything. Nothing is conjured behind a curtain.

06 Persona schema.

Once segments are approved, the agent designs the persona schema — the structured blueprint each persona is built against — shaped to your brief rather than defaulting to a generic template. A luxury-jewelry decision requires different drivers, anxieties, and resistances than a detergent or vehicle decision.

07 Persona generation.

The agent generates one or more personas for each segment, transforming each segment definition into a complete behavioral model engineered to reason consistently and remain in character throughout a study. The number of personas depends on the research objective and the diversity within each segment, not on a fixed ratio. Some segments require a single representative persona; others warrant several to capture meaningful variation. Because every persona inherits the same validated behavioral foundation, reliability comes from the quality of the model and the coverage of the market—not from the number of synthetic respondents.

What is inside each persona? The exact composition depends on the research question, because the persona schema is generated from the brief and project objective rather than drawn from a fixed template. Even so, most personas share a common structure:

- + **A core identity:** who this person is, their situation and values.
- + **A cognitive and decision profile:** how they choose, whether they research for weeks or buy on impulse, compare prices or trust their gut.
- + **Emotional drivers:** why they act, what they want to feel, and what they're trying to avoid feeling.
- + **Explicit boundaries and resistances,** or the things this customer will push back on or flatly refuse. Without defined limits, an AI persona becomes a people-pleaser that calls every concept "interesting," and flattery is worthless as research. A persona that can say no is the only kind whose yes means something.

Finally, the practical layer grounds it all in real shopping behavior: when and how often they buy, what they will pay — for themselves versus as a gift — where they discover new products, and the specific anxieties and motivations that surround the purchase.



SECTION 04 · QUALITY CHECKS & THE CONFIDENCE REPORT

Important to note that the schema isn't fixed; it adapts to the project brief, so these compartments are the typical shape rather than a firmly set template. This means that AlgoVerde's GenAI Personas are entirely customizable to your company and your specific project - and in fact they are customized, each and every time. You don't select personas to interview off-the-shelf, you carefully build your interview panel with us.

Quality checks are layered through the pipeline, not just at the end. As personas are generated, automated passes check and refine as they go: segment coverage (did every approved segment produce a persona?), attribute validation (are attributes plausible and true to the schema?), per-persona critique and repair (does each persona fit its segment, with real friction and no contradictions?), set diversity (are any two personas too similar?), and profile completeness as the final gate. Any persona that fails a pass is regenerated with the critique as feedback and re-scored until it passes.

THE CONFIDENCE REPORT

The final artifact is a report that scores the finished set and shows how it was built. It leads with a single score out of 100, built from two pillars: coverage (does every part of your audience have a voice, and is each persona clearly its own person?) and construction (is each persona fully and carefully built, grounded, rich, coherent, and true to its segment?). A set with an uncovered segment or a substandard persona cannot quietly pass. The system rebuilds and re-checks until the quality bar is cleared. The report also explains, in plain language, why the personas fit your brief, how any customer data influenced them, and the full journey of research and assumptions behind the set, with every intermediate step. One clear limitation is that it measures whether the set is well-built and spans your segmentation, but it does not claim statistical representativeness of the real population. However, Section 6 examines exactly that, presenting the industry validation behind the methodology.



SECTION 05

Why It Works: The Four Layers



A synthetic persona is not faithful because of the language model alone. It is faithful because four distinct layers work together, each solving a different problem. Remove any one of them and the methodology breaks in predictable ways.

Knowledge

provides the raw material. Foundation models have learned broad patterns of human language, behavior, and decision-making from humanity's written record.

Reasoning

allows a persona to apply those patterns to situations it has never encountered before, evaluating new concepts from a consistent perspective rather than simply retrieving familiar answers.

Grounding

connects that general capability to a specific market. A carefully constructed behavioral panel, optionally strengthened with proprietary customer data, gives the personas the context needed to represent your customers rather than an average internet user.

