

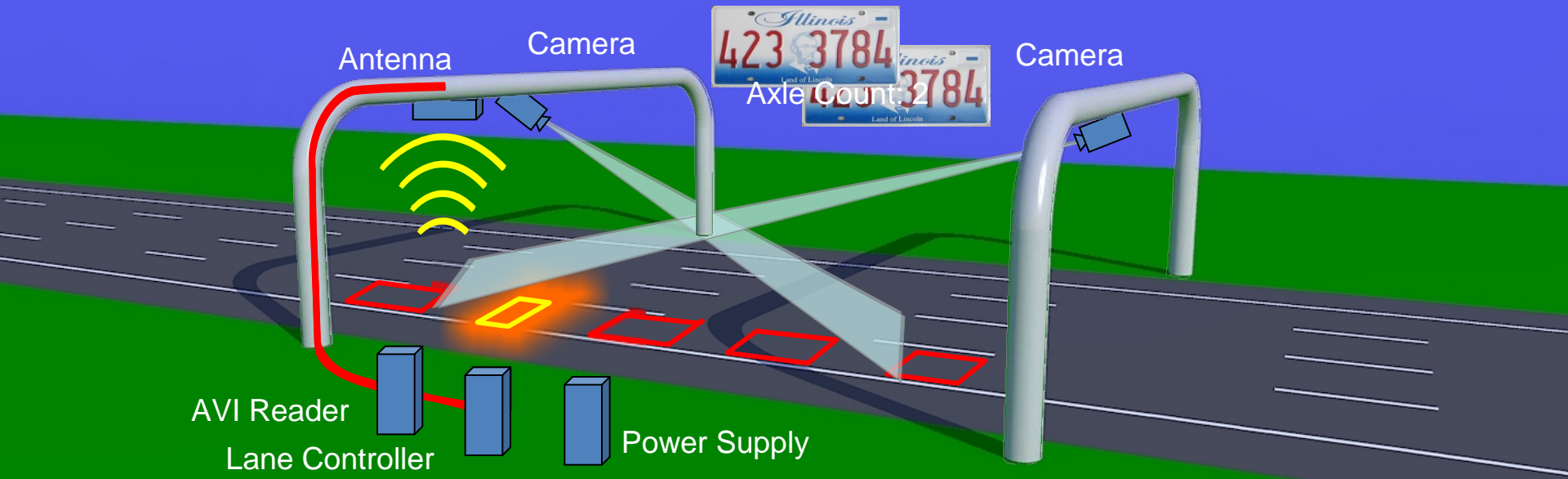


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**Toll Revenue Management and  
Maintenance Program (TRMMP)**

