Innovation Theater Encore

November 28
10:00-11:00 am

CALIFORNIA TRANSIT ASSOCIATION'S INNOVATION THEATER

SPONSORED BY TRIPSHOT

Presentations

- ***Bus Stop Signage Providing Real-Time Information*** – presented by Connexionz Smart Transit Solutions and the City of Pasadena
- ***Pedestrian Awareness Display by Lucerix*** – presented by Lucerix International Corporation and Monterey-Salinas Transit
- ***Automated Maintenance, Inspection, and Workshop Processes Through a Mobile App*** – presented by Connixt, Inc. and L.A. Metro
- ***Artificial Intelligence-Based Search of Maintenance Information*** – presented by LexX Technologies and Montebello Bus Lines

SPONSORED BY TRIPSHOT

Connexionz Smart Transit Solutions and City of Pasadena – Bus Sign

- Brian Garrett, *US Sales Director, Connexionz Smart Transit Solutions*
- Sebastian Hernandez, *Senior Planner, City of Pasadena*

CONNEXIONZ
Smart Transit Solutions

Engineers and employees who have worked on some of the world's largest ITS projects.

- Established in 1994, Connexionz has been delivering custom ITS solutions for more than two decades in Europe, Asia, Australasia, South America and North America
- Built longstanding, consultative relationships with some of the top technology and vehicle suppliers
- Developed a complete portfolio of CAD/AVL and fleet management and reporting services in early 2000.
- Supplying innovative, end-to-end ITS solutions (CAD/AVL, RTPI, APC, CCTV, signage, ASA) for our clients around the globe
- Winners of several international awards, including the prestigious Deloitte Fast 500 technology award.

EXPERTISE

Our expansive knowledge and experience with world class real time passenger information solutions provides our customers with peace of mind.

PASADENA
PASADENA TRANSIT

City of Pasadena Transit

FULL PROJECT SCOPE

30 Fixed route buses – Over $1 million

Automated Voice Annunciator System (audio visual), fleet management, Real Time Passenger Information, smartphone applications, website, on vehicle video surveillance, Mobile Data Terminals, Automatic Passenger Counters, 80 x Bus finder Displays, yard WiFi.

Pasadena had very little accurate information available to make decisions. Further, their onboard systems were separate entities that required a lot of attention from the operator. Connexionz systems succeeded in seamless onboard integration while promoting some schedule and service changes which ***influenced over 10% improvement in on-time performance.***

SPONSORED BY TRIPSHOT

Innovation

Solar Technologies and Open Standards

Evolving our battery based Busfinder to support solar, outside integrations, and open real-time standards!

Leveraging Open Standards – GTFS-RT Integration as well as power from the sun!

$

Google REAL TIME

CALIFORNIA TRANSIT ASSOCIATION'S INNOVATION THEATER

SPONSORED BY TRIPSHOT

BUSFINDER™

Build confidence and security with real time information powered by the sun.

Delivering Accurate Data

Give your passengers control at bus stops, decreasing their anxiety as they wait for the bus.

Cost Efficiency

Address the issues of installing signs at rural and residential stops, we are able to meet a price point that allows mass deployment.

Interface with Existing Data

Provide real time information at bus stops complimenting existing variable message signs (VMS) at less frequented locations.

RUGGED AND STURDY!

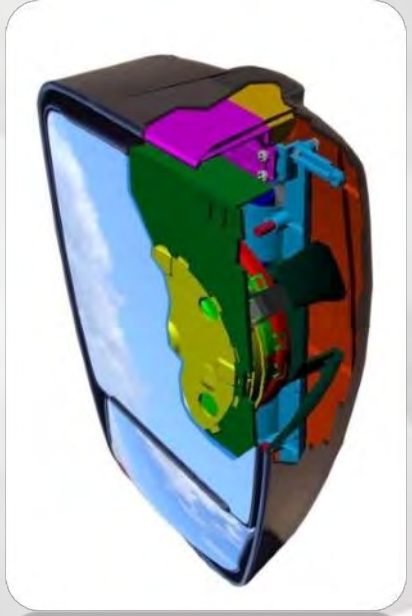
Lucerix and Monterey-Salinas Transit Pedestrian Awareness Display

- James Anderson, *Sales Representative, Lucerix*
- Norman K. Tuitavuki, *Deputy Chief Operating Officer, Monterey-Salinas Transit*

LUCERIX
International Corporation

Lucerix International Corp.

Mirrors On The Move !



Lucerix International Corporation is absolutely committed to meet and exceed the quality expectations of our customers for all products and services that we provide.

