

THE ULTIMATE

Prompt Cheat Book for R&D

Abstract wavy lines in blue, orange, and pink, creating a dynamic, flowing background effect.

PRESCOUTER



AI can “do the heavy lifting” for a range of work tasks – from regulatory landscapes to market research – but only if you know how to prompt the AI models in the right way.

The prompts in this “Cheat Book” are a starting point for you to learn how you can shape AI to help you with these types of tasks. Taking the time to shape the prompts for yourself is well worth the effort. Think of AI prompts as intellectual property—they encode expert knowledge for how your system uniquely produces output that is distinct to everyone else using the same tools.

I welcome your questions and feedback at dg@prescouter.com.

Dino Gane-Palmer
CEO PreScouter



Spend more time on the important work, rather than just the mechanical preparation of documents

Examples of recurring tasks AI can do well

- › Market opportunity and technology scouting
- › Competitor, market, and partnership analysis
- › Customer trend and regulatory tracking
- › Compliance assurance and regulation monitoring
- › Formulation refinement and process optimization
- › Business document and proposal creation
- › Sustainability and risk decision-making
- › Analyzing massive internal documents and databases

At PreScouter,
we've been helping
organizations find
their highest ROI
use cases for AI.

**Start finding
yours today**

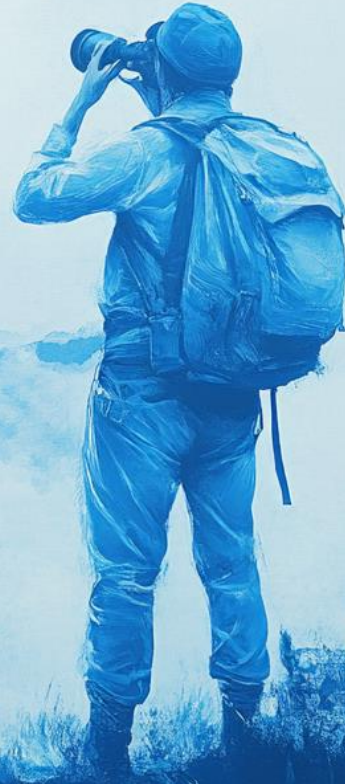
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General Prompting Tips and Tricks

1. Be as specific as possible.
2. Start with “Act as a [specific role] ...” to get more contextually accurate outputs.
3. Phrase your prompts as “Take me through this step by step” to get more structured responses.
4. Include the phrase “No fluff” to keep the chatbot from using fluffy content.
5. Use limits such as “Provide no more than 200 words” or “Summarize in 3 bullet points” to control output length.
6. Request different formats like “Give me this as a report outline” or “Format the response in a table.” You can also continue with a follow-up prompt: Compile this data into a CSV file. Specify the column labels for more structured data.
7. Use the word “Search” at the start of a prompt to have the AI search the web in real-time instead of using the data it’s been trained on.
8. Ask the chatbot to continue if it stops before hitting your target number.
9. Add “Provide real-world examples where applicable” to get practical insights.
10. Ask for trends and data from specific timeframes, e.g., “Focus on developments from the last 2 years.”
11. Use “Cite sources where possible” to enhance credibility.
12. Add “Provide actionable next steps” to ensure practical takeaways.
13. Use “Rank these from most to least important” to help prioritize responses.
14. Ask follow-up prompts like “Can you simplify this?” or “Can you expand on X aspect?” to refine responses.
15. Frame prompts with “If X, then provide options for Y” to explore different scenarios.
16. Use “Assume I have no prior knowledge of this topic” or “Assume I am an expert” for tailored responses.
17. Add “Have you covered all critical aspects?” to ensure thorough responses.
18. Prompt with “What are alternative viewpoints on this topic?” to avoid bias.
19. Use “Compare this to industry benchmarks or competitors” for context.
20. Ask “Can you offer alternative solutions or viewpoints?” to encourage creativity.

Technology Scouting



Technology Scouting

Example Prompt

Insert your
**topic of
interest**

Act as an Open Innovation Consultant with expertise in technology scouting and deep knowledge of **biobased plastics**. Your role is to identify 20 cutting-edge innovations from **industry reports, academic publications, startup ecosystems, and corporate R&D initiatives**. Please provide:

- A brief description of each innovation, including its unique value proposition or breakthrough aspect.
- The organization or individual behind it (e.g., university, startup, or company).
- Current stage of development (e.g., research phase, prototype, commercialized).
- Relevant applications or potential use cases.
- Why it stands out compared to existing solutions.


Focus on specific examples that showcase novel approaches, scalability, or disruptive potential. Prioritize recent developments (**within the last 3 years**) and, where possible, include links or references for further exploration.

Insert your
**required
timeframe**

Insert
**sources of
interest**

Technology Scouting

Example Output

See full prompt 

As an Open Innovation Consultant, I have identified 20 groundbreaking innovations from industry reports, academic research, startups, and corporate R&D. Each includes a brief description, organization, development stage, applications, and key differentiators.

1. Utopia Plastix's Plant-Based Polymer

- Description: A plant-based alternative polymer derived from agricultural cover crops, offering a drop-in replacement for traditional plastics.
- Organization: Utopia Plastix (USA)
- Development Stage: Commercialized
- Applications: Blown film, blow molding, thermoforming, extrusion, injection molding, and 3D printing.
- Distinguishing Features: 100% recyclable, degradable, and compostable without equipment modifications.

