

Pacific Maximo User Group



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- **What is BART?**
- **Importance of Compliance**
- **Challenges in Compliance**
- **Mobile Technology: A Solution**
- **Benefits (so far)**
- **Key Takeaways**



Time Permitting

- **eKanBan – shopfloor resupply**

Bay Area Rapid Transit Facts

- 1972, Monday 11 Sept
- San Francisco Bay Area
- Heavy Rail Metro Transit
- 150 Miles of Track (Thirds)
- 450,000 Daily Riders
- 635,463 Asset records
- 63,225 Material Items
- PM's 117,004
- Job Plans 9,865
- User ID 3,283 (154 Security Groups)



1. Safety:

- **Passenger Safety:** Compliance ensures passenger safety through adherence to regulations designed to protect the public.
- **Employee Safety:** Employees are safeguarded from occupational hazards.
- **Vehicle Safety:** Vehicles are maintained and operated following stringent safety standards.



2. Legal Obligations:

- **Avoid Legal Consequences:** Non-compliance may result in fines, penalties, or even cessation of operations.
- **Lawsuit Prevention:** Adherence to regulations minimizes the risk of legal action from passengers or employees.

3. Financial Health:

- **Funding Eligibility:** Many transit agencies rely on federal or state funding, which often requires compliance with specific regulations.
- **Avoidance of Fines:** Non-compliance can lead to significant financial penalties.

- **Public Trust and Reputation**
- **Accessibility**
- **Environmental Responsibility**
- **Quality Service**
- **Data Protection**
- **Infrastructure Maintenance & Investment**



Conclusion:

For transit agencies, compliance is not just about adhering to laws and regulations; it is fundamentally tied to their ability to offer safe, reliable, and efficient service to the public while maintaining trust and financial health. Non-compliance can lead to a cascade of negative consequences, including legal ramifications, financial loss, and damage to reputation. Hence, compliance is a non-negotiable imperative for the successful operation of transit agencies.

How Expensive are your Mistakes?



Hard Dollars?

Litigation Costs?

Loss of Funding?

Time?

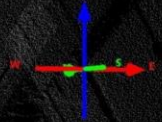
Do Overs?



Low risk solution sets versus
a design that checks all the boxes on an RFP?
Are they really selling Services?

Focus Drill

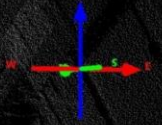
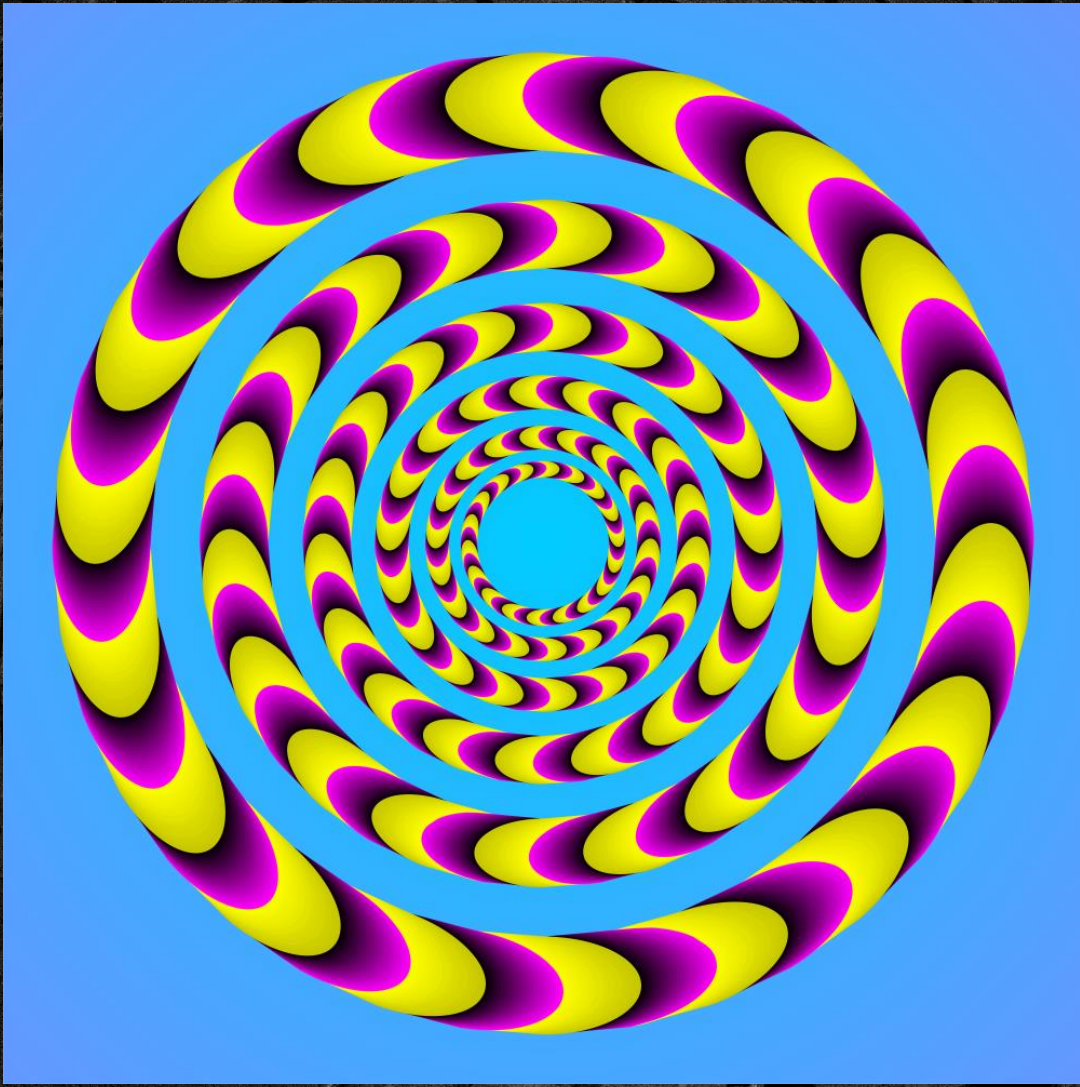
Ready?