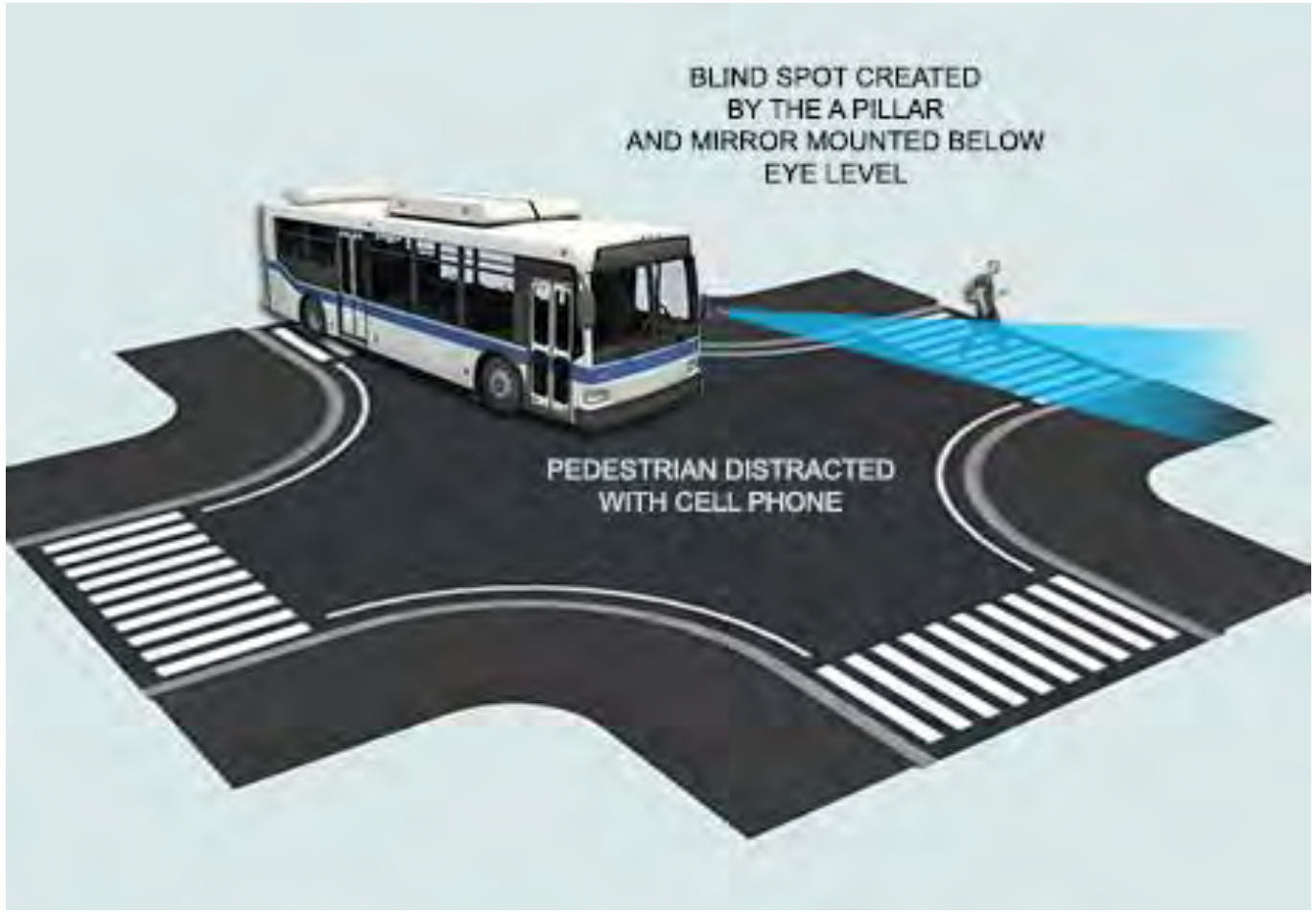
Automotive Mirror & Vision Systems.

PAD BY LUCERIX

PEDESTRIAN AWARENESS DISPLAY

The Problem:

- Blind Zone
- Drivers Sight Line
- Road Side A Pillar
- Road Side Mirror Location
- Distracted Pedestrians



PAD BY LUCERIX
PEDESTRIAN AWARENESS DISPLAY

What are your options?