2. GFBiochemicals' Levulinic Acid Technology

- Description: Technology for recovering and purifying biobased levulinic acid from biomass, replacing petroleum-based components.
- Organization: GFBiochemicals (Italy)
- Development Stage: Commercialized

Emerging Technology Identification



Emerging Technology Identification

Example Prompt

Insert your
**topic of
interest**

Act as an Emerging Technologies Analyst with expertise in **building materials**. Identify and analyze 10-15 emerging/disruptive technologies in **sustainable construction, smart materials, and advanced building systems**.

Provide insights on:

Technology Overview: Brief descriptions, key functionalities, and how they work.

Market Potential: Growth projections, adoption trends, and key beneficiaries.

Strategic Recommendations: Adoption strategies, partnerships, risk mitigation, and future outlook (**3-5 years**).

Key Players & Innovations: Leading companies, startups, research institutions, patents, and product launches.

Technology Readiness (TRL): Maturity levels, adoption barriers, and scalability challenges.

Competitive Landscape: Regional adoption, market trends, and differentiators.

Regulatory & Ethical Considerations: Compliance challenges and proactive strategies.

Investment Trends: VC funding, M&A activity, and capital flow analysis.

Use **credible sources (industry reports, research papers, startup databases)**. Deliver an actionable, forward-looking analysis emphasizing sustainability, efficiency, and innovation in **building materials**.


Insert **specific
industry
application**

Insert your
**required
timeframe**

Insert
**sources of
interest**

Emerging Technology Identification

Example Output

See full prompt 

Technology Overview: Emerging Technologies for Sustainable Construction, Smart Materials, and Advanced Building Systems.

1. Cross-Laminated Timber (CLT):

- **Description:** Engineered wood panels layered at right angles, offering a sustainable alternative to steel and concrete.
- **Functionality:** Lightweight, renewable, and offers significant carbon sequestration.
- **How it works:** Manufactured from sawn timber bonded with adhesives.

2. Self-Healing Concrete:

- **Description:** Concrete embedded with bacteria or microcapsules that release healing agents to repair cracks.
- **Functionality:** Extends lifespan, reduces maintenance costs.
- **How it works:** Microbial reactions or chemical release upon exposure to water and air.

3. 3D-Printed Construction Materials:

- **Description:** Additive manufacturing of building components using concrete, polymers, or composites.
- **Functionality:** Speeds up construction, reduces waste, and enables complex designs.
- **How it works:** Layer-by-layer deposition of material guided by CAD.

4. Aerogels for Insulation:

- **Description:** Ultra-lightweight materials with exceptional thermal insulation properties

Technology Benchmarking



Technology Benchmarking

Example Prompt

Insert
required
timeframe

Insert your
industry/ topic
of interest

Insert **specific**
industry
application

Act as a Technology Benchmarking Specialist in **quantum computing**. Conduct a benchmarking analysis to compare technologies and provide strategic insights. Include:

- **Technology Identification:** Key **quantum technologies (algorithms, processors, networking, error correction)**, covering emerging, established, and disruptive innovations.
- **Performance Metrics:** Define critical metrics (speed, efficiency, accuracy, scalability) for [specific industry/application] and their relevance.
- **Competitor Analysis:** Compare technology adoption and performance across leading companies, noting strengths and weaknesses.
- **Cost-Benefit Analysis:** Assess implementation costs (investment, maintenance, lifecycle) against benefits (ROI, savings, competitive edge).
- **Adoption Readiness:** Evaluate maturity (early-stage, pilot, commercial) and adoption barriers (complexity, training, regulations).
- **Market Trends:** Identify trends shaping adoption (automation, sustainability, digital transformation) and emerging technologies from the past **3-5 years**.
- **Opportunities & Risks:** Highlight innovation potential, differentiation, and competitive advantages while addressing risks (obsolescence, compatibility, entry costs).

Strategic Recommendations for Quantum Computing Adoption


- **Technology Selection:** Recommend the best quantum technologies for **financial modeling, drug discovery, and supply chain optimization**, justifying choices based on performance, cost, and scalability.
- **Implementation Roadmap:** Outline integration steps, including infrastructure, training, and phased deployment.
- **Future Proofing:** Advise on monitoring advancements, forming partnerships, and investing in adaptable solutions.
- **Competitive Differentiation:** Highlight strategies to leverage quantum computing for market leadership.

For each technology, include **key features, performance metrics, comparative data, and credible sources**. Provide an **actionable benchmarking analysis** balancing performance, cost, and strategic relevance in **quantum computing**.

Insert
specific process,
product, or
application

Technology Benchmarking

Example Output

See full prompt 

Technology Identification

Key technologies relevant to quantum computing applications:

- **Quantum Algorithms:** Optimization (e.g., QAOA), cryptography (e.g., Shor's algorithm), and machine learning applications.
- **Quantum Processors:** Superconducting qubits (IBM, Google), trapped ions (IonQ, Honeywell), photonic quantum processors (Xanadu), and topological qubits (Microsoft).
- **Quantum Networking:** Quantum key distribution (QKD), quantum internet protocols, and entanglement distribution systems.
- **Quantum Error Correction (QEC):** Surface codes, concatenated codes, and fault-tolerant architectures.

Emerging technologies:

- Neutral atom quantum processors (e.g., QuEra).
- Hybrid quantum-classical systems.
- Variational quantum algorithms tailored for specific industries.

Established technologies:

- Superconducting qubits and trapped ion systems dominate commercial quantum computing.

Disruptive technologies:

- Photonic quantum processors offering room-temperature operation.
- Topological qubits with potential for scalable and robust architectures.

Performance Metrics

Key metrics and their importance:

- **Speed:** Time to solution for quantum algorithms; critical for real-time applications like financial modeling.

