Headline	Adding value to resources via sci-tech, and innovation		
MediaTitle	Daily Express (KK)		
Date	27 Mar 2016	Color	Full Color
Section	Comment&Analysis	Circulation	25,055
Page No	19	Readership	75,165
Language	English	ArticleSize	611 cm <sup>2</sup>
Journalist	Datuk Madius Tangau	AdValue	RM 3,148
Frequency	Daily (EM)	PR Value	RM 9,444



## Adding value to resources via sci-tech, and innovation

Datuk Madius Tangau

In myprevious article, fhighlighted the importance of having a foresight of our desired future for Malaysia so that we can prepare for it today. A quote by Mahama Gandhi gently reminds us that the future depends on what you do today.

So what can we do today to ensure a brighter future for fomorrow? A future where Malaysia is driven by technological advancements and fueled by cutting edge innovations.

And in monettics in science, technology, and in monettics of the future and prepare for the dependence. In fact, one of the key factors that made Malaysia is blessed with abundance of natural resources that have are not left behind in the dust while all other countries have overtaken us in the race to the top. Malaysia is blessed with abundance of natural resources that have been the backbone of our ecohomy since the days of independence. In fact, one of the key factors that made Malaysia the coveted gen in the treasure box was our riches in mineral commodities (tin, gold, etc.), suitable climate for agriculture (cocoa, rubber, palm oil) and strategic location (trading route for East and West).

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innovation, which normally does not protective the commodity.

Take for example South Korea that has no petroleum resources but by leveraging STI it has developed one of the largest petrochemical industries in the world. Essentially, they buy crude oil, value add and resellit as high value downstream products for up to five times higher.

Similarly in the oil palm, oil and gas sectors, we need to do more than what we already have now to extract more value from these resources.

As a student of Forestry Science and having worked at Sabah Forestry Department and Chairman of the Malaysian Timber in dustrial Board, I realise the importance of the timber industry which has the main economic backbone of Sabah.

Although, timber is no longer the main export of Sabah due to shortage of raw manterials, it still remains significant even at a much reduced log production level with Sabah's total wood product exports total ingaround RM 915 million in the first seven months of 2015.

This is a good move to prepare out industries today to move forward to the future.

In line with value-adding to our resources, it is important to note that there are many STI aspects that can be injected into our current industries. Recently, iproposed to the Forest Research Institute Malaysia (FRIM) to set up a special division to soley study the acute mangium species which is a sustainable timber species which so are division to one forward to the future.

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provements to existing technologies or processes. On the other hand, most of the companies (52pe) are classified as 'Adapters' that are able to slightly improve the exchnology or products that they have. This type of innovation is also known as incremental innovation, which normally does not provide a drastic impact, but is important nevertheless.

These show that there are still much more room for improvement in Malaysia's innovation capacity, life when more 'Creators', we would be able to create new technology or products that have higher value proposition rather than just being Adapters' whom have lower value-adding capacity.