

Tech-Mining: A Key Capability to Support Growth

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This paper provides an overview of tech-mining activities undertaken by Innovation and Technology Department in PETRONAS Chemicals Group (PCG). This is in-line with the company's new vision, emphasizing innovation as a core pillar for growth. Tech-mining initiatives are being initiated in technology spaces of strategic interest to PCG.

This paper briefly introduces the history of PCG as well as the challenges it is facing with respect to industry dynamics and the petrochemical market. These challenges became drivers that shape the vision and strategies to chart PCG's continuous growth.

The cases shared in this paper were driven by the company's need to stay relevant in a highly competitive environment by scanning future technological trends related to its business. This includes investigating application solutions for petrochemical feedstock in olefins and derivatives, and fertilizer and methanol. We have also looked at new fields such as carbon dioxide utilization as feedstock. The datasets used were based on patent data and scientific literature using Thomson Innovation solutions.

The outputs from the above activities were used to shape strategies related to technology solutions, networks and identifying collaborators for PCG's future positioning. This has enabled us to develop our initial Innovation and Technology roadmaps, to guide the identification of future business growth opportunities.

Tech-mining is a strength PCG has developed and the capability supports PCG remaining competitive. By being able to foresight technology movements in its space and strategize vigilantly, PCG will be better positioned to achieve its growth agenda.