A person with a backpack is climbing a steep, rocky cliff face. The climber is positioned on the right side of the frame, reaching up towards the top of the cliff. The sky is filled with dramatic, swirling clouds in shades of blue, purple, and white. The overall scene conveys a sense of challenge and overcoming obstacles.

Technology Adoption Barriers

Technology Adoption Barriers

Example Prompt

Insert your **industry/**
topic of interest

Act as a Technology Adoption Specialist with expertise in **generative AI**. Your task is to identify and analyze key barriers to the adoption of emerging technologies in this space. Provide a comprehensive report that covers the following aspects:

Key Barriers

- Technical: Integration complexity, interoperability, infrastructure limitations
- Financial: High costs, unclear ROI, budget constraints
- Organizational: Resistance to change, skill gaps, cultural inertia
- Regulatory: Compliance challenges, data security concerns
- Market: Customer readiness, competitive pressures, ecosystem maturity

Case Studies & Benchmarking

- Successful companies overcoming adoption barriers
- Best practices and lessons learned

Stakeholder Perspectives

- Impact on executives, IT teams, end-users, and regulators
- Addressing their concerns and motivations

Risk Assessment & Mitigation

- Risks of delayed/failure in adoption
- Strategies for risk reduction

Change Management Strategies

- Employee training and upskilling
- Pilots & phased rollouts
- Cross-functional collaboration

Cost vs. Benefit Analysis

- Long-term benefits vs. upfront investment
- ROI estimates and cost-saving potential

Technology Readiness Assessment

- Evaluating maturity & optimal timing for adoption

Strategic Recommendations

- Priority Actions: Steps to overcome barriers
- Enablers: Tools & approaches for success
- Ecosystem Engagement: Partnerships for smoother transition
- Future Trends: Evolution of challenges & staying ahead

Sources & Data


- Industry reports, case studies, regulatory insights
- Supporting data, trends, and references

Focus: Actionable insights for navigating technology adoption in **oil & gas**.

Insert
specific
industry
application

Technology Adoption Barriers

Example Output

See full prompt 

Key Adoption Barriers

Technical Barriers

- **Integration Complexity:** Legacy systems in oil and gas are often rigid and difficult to integrate with modern AI platforms.
- **Interoperability Issues:** Generative AI solutions may not communicate seamlessly with existing data management tools or SCADA systems.
- **Infrastructure Limitations:** High-performance computing and robust data storage solutions are often lacking in remote locations.

Financial Barriers

- **High Implementation Costs:** Custom AI models tailored to specific industry use cases are resource-intensive.
- **Unclear ROI:** Companies struggle to quantify the value AI will deliver, leading to hesitancy.
- **Budget Constraints:** The cyclical nature of oil prices can limit investment in new technologies during downturns.

Organizational Barriers

- **Resistance to Change:** Employees fear job displacement or are wary of technology replacing human expertise.
- **Lack of Digital Skills:** Limited understanding of AI among workforce hinders effective implementation.
- **Cultural Inertia:** Traditional organizational cultures prioritize proven methods over experimental ones.

Regulatory and Compliance Barriers

- **Industry-Specific Regulations:** Strict environmental and safety regulations can delay the approval of

Patent Landscaping



Patent Landscaping

Example Prompt

Insert your
**industry/topic
of interest**

Act as an Intellectual Property (IP) Analyst specializing in **solid state batteries**. Your task is to perform an IP landscaping analysis using Google Patents and other publicly available resources. Provide a detailed overview, including:

1. **Emerging Trends:** Identify key innovation areas and technologies based on recent patent filings.
2. **Top Assignees:** Highlight the leading organizations, companies, or individuals filing patents in this space.
3. **Geographical Focus:** Indicate the regions or countries where patent filings are concentrated.
4. **Clusters of Innovation:** Organize the patents into key categories or themes, explaining their relevance.
5. **Notable Patents:** Highlight specific patents with significant citations, unique claims, or potential market impact.
6. **Opportunities and Gaps:** Identify underdeveloped areas with minimal patent activity that could signal opportunities for innovation.
7. **Competitive Analysis:** Discuss how the patent landscape reflects market competition or technological leadership.

Based on the analysis, provide strategic recommendations, including:

- Opportunities for R&D: Areas where new patents could create differentiation or fill gaps.
- Potential Partnerships: Organizations, startups, or academic institutions that align with emerging trends.
- Competitive Positioning: Suggestions on how to strengthen IP portfolios relative to competitors.
- Technology Investment: Key technologies or innovations that show high potential for commercialization or disruption.

Use Google Patents as the primary source to gather insights. For each notable patent or trend, provide:

- The patent number or publication number.
- The assignee or inventor.
- A brief summary of the innovation and its significance.
- Links to the patent where applicable.

Focus on actionable insights, recent developments (within the last 2 years), and provide clear recommendations for strategic decision-making.

Insert your
**required
timeframe**

Patent Landscaping

Example Output

See full prompt 

Emerging Trends:

Recent patent filings indicate significant advancements in the following areas:

- **Solid Electrolyte Materials:** There's a notable shift towards developing halide-based solid electrolytes due to their high ionic conductivity and stability. Over 330 patent families have been published on halide solid electrolyte materials for Li-ion batteries as of September 2023.
- **Manufacturing Processes:** Innovations aim to enhance the scalability and efficiency of solid-state battery production, addressing challenges like material compatibility and layer uniformity. For instance, patents related to methods and equipment for manufacturing solid-state battery cells have been filed by companies like Pellenc Energy.
- **Battery Safety and Stability:** There's a focus on improving battery safety by preventing dendrite formation and enhancing thermal stability. Patents such as US20230028245A1 discuss solid-state batteries with functional layers designed to suppress dendrite formation, thereby improving cycle life and safety.

