We solve congestion and delayed emergency response at rail crossings!

Who we are: LinqThingz is a Predictive Mobility company. We sell an immediately available product/service that can be installed within two hours. Our system solves the problem of traffic highway congestion and blocked emergency vehicles at grade level rail crossings by providing advanced warning and ability to avoid blocked crossings all together. In addition, LinqThingz measures presence of vehicles stalled on the crossings enabling rail traffic and public safety to address blockages of rail with enough advanced warning to avoid collisions. LinqThingz predictive mobility offers an inexpensive, easy to implement alternative.

How it works: LinqThingz solution places patent-pending trainable sensors on municipal property outside of railroad right of way. Our trainable sensor modules combine multiple sensor data with artificial intelligence to provide the most accurate measure of rail traffic. Our trainable sensors also sense highway traffic at the crossing and identify stalled vehicles, warning system circumvents and rail property trespassing. The train parameters are collected from a network of trainable sensors and combined in the LinqThingz cloud-based artificial intelligence platform to generate a real-time predictive model of rail and highway traffic along with crossing open/block times. We provide information to web/mobile applications for individual users, cloud API for Computer Aided Dispatch and Transportation Management Software, or direct integration into traffic hardware.

Community Benefits

- Reduced community frustration and improved safety
- Citizen fuel cost reduction: $120,000/yr/crossing
- Carbon reduction: 350,000,000g/yr/crossing
- Commute time reduction: 60 hr/yr/crossing
- Fire operations reduction: $30,000/yr/crossing
- Response time reduction: 3 minutes/call/crossing

Railroad Benefit

- Reduced community frustration and improved safety
- Reduced risk of collision with stalled vehicles
- Improved identification of rail trespassing
- Faster to implement and less costly alternative to bridges and tunnels

LinqThingz
Predictive Mobility

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A lot has changed in a century

...time to catch up!

Updating the 100-year-old-solution: Cross bucks patented in 1867 and Red Signal Lights first implemented in 1926 still act as the current standard in identifying rail right-of-way. Fixed yellow signs placed before the crossing are considered “early warning”. These signs provide ZERO information about current crossing status that could avert congestion and blocked emergency crews or obstructions for oncoming locomotives. LinqThingz Predictive Mobility application provides either MUTCD-compliant Variable Message Signage, Integration to Transportation management systems and/or web/mobile/API applications directly to user or vehicle. Our *Future As A Service* offering gives future open/close times and suggests alternate routes and helps to identify stalled vehicles on the rail road right of way.

Improving safety by changing behavior: There are 129,000 public at-grade crossings in the US. More than 50% have automatic warning systems while 34.7% have flashing lights and gates. More than 60% of collisions occur at crossings with automatic warning systems. 94% of train-vehicle collisions can be attributed to driver behavior or poor judgment. Systems are needed that better engage users, measure behavior and have the dynamic communication to modify behavior. LinqThingz predictive mobility system, with its Machine Learning sensors, gives more timely and relevant information about crossing status. LinqThingz predictive mobility can monitor driver behavior and may be used to engage and modify future behavior through Variable Message Signage and direct messaging to connecting drivers and vehicles.

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