Validation

determines whether the methodology actually works. Plausibility is easy; reliability must be demonstrated through comparison with real-world research.

These first two layers are now widely available. They explain why synthetic personas are possible, but they do not explain why some are reliable and others are not. The result is cumulative. Knowledge makes synthetic personas possible. Reasoning makes them adaptable. Grounding makes them specific. Validation makes them trustworthy. Prompt-only personas skip the last two layers. They use the same foundation models everyone else has but omit the methodology that determines who is represented, how those personas are constructed, and whether their responses correspond to reality.



SECTION 05 · THE LAYERS

LAYER 1 — KNOWLEDGE

The raw material is already in the model

Large language models were trained on humanity's written record. Written language contains more than facts—it contains evidence of how people think, what they value, how they justify choices, and the trade-offs they make.

A product review is not simply an opinion. It reveals priorities, expectations, frustrations, emotional responses, and decision criteria. Across billions of documents, those patterns become learnable.

This capability has now been demonstrated repeatedly. Argyle et al. (2022) showed that language models conditioned on structured demographic information reproduced nuanced attitudinal differences across subpopulations, introducing the concept of algorithmic fidelity. Brand, Israeli & Ngwe (2023) found that synthetic respondents estimated willingness-to-pay in close agreement with human panels. Most recently, Yeykelis et al. (2024) reproduced 76% of published marketing effects across 133 experiments using nearly twenty thousand AI personas.

Knowledge provides the raw material—but not the customer. That requires reasoning.

LAYER 2 — REASONING

From pattern-matching to deliberation

The major change over the past two years has not been larger models—it has been reasoning. Earlier persona systems largely interpolated from familiar text patterns. Modern reasoning models can work through unfamiliar decisions step by step while maintaining a consistent perspective.

That distinction matters because most research concerns situations nobody has encountered before: a new product concept, a different price, an unfamiliar advertisement, a novel service experience. Reasoning enables personas to evaluate those situations as a member of a customer segment rather than searching for an existing answer.

The literature also defines the boundary. Reasoning improves behavioral consistency; it does not make models more factually correct: the literature is blunt that reasoning does not improve factual accuracy (Meincke et al., 2026). Personas should therefore be evaluated on whether they reproduce human decision-making—not whether they recall every fact perfectly.

Knowledge and reasoning together explain why synthetic personas are now feasible. They do not explain why they represent your market.



SECTION 05 · THE LAYERS

LAYER 3 — GROUNDING

Aiming the instrument at your market

Knowledge and reasoning are general capabilities. Grounding makes them specific.

Grounding begins with panel construction. Rather than asking a model to imagine "a typical customer," we first determine who should exist in the panel—the behavioral segments, contextual constraints, and market structure appropriate for the research question. Depending on the project, demographic, professional, institutional, or geographic characteristics may be incorporated where they materially affect behavior, but they are never the methodology itself. The literature is clear on why the design step is what matters: prompt-and-go persona generation without a rigorous sampling design produces bias that looks plausible while distorting predictions (Li et al., 2025).

That public foundation is often sufficient to produce a representative synthetic panel. When available, proprietary data strengthens the model further. Customer research, surveys, interviews, transaction data, reviews, CRM data, and other first-party evidence provide company-specific context that no public model contains. This additional grounding does not replace the behavioral model—it sharpens it.

Grounding is therefore additive rather than binary. Public evidence establishes the baseline. Proprietary evidence increases fidelity. It also makes bias easier to detect. Because the evidence used to construct each persona is explicit and inspectable, assumptions can be reviewed, challenged, and improved rather than remaining hidden inside a prompt.

LAYER 4 — VALIDATION

Trust is earned, then re-earned

A convincing answer is not necessarily a correct one. The final layer is validation: comparing synthetic personas against independent human evidence to determine whether they behave as intended.

Validation is not a one-time certification. Markets change, customer behavior evolves, and personas must continue to be tested against new evidence. The literature shows accuracy degrades when personas are used outside the conditions they were built for (Yeykelis et al., 2024).

