**Cummins AI Impact-A-Thon 2025**

Here is some context and a sample file that can be provided to the participants ahead of the competition.

This data represents historical Aftermarket demand for a Parts Distribution Center for the period of Jan 2020 through December 2024, a total of five years.  This dataset includes historical demand spanning three different divisions so the resulting output should be aggregated as such and not combined into one number.

The balance of the categorical variables (part attributes) are subsets within the respective division but are not always mutually exclusive to a division.  For example, you may see the same product categories appear within Division A, B, or C.

Of primary interest will be to understand what techniques and models will yield lower forecast error that can be utilized for future forecast development.

* Product Category à Engine Classification Code (ECC)
* Attribute B à Engine Model/Displacement
* Attribute C à Certification Level
* Division à Business Unit