[Google Patents](#)

Top Assignees:

Leading organizations filing patents in the solid-state battery domain include:

- **Toyota Motor Corporation:** With a robust portfolio, Toyota has filed approximately 1,700 patents globally related to solid-state batteries, indicating a strong commitment to this technology.
- **QuantumScape:** A prominent player focusing on solid-state battery technology, QuantumScape has been actively filing patents to protect its innovations in this field.
- **Murata Manufacturing Co., Ltd.:** Engaged in developing solid-state batteries for compact devices, Murata has initiated mass production targeting manufacturers of earphones and other wearables.

Regulatory Landscaping



Regulatory Landscaping

Example Prompt

Insert your
**industry/topic
of interest**

Act as a Regulatory Affairs Specialist with expertise in **plastic materials**. Your task is to conduct a regulatory landscaping analysis to provide a clear understanding of the current and upcoming regulatory environment. Include the following:

1. **Key Regulations:** Identify major existing regulations and standards governing **use of plastic** in key markets (e.g., U.S., EU, China, etc.).
2. **Upcoming Changes:** Highlight any pending or proposed regulatory updates that could impact the industry within the next **2-5 years**.
3. **Regional Differences:** Compare and contrast regulatory requirements across major regions or countries.
4. **Compliance Challenges:** Discuss common hurdles companies face when meeting these regulations.
5. **Case Studies:** Provide examples of recent compliance successes or failures by industry leaders.
6. **Opportunities and Risks:** Identify potential risks from non-compliance or opportunities for innovation in light of regulatory gaps or incentives.

Based on this analysis, provide strategic recommendations, including:

- **Preparation Strategies:** Steps companies should take to align with current or upcoming regulations.
- **Market Entry Considerations:** Guidance on entering regulated markets or navigating complex regulatory environments.
- **Collaboration Opportunities:** Potential partnerships with advocacy groups, regulatory bodies, or compliance consultants.
- **Proactive Measures:** Suggestions for leveraging regulatory changes to gain competitive advantages.

Use credible sources such as government regulatory websites (e.g., FDA, EPA, REACH, ISO), industry associations, and publicly available reports. Include:

- Regulation names and official codes or numbers where applicable.
- A brief summary of the regulation and its significance.
- Links or references for further exploration.


Focus on actionable insights, ensuring relevance for strategic planning and decision-making in **the CPG industry**.

Insert your
**required
timeframe**

Insert
**specific
industry
application**

Regulatory Landscaping

Example Output

See full prompt 

Key Regulations

United States:

- **Resource Conservation and Recovery Act (RCRA):** Governs the management of hazardous and non-hazardous solid waste, including certain plastics.
- **Food Contact Substance Notification Program (FDA):** Regulates substances used in materials that come into contact with food, ensuring they are safe for consumer use.

European Union:

- **Regulation (EU) No 10/2011:** Specific to plastic materials and articles intended to come into contact with food, setting out safety requirements and migration limits.
- **Directive (EU) 2019/904:** Aims to reduce the impact of certain plastic products on the environment, including restrictions on single-use plastics.

China:

- **GB 4806.6-2016 and GB 4806.7-2016:** National standards regulating the use of plastics and polymers in food contact materials, ensuring safety and compliance.

Upcoming Changes

European Union:

New EU Packaging Regulation: Set to take effect from 2025, requiring all packaging used in the EU to be recyclable by 2030.

Commission Regulation (EU) 2022/1616: Governs recycled plastic materials intended for food contact, emphasizing the use of suitable recycling technologies.



Innovation Pipeline Planning

Innovation Pipeline Planning

Example Prompt

Act as an Innovation Strategist specializing in **cancer drug development**. Your task is to create a detailed Innovation Pipeline Plan to help organizations prioritize, develop, and commercialize new ideas efficiently.

Innovation Landscape: Identify emerging trends, technologies, and market needs in **oncology**. Analyze key competitors excelling in innovation pipelines.

Idea Prioritization: Establish a framework to evaluate ideas based on market demand, feasibility, ROI, and strategic alignment. Rank 5-10 innovation ideas by strategic importance.

Pipeline Phases: Define stages (ideation, validation, prototyping, pilot testing, commercialization) with timelines and key milestones.

Resource Allocation: Outline R&D investment, partnerships, and expertise needs at each stage. Identify external resources (academia, startups, tech providers).

Risk & Opportunity Assessment: Analyze risks, challenges, untapped opportunities, and pipeline gaps.

KPIs & Metrics: Define key indicators to measure progress, success, and ROI.

Strategic Recommendations: Offer actionable strategies to accelerate innovations, pivot underperforming ideas, and optimize the pipeline. Ensure adaptability to market and technology shifts.


Leverage public data, industry benchmarks, and case studies. Include successful **oncology** innovation examples, relevant data, and implementation steps. Focus on practical frameworks for effective pipeline management and competitive advantage in the **pharmaceutical industry**.

Insert your
**industry/topic
of interest**

Insert
**specific
industry
application**

Innovation Pipeline Planning

Example Output

See full prompt 

Innovation Landscape

Emerging Trends and Technologies:

- **Personalized Medicine:** Advances in genomics and proteomics are driving tailored therapies like CAR-T and TCR therapies.
- **AI-Driven Drug Discovery:** AI models are accelerating target identification, drug repurposing, and optimization.
- **Tumor Microenvironment Modulation:** Targeting stromal and immune cells to enhance therapy efficacy.
- **Bispecific Antibodies:** Innovations in bispecific T-cell engagers (BiTEs) for targeted immune responses.
- **RNA-Based Therapies:** mRNA vaccines and siRNA therapeutics targeting oncogenes.
- **Liquid Biopsies:** Leveraging cfDNA and ctDNA for early detection and monitoring.