This is the distinction between a plausible persona and a defensible one. A methodology becomes trustworthy only after it has demonstrated that it produces reliable results under real research conditions. Section 6 examines exactly that question, presenting the industry validation behind the methodology.



SECTION 06

Why You Can Trust Them — Our *Validation*



The appropriate question is not whether a GenAI Persona is a real person. It is whether a well-constructed synthetic panel produces insights that correspond closely enough to human behavior to support real business decisions. That is an empirical question.

Our evidence comes from three complementary sources. First, commercial deployments in which Fortune 500 companies evaluated GenAI Personas against business outcomes. Second, controlled backtests comparing independently constructed synthetic panels with human research studies. Third, the growing academic literature reviewed in Section 5 and listed at the end of this paper, which establishes the underlying capabilities of modern reasoning models. Together, these provide evidence at three levels: commercial validation, methodological validation, and scientific foundation.

Commercial Validation

Across multiple Fortune 500 engagements, clients have conducted their own independent evaluations of outputs generated by AlgoVerde's GenAI Personas.

For example, in 2025, a Fortune 500 consumer packaged goods company tested product concepts generated by our GenAI Personas using its standard human purchase-intent research. Concepts generated by the synthetic panel achieved purchase-intent scores comparable to—and in several cases exceeding—those generated through traditional human ideation. In practical terms, ideas created by the personas were selected by human consumers as products they would purchase.

The same organization subsequently deployed concepts generated or refined with GenAI Personas into market, measuring an increase of more than 50% in add-to-cart performance. While these results reflect many factors beyond the personas themselves, they demonstrate that insights generated through the methodology can translate into measurable commercial outcomes.



SECTION 06 · METHODOLOGICAL VALIDATION: CAN LLMS REPRESENT A POPULATION?

Methodological Validation

Before evaluating specialized persona methodologies, we wanted to answer a more fundamental question: Can modern language models accurately represent the behavior of a general population when the panel is carefully constructed?

To test that question, we collaborated in 2025 with a leading U.S. consulting firm to conduct a blind backtest against its 2024 U.S. Consumer Sentiment Study (N = 2,100). The objective was not to validate our behavioral persona methodology directly. Rather, it was to evaluate the broader capability of modern language models to simulate a representative general population.

Study Design. The consulting firm privately supplied the completed human study, which was never publicly released. Our synthetic panel was constructed independently using demographic and contextual information describing the U.S. adult population. The panel had no access to the survey responses, summary statistics, or conclusions from the original research. Both panels answered the same questions using identical response scales. This was a prediction exercise—not a recall exercise.

Results. The synthetic panel closely reproduced the overall distribution of economic sentiment, with a mean absolute error of 3.7 percentage points (96.3% agreement using 1-MAE). Across the ten factors influencing economic outlook, the synthetic panel demonstrated a rank correlation of $\rho = 0.97$ with the human study and an average deviation of 0.57 points on a 10-point scale.

FACTOR IMPACTING SENTIMENT	2024 HUMAN STUDY avg · N=2,100	ALGOVERDE SIMULATION avg · N=2,100
Inflation	7.8	8.0
Prices of necessities	7.4	8.7
Income sufficiency	7.0	7.5
Income stability	6.9	7.4
Prices of non-necessities	6.7	6.2
Real estate prices	6.6	5.9
Availability of jobs	6.1	5.5
Peer experiences	5.9	5.4
Stock market performance	5.9	5.5
Equal opportunity for all	5.9	5.4

Question: "How does each of the following impact your assessment of the economy from 1-10?" Source: AlgoVerde Consumer Sentiment Simulation, 2025.



SECTION 06 · CONTINUED

Most importantly, the simulation identified the same four highest-impact drivers of consumer sentiment as the human panel—inflation, prices of necessities, income sufficiency, and income stability—and preserved their relative importance across the remaining factors.

