



## Material Classification Automation

### Function:

Supply Chain, Logistics

### Processes:

Harmonize Tariff Schedule, Product classification, Import and export customs clearance

### Industry:

Consumer & Industrial Products, Cross Industry

### Business Driver

Many companies face material classification issues which can lead to

- Inconsistent or missing HTS (Harmonize Tariff Schedule) classification
- Operational inefficiencies
- Regulatory incompliance risk
- Costly remediation efforts and/or fines

### Solutions Overview

HTS (Harmonize Tariff Schedule) classification of materials is required for all cross border movements. This solution offers Automation of product HTS classification using robotics, advanced analytics and machine learning.

### Features

The HTS classification solution is designed to accomplish the following tasks:

- Enrich material information by extracting information from sources such as internal websites
- Use Natural Language Processing (NLP) to understand and cleanse material description
- Apply pattern recognition to identify material based on its number
- Learn from training data and improve based on business user input
- Classify material based on classification rules

### Potential Benefits

- Elimination of delays at import/export due to missing classification data
- Less rework/remediation work
- Reduction of compliance risks and related fines



### Machine Learning

- Tensorflow
- Python model



### Core SAP

- SAP® Cloud Platform
- Build Me
- SAP S/4HANA®
- Portal Service
- Connectivity Service



### Analytics

- Business Intelligence

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