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| Enhance  Article IV Review Process  by  Text Mining  Where Are We and  What’s Next |

# Motivation

Review is a key mandate of SPR. We should seek innovation to improve its speed and consistency.

**Text Mining** is valuable to automate the following tasks: preset rules and ML algorithms can help analyze topic distribution in incoming documents, check for missing topics, and flag topics in hot-button list. Sentiment analysis can be added to check consistency vs. peers and history.

# Solution

Leveraging on the ML models *already* developed in-house, and the enablement from ITD’s cloud-based platform, we are ready to build a web-portal based tool with immediate impact.

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|  | **A visualization of the in-house ML model** Dots indicate the size and sentiment of *risk-related* topic in 2018 across countries. |

# Prototype- The output we envision could look something like this

 