Radar Technology

Warning Lights

Audible Tones

External Speakers with Voice Command

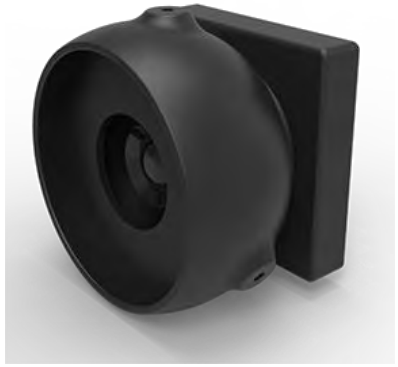
SPONSORED BY TRIPSHOT

PAD BY LUCERIX

PEDESTRIAN AWARENESS DISPLAY

Image taken from Pilot-
King County Transit.
Seattle WA.

How does PAD BY LUCERIX PEDESTRIAN AWARENESS DISPLAY work?

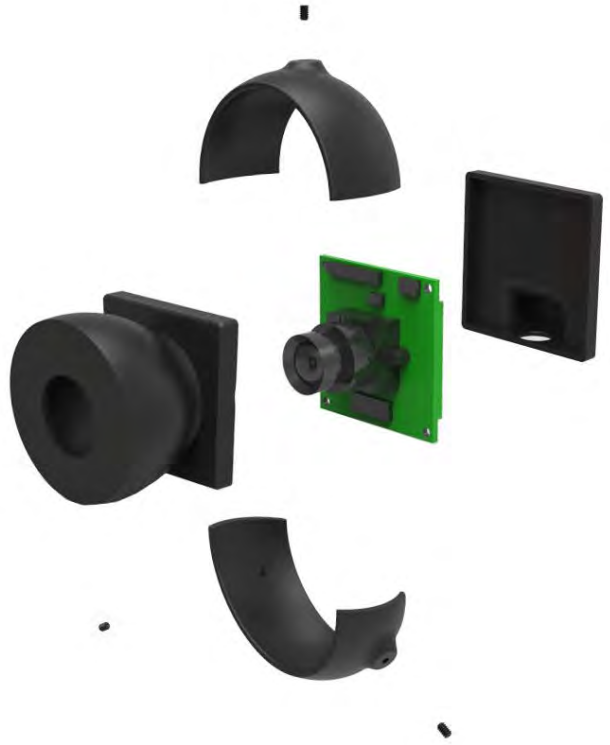


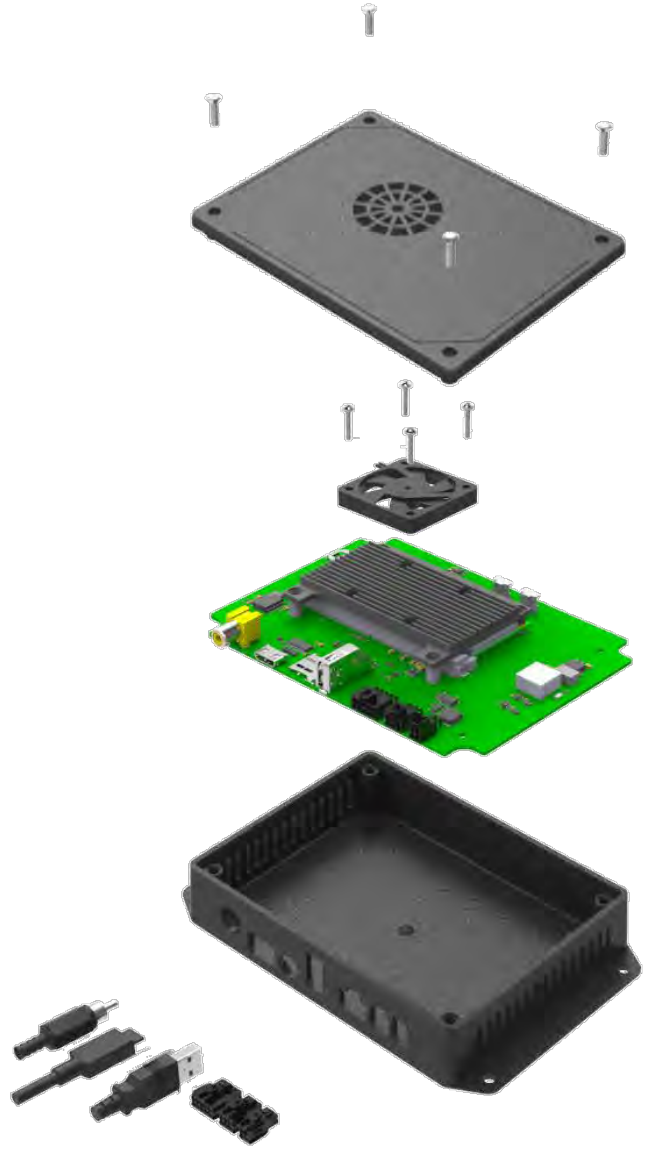
Forward Facing HD Camera
A-Pillar HD Monitor
Processor Unit