Market Needs:

- Increased demand for therapies targeting rare and aggressive cancers.
- Solutions for overcoming resistance to current standard-of-care therapies.
- Affordable and scalable manufacturing methods for advanced therapies.

Key Competitors:

- **Moderna:** Leading RNA therapeutic platforms for oncology.
- **Genentech/Roche:** Dominating with innovative immunotherapy pipelines.
- **Amgen:** Strong BiTE program and small molecule innovations.
- **Illumina:** Pioneering genomic tools supporting personalized oncology.



Market Research

Market Research

Example Prompt

Insert your
**industry/topic
of interest**

Act as a Market Research Analyst specializing in **plant-based proteins**. Conduct a comprehensive analysis covering:

- **Market Trends:** Key industry trends, emerging technologies, consumer behavior shifts, and macroeconomic factors.
- **Market Size & Growth:** Current market size and projected 5-year growth (e.g., CAGR).
- **Target Audience:** Key customer segments, their needs, pain points, and behaviors (demographic, geographic, and psychographic data).
- **Competitive Landscape:** Major competitors, market share, strengths, weaknesses, and differentiators.
- **Opportunities & Gaps:** Unmet needs or underserved segments.
- **Regulatory & Economic Influences:** Impact of regulations, economic, and political factors.
- **Recent Innovations:** Notable products, services, or business models driving change.

Provide strategic recommendations on:

- **Market Entry:** Strategies for entering or expanding.
- **Positioning:** Differentiation tactics to capture market share.
- **Growth:** Investment or innovation areas to address market gaps.
- **Risk Mitigation:** Key risks and proactive solutions.

Use credible sources (industry reports, trade publications, and market data). Include:

- Relevant statistics, charts, or data points.
- Key sources for further exploration.
- Actionable insights aligned with stakeholders' strategic goals in the **alternative protein space**.


Focus on developments from the last **2-3 years**, ensuring a practical, data-driven analysis.

Insert your
**required
timeframe**

Insert
**specific
industry
application**

Market Research

Example Output

See full prompt 

Market Trends

The plant-based protein industry is experiencing several key trends:

- **Emerging Technologies:** Advancements in food technology have led to the development of novel plant-based protein products, such as protein powders and liquids, which have seen growth in both dollar and unit sales in 2023.
- **Consumer Behavior Shifts:** There is a notable increase in flexitarian diets, with consumers incorporating both plant-based and animal proteins. This shift is driven by health considerations, environmental concerns, and animal welfare.
- **Macroeconomic Factors:** Inflation and economic pressures have influenced purchasing behaviors, leading consumers to seek cost-effective protein sources. Despite economic challenges, certain plant-based categories, such as creamers and protein powders, have demonstrated resilience.

Market Size and Growth

The global plant-based protein market is on a growth trajectory:

- **Current Market Size:** Valued at approximately USD 21.1 billion in 2023.
- **Projected Growth:** Expected to reach USD 69.17 billion by 2032, with a Compound Annual Growth Rate (CAGR) of 14.1% from 2023 to 2028.

Target Audience Insights

Competitor Analysis



Competitor Analysis

Example Prompt

Insert your
**industry/topic
of interest**

Act as a Competitive Intelligence Analyst specializing in **toy manufacturing**. Your task is to **conduct a comprehensive competitor analysis** to help organizations understand their position in the market and identify actionable opportunities for differentiation and growth. Your analysis should include:

1. **Competitor Identification:**

- Identify the top 5-10 competitors in **Brazil**.
- Categorize them by size, market share, specialization, and geographic reach.

2. **Market Positioning:**

- Analyze each competitor's unique selling proposition (USP), target audience, and key value drivers.
- Highlight competitors' strengths, weaknesses, and market perceptions.
- Identify market gaps and differentiation opportunities.

3. **Product/Service Offering:**

- Compare product or service features, pricing strategies, and innovation levels.
- Identify gaps or areas where competitors excel or underperform.
- Assess customer reviews and feedback to evaluate performance against expectations.

4. **Marketing and Branding:**

- Assess competitors' branding strategies, messaging, and key marketing channels.
- Identify successful campaigns or tactics that resonate with their audience.
- SEO Analysis:
 - Identify top-performing pages and keywords competitors rank for.
- Assess content strategies driving traffic and opportunities to capture segments of their audience.

5. **Operational Insights:**

- Analyze their supply chain, distribution methods, and operational efficiency.
- Highlight notable partnerships, alliances, or expansions.

Insert your
**specific
market/location**

Competitor Analysis

Example Prompt (cont.)

6. Financial Performance:

- Provide insights into revenue trends, profit margins, and investment priorities (if publicly available).
- Compare financial metrics to industry benchmarks and forecast trends.

7. Technological Edge:

- Evaluate competitors' use of technology, digital tools, automation, and innovation investments.
- Identify areas where competitors lead or lag in adopting new technologies.

8. Regulatory and Sustainability Practices:

- Assess competitors' compliance strategies and sustainability efforts, including ESG initiatives.
- Highlight areas for differentiation based on unmet regulatory or sustainability expectations.

9. Opportunities and Threats:

- Identify emerging opportunities or risks based on competitors' actions or market trends.
- Suggest areas where your organization can outmaneuver competitors.

