**Introduction**

In 2024, MDS achieved remarkable milestones, completing **24 high-impact projects** that not only enhanced our data quality and operational efficiency but also positioned the platform as a critical enabler of our bank’s strategic goals. Today, I’ll Walk you through:

* **The projects we completed in 2024 and the value they delivered.**
* **How the MDS team operates—roles, responsibilities, and collaboration.**
* **Typical MDS tasks and how they ensure smooth operations.**
* **The process we use to implement projects effectively.**
* **An insight into how time is quantified and invested in MDS to maximize results**

**MDS 2024 Metrics:**

Here is an overview of MDS 2024 metrics

MDS processed an astounding **1.6 million risk factors** in 2024 across all asset classes, ensuring seamless integration and high-quality data for downstream systems

Of the 1.6 million risk factors processed, **30,000 key risk factors** used by the Market Risk team underwent rigorous **data quality (DQ) checks** in 2024.

These risk factors are the foundation of our market risk models and regulatory compliance efforts

While the numbers are impressive, the real value lies in how MDS handles this volume efficiently:

* **Low-Code Automation:** MDS’s low-code capabilities enabled automated ingestion and validation, reducing processing times and improving scalabilit

### ****Pitch: Typical MDS Tasks and Responsibilities****

The heart of MDS lies in the **breadth and depth of tasks and responsibilities** we manage every day. These tasks ensure the seamless operation of our platform, support business-critical decisions, and drive continuous improvements. MDS is not just a tool—it’s an ecosystem of workflows and expertise designed to deliver exceptional results. Let me walk you through the four key pillars of our work:

These four pillars—BAU suspecting management, risk factor expansion, large data analysis, and new data projects—represent the core of MDS’s value to the bank. They demonstrate our ability to:

* **Operate Efficiently:** By resolving suspects daily and maintaining data quality.
* **Scale Strategically:** By expanding risk factors and integrating them seamlessly.
* **Improve Continuously:** By diagnosing issues and driving enhancements.
* **Innovate Dynamically:** By delivering new data solutions that align with business priorities.

### BAU Suspecting Management

* MDS ensures the **daily health and integrity of data** through proactive suspect management:
* **Daily Suspect Resolution:** Any flagged anomalies
* **Risk Driver Creation:** We frequently create and validate new risk drivers as business requirements evolve

**Expansion of Risk Factors**

Expanding MDS’s coverage is a critical responsibility that supports the bank’s growing business needs:

* **Risk Factor Identification:** We identify new risk factors across asset classes, aligning with evolving market needs and regulatory requirements.
* **Generation and Validation:** New risk factors are generated, validated, and ensured to meet high-quality standards before integration.
* **Integration Testing:** Every new risk factor undergoes rigorous testing to ensure it integrates seamlessly with downstream systems and models.

**3. Large Data Analysis and Continuous Improvement**

MDS is built to not only handle large-scale data but also to continuously improve how that data is processed:

* **Production Issue Diagnosis:** When problems arise, we perform root cause analysis to identify the source of the issue, whether technical or operational.
* **Tactical Solution Resolution:** Quick, tactical fixes are implemented to ensure minimal disruption to stakeholders.
* **Continuous Enhancements:** Beyond resolving issues, we focus on improving processes and systems to prevent future problems and increase efficiency.

### ****4. New Data Projects****

One of MDS’s most strategic responsibilities is delivering new data solutions for evolving business needs:

**Typical MDS Project Path**

To truly understand how MDS delivers value, it’s essential to look at the lifecycle of a typical project. MDS projects follow a **structured and methodical path**, ensuring that every request—no matter how complex—translates into a high-quality, reliable data solution t

**Market Data Request: Setting the Foundation**

* Every project begins with a **market data request** from stakeholders
* Analyze, Brainstorm, and Prototype
  + **Analyze:** We dive deep into the request, assessing requirements, dependencies, and constraints.
  + **Brainstorm:** The MDS team brings together its collective expertise to ideate potential solutions,
  + **Prototype:** Before committing to a full implementation, we build a small-scale prototype to test feasibility and validate assumptions.
* Implementation and Execution: Bringing the Design to Life
  + **Implementation:** Configure the solution in MDS’s low-code environment, building pipelines, setting up validation frameworks, and automating processes.
* Testing and Validation: Run end-to-end testing t

**MDS Projects value:**

In 2024, MDS’s contributions spanned **Equities, Commodities, Credit, Interest Rates, and FX**, ensuring that every asset class received the tailored data solutions needed

This breadth of coverage highlights MDS’s ability to adapt to diverse data requirements

**Efficiency Gains and Cost Savings**

it’s essential to highlight not only the operational success of MDS but also the **direct financial impact it has delivered**. In 2024, MDS’s efficiency gains and cost-saving initiatives translated into measurable value across critical areas:

**Slide: MDS Foundation:**

* MDS’s success today is rooted in a **strong foundation**, built over years of deliberate effort, strategic design, and mentorship. This foundation doesn’t just support our current capabilities; it accelerates our ability to deliver data solutions efficiently and reliably. Let me walk you through the three key pillars of MDS’s foundation:
* A Backbone of Architecture, Data Models, and Workflows: At the core of MDS lies an **initial architecture** that I designed to be scalable and robust. This foundation includes:
* **Compounding Effects of Tackling Complex Projects:**  
  Over the years, MDS has handled some of the bank’s most complex data projects. Each challenge we’ve tackled has added **layers of experience and efficiency** to the platform:
* **Mentoring the Team: Building Reliable Contributors**

MDS’s success isn’t just about technology—it’s about the **people who make it work.** To ensure sustainable growth, I’ve prioritized hands-on mentorship:

**Who Does What: The MDS Team**

MDS’s success in 2024 is the result of the efforts of a lean but highly skilled team:

* **Myself (Leader):**
  + Designed MDS’s foundational frameworks and led the most complex, high-stakes projects.
  + Provided strategic oversight, ensuring alignment with the bank’s goals.
  + Mentored the team to build expertise and independence, enabling faster, high-quality execution.
* **Senior:**
  + Successfully executed independent projects leveraging the mentorship and frameworks I established.
  + Focused on data onboarding, validation workflows, and stakeholder reporting.
* **Junior:**
  + Provided operational support, ensuring routine validations, suspect monitoring, and troubleshooting were handled efficiently.

Our team’s success lies in collaboration, mentorship, and leveraging each other’s strengths to deliver outstanding results.

**Quantifying Time and Effort in MDS Projects**

Managing MDS projects is not about assigning tasks and counting hours—it’s about delivering value through expertise and efficiency

**MDS’s 2024 Achievements: A Snapshot of Success**

This year, we completed **24 key projects** that spanned the following areas: