

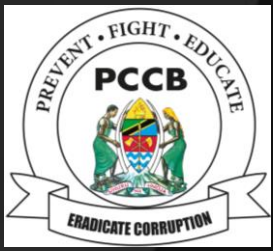
Leveraging Capabilities of AI for Transparency and Accountability in Tendering

Presenter: Joseph Gamba (Researcher)

Project Period: 29 Nov 2023 - 22 May 2025

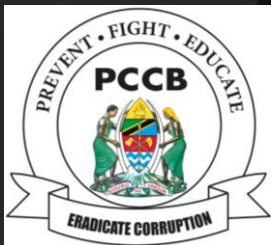
PI: Dr Michael S. Mollel (PCCB)

Co-PI: Prof Baraka Maiseli (UDSM)



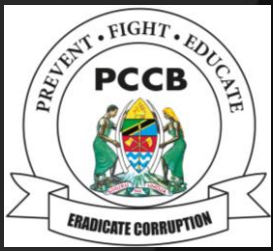
Project Timeline and Current Phase

- Phase 1 (Current): Data collection and processing (Nov 2023 - Feb 2024)
- Phase 2: Data analysis and AI model development (Mar 2024 - Aug 2024)
- Phase 3: Model testing and refinement (Sep 2024 - Dec 2024)
- Phase 4: Deployment and evaluation (Jan 2025 - May 2025)
- **Status: In Phase 1 - Data collection and processing**



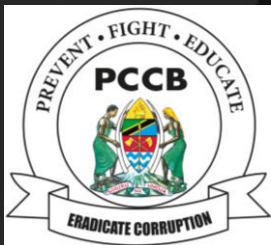
Data Collection Goals

- Initial Objective: Collect a comprehensive dataset of corruption cases related to procurement
- Adapted Objective: Collect any cases prosecuted by PCCB due to the limited availability of procurement-specific cases
- Purpose: Train and fine-tune the machine learning model to identify irregularities in tender documents



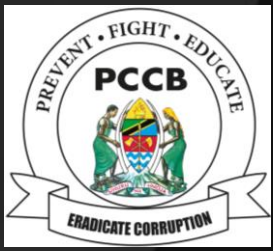
Unforeseen Challenges in Data Collection

- Primary Challenge:
 - Lack of digital data; most documents in hardcopy or handwritten format
- Impact:
 - Delayed progress in data collection
 - Increased resource requirements for digitization
 - Potential delay in subsequent project phases
- Lesson Learned:
 - Importance of digital preparedness and data management strategies in research



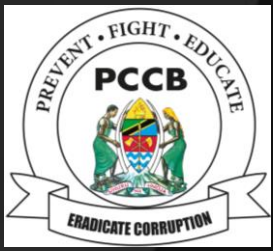
Overcoming Data Collection Hurdles

- PCCB Financial Support:
 - Engaged staff across regions for scanning and digitizing documents
 - Result: 1,400 case files collected and digitized
- Adaptive Strategy:
 - Broadened scope to include all PCCB-prosecuted cases
 - Ensures a larger dataset for more robust AI model training



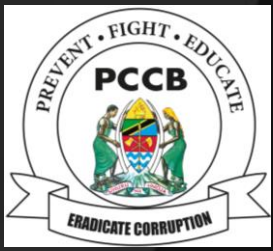
Ensuring Data Privacy and Legal Compliance

- Challenge:
 - PCCB law requires anonymization before sharing data with partners (e.g., University of Dar es Salaam)
 - Time-consuming process to convert 1,400 scanned files to typed format
- Legal Implications:
 - Strict adherence to data protection laws
 - Maintaining confidentiality of sensitive information



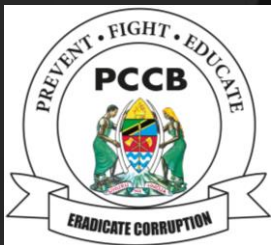
Efficient Data Processing While Ensuring Privacy

- Secretarial Support:
 - Budget allocation for 28 secretaries (1 per region)
 - Cost: 33,600,000 TZS (40,000 TZS daily rate, 30 days)
- Technological Solutions:
 - Exploring automated tools for efficient conversion
 - Ensuring tools comply with data privacy requirements
- Timeline Adjustment:
 - Reallocating timelines for subsequent activities to accommodate delays



Strategic Financial Management

- Original Plan:
 - Equipment budget (AI machine): 71,000,000 TZS
- Budget Optimization:
 - Collaboration with the University of Dodoma for machine access
 - Reallocation of 33,600,000 TZS to secretarial support
- Result:
 - Cost-effective solution without compromising project quality
 - Demonstrates adaptability and resource optimization



Operational Costs and Accountability

- Online Meetings:
 - 6 meetings, 13 participants
 - Budget: 3,700,000 TZS for internet bundles
 - Cost-saving measure: Shifted from in-person to online meetings
- Specialized Tasks:
 - Two-day intensive session for file extraction: 170,000 TZS
 - Quarterly report writing (PI and Co-PI): 2,000,000 TZS

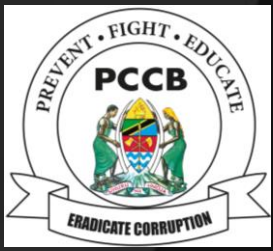
Financial Summary and Project Outlook

■ Financial Summary:

- Total Project Budget: 150,000,000 TZS
- First Quarter Disbursement: 88,678,289 TZS (59% of budget)
- First Quarter Expenditure: 9,805,000 TZS
- Cash Balance: 78,873,289 TZS

■ Next Steps:

1. Complete file conversion and anonymization (Est. completion: June 2024)
2. Proceed with data analysis and AI model development (Jun-Aug 2024)
3. Continuous budget monitoring and adaptive planning
4. Regular financial and technical reporting to COSTECH



Financial Summary and Project Outlook

- Project demonstrates fiscal responsibility, adaptability, and commitment to legal compliance
- Strategic budget reallocations ensure project continuity despite challenges
- On track for developing an AI-driven solution for transparency in tendering processes