Case 9: Home Garden Chemicals (I of II) Booz Allen - Operations, Round 1

Problem statement narrative

- Our Client is a home garden chemicals manufacturer. Its product lines include herbicides and manure. Annual revenue is \$1Bn.
- The client primarily targets the consumer market. They sell their product through 'big-box' retailers such as Home Depot and Lowe's.
- They have recently come across a new technology that enables them to manufacture a new type of genetically modified grass, and they are considering selling the grass directly to golf courses.

Is this a good strategy?

Guidance for interviewer and information provided upon request⁽¹⁾

- •Herbicides used to kill weeds damage traditional grass.
- •The new modified grass will not be affected by herbicides = zero grass loss.
- •Water and herbicides can be delivered together through pipes/sprinkler systems.
- •Assume the total grass market is \$100M, and the golf course grass market is 10% of that with flat growth.
- •Replanting the grass on a golf course costs \$20,000.
- •Cost of developing the technology: \$3Mn per year for the first three years with no sales; 50% profit margin from the 4th year onwards.
- •Revenue projection: 30% of the golf course market for the first 3 years (i.e. starting from 4th year); 70% market share after that each year.

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	`	Year 1-3	Year 4-6	Year 7 +	(assume no discount)
Candidate should calculate the	Cash flow each year	-\$3Mn	+\$1.5Mn	+\$3.5Mn	
payback period	The payback period is 8 years. The client's policy requires 5 year payback and therefore it's not a good investment.				

A solid interview will address ways to improve the payback period

Possible options:

- •Speed up R&D and make the product market ready in less than 3 years.
- •Gain more market share (more advertising, help customers to further reduce their costs, etc.)
- •Improve profit margin.

A great candidate will explore the strategic intent behind the investment

Why does the client want to enter a market with such a small size (\$10Mn market compared to the client's \$1Bn annual revenue)?

- The client wants to use the golf course market as a test market for the new product. If successful, the client plans to introduce the new grass to the consumer market.

Is the golf course market a good test market given the client's intention?

- Candidate could compare the customer needs in these two different markets: consumers look for convenience; golf course customers look for big cost saving opportunities.

<u>Conclusion</u>: The golf course market might not be a good test market given the small size and different customer needs. The client should explore other markets to test this product.

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