THE HUB STRATEGY

IS R&D A PRODIGAL CHILD?

Getting returns on R&D investments is a tough challenge, but success largely depends on appropriate value creation.

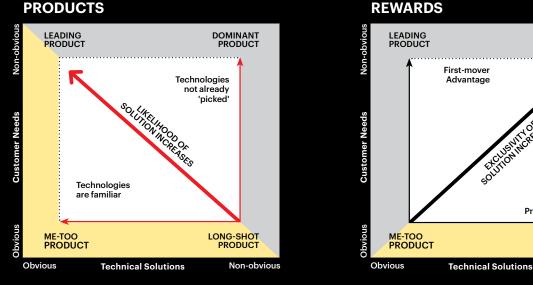
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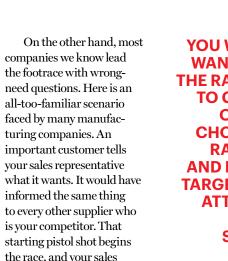
OST INDUSTRIAL COMPANIES end up

squandering their R&D resources. Interestingly, quite a few enterprises actually know that more than half of their R&D money is going down the drain. Numerous studies show that 50-75 per cent of R&D budgets get wasted on unsuccessful new products. And unlike advertising, where no one knows which 50 per cent is wasted, companies know which half of the R&D spending has not been effective although they realise it after the actual expenditure takes place. It does not mean

R&D labs are filled with non-technical people incapable of finding the right answers. They are just being asked the wrong questions. Questions that are unimaginative, being asked at too many other labs and, if solved, create too little value. In essence, these questions are too obvious. Such questions can be grouped into two

be grouped into two sets – wrong-market and wrong-need. The former occurs when researchers are asked to develop products for market segments that are unviable. It is an outrageous waste of resources, but most companies end up doing it.





is your competitor. That starting pistol shot begins the race, and your sales representative quickly drops the request off at R&D's doorstep, properly packaged and labelled, of course. R&D may ask the person to go back and ask more questions, but once the person has handed the baton to R&D, his/her leg of the relay is pretty much done.

The customer is always smart, and your competitors' sales representatives take the same request to their respective companies. Terrific! Now you are all in the same footrace, with the customer waiting

WANT TO WIN THE RACE ONLY **TO COMPETE ON PRICE**. **CHOOSE THE** RACE, TIME **AND PLACE BY TARGETING AN ATTRACTIVE**



at the finishing line. If more than one crosses it, you can forget that muchcoveted price premium. You will not want to

pete on price. It is better **YOU WILL NOT** that you choose the race, time and place by targeting an attractive market segment, which you pursue with in-depth customer interviews. Making use of advanced probing techniques, a two-person or three-person technical marketing team can unearth unspoken needs. MARKET When your team knows SEGMENT how to engage the customer in collaborative brain-



a premium. Patents are only granted if they are useful, new and non-obvious.

Clearly, the value of nonobvious technical solutions is much higher than run-ofthe-mill solutions.

Non-obvious

Products And Value Creation

Let us take a look at the value that can be derived from non-obvious customer needs. It can be much bigger than imaginable. Consider a 2x2 matrix of the customer's obvious and non-obvious needs against the obvious and non-obvious technical solutions, and you will see four distinct product groups emerging (see the graphic Products). These are Me-too (obvious technology for obvious needs), Long-shot (non-obvious tech for non-obvious needs), Dominant (nonobvious tech for obvious needs) and Leading (obvious tech for non-obvious needs). The key question is, as an enterprise, which ones should you pursue? It depends on the risks and

rewards where a) risk is driven by the likelihood of finding a technical solution and b) reward is considerably boosted if you become the exclusive solution provider.

Catering to customers'

non-obvious needs cre-

products, which will earn

higher returns. One may

mer leading to quick suc-

to a long-term market

advantage. Companies

running a solo race will

cess and the latter leading

have higher success rates

due to product exclusivity

and/or their ability to ad-

dress new needs.

use obvious or non-obvi ous technology, the for-

ates new value-based

likelihood of technical solutions' success increases as you move to the upper-left. Of course, the 'likelihood vector' points left because you are using familiar technical solutions. But it also points up because you are trying to answer questions that have never been asked. The technical solutions are unlikely to be picked up by competitors as they are unable to see the nonobvious needs.

Now take a look at the *Rewards* chart. It depends on whether you are the exclusive supplier of new customer value. Under the circumstances, you can usually charge the customer a higher price that returns to you a large portion of the value he/she receives

from your product. But if a competitor matches your product, nearly all of the value, and your profit, will immediately swing to your customer.

TRACK PROFIT ZONES

LEADING PRODUCT

First to

pursue

new needs

l ikelihood

of solution

ME-TOO PRODUCT

Obvious

has more

success

THE NO-ZONE

(A Solo Race)

THE O-ZONE

(A Crowded Race

Technical Solutions

DOMINANT PRODUCT

First to meet

new needs has market

advantage

Exclusivity

of solution

LONG-SHOT

succeed technically and

We believe most compa-

nies will benefit tremen-

less time in the O-Zone.

It is far too crowded, and

difficult to win here. Given

stances, here are the best

possibilities a company

• Me-too Product: It will

not bring you much

these products could

be needed to fill out

your product line or

requirements.

cal path.

• Long-shot Product:

This one can be a

meet strategic customer

resource sinkhole, but it

could be worthwhile if

you have a likely techni-

value, but some of

dously from spending

frankly, it is just plain

the different circum-

may want to pursue:

give you the first-

mover advantage.

What To Pursue

Non-obvious

As you move to the right with a patented technical solution, your exclusivity goes up. However, the exclusivity vector also points up as you are the first to discover and meet a non-obvious need. The first-mover advantage is yours in terms of branding, industry-leading reputation, learning-curve advances, path-breaking innovation or even an

application patent. Since any new R&D initiative's value is a combination of its risk and reward, the vectors should be added together, as featured in Track Profit Zones. By actively seeking non-obvious needs (the No-Zone), your team will be the first to uncover important needs. It is more likely that the team will

buster value, but do not start here. What is the point of a patented solution if competitors can find an obvious answer? Leading Product: Make this your first line of attack in most cases. Only move off if you cannot uncover any non-obvious needs or obvious technical solutions.

The 'prodigal child image of R&D can be overcome if your focus is on the No-Zone. But you will have to shift the workload by moving resources forward and outward: Forward in time by interviewing customers before starting costly product development and outward by spending more quality time with customers. The R&D efficiency will leapfrog and the costs will be a fraction of what

you would have wasted. You will be adding a dimension to your thinking that your competitors will not be able to. They will continue to work on product portfolios in the O-Zone, balancing Me-Too and Long-Shot projects but completely missing the non-obvious needs. They will be wasting resources in the zone of lowest possible R&D efficiency. Meanwhile, you will be competing where your competitors are not, by asking better questions. You will be running a race all by yourself. Which is a

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better race to win? BT

Under Products, the

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Most importantly, the new product you develop will be nothing like what the customer has seen before and nothing like it will be seen for a long time if you have patented it right. It will deliver real value, which the customer will be only too happy to procure by paying

storming, you are likely to

bring back unimagined

needs as well. The race

is on, and your competi-

tors do not even know it.

win this race only to com-



REWARDS

