troubleshooting.md 2025-01-15

# Troubleshooting

### Common Issues

# 1. Data Not Updating

- Check Google Sheets sharing permissions
- Verify data format consistency
- Review refresh settings

#### 2. Metric Calculation Errors

- Confirm formula syntax
- Check for null values
- Verify data types

#### 3. Visualization Problems

- o Clear dashboard cache
- Reset time range
- Check metric mappings

# Performance Optimization

## 1. Sheet Optimization

- Limit to essential columns
- Use appropriate data types
- Remove empty rows/columns

#### 2. Dashboard Performance

- o Limit widgets per dashboard
- Use efficient date ranges
- Cache frequently used metrics

# **Best Practices**

# 1. Data Management

- Regular data backups
- Consistent naming conventions
- Documentation of formulas

#### 2. Dashboard Organization

- Logical metric grouping
- Clear widget labels
- Consistent color scheme

#### 3. Maintenance

troubleshooting.md 2025-01-15

- Weekly data audits
- Monthly permission reviews
- Quarterly cleanup of unused metrics