**MMMM to RRRR Migration: Clarifying Scope, Challenges, and Decision Factors**

**Context & Objective:**  
We are at a critical juncture in the MMMM to RRRR migration, where key subject matter experts (SMEs) who originally developed and structured the system have moved on. This has left significant **knowledge gaps, challenges in mastery**, and **resource constraints** due to ongoing initiatives (e.g., Clean PnL, VVVV). The goal of this discussion is to establish **clarity** around what it takes to handle MMMM-related projects, ensuring stakeholders can make informed decisions regarding **ownership, resource needs, and prioritization**.

**Breaking Down the Migration Effort**

**1. Mapping, Configuration, MDO Taxonomy, and Proxy Risk**

* This phase requires a **deep understanding** of the **specific language, workflows, and structured steps** involved.
* It is not just about setting up configurations; it requires an individual to **grasp the full end-to-end workflow**—from how MMMM structures risk data to how it integrates with RRRR.
* **Key challenge:** The expertise required is highly specialized, and currently, no team has dedicated ownership.

**2. Large-Scale Data Analysis & Debugging**

* Today, large-scale analysis takes **6 to 7 manual steps** to process effectively.
* **Enhancements & Simplifications:** Linfeng has already provided requirements to streamline this process, which is particularly beneficial for Middle Office (MO).
* However, **debugging remains a manual, deep-dive effort** that requires:
  + **Mastering the system’s dependencies** (e.g., Master.TV, taxonomy validation, time series generation, risk factor mapping).
  + Understanding **how MMMM risk maps to Mars and RRRR**.
  + Extensive **data wrangling** across multiple environments (**VVVV code base, Co AU, Ma , etc.**).
* **Key challenge:** Even with automation in place, debugging requires hands-on problem-solving and deep system familiarity.

**3. Execution: Once Learned, It Becomes Easier**

* While **overwhelming at first**, once an individual fully understands the process, most tasks can be **executed within 1 day to a few days**.
* **Key challenge:** The barrier to entry is high due to the complexity of workflows, requiring **dedicated time for onboarding and skill-building**.

**4. Validation & Root Cause Investigation (Most Time-Consuming Phase)**

* This phase is **the primary bottleneck**.
* **Investigating root causes and taking corrective action is NOT automated**—this is where the bulk of manual effort is spent.
* **Example challenges:**
  + Identifying inconsistencies in risk factor mappings.
  + Diagnosing time series generation failures.
  + Resolving data misalignments between MMMM and RRRR.
* **Key challenge:** Even if the initial migration tasks are streamlined, validation remains an ongoing demand that requires dedicated expertise and bandwidth.

**Decision Foundation: What Stakeholders Need to Align On**

1. **Ownership** – Who is responsible for which aspects?
   * Risk Analytics is being suggested but has **rejected ownership**.
   * My team is also **not in a position to take this on** without dedicated resources.
   * Does the MMMM Tech team build the missing automation as a prerequisite for handover?
2. **Resource Allocation** – Who has the bandwidth and expertise?
   * Without dedicated **hands-on** expertise, this will remain an open issue.
   * What would an ideal team structure look like?
3. **Prioritization** – Given competing initiatives (Clean PnL, VVVV, etc.), where does this rank?
   * Is this a critical priority, or does it need **incremental phase-based execution**?
   * What **support structures** are needed for smoother adoption?

**Next Steps**

To make progress, we need alignment on **who owns what, how we close gaps in knowledge, and whether additional automation is required before any team takes ownership.** Looking forward to discussing solutions in today’s meeting.