



## Biodegradable Seed Coatings

Case Study

# Case Study: Technology Scouting & Assessment for Biodegradable Seed Coatings (1/2)

Client	A Chemical Company
Industry	Agriculture
Products	Seed products

## Context

- Due to the change in the regulatory landscape, the Client was interested in identifying functional ingredients which can be used in coating compositions for seed coating purposes.

## Key Business Questions

- What are the **available and innovative functional ingredients** applicable for seed coating?
- What are the **novel biodegradable materials** for biodegradable seed coating?
- What are the **unique features** of these raw materials?
- Which **entities** are present in the segment? Which **startups and academia** are active in the segment?
- What are current **opportunities** and **challenges** in this domain?

## Engagement Scope

1

### Technology Scouting

- What are the various biodegradable coating materials & technologies to protect and enhance the quality of the seed?
- What are the various functions of the identified biodegradable coating materials & technologies?
- How does the technology assist in enhancing the quality of the seed?
- What is the application industry for the identified coating materials?
- What are the various product formats available for biodegradable seed coating?
- What is the technology readiness level (TRL) of identified seed coating solutions?

2

### Deep Dive Entity Overview

- Who are the active players offering biodegradable functional ingredients?
- Which entities offer the shortlisted biodegradable seed coating solutions?
- What are the different material/technology portfolio for the entities?
- What is the technology innovation level offered by the entities?
- What are the differentiating features / advantages of the solutions?
- What is the collaboration opportunity assessment for the identified entities?

3

### Regulatory Overview

- What are the EPA & ESA regulatory guidelines?
- What are the guidelines of OECD Seed Schemes? Which coating materials meet the OECD Harmonised Templates 301 to 306?
- What are the different material/technology approved for seed application?
- What are the material specifications on seed application?
- What is European Seed Treatment Assurance?
- What certifications are required for importing of seeds in EU countries?
- What are the recent developments in regulations on seed coating?

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## Research Methodology

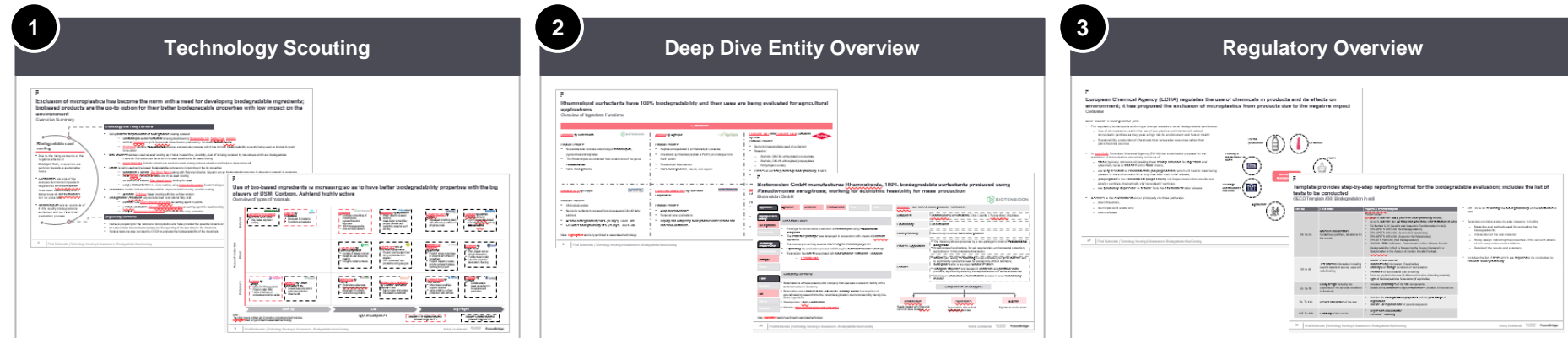
### Desk Research

- The study was executed by gathering scientific and patent literature from paid and open-source databases.
- Conducted secondary research based on open sources including - company websites, press releases, technology portals, etc.

## Benefits to Client

- The Client was able to gather information of the functional ingredients which had biodegradability.
- Technologies of allied segments were also provided which could possibly be applied for seed coating.
- Key entities were profiled in detail
- Regulatory landscape for chemicals was provided

## Sample Analysis



# Thank you

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