10. Strategic Pitfalls:

- Evaluate competitor strategies that have failed to meet customer expectations to avoid repeating ineffective approaches.

Strategic Recommendations:

- Based on the analysis, provide actionable recommendations, including:
- Competitive Differentiation: How to position products/services to stand out.
- Market Opportunities: Areas where competitors are weak or unaddressed customer needs exist.
- Innovation and Growth Strategies: Leveraging technology, partnerships, or new markets for a competitive edge.


Data Sources:

- Use publicly available resources such as competitors' websites, press releases, financial reports, industry publications, and market data. For each insight, provide:
- Data points or evidence supporting the findings.
- Practical examples or case studies illustrating competitor strategies.
- Actionable steps tailored to **toy manufacturing and entertainment**.

Insert
specific
industry
application

Competitor Analysis

Example Output

See full prompt 

The Brazilian toy market is a dynamic and competitive landscape, featuring both international giants and prominent local manufacturers. Understanding the competitive environment is crucial for identifying opportunities for differentiation and growth. Below is a comprehensive analysis of key competitors in Brazil's toy industry:

Competitor Identification:

The top competitors in Brazil's toy market include:

- **Mattel:** Leading with a 17.6% market share as of 2019.
- **Hasbro:** Holding over 10% market share in the same period.
- **Manufatura de Brinquedos Estrela SA:** The largest local company, generating 5.2% of the industry's total production value in 2023.
- **Tectoy:** Specializes in electronic toys and video games, known for producing and distributing Sega consoles in Brazil.
- **LEGO Group:** A significant player in the construction toys segment.

Market Positioning:

- **Mattel:** Targets a broad audience with a diverse product range, including iconic brands like Barbie and Hot Wheels. Strengths include brand recognition and extensive distribution networks. A potential weakness is reliance on traditional toy segments amidst a digital shift.
- **Hasbro:** Focuses on family-centric entertainment, offering products like board games and action figures. Strengths lie in brand loyalty and a strong portfolio of licensed products. However, the company faces challenges in adapting to rapidly changing consumer preferences.
- **Estrela:** Caters primarily to the domestic market with a focus on traditional toys. Its strength is a deep understanding of local consumer behavior, but it faces stiff competition from international brands.
- **Tectoy:** Specializes in electronic gaming, appealing to tech-savvy consumers. Strengths include exclusive partnerships and a niche market focus. A limitation is the dependency on the volatile electronics market.

Cost Optimization



Cost Optimization

Example Prompt

Insert your
**industry/topic
of interest**

Act as a Cost Optimization Consultant specializing in **alternative sweeteners**. Your task is to identify actionable strategies and insights for reducing costs without compromising quality, innovation, or operational efficiency. Focus on:

1. **Current Cost Drivers:**

- Analyze the major cost contributors in **raw material procurement, production processes, such as fermentation, extraction, purification, and drying, energy-intensive operations and resource utilization (e.g., water usage, electricity, waste management), regulatory compliance and quality assurance measures, and supply chain inefficiencies, including transportation and warehousing.**
- Highlight areas where inefficiencies or high expenses are commonly observed.

2. **Cost-Saving Opportunities:**

- Provide at least 10 actionable strategies for reducing costs across areas such as supply chain, production, R&D, labor, energy consumption, and overhead.
- Highlight innovative cost-saving approaches, such as adopting new technologies, automating processes, or negotiating supplier contracts.

3. **Benchmarking:**

- Compare costs with industry benchmarks to identify where the organization is overspending.
- Provide examples of companies or sectors that have achieved cost optimization success and the strategies they used.

4. **Risk Analysis:**

- Discuss potential risks or trade-offs associated with cost-cutting measures, such as quality degradation, customer satisfaction, or employee morale.
- Offer mitigation strategies to minimize these risks.

5. **ROI-Focused Recommendations:**

- Suggest investments or process changes with the highest return on investment (e.g., transitioning to lean manufacturing, adopting energy-efficient technologies, leveraging AI for predictive maintenance).
- Include short-term quick wins and long-term sustainable changes.

Insert your
**processes,
products, or
operations**

Cost Optimization

Example Prompt (cont.)

6. Technology and Innovation:

- Recommend technologies or tools that can streamline operations, reduce waste, or optimize resource utilization.
- Highlight opportunities for digital transformation to enhance efficiency and reduce costs.

7. Sustainability Integration:

- Identify cost-saving opportunities that also align with sustainability goals, such as waste reduction, renewable energy adoption, or circular economy initiatives.

For each recommendation, provide:


- Clear, actionable steps for implementation.
- Potential cost savings and ROI estimates.
- Supporting examples, data, or case studies from **the alternative sweetener industry**.

Focus on delivering practical and innovative cost optimization strategies that drive measurable results while maintaining business excellence in **alternative sweetener sector**.

Insert
specific
industry
application

Cost Optimization

Example Output

See full prompt 

Cost Optimization Strategies for the Alternative Sweetener Industry

Current Cost Drivers

Raw Material Procurement:

- Dependence on high-cost raw materials like feedstocks for fermentation or plant-based extracts.
- Volatility in pricing due to market fluctuations.

Production Processes:

- Energy-intensive operations such as fermentation, extraction, and drying.
- High costs associated with water usage and waste management.
- Scaling inefficiencies in biotechnological processes.

Regulatory Compliance and Quality Assurance:

- Costs of adhering to strict food safety and labeling regulations.
- Quality testing and certification expenses.