- 1) Optimist: See the light at the end of the tunnel and find hope.
- 2) Pessimist: See the darkness in the tunnel sensing danger.
- 3) Realist: See the on coming train.
- 4) The Train Driver: See three idiots on the track!

Focal Point of View

Which lens do you most often see through?



- **Our Challenges?**

- **1. Inadequate Documentation:**

- **Challenge:** Lack of proper documentation or incomplete records during inspections.
- **Risk:** May result in non-compliance due to the inability to provide necessary evidence of compliance during audits.

- **2. Human Errors:**

- **Challenge:** Mistakes made by inspectors due to fatigue, misunderstanding, or oversight.
- **Risk:** These errors can lead to inaccurate assessment and reporting, which could result in non-compliance.

- **3. Lack of Standardization:**

- **Challenge:** Absence of standardized inspection procedures and checklists across different departments or units.
- **Risk:** This inconsistency may lead to gaps in inspections and non-uniform compliance levels.

- **4. Insufficient Training:**

- **Challenge:** Inspectors might not be adequately trained or familiar with the latest compliance requirements and inspection protocols.
- **Risk:** Untrained staff may overlook critical compliance elements during inspections, leading to non-compliance.

- **5. Outdated Technology and Tools:**

- **Challenge:** Usage of outdated or inappropriate technology/tools for conducting and recording inspections.
- **Risk:** Inefficient tools may not capture all necessary data or may fail to identify non-compliance issues accurately.

- **6. Time Constraints:**

- **Challenge:** Limited time for conducting thorough inspections due to operational pressures and schedules.
- **Risk:** Rushed inspections might miss crucial non-compliance signs, leading to overlooked violations.



• Challenges?



• 7. Inadequate Follow-Up Mechanisms:

- **Challenge:** Lack of systematic follow-up procedures to ensure that identified issues during inspections are addressed promptly.
- **Risk:** Without proper follow-ups, non-compliance issues might remain uncorrected, leading to persistent violations.

• 8. Communication Breakdown:

- **Challenge:** Poor communication between inspectors, compliance officers, and operational staff.
- **Risk:** Critical information regarding compliance might not be effectively communicated, resulting in unaddressed compliance gaps.

• 9. Complex Regulatory Landscape:

- **Challenge:** Navigating through complex and ever-changing regulatory requirements can be daunting for inspectors.
- **Risk:** Misinterpretation or unawareness of new regulations can lead to non-compliant inspection practices.

• 10. Inadequate Resources:

- **Challenge:** Lack of sufficient resources, including staff and funding, to conduct thorough and regular inspections.
- **Risk:** Resource constraints can lead to infrequent or superficial inspections, missing potential areas of non-compliance.



