



Technology Landscaping for Drug Eluting Technology for Medical Implants

Client	A leading orthopedic medical devices manufacturer
Industry	Medical Devices
Products	Orthopedic medical implant

Background

- Client wanted to understand various technologies, polymers and materials that could be used to deliver drugs at therapeutic levels from implant materials over a period of time

Key Business Questions

- Which are the key technologies for antimicrobial drug delivery along with/from implants & medical device materials over a period of 3-6 weeks?
- Which are clinically proven technologies to deliver drugs from implant or have proof-of-concept?
- What are the key companies and academic entities working in this drug delivery technology?

Engagement Scope

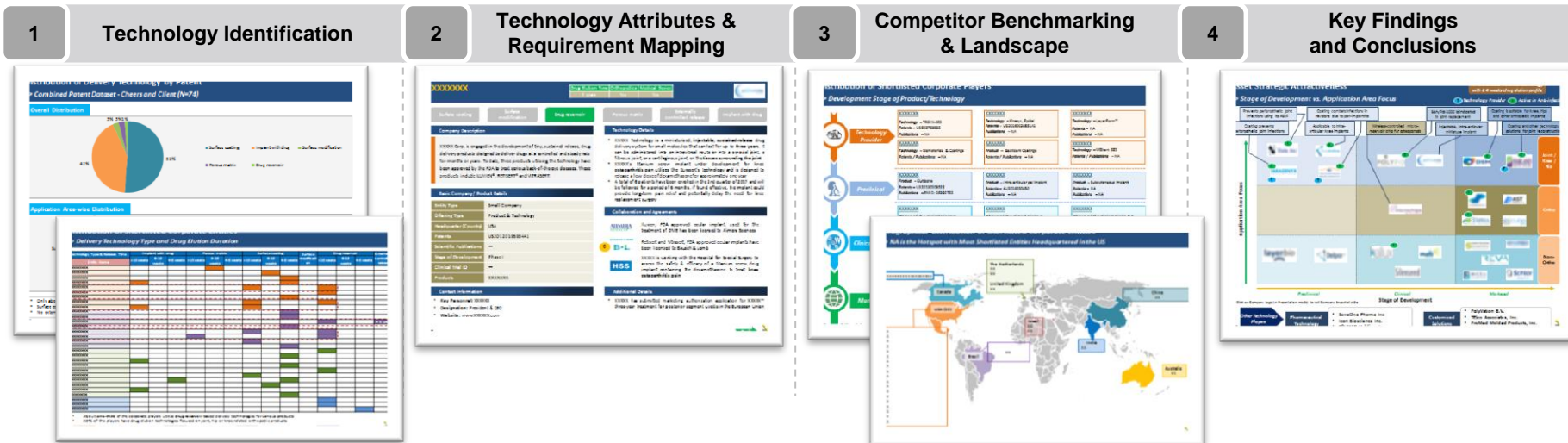
1	Technology Identification	2	Technology Attributes & Requirement Mapping	3	Competitor Benchmarking & Landscape	4	Key Findings and Conclusions
▪	Which are the key rate programmed drug delivery systems?	▪	What are the various drug elution matrices / systems (e.g. reservoirs, porous matrix, etc.)?	▪	Who are the key competitors active in the drug eluting implant segment?	▪	What are the strategically attractive drug elution technologies?
▪	How is the drug delivery system modulated (physical & chemical)?	▪	What are the non-orthopedic drug eluting technologies that would be applicable for the orthopedic implants?	▪	Which startups / SMEs are more active in the R&D activities?	▪	Who are the key influencers in the landscape?
▪	What are the various mechanisms and delivery kinetics of the drug release systems?	▪	What is the technology readiness level of identified technologies?	▪	Which are the technologies already available in the market?	▪	Which are the USPs and unmet needs in the existing drug elution technologies?

Research Methodology

Secondary Research

- Conducted secondary research based on open sources for collecting scientific data including clinical trials, research articles, etc.
- Referred paid data sources for gathering scientific and patent literature through patent and scientific databases
- Collected data from company website, annual reports, press releases, conference communications, etc.

Sample Analysis



Benefits to Client

- The study offers insights on the trend in the drug elution technologies and their cross-therapeutic applications for orthopedic implants
- The report is being used by the R&D team for identification of novel technologies and feasibility analysis for the co-development

Thank you

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