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BSML Regional II Measuring Instrument Testing Monitoring Dashboard (Real-Time)

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Background & Project Purpose

Background

- The dashboard was developed to support data-driven monitoring of measuring instrument verification at BSML Regional II.
- It provides clear visibility into operational performance, while addressing challenges such as scattered raw data and limited monthly trend insights.

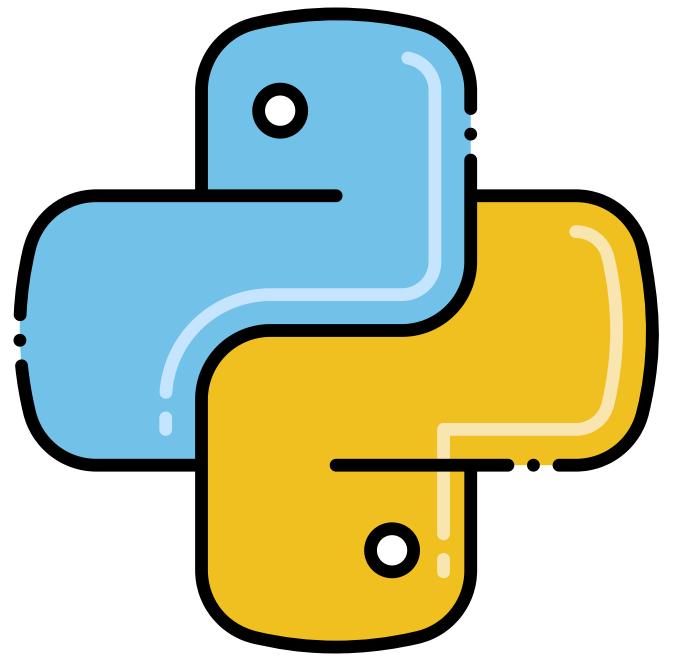
Project Purpose

- To transform unstructured operational data into clean, standardized information and present it through an analytical dashboard that improves performance tracking and decision-making.



