

Agenda



PreScouter Introduction

Webinar overview

SME Introduction



Norbert Teston

25 years in Compliance Excellence at Adidas

Topic #1

How do I successfully transition my company into a new service with unfamiliar regulatory requirements?

- Robotaxi's
- Electronic Shoes

Topic #2

How do I successfully manage our product line to ensure we are aligned with potential regulatory requirements?

- PFAS
- Flectronic Shoes

Q&A Session

PreScouter intro

MODERATORS:

Dr. Daniel Morales & Dr. Garrett Wheaton

Technical Director and Senior Project Architect Consumer Goods @ PreScouter PreScouter intro

Corey Katz

Commercial Director of Consumer Goods @ PreScouter

Custom Intelligence, On Demand



RESEARCH TIME IS LIMITED

- PreScouter serves R&D, Product
 Development, and Corporate Development professionals from every major industry.
 - We operate as an extension of your in-house teams, helping you quickly get up to speed on what you need to know on a topic.



INCREASE REACH & BANDWIDTH

- PreScouter saves clients the time and pain of having to look for particular information, and does this at lower cost than using
- internal resources.

In effect, we eliminate the overhead of hiring, training and managing employees to perform research tasks.



ENHANCE GLOBAL PERSPECTIVE

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FACTS:

Founded in 2010

Over 5,000+
PROJECTS

A truly global (and local)
perspective, with **CLIENTS IN MORE THAN 50 COUNTRIES** around the
world

Network of 10,000+ Global Experts and Analysts

DYNAMIC GLOBAL RESEARCH NETWORK

10,000+ researchers, analysts, scientists, engineers, economists & subject matter experts



PreScouter intro

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Technical Director and Senior Project Architect Consumer Goods @ PreScouter

Navigating the unforeseen challenges of introducing new services and expanding customer reach

How do regulations and product compliance affect product design, and when is it best to incorporate these factors into the production timeline?



How do I successfully transition my company into a new service with unfamiliar regulatory requirements?

Many of PreScouter's clients see opportunities for growth in adjacent areas to their business. One area that has received a lot of attention lately is technologies enabling autonomous vehicles and the opportunities/risks for pursuing their development.

How do I successfully manage our product line to ensure we are aligned with potential regulatory requirements?

Many of PreScouter's clients are seeking to identify PFAS and/or microplastic-free product formulation or packaging strategies in anticipation of upcoming regulations.



PreScouter works with client to ensure they are successfully navigating the pitfalls of new regulatory spaces and emerging product compliance specifications.

Topic #1:

How do I successfully transition my company into a new service with unfamiliar regulatory requirements?

Robotaxi Poll

Is your team currently developing products outside of your company's core area of regulatory and product development expertise?

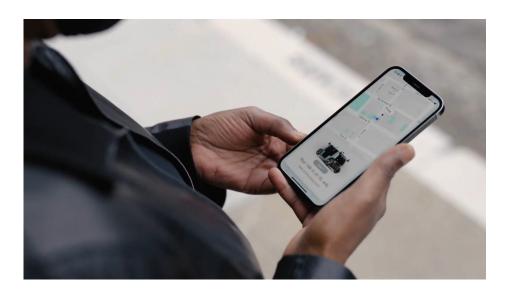
- l. Yes
- 2. No
- 3. Not yet, but we are planning to
- 4. I'm unsure

Robotaxis

Transitioning from manufacturer to service provider

WHY ROBOTAXI'S?

- Safer, lower-cost, and more efficient transportation
- Could replace car ownership
- Optimize routes and reduce traffic congestion
- Reduce the carbon footprint of urban transportation
- Increased and faster accessibility options



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Market estimates indicate a proposed a multibillion dollar market ranging from 10-100 billion by 2030!



Waymo One Since October 2020, Phoenix, AZ



Cruise Since June 2022, San Francisco Expanding to Austin and Phoenix by end of 2022



Argo Al (with Lyft) Since December 2021, Miami October 2022, Austin

Robotaxis

IN THE NEWS

- Shutdowns and road blockages
- Damage to construction sites
- Collisions with city buses and emergency response vehicles
- Collisions with.... pedestrians!



ehicle

"A driverless robotaxi hit a woman in downtown San Francisco and pinned her under the car, sending her to the hospital with serious injuries."

LA Times



Current Regulatory Framework

Why should brand managers care?

Robotaxis are a tangle of technologies and services.

A robotaxi marries an autonomous vehicle with mobility on demand, and a service that may or may not employ electric vehicles.

This combination creates ambiguity as to who has authority to oversee or regulate this service.



So, who is responsible when a driverless car crashes?

The focus will shift to what went wrong with the navigation, electronics, and parts, rather than driver error.

As vehicles become increasingly autonomous liability may shift toward parties in the supply chain, including carmakers, Tier 1 suppliers, software companies, and those responsible for the "smart" infrastructure.

Why should brand managers care?

Benefits of planning early for this challenge:

- Failure to adhere to these standards can result in legal repercussions, damage to brand reputation, and compromised customer safety.
- Increased market dominance driven be early entry into new markets
- Avoid having your product line shutdown by internal or external stakeholders

Regulatory bodies and cities frequently sense a lack of involvement as novel technologies are introduced despite being accountable for ensuring the safety of innovations developed and implemented by private entities.



PreScouter's Suggested Framework When Entering New Categories

- > Champion a framework where one doesn't exist, such as Decision Making Under Deep Uncertainty.
- > Identify the right software tools to ensure up to date compliance with regulations and laws.
- Create early partnerships with regulatory bodies, legal experts, and industry stakeholders.