PAD BY LUCERIX
PEDESTRIAN AWARENESS DISPLAY

Features

- Built in Memory and recorder.
- Monitor Sleep Mode
- Automatic Left Turn Activation
- Brightness Control
- 9V – 33 V (built in breaker)
- External Video Output (Analog / Digital)
- 15” x 4” Low Profile HD Monitor
- HD Camera





Internal Recorder

"Black Box"

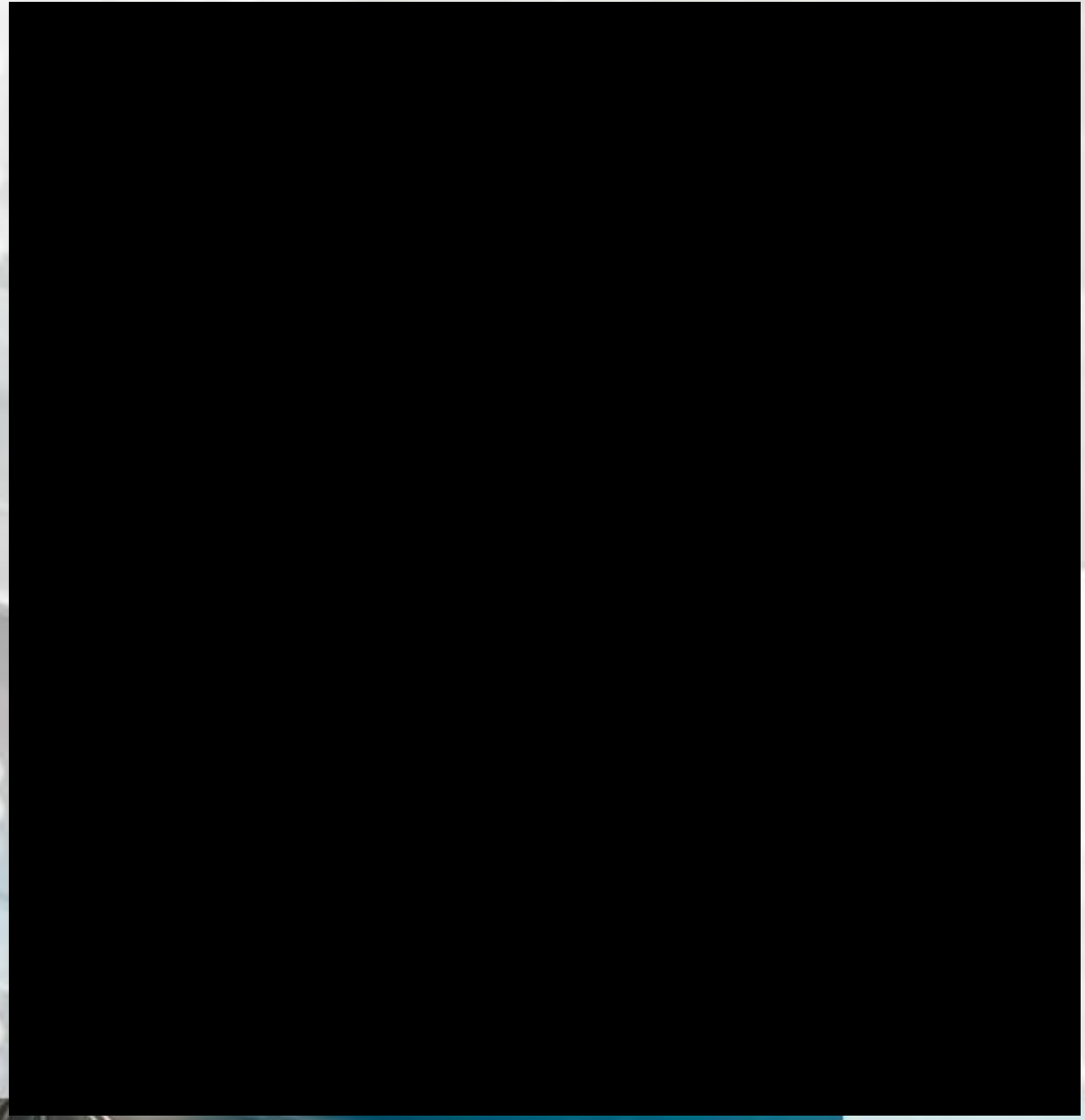
- 9 Hour loop (256 GB Mini SD)
- Circular buffer with 1 minute files, Seamless
- HD. 264 format 1
- 1280P x 720P
- Full Screen Record with Display Overlay
- Slider Playback Control
- Pop up menu (Dashboard)

a. Turn Signal Status (on/off)
b. LPAD Display Status
c. LPAD Back Light Intensity Status
d. Date / Time
e. Vehicle Speed
f. GPS Location Information

PAD BY LUCERIX

PEDESTRIAN AWARENESS DISPLAY

Demo Footage, MST CA, King County, WA.