Supply Chain Inefficiencies:

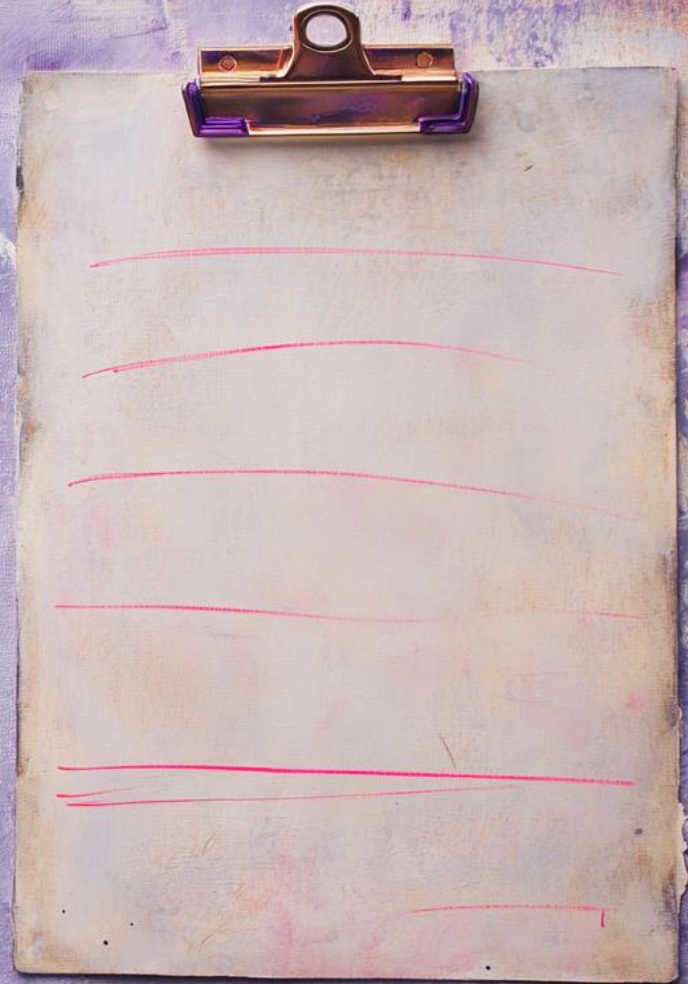
- High transportation costs for raw materials and finished products.
- Warehousing inefficiencies and excess inventory holding.

Cost-Saving Opportunities

Optimize Raw Material Sourcing:

- Negotiate long-term contracts with suppliers for price stability.
- Explore alternative, lower-cost feedstocks or co-products from other industries.

Risk Assessment



Risk Assessment

Example Prompt

Insert your
**industry/topic
of interest**



Act as a Risk Management Specialist with expertise in **logistics and supply chain management**. Your task is to conduct a comprehensive risk assessment to help organizations identify, evaluate, and mitigate potential risks. Include:

1. Risk Identification:

- List all potential risks associated with **transportation, warehousing, distribution, and last-mile delivery**.
- Categorize risks into types (e.g., operational, financial, regulatory, technological, market, reputational).

2. Risk Analysis:

- Evaluate the likelihood and potential impact of each identified risk.
- Use a scale (e.g., low, medium, high) or quantitative metrics to assess severity and probability.

3. Root Cause Analysis:

- Identify the underlying causes or triggers for each risk.
- Highlight external and internal factors contributing to the risk landscape.

4. Mitigation Strategies:

- Provide actionable recommendations to reduce, transfer, or eliminate each risk.
- Include short-term and long-term measures, such as adopting new technologies, revising processes, or forming strategic partnerships.

5. Early Warning Systems:

- Suggest tools, KPIs, or monitoring systems to detect risks early and enable proactive management.
- Highlight ways to use data or AI for predictive risk analysis.

6. Regulatory and Compliance Risks:

- Identify specific legal, regulatory, or compliance challenges.
- Suggest strategies to navigate these risks while maintaining competitive advantage.

Insert
**specific process,
product, market,
or project**

Risk Assessment

Example Prompt (cont.)



7. Scenario Planning:

- Outline possible risk scenarios (e.g., market downturn, supply chain disruption, cyberattacks).
- Provide contingency plans and adaptive strategies for each scenario.

8. Opportunities Amid Risks:

- Identify areas where risks can present opportunities for innovation, differentiation, or strategic pivots.
- Highlight successful case studies of companies turning risks into advantages.

Based on the assessment, provide a Risk Management Plan, including:

- **Prioritized Risks:** A ranked list of risks based on their criticality.
- **Mitigation Timeline:** Suggested time frames for addressing each risk.
- **Actionable Recommendations:** Clear steps for minimizing or managing risks.
- **Ongoing Monitoring:** Tools and methods for tracking risk factors over time.

Use credible sources such as industry reports, market data, regulatory guidelines, and case studies. For each risk and recommendation, include:

- Supporting data or examples to validate findings.
- Practical insights tailored to **logistics operations and supply chain dynamics**.
- Links or references for further exploration.

Focus on delivering a detailed, actionable, and proactive approach to risk management that aligns with strategic goals and industry standards in **the logistics sector**.

Insert
specific
area

Insert
specific process,
product, market,
or project

Risk Assessment

Example Output



See full prompt [↗](#)

Risk Identification

Transportation Risks

- **Operational:** Delays due to weather, traffic, or equipment failure.
- **Financial:** Rising fuel costs, fluctuating carrier rates.
- **Regulatory:** Cross-border regulations, driver hours-of-service compliance.
- **Technological:** Cyberattacks on transport management systems.
- **Market:** Carrier capacity shortages.
- **Reputational:** Delivery failures affecting customer trust.