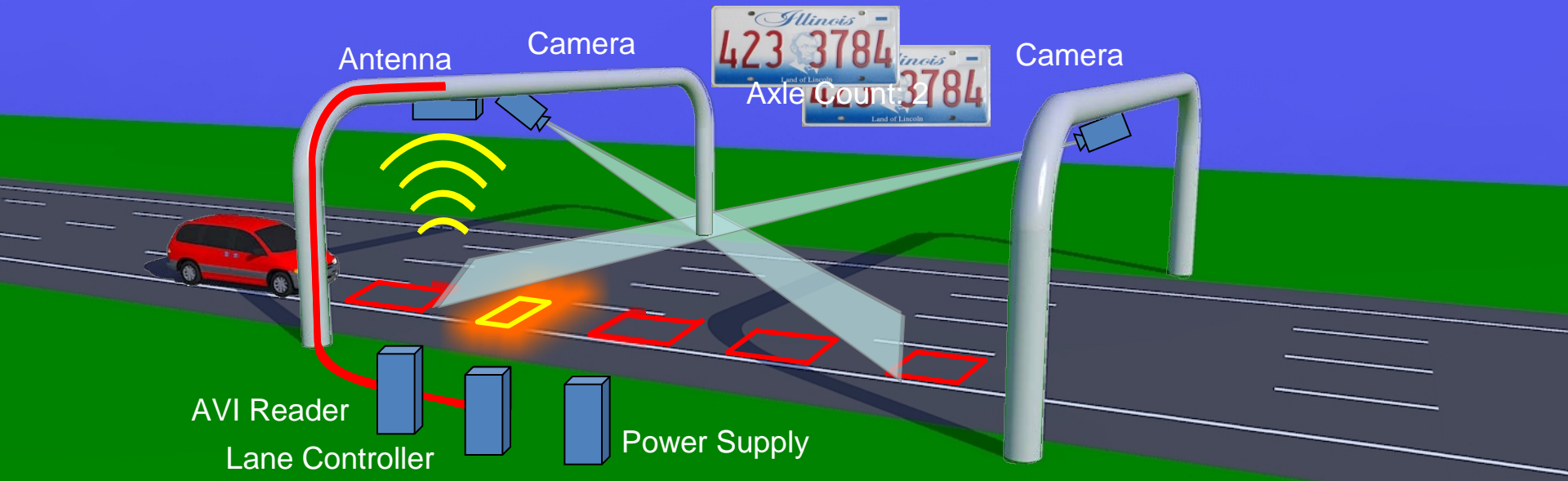
October 15, 2015

# I-PASS Lane Technology In Action



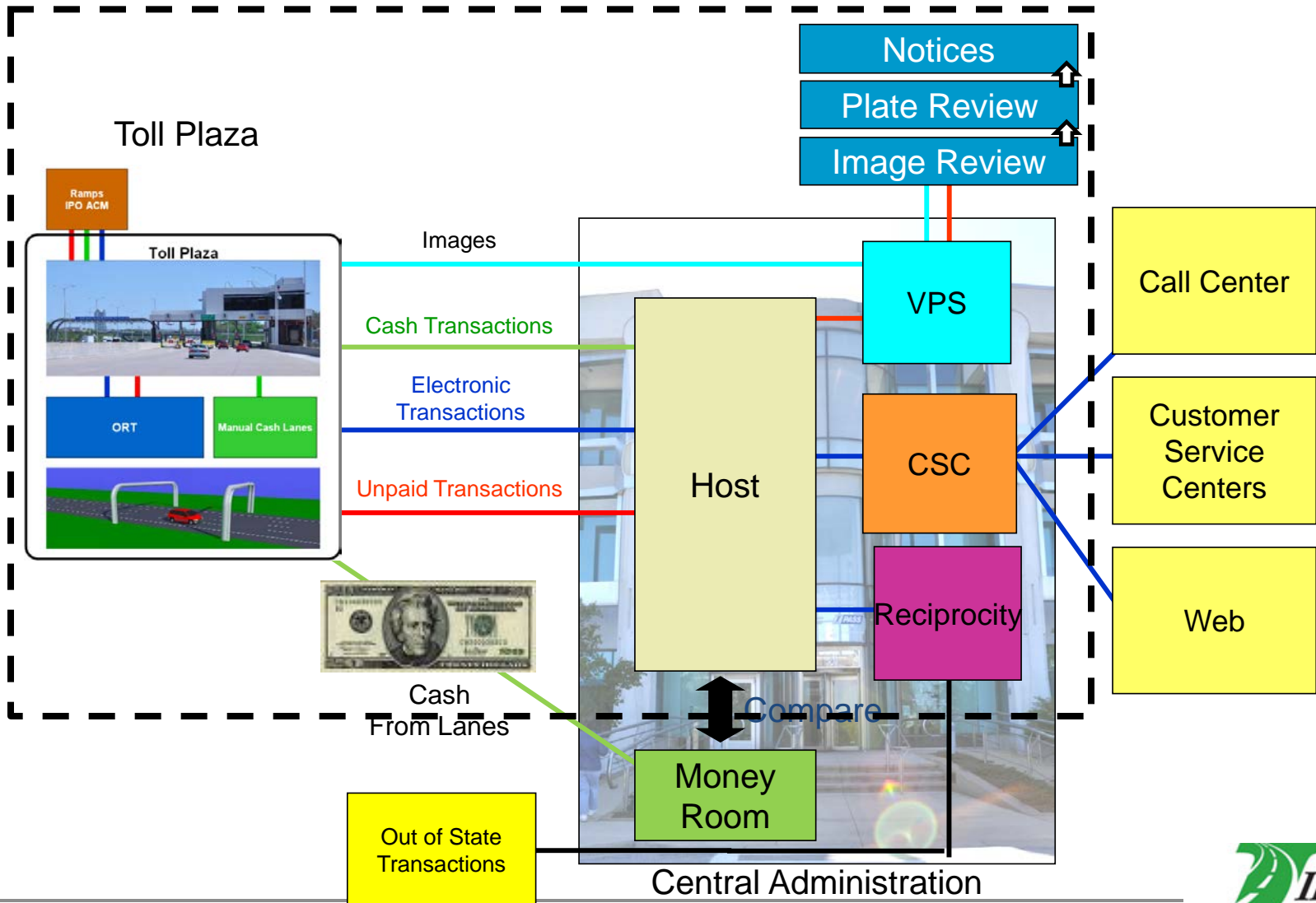
1. Vehicle enters first main road loop, activating camera to photograph front license plate. Transponder tag (AVI) is detected by antenna and sent to AVI reader, then to lane controller.
2. Road Axle loops (IDRIS) detects vehicle and counts axles.
3. 2nd and 3rd main road loops track vehicle passage through the zone.
4. 4th main road loop triggers rear camera, which photographs rear license plate and indicates vehicle exit. Indicates to the system to package data as a transaction.