SPONSORED BY TRIPSHOT

Lucerix International Corp.

Mirrors On The Move !

PAD BY LUCERIX

PEDESTRIAN AWARENESS DISPLAY

Thank You.

Contact: James Anderson, janderson@lucerix.com

Connixt, Inc. and Los Angeles Metro

- Prabu Ekambaram, *Co-founder & Chief Technology Officer, Connixt, Inc.*
- Al Martinez, *Senior Director Transit Applications, Los Angeles Metro*

Mobile apps for Inspection, Maintenance & SGR

LA Metro's use of Connixt cloud-mobile app suite

for Rail, Bus, Wayside, Signals, Facilities & SGR

Metro

CONNIXT

Presented by: Los Angeles Metro and Connixt, Inc.

This is iMarq™

Smarter Simpler Faster

iMarq - mobile app suite for the transit industry from Connixt

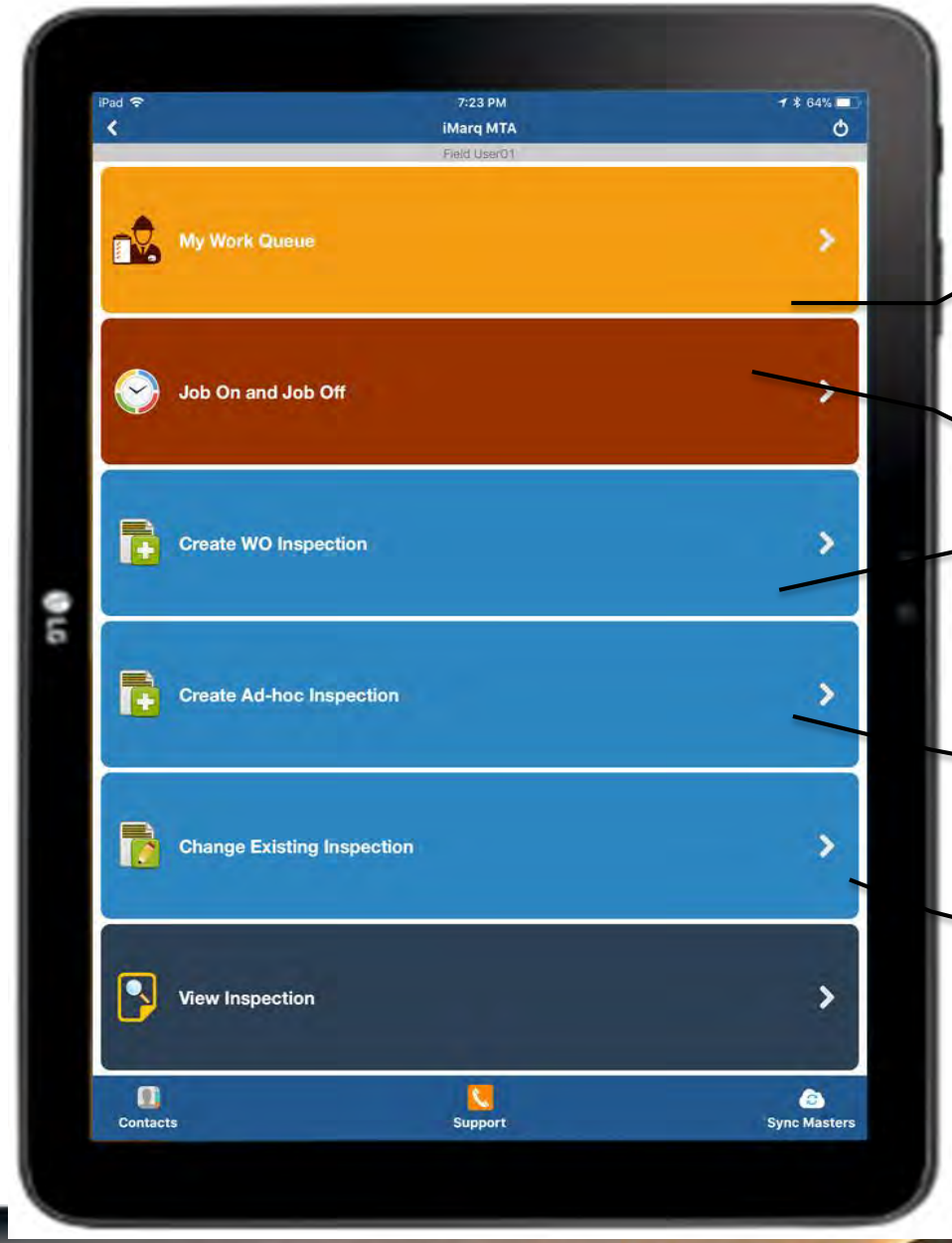
Digitize inspections, maintenance and SGR processes for workshop, field and facilities