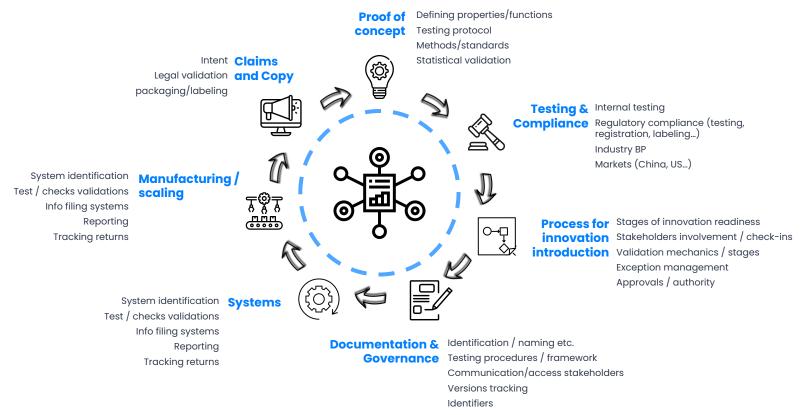


NORBERT TESTON

Founder and principal consultant at NT Creative and Consulting LLC. Norbert helps organizations eliminate the worry of product recalls by making quality and compliance certain, predictable and sustainable.

25 years experience in product integrity for the sportswear industry.

Innovation management framework



Behind the curtain of the iconic Smart Ride from Adidas



Topic #2:

How do I successfully manage our product line to ensure we are aligned with potential regulatory requirements?

PFAS & Microplastics Poll

How many people are considering PFAS chemistries or microplastics in relation to your products or packaging?

- l. Yes
- 2. No
- 3. Should I be?

PFAS

Navigating Emerging Regulatory Requirements

What are PFAS and how are we exposed?

"Perfluoroalkyl and polyfluoroalkyl substances (PFAS)", also known as forever chemicals, are a family of almost 5,000 chemicals designed to make products resistant to heat, oil, stains, grease, and water.

Consumers are getting exposed daily via common items such as fast food and takeout packaging and cosmetics.

Why should we care?

Specific compounds have hazardous health effects, some linked to various cancers and reproductive health issues.

Daily Dangers of PFAS

Sources









Firefighting

foams



Stain-resistant

products



Fast food

packaging





Photography



Shampoo

Pesticides

Candy wrappers

Dental floss

Nonstick cookware

Paints







Pesticides

Key Takeaway:

Not only increasing health impacts and exposure risks, but new government regulations and litigations

Recent Regulatory Updates

- Significant New Use Rule for Inactive PFAS: In January 2024, the EPA finalized
 a rule preventing companies from manufacturing or processing 329 PFAS
 compounds.
- Designation of PFOA and PFOS as Hazardous Substances: In April, 2023 The EPA restarted the process to designate PFOA and PFOS as hazardous substances.
- Enhanced Toxics Release Inventory Reporting: In October 2023, EPA released
 a final rule to improve reporting on PFAS to the Toxics Release Inventory (TRI).
- States enacting laws, including Maryland, Main, Colorado, and Washington, prohibiting the sale of specific PFAS containing products.

Litigation

- March 2023, Onaka v. Shiseido Americas Corp.
- March 2023, Brown v. Coty
- September 2023, Hicks, et al. v. L'Oreal USA, Inc.
- November 2023, Equibel, et al. v. Colgate-Palmolive, Co.
- Despite the early dismissals, due to failure by plaintiffs to show they
 purchased an affected product, cases alleging harm from PFAS-containing
 products will continue.

Three categories of products in which PFAS can be phased out

Challenges persist in finding smart alternatives to this valuable class of chemicals



Nonessentials:

PFAS not essential for health and safety, typically driven by market preferences (e.g. to make a product feel a certain way). Use can be phased or banned.

Example:

PTFE for smooth & sleek finish in cosmetics.

Company:





Substitutable:

PFAS performs a key function, but alternatives exist with similar performance. Use can be phased or banned.

Example:

Polytetrafluoroethylene (PTFE) membranes for water repellency

Company:





Essential:

PFAS essential because they are necessary for health and safety with no alternatives. Here R&D is needed

Example:

Perfluorosulfonic acid (PFSA) membranes for flame protective clothing for workers.

WARNING: Using short-chain PFAS to replace long-chain

PFAS might be just as problematic.

Key Takeaway:

Similarly to PFAS, microplastics are becoming an emerging health threat, which companies will need to respond to as government regulations emerging and ligation becomes more prevalent.

May, 2022, a study shows microplastics found in human blood for first time, present in 77% of tested patients.





July, 2022, a study finds microplastics found in human breast milk for the first time, present in 76% of donors.

February, 2024, a scientific study shows microplastics found in every human placenta tested



Standards creation framework

How to manage that unregulated space?

- Employees / brand experience (supply chain)
- · Analyze consumer standing
- Partner with research orgs / universities
- Study existing landscape of existing & upcoming regulation and standards (trends)
- Conduct thorough testing / trials: test, test and test again
- Practice: Due diligence and the Court Trial exercise.

Laws and regulations



Industry Best practices



Brand Standards & Values







No testing necessary

















PreScouter leverages PhD-level analysts and industry experts to help our clients navigate strategic growth opportunities and resolve challenges with existing product lines in the context of compliance and regulatory considerations.





THANK YOU FOR ATTENDING:

Robotaxis, Microplastics & Regulatory Pressure

If you're interested to learn more about PreScouter feel free to contact Corey Katz at ckatz@prescouter.com.

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About PreScouter

PreScouter helps clients gain competitive advantage by providing customized global research. We act as an extension to your in-house research and business data teams to provide you with a holistic view of trends, technologies, and markets.

Our model leverages a network of 5,000+ advanced degree researchers, industrial experts, engineers, and analysts across the globe to tap into information from small businesses, national labs, markets, universities, patents, startups, and entrepreneurs.

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