To drive clarity and enable **senior management** to make informed decisions on **Data Quality (DQ) enhancement**, you need to provide structure in five areas:

**✅ 1. Ways to Add Clarity & Help Senior Management Decide**

**🎯 Purpose**: Avoid abstract tech talk — help them see the *“what, why, how, and outcome.”*

**Tactics:**

* **Translate technical work into business outcomes**:  
  *“Improved outlier detection = fewer model rejections + cleaner capital numbers.”*
* **Use simple side-by-side comparisons**:  
  *“With current rules vs. with ML DQ checks” → show false positives reduced by 40%*
* **Define “What does success look like?”**:  
  *E.g., 95% of suspect data remediated automatically in <1 day*
* **Use proof-of-concept heat maps**:  
  Show impact of data issues on SVaR/Greeks/PnL across asset classes

**📏 2. Ways to Estimate Effort (Large, Not Plug & Play)**

**🎯 Purpose**: Reset expectations — this is not a tool deployment; it's a modeling and process shift.

**Tactics:**

* **Use a phased effort scale**:

| **Phase** | **Time Estimate** | **Output Example** |
| --- | --- | --- |
| Research & Prototyping | 2–3 months / asset | Spike/outlier detection prototype |
| Calibration & Testing | 2–4 months | Tuning thresholds by asset class |
| Prod Implementation | 3–6 months | Scheduled runs, dashboards, workflow integration |
| BAU Ownership | Ongoing | Weekly reviews, overrides, SME approvals |

* **Call out cross-team dependencies**:  
  SMEs from Credit, FO, Risk Ops, Dev/Infra, MLOps
* **Highlight infrastructure considerations**:  
  "Model works in Python locally" ≠ "runs nightly in MDSOR/RFDM"

**🔢 3. Ways to Estimate Priorities**

**🎯 Purpose**: Let them see what to focus on first.

**Tactics:**

* **Use 2x2 Priority Matrix**:

| **Impact →** | **High** | **Low** |
| --- | --- | --- |
| **Urgency ↓** | 🔴 Top Priority (e.g. SPG, Credit) | 🟡 Medium (e.g. EQ/FX with proxies) |
|  | 🟠 SLA alignment (RMBS, VaR delay) | ⚪ Defer / Monitor (exotics) |

* **Quantify pain**:
  + % of SVaR driven by poor proxy
  + **of overrides in last 30 days**
  + Time spent manually validating each day

**💰 4. Ways to Estimate If They’re Willing to Invest (ROA on the Bucks)**

**🎯 Purpose**: Position the ask as a *measurable investment*, not cost.

**Tactics:**

* **Frame return in capital/cost/risk/audit language**:
  + *“Reduce model rejections = lower capital”*
  + *“Reduce false suspect data = fewer SME hours”*
  + *“Cleaner history = shorter audit cycles”*
* **Use ROI-style narrative**:

*“For $X/month in staffing and tech, we can eliminate Y hours/week in SME work and avoid Z million in non-modellable capital.”*

* **Use case study or benchmark**:  
  *“Bank A reduced non-modellables by 30% by investing in ML-based time series validation.”*

**🧩 5. Ways to Estimate Willingness to Scale the Operating Model**

**🎯 Purpose**: Help them visualize the people/process support needed post-build.

**Tactics:**

* **Offer operating model tiers**:

| **Tier** | **Description** | **Resource Need** |
| --- | --- | --- |
| **Ad Hoc** | SME runs scripts as needed | 0.5 FTE |
| **Semi-BAU** | Weekly/monthly calibration + SME sign-off | 1 FTE (Quant or Analyst) |
| **Full BAU** | Automated scoring, dashboard, alert + override | 2–3 FTE (DQ team + Ops) |

* **Ask explicit questions**:
  + Who will own the daily calibration runs?
  + Will there be sign-off needed from Risk or FO?
  + Are you comfortable this becomes part of the DQ BAU process?
* **Add a quiz or survey to rank their operating appetite**:

*“Would you support a dedicated analyst to manage model override reviews weekly?”*

Would you like all of this presented in a **one-pager or PowerPoint slide format** for your SteerCo?

Here is a **Decision Matrix** designed to help **gauge senior management buy-in** for enhancing Data Quality (DQ) checks — especially in the context of risk models like PLA, Vasara, SPG, and Credit modeling. This matrix lays out each **decision area**, with **targeted questions** to surface business value, criticality, effort, and resource implications:

**✅ DQ Enhancement Decision Matrix – Senior Management Alignment**

| **Angle / Dimension** | **Key Questions to Ask** | **Response Choices / Impact Guidance** |
| --- | --- | --- |
| 🟩 **1. Priority** | Is this enhancement a **must-have** or just **good to have**? | • Must-have → foundational to capital, audit, regulatory• Good to have → optional, delayed ROI |
| 🟧 **2. Critical Path** | Is the effort **on the critical path** of PLA, Clean PnL, model approval, or Risk/FO alignment? | • Yes → Include in roadmap w/ firm timeline• No → Consider for backlog |
| 🟦 **3. Relevance to Strategic Initiatives** | Which effort does this directly support? | • PLA work• Vasara Clean PnL• SPG (data source shift)• Credit (time series granularity)• Shift Methodology |
| 🟨 **4. Resourcing & Hiring** | Are we willing to **hire or dedicate headcount** to: |  |
| 4.A Research ML/Advanced analytics | • By asset class? (e.g. EQ, FX, Credit, SPG?)• For all risk factors or high-impact ones? | • Hire 1-2 data scientists• Identify target asset class for PoC |
| 4.B Productionize it (build in prod) | • Build calibration engine• Schedule (daily/weekly)• Workflow & governance• Reporting | • Add Dev + Ops staff• Define calibration window (daily vs weekly)• Requires signoff flow |
| 4.C BAU Ownership | Who owns the model *in production*? Who reviews, signs off, and tunes it over time? | • Do we embed in existing BAU (e.g. DQ team)?• Or keep it ad hoc/SME-driven? |
| 🟥 **5. False Alarms / Manual Recon** | Are we willing to **invest in understanding false positives**? | • Manual recon won’t scale. Use PoC to prove ML value |
| 🟧 **6. Remediation Research** | Are we ready to research **better filling methods** (contextual interpolation, local regression, etc.) and standardize approval? | • Assign quants/SMEs to test interpolation, spike-smoothing, data isolation techniques |
| 🕒 **7. Timeline and Effort** | What is the **time required** for each phase (PoC, production, calibration, BAU readiness)? | • PoC = 2–3 months• Productionization = 3–6 months• BAU onboarding = 1–2 months |

**📌 Example PoC Suggestion**

| **Area** | **Scope** | **Resources Needed** | **Timeframe** |
| --- | --- | --- | --- |
| SPG ML PoC | Outlier detection, filling | 1 DS, 1 SME, SPG support | ~2–3 months |
| Credit ML PoC | Proxy ranking, granularity | 1 DS, 1 Credit quant, Ops feedback | ~3 months |

**📊 How to Use This Matrix**

* Walk through each row in steering/governance forums
* Align on **value vs cost**
* Use color-coded scoring (Red = No buy-in, Yellow = Conditional, Green = Clear support)
* Prioritize based on strategic alignment + resource feasibility

Would you like this turned into a **PowerPoint governance deck** or **interactive planning tracker (Excel)** format?