- Pre-built
- Workflows
- Configurable
- Reporting

Cloud-based – No additional hardware or software

CONNIXT

iMarq™ - Mobile App



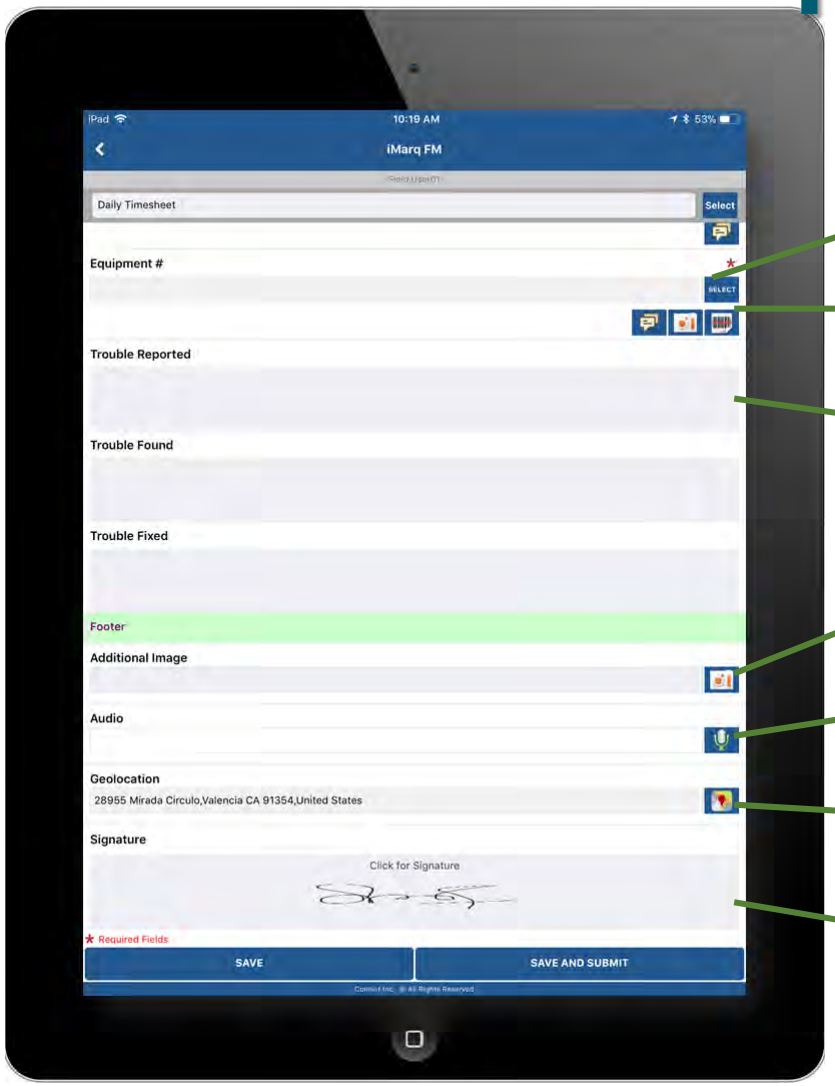
- **Any device, anywhere**
  - Android/iOS; Tablets & Smartphones
  - WiFi/LTE/Offline

- **Configurable**
  - Inspections, forms, checklists, Work Orders, Incident Reports
  - Job-on/job-off
  - SGR, inventory, condition assessment