In practical terms, the synthetic panel reproduced the structure of the human results, not merely isolated statistics.

What This Demonstrates—and What It Doesn't

This backtest demonstrates that modern language models can reproduce broad population-level behavior with high fidelity when a representative synthetic panel is carefully constructed. It does not validate AlgoVerde's GenAI Persona methodology by itself.

Our methodology builds on this foundation by introducing behavioral segmentation, project-specific grounding, adaptive persona schemas, and continuous validation. Those additional layers are what enable population-level simulation to become a decision-support tool for specific markets, products, and customer groups.

One additional finding reinforces the central argument of this paper. We repeated the exercise using simple, one-shot prompts—the familiar "just ask a chatbot" approach. Despite using the same underlying language model, those simulations deviated substantially more from the human benchmark than the structured synthetic panel. The model was identical. The methodology was not.



SECTION 07

Living Assets, Owned by You



An AI persona panel is not a fixed deliverable. After deployment we continuously validate and refine your personas — testing, iterating, and improving against real-world signals — because markets shift and personas built for one set of conditions must be re-checked when market or conditions or project specs change.

Validation is continuous. Like a re-fielded survey, a re-run simulation produces slightly different results; single runs are never the standard. We re-validate as models, data, and market conditions change, because accuracy claims decay — a persona validated under one set of conditions must be re-checked when the conditions move.

Ownership is clear: your GenAI Personas belong to your company and will never be shared beyond the permissions you set. Your proprietary Persona Library persists across projects — the panel built for concept testing this quarter can price-test next quarter and message-test after that. Insight compounds instead of expiring with a project.

Customization is intentional: Rather than selecting off-the-shelf profiles, you collaborate with us to carefully build a customized interview panel. Every AlgoVerde GenAI Persona is meticulously tailored to align with your company and your specific project requirements, ensuring a bespoke design each and every time.

A GenAI Persona is a behavioral model of your customer segments — grounded in your data inside a secure, dedicated environment, reviewable at every step, validated head-to-head against real respondents, and owned by you. It deployed a proven methodology: knowledge, reasoning, grounding, validation. Each assumption is visible, each claim is traceable to published evidence or a named study. That is what makes it credible, and what a simple prompt to a chatbot can never be.



SECTION 08

Where GenAI Personas Fit — and Where They *Don't*

AlgoVerde focuses its GenAI Personas where they demonstrably perform: attitude, preference, and motivation research; concept testing and iterative ideation; segmentation and audience understanding; futurecasting and scenario simulation; and scaling qualitative: the equivalent of 1,000 interviews in minutes. Two advantages compound the speed: when a response sparks a new question, you probe deeper in the same session — no re-fielding, no re-recruiting — and you can re-run the same study over time to track shifts as they happen.

	TRADITIONAL RESEARCH	ALGOVERDE
Timeline	Weeks	Days
Cost	\$20–100K + per study	Up to 75% less
Frequency	Annual or quarterly	On-demand, any frequency
Depth	Choose qual or quant	Qual depth at quant scale
Iteration	Redesign and re-field	Re-run & follow-up in real time
Your data	Siloed from the research process	Securely integrated when provided

They are not the right tool for everything, and saying so is part of why they are trustworthy. Synthetic customers are an augmentation layer, complementary to real research, whose quality depends on data, architecture, and careful validation (Pierce et al., 2026). Traditional research still wins where the context is regulated or auditable, where observed behavior — not stated attitude — is the required evidence, and for final go/no-go decisions that demand human confirmation. Personas reproduce attitudes and decisions, not factual accuracy, and they are not a replacement for your judgment.

Bias exists in every research method; the difference is whether you can see it. Ours is detectable, manageable, and improving, with explicit levers: more proprietary data means less drift; a less prescriptive schema allows for more creativity; tuning for criticism prevents an agreeable panel; and profiling psychology and behavior before demographics keeps stereotypes out of the foundation.



Frequently Asked Questions

How is this different from ChatGPT or any other LLM?