- **1. Inadequate Documentation:**
 - Mobile Solution: Instant data entry and documentation using mobile devices, with cloud storage allowing for immediate and secure record-keeping.
- **2. Human Errors:**
 - Mobile Solution: Automated data collection and validation features reduce manual entry errors. Features like auto-fill and drop-down menus can minimize mistakes.
- **3. Lack of Standardization:**
 - Mobile Solution: Uniform mobile applications can be deployed across different units, ensuring standardized procedures and checklists are used agency-wide.
- **4. Insufficient Training:**
 - Mobile Solution: Mobile devices can provide access to real-time training modules and reference materials, helping inspectors stay informed and trained on-site.
- **5. Outdated Technology and Tools:**
 - Mobile Solution: Modern mobile devices equipped with the latest apps and features facilitate efficient and accurate inspections.
- **6. Time Constraints:**
 - Mobile Solution: Efficient data entry and access to information speed up the inspection process. Mobile apps can also prioritize tasks, helping inspectors manage their time better.
- **7. Inadequate Follow-Up Mechanisms:**
 - Mobile Solution: Automated alerts and notifications for follow-ups can be set, ensuring timely resolution of identified issues.
- **8. Communication Breakdown:**
 - Mobile Solution: In-app messaging, emails, and other communication tools facilitate real-time communication between all stakeholders.

- **9. Complex Regulatory Landscape:**

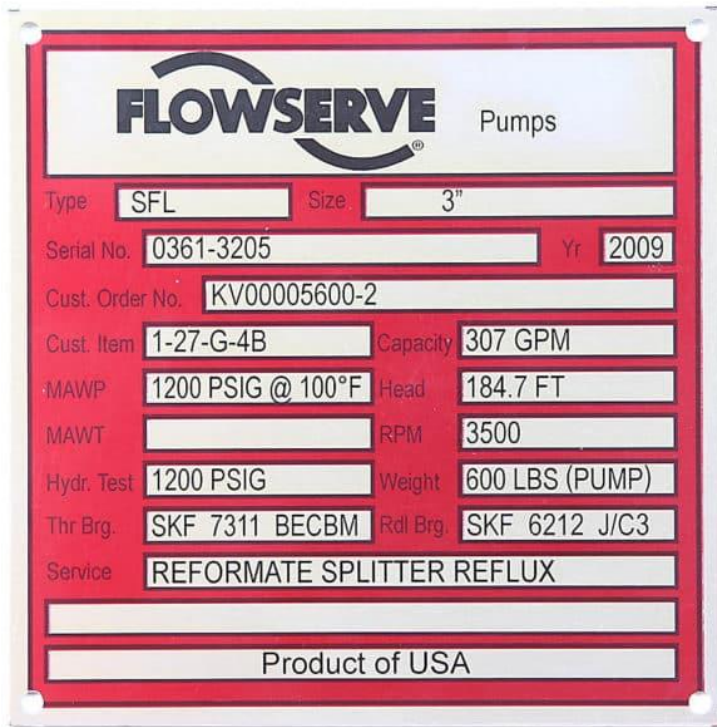
- **Mobile Solution:** Mobile devices can instantly update inspectors on regulatory changes, providing real-time access to compliance databases and regulatory news feeds.

- **10. Inadequate Resources:**

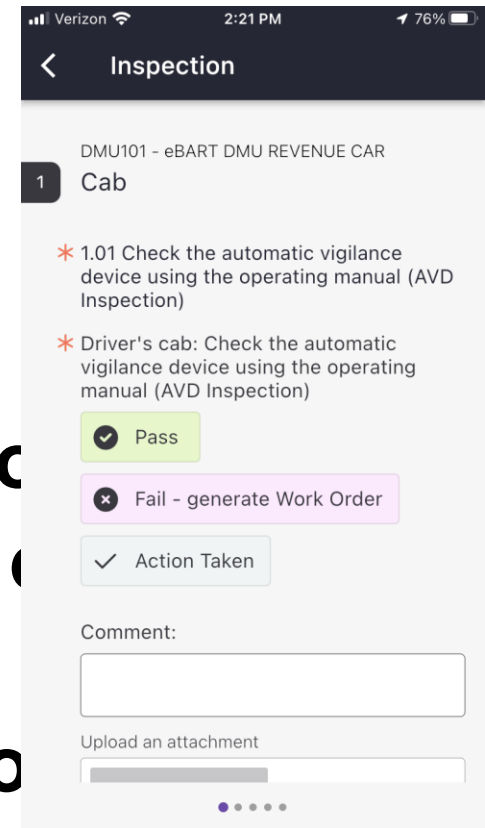
- **Mobile Solution:** Mobile technology maximizes efficiency, allowing inspectors to do more with less. GPS, camera, and other integrated tools aid in the inspection process without needing multiple devices.