- **User-friendly, low training**

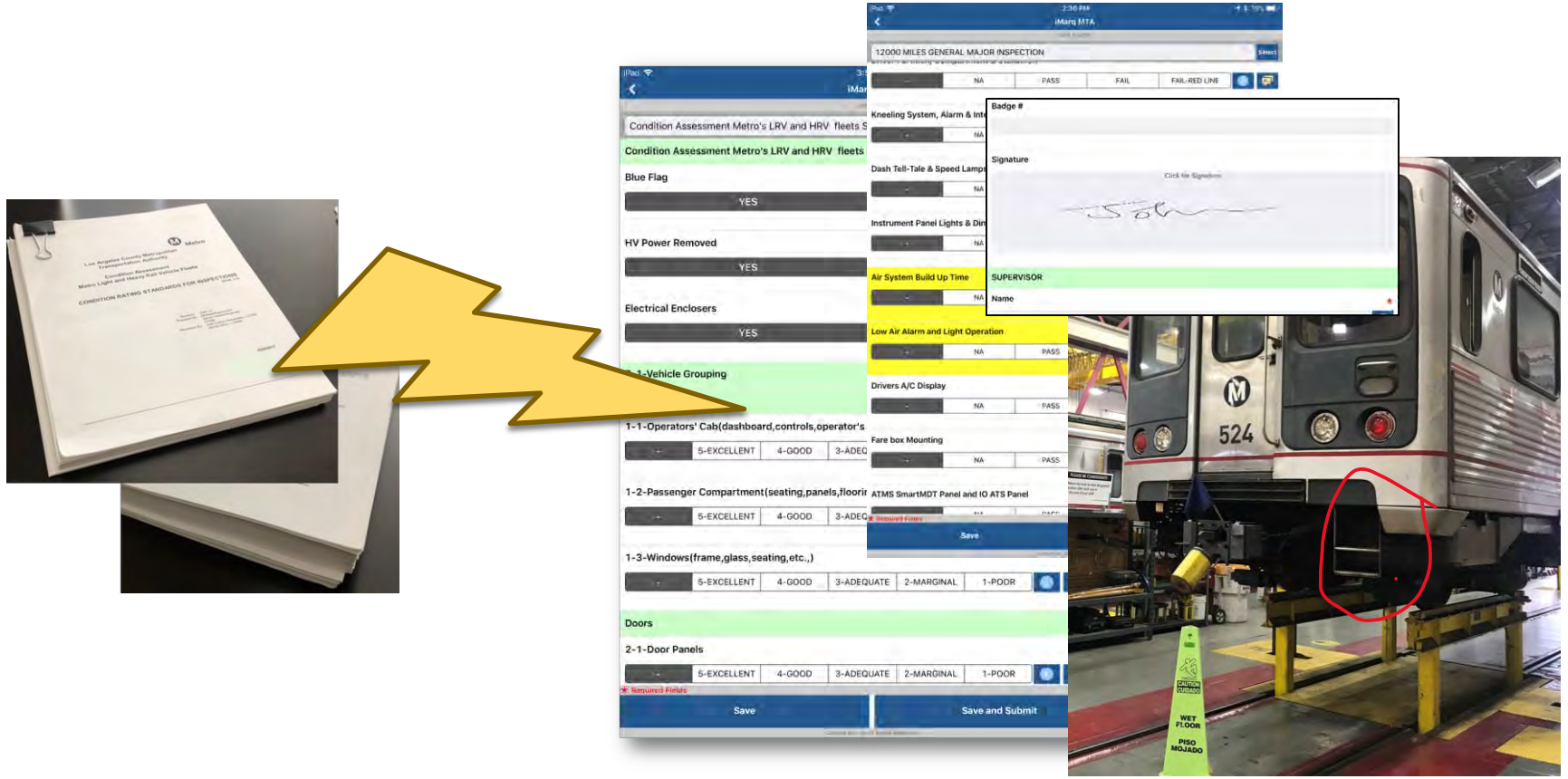
- **Back-end integration**
- **No additional infrastructure**

Empowering the User



- Selectable from Master
- Barcode Scanning
- Speech to text
- Image Upload and Annotation
- Audio Upload
- Geotag
- Signature