LLMs are trained on an enormous volume of human-generated text. That makes them, in effect, a model of human beliefs and behaviors across billions of people — the most comprehensive representation of collective human thought ever assembled.

The problem is that this representation is averaged and opaque. When ChatGPT answers a question, it draws on everything, everywhere, all at once. It has no specific audience in mind and builds generic personas without real-world grounding.

There is a second problem: LLMs are trained to be agreeable. That is helpful in a chat assistant and fatal in consumer research, where an answer only has value if the respondent could have said no. Our personas are engineered with explicit boundaries and resistances (Section 4) precisely to counter this — a persona that can refuse is the only kind whose approval means something.

How is this different from "digital twins" of real customers?

Digital twins are designed to emulate specific individuals. They are built from information about those individuals—such as interviews, transcripts, surveys, communications, behavioral data, or other first-party records—with the goal of reproducing how that particular person is likely to think and respond. Their strength is fidelity to the individual. Their structural limits are coverage and representation: a twin panel can represent only the people for whom sufficient data exists, so it inherits the biases and gaps in the underlying source population and cannot directly represent audiences that have never been observed or modeled.

Behavioral segment models use a different architecture. The unit of representation is the customer segment, not the individual. Personas are synthesized from the behavioral structure of the market rather than designed to replicate specific people. That allows a panel to represent hard-to-recruit populations, markets that have never been surveyed, and future scenarios that cannot be studied directly, without reproducing the identity or behavior of any one individual.



Frequently Asked Questions

Isn't this just using the past to predict the future?

Every research method uses the past — a traditional survey is already months old by the time anyone acts on it. The real question is what gets carried forward. Personas model the relatively stable layer of consumer behavior: values, decision styles, category attitudes, and the tensions that drive choices — not last week's purchases. Where conditions shift, we re-ground the panel with current context and re-validate against fresh human benchmarks (Section 7), so the model of the past is explicit, refreshable, and checkable — unlike a stale snapshot.

Is my data secure?

Grounding runs on your data, so how your data is handled is part of our methodology. Every client runs in a dedicated instance hosted on AWS — data is never mixed across customers, and never used to train any models. Client data is tokenized (obfuscated) on platform and encrypted in storage and databases, with keys managed by AWS and inaccessible to AlgoVerde personnel. Data is retained only for the term of the agreement and deleted on written request. Access is controlled by role-based permissions you define; no AlgoVerde employee can enter your workspace uninvited, and all staff are bound by confidentiality agreements. External models are reached through enterprise-grade APIs under enterprise SLAs — including, where preferred, your company's own private instance of ChatGPT, Gemini, or Claude. AlgoVerde holds SOC 2 Type 1 and Type 2 certifications, with ISO 27001 in progress.



REFERENCES

Argyle, Busby, Fulda, Gubler, Rytting & Wingate (2022). *Out of One, Many: Using Language Models to Simulate Human Samples*.

Li, Chen, Namkoong & Peng (2025). *LLM Generated Persona is a Promise with a Catch*.

NORC at the University of Chicago (2026). *The Fraud Problem Reshaping Survey Research*. Expert view, February 2026.

Pierce, Beaudin, Gupta et al., Bain & Company (2026). *Synthetic Customers Earn Their Stripes*.

Yeykelis, Pichai, Cummings & Reeves (2024). *Using Large Language Models to Create AI Personas for Replication, Generalization and Prediction of Media Effects*.

Brand, Israeli & Ngwe (2023). *Using GPT for Market Research*.

Meincke, Mollick, Mollick, Shapiro & Basil, Wharton (2026). *Stop Telling AI Who to Be: Why Personas Don't Improve Accuracy*.

Park, Zou, Kamphorst et al. (2024). *LLM Agents Grounded in Self-Reports Enable General-Purpose Simulation of Individuals*.

Rep Data (2025). *What New Research-on-Research Says About Fraud in Survey Data*.