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Tools Used



Python



SQL



Google
Sheet



Looker
Studio



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Data Sources & Processing



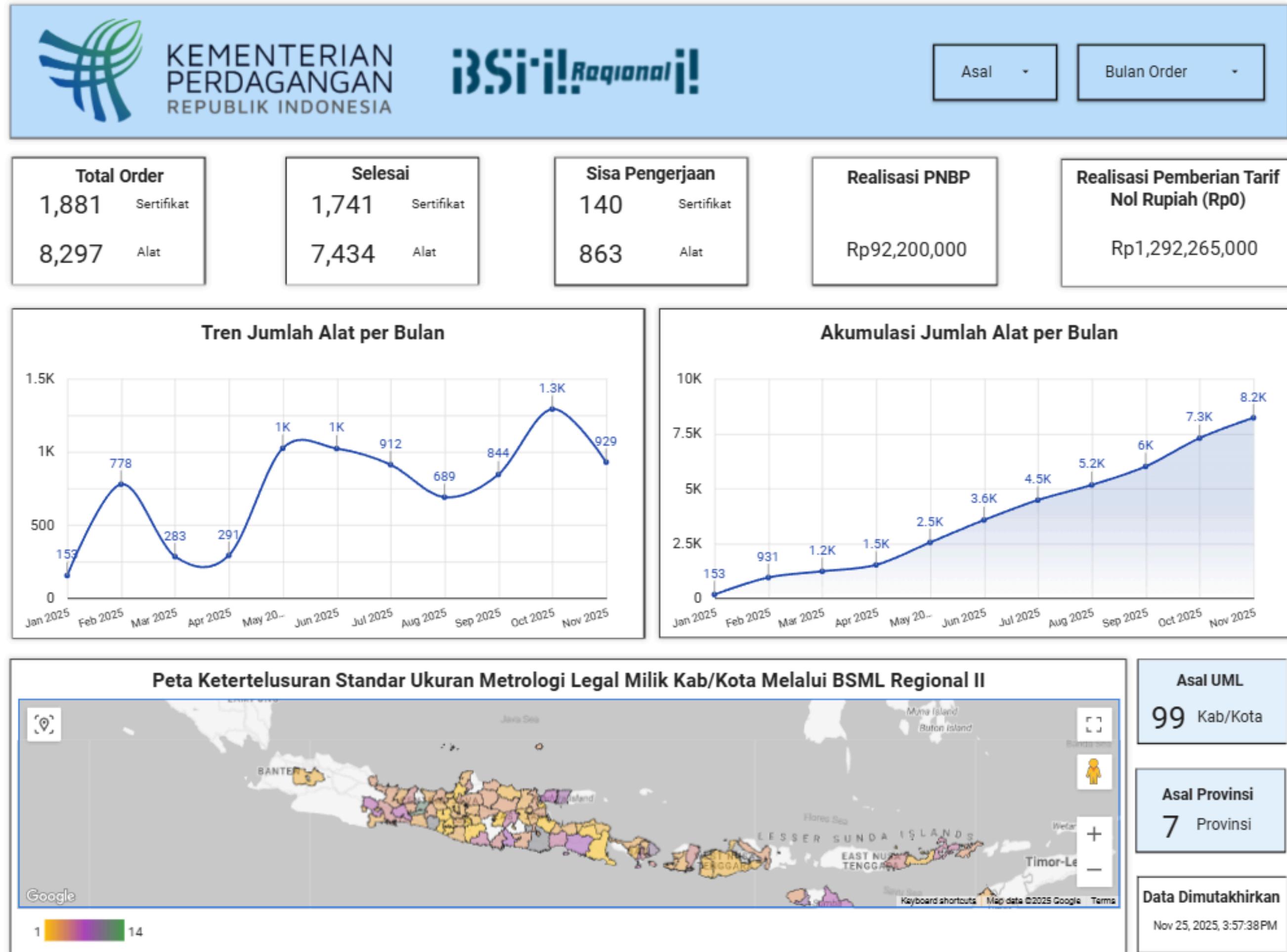
Data Sources

- Internal operational dataset containing order information, institution details, instrument specifications, verification status, and technician records.
- Includes dates, location attributes (province/region), and supporting document metadata.

Processing

- Standardized date formats, institution names, and instrument attributes.
- Cleaned missing/inconsistent values and merged multi-source data into one structured dataset.
- Prepared the final dataset for Looker Studio visualization.

Dashboard Overview





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Key Dashboard Components



- **Order & Instrument Summary:** Total orders, total instruments, and completion status.
- **Monthly Trends:** Visualization of instrument volume per month.
- **Cumulative Performance:** Year-to-date accumulation of verified instruments.
- **PNBP Overview:** Total tariff, zero-tariff counts, and financial summary.
- **Geographical Distribution:** Map showing instrument distribution across regions.
- **Filters:** Institution, province, and order month for dynamic analysis.



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Key Insights



Increasing Workload:

Instrument verification volume shows a notable upward trend over the months.

High Completion Rate:

Majority of orders have been processed and completed by technicians.

PNBP Contribution:

Financial data indicates consistent revenue from verification activities.

PNBP Contribution:

Most instruments originate from a few dominant provinces, indicating focused service areas.



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My Contributions



- **Data Preparation:** Cleaned, standardized, and consolidated multi-source operational data.
- **Data Structuring:** Organized key attributes (orders, instruments, institutions, regions, status) into an analyzable format.
- **Dashboard Development:** Designed and configured visual components, filters, and metrics in Looker Studio.
- **Analytical Interpretation:** Generated insights to support performance monitoring and data-driven decisions.



Conclusion

- The **dashboard** provides clear, structured, and actionable insights for monitoring measuring instrument verification.
- Data is now more accessible, standardized, and ready to **support operational decision-making**.
- Visualization helps BSML track performance, financials, and regional distribution effectively.

Thank You