Demo: SGR @ Metro with Connixt iMarq



Download on the App Store

GET IT ON Google Play

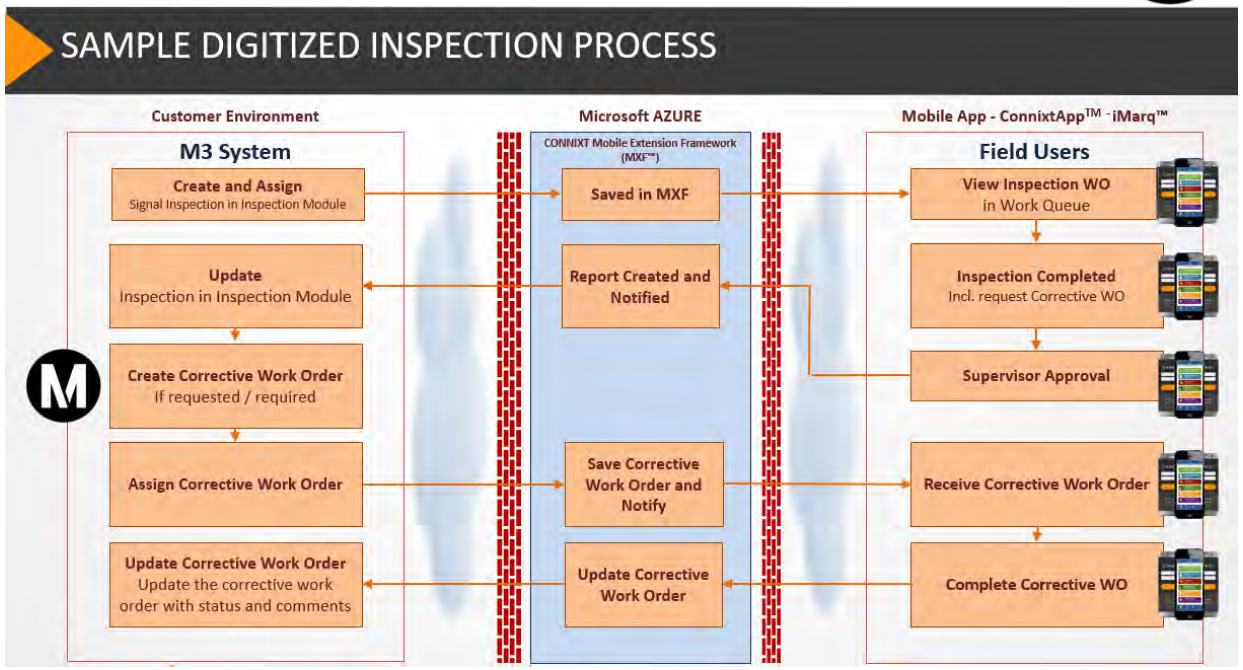
Mobile @ Metro today

In Production

- Bus Inspection
- Track Inspection
- Rail Car Daily Inspection
- SGR
- Bus QA
- Rail QA (Rail and Station)

Deployment

- Rail Car PM Inspections
- Rail Wayside Signal (Grade and Main)
- Rail Wayside Switch and Frog
- Incident Reporting
- ECR
- Bus Equipment (ATMS and UFS)



- 20% Labor hour savings
- Inspections saved as PDF with photographs & signature in back-end system
- Next phase – extend apps to
  - Facilities Management/General Services
  - Rail/Bus PM
- FRA certification

CONNIXT
Smarter Simpler Faster

Why this technology makes sense

- Metro is setting the standard for areas like SGR
  - Translate thousands of pages of goals, procedures and exceptions into actions and tasks for field / workshop crew
  - Flexibility to change quickly as standards evolve

- Make the technology easy to adopt, deploy and scale
  - Intuitive for the end user
  - Integrates with any back-end system(s)
  - Provide documentation/drawings help within app
  - Expand to other areas
  - Easy to deploy and manage

- **Digitize processes & data collection → actionable intelligence**

Mobile apps for Inspection, Maintenance & SGR

LA Metro's use of Connixt cloud-mobile app suite

for Rail, Bus, Wayside, Signals, Facilities & SGR

Metro

CONNIXT

Presented by: Los Angeles Metro and Connixt, Inc. www.connixt.com/transit info at Connixt dot com

LexX Technologies and Montebello Bus Lines – Artificial Intelligence

- Nishant Sahai, *COO, LexX Technologies*
- Tom Barrio, *CEO/General Manager, Montebello Bus Lines*

CALIFORNIA TRANSIT ASSOCIATION'S INNOVATION THEATER
SPONSORED BY
TRIPSHOT

LexX Technologies and Montebello Bus Lines – Artificial Intelligence

- Nishant Sahai, *COO, LexX Technologies*
- Tom Barrio, *CEO/General Manager, Montebello Bus Lines*

Thank You Presenters

Brian Garrett - Brian.Garrett@connexionz.us
Sebastian Hernandez - SHernandez@cityofpasadena.net

James Anderson - janderson@lucerix.com
Norman K. Tuitavuki - ntuitavuki@mst.org

Prabu Ekambaram - pe@connixt.com
Al Martinez - MartinezAl@metro.net

Nishant Sahai - nishant.sahai@lexxtechnologies.com
Tom Barrio - tbarrio@cityofmontebello.com