Solution Landscape, Ecosystem & Use-Case Analysis: Metal Organic Framework

Case Study

Solution Landscape, Ecosystem & Use-Case Analysis

Client	Makers and distributor of home appliances and consumer products
Industry	Home Appliances and Consumer Products
Products	Accessories, auxiliary materials, and tools for Consumer Products & Home Appliances

Context

- Client wanted to identify innovative solution for Zeolith applications or adsorption processes for Metal Organic Frameworks (MOF)
- Also, client wanted possible MOFs for water adsorption, below 60°C regeneration temperature and could high adsorption rates

Key Business Questions

- What are the different MOFs for the use-case of interest and how is their suitability for application?
- Who are the main players on the technology field?
- What products including MOFs are already available and what is the maturity level of specific materials?

Engagement Scope

Product Analysis Identifying different MOF materials Analyzing various material available

Providing state of maturity analysis based on the commercialization of the product and the research and development of prototype

based on the parameters given by client

Providing an overview of the state-of-art products & offerings made from MOFs

2 **Ecosystem Analysis**

- Analyzing entities on the technology field of:
 - MOF Material Manufacturers
 - MOF Product Manufacturers (composites, etc.)
 - Scientific Community (Research Institutes / Academia)
 - New Emerging Players (Start-ups, etc.)

3 **Use-case Analysis**

- Identifying relevant use case and provide an overview of the system analysis based on:
 - Key properties / functions
 - Industries
 - End-applications / Use-cases

Key Findings and Conclusions

- Provided detailed analysis of the metal organic frameworks (MOFs) with a comparative analysis of the various materials available
- Analyzed technological suitability for the entities mentioned by the client in MOFs
- Identified different use cases for MOFs products across industries



Solution Landscape, Ecosystem & Use-Case Analysis

Research Methodology

Patent Research

- Conducted desk research to understand the overall market
- Referred paid databases and identified patents for metal organic frameworks (MOFs)

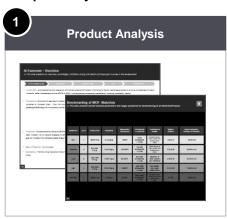
Primary Research

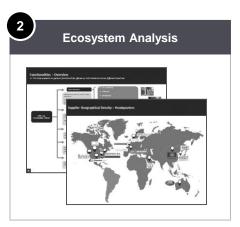
20+ Telephonic interview with manufacturers, distributors, industry experts, retailers, consumers, etc.

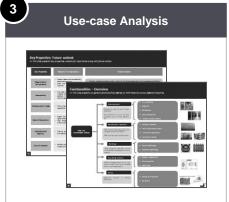
Benefits to Client

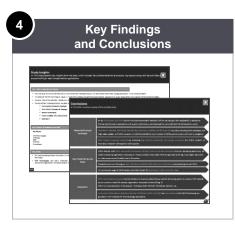
- Clients get to know the best MOF compounds and the various offering from the key players
- Client understood different offering from the players and which is best suitable to be used in their product

Sample Analysis









Thank you

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