- Speed –



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s all online*



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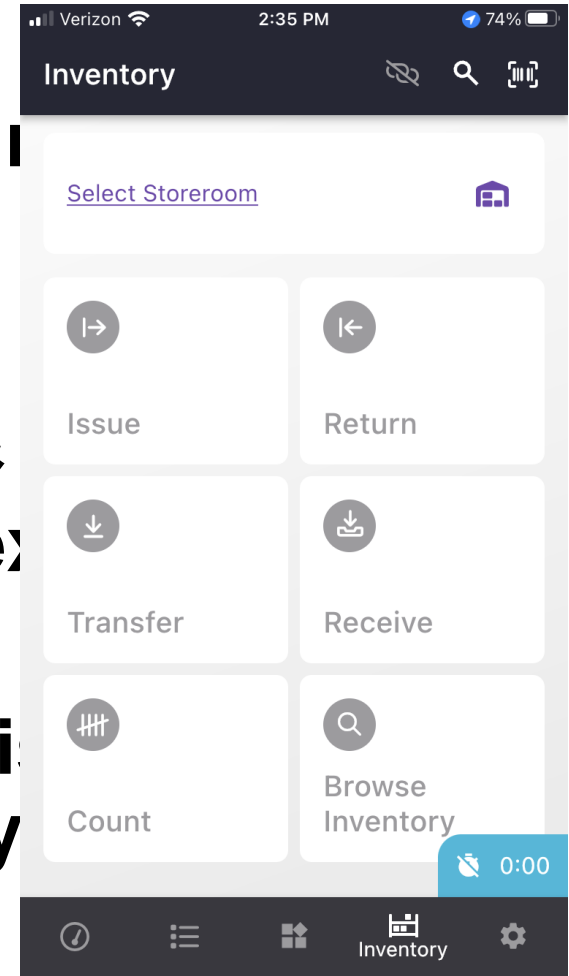
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- Name Plate scanning

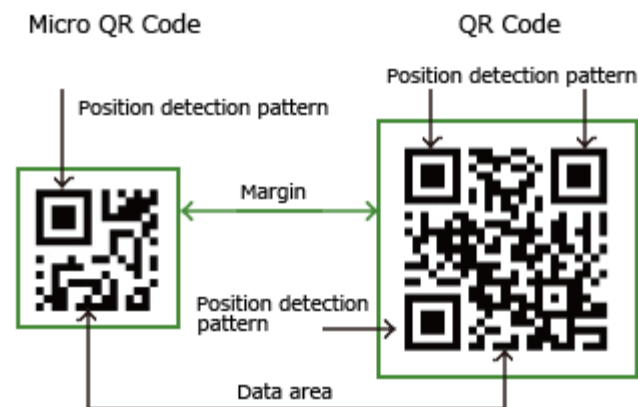
- “Opqo” Mobile – M&E, RSS, Transportation, Logistics
- Inspection Forms – so we are in
- Tied to “Active G” map engine

- Tied to Maximo Work Orders &
- Maximo Analytics – all of our ex

“A good deal with a bad partner is a bad deal with a good partner ... you get out.” (My Grandfather)



- Success – “Go at it to learn something NOT prove something”
- Get intimate (with QR codes)



- **Questions?**



Kanban Material Request



Rev: Trans-A

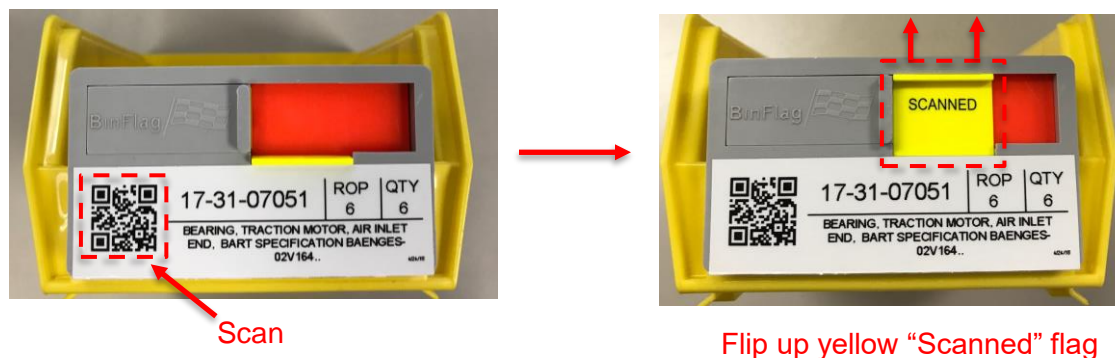
Charlie Lamb

- **Both Word and Excel have “Add-ins for generating QR Codes**
- A “quick response” code (QR) is basically a barcode on steroids. While the barcode holds information horizontally, the QR code does so both horizontally and vertically. This enables the QR code to hold over a hundred times more information.



- eKanBan resupply method and tools
- 5 yrs at BART RSS, ERSS

Sample of Kanban Bin



Single scan generates an order to central stores with a predefined amount and where to deliver the items.