Warehousing Risks


- **Operational:** Inefficient inventory management, labor shortages.
- **Financial:** High overhead costs, theft or shrinkage.
- **Regulatory:** Non-compliance with storage regulations.
- **Technological:** System downtime affecting warehouse management software.
- **Reputational:** Product damage during storage.

Distribution Risks

- **Operational:** Bottlenecks at distribution centers.
- **Financial:** High costs of expedited shipping during disruptions.
- **Regulatory:** Mismanagement of restricted goods.
- **Technological:** Misaligned ERP systems with distribution demands.
- **Market:** Changes in demand patterns.

Last-Mile Delivery Risks

Material selection



Material selection

Example Prompt

Insert your
**industry/topic
of interest**

Act as a Materials Scientist and Consultant specializing in **graphene-based materials**. Your task is to develop a comprehensive material selection analysis to ensure optimal performance, sustainability, and cost-effectiveness for **apparel**. Include:

1. Performance Requirements:

- Outline the functional, mechanical, thermal, and chemical properties required for the material in **jackets**.
- Highlight critical criteria such as strength, durability, weight, flexibility, conductivity, or corrosion resistance.

2. Material Options:

- Identify 5-10 material options that meet the outlined requirements.
- Provide details on each material's properties, including trade-offs and limitations.

3. Cost Analysis:

- Compare the costs of the identified materials, including raw material expenses, processing costs, and lifecycle costs.
- Highlight cost-effective alternatives without sacrificing performance.

4. Sustainability and Environmental Impact:

- Evaluate the environmental footprint of each material, including energy use, recyclability, and sourcing.
- Suggest eco-friendly or renewable material options where applicable.

5. Regulatory and Compliance Considerations:

- Identify any legal or industry-specific standards that the material must meet (e.g., FDA, REACH, ISO).
- Highlight materials with certifications or approvals relevant to the application.

6. Supply Chain and Availability:

- Assess the availability and reliability of supply for each material.
- Highlight potential risks, such as geopolitical issues or resource scarcity.

Insert
**application or
products**

Material selection

Example Prompt (cont.)

7. Case Studies and Best Practices:

- Include examples of similar applications where the recommended materials have been successfully used.
- Highlight any lessons learned or performance insights.

Based on this analysis, provide strategic recommendations, including:

- **Optimal Material Choice:** Recommend the best material(s) for **jackets** and explain why.
- **Alternatives:** Suggest backup options in case of supply or cost challenges.
- **Implementation Guidance:** Provide practical steps for integrating the material into production or development processes.
- **Future-Proofing:** Suggest materials with adaptability for evolving requirements or technologies.

Use credible sources such as material databases, industry publications, and case studies. For each material, include:

- A summary of its key properties.
- Comparative data to illustrate trade-offs and benefits.
- Links or references for further exploration.


Focus on delivering a detailed, actionable analysis that balances performance, cost, sustainability, and compliance to support decision-making in **the apparel industry**.

Insert
**processes,
products, or
operations.**

Insert
**specific industry
application**

Material selection

Example Output

See full prompt 

Material Selection Analysis for Jackets

By a Materials Scientist and Consultant Specializing in Graphene-Based Materials

Performance Requirements

Functional, Mechanical, Thermal, and Chemical Properties

- **Strength & Durability:** Resistance to wear, tear, and tensile stress for long-lasting use.
- **Weight:** Lightweight for comfort and mobility.
- **Flexibility:** Ability to move and stretch without damage, particularly for active wear.
- **Thermal Regulation:** Insulation against cold and breathability for moisture control.
- **Chemical Resistance:** Protection from degradation due to water, oils, and detergents.
- **Conductivity:** Optional, for heated jackets or smart apparel applications.
- **Corrosion Resistance:** For coatings or integrated electronics to prevent degradation.

Material Options

Graphene-Coated Fabrics

- **Properties:** High strength-to-weight ratio, excellent conductivity, lightweight.
- **Trade-offs:** Costly processing; limited large-scale production.

Nylon with Durable Water Repellent (DWR) Finish

- **Properties:** Lightweight, water-resistant, abrasion-resistant.
- **Trade-offs:** Environmental concerns with DWR chemicals.

Recycled Polyester

- **Properties:** Durable, moisture-wicking, lightweight.
- **Trade-offs:** Energy-intensive production; less flexible.

Gore-Tex (PTFE-based membrane)

- **Properties:** Waterproof, windproof, breathable.

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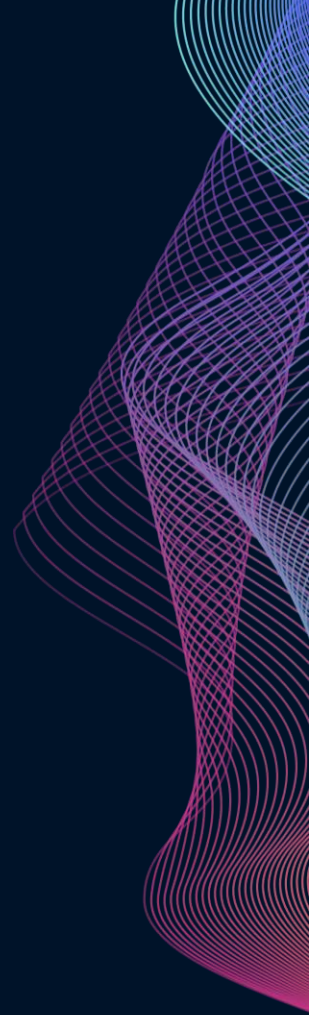
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