# I-PASS Lane Technology In Action

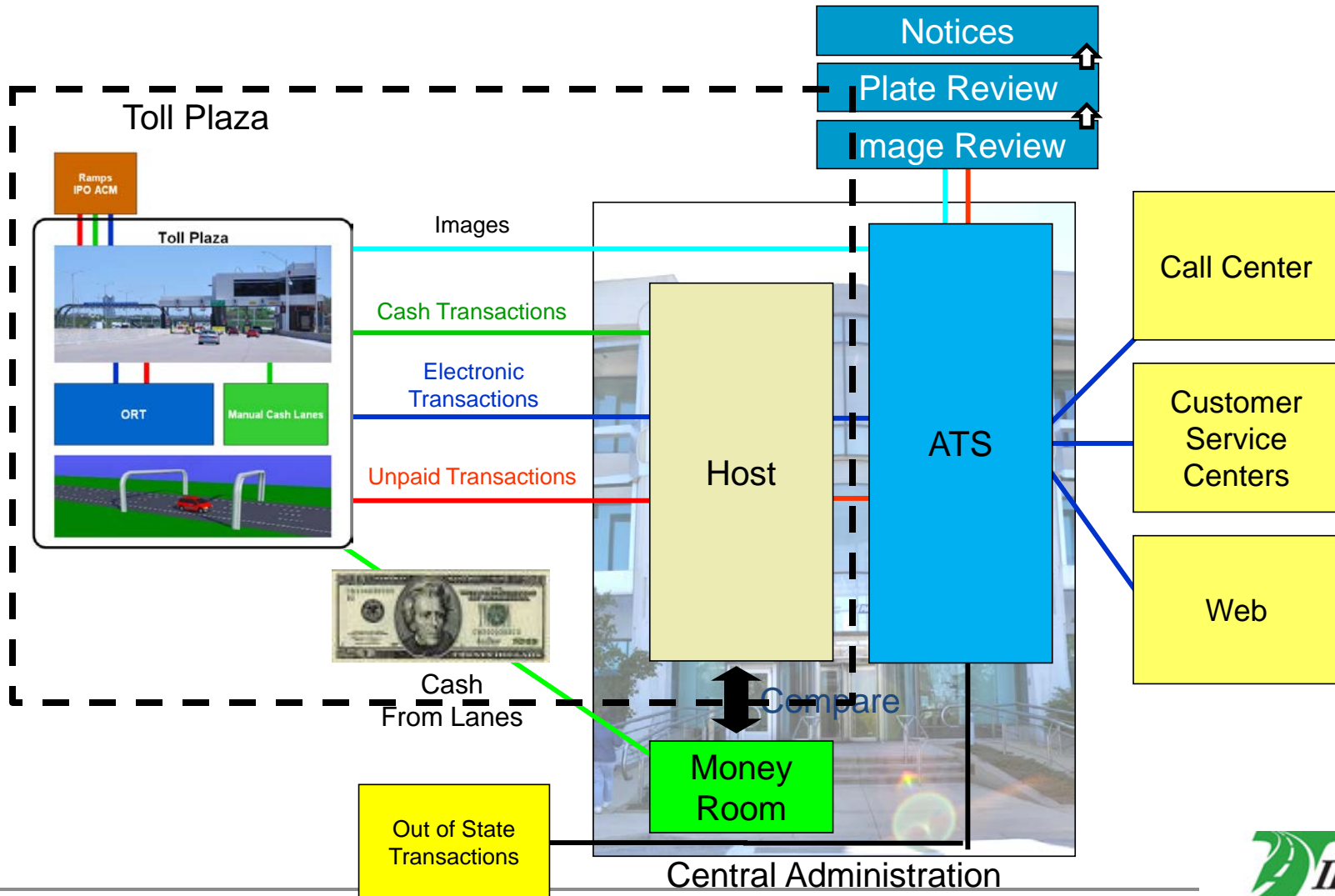


- Statistics for a single plaza (Meyers Road Toll Plaza 52 – 2014)
- Average weekday peak-hour open road tolling transactions: 6,745
- Average weekday open road tolling transactions: 82,865
- Total annual open road tolling transactions: 27,683,922
- Total annual transactions: 29,958,704

# Today, Combined Lane and Back Office Projects



# In 2016, a New Back Office System



# TRMMP Overview – Back Office Components

## New Back-Office System - summer 2016

- **CSC** – Development, installation and maintenance of custom software and hardware that provide I-PASS account management and transaction posting
- **VPS** – Development, installation and maintenance of custom software and hardware that manage the pursuit of violators
- **Reciprocity** – Development, installation and maintenance of custom software and hardware that manage the exchange of toll transactions with other E-ZPass member agencies
- **Host** – Development, installation and maintenance of custom software and hardware that consolidate, filter and sort all cash and electronic toll transactions

Anticipated future restructure



# TRMMP Overview – Lane Components

- **Lane transaction capture** – Purchase, installation and maintenance of software and hardware configured in a proprietary manner to capture and filter cash and electronic tolls
- **Vehicle classification** – Purchase, installation and maintenance of loops and treadles to count axles for assigning toll rates to each cash and electronic toll transaction
- **Automatic coin machines (ACMs)** – Purchase, installation and maintenance of coin machines
- **Cameras** – Installation and maintenance of cameras to capture license plate images for video tolling and violation pursuit
- **Transponder reading** – Installation and maintenance of antennas and readers to capture transponder toll transactions

 Anticipated future restructure



# TRMMP – Context

**We are restructuring a plane in flight – and flying its fastest.**

- Bleeding-edge, niche technology and protocols
- Small marketplace that continues to rapidly shift and evolve
- Largest I-PASS penetration rate in the industry
- Largest volume of open road tolling transactions in the industry
- Unprecedented change in a very young industry
- Uncommonly high volume of lanes in industry
- Uncommonly challenging weather issues in industry
- Largest capital program in industry





# TRMMP Overview – History

## ■ Contract established June 29, 2005 – June 29, 2010

<input type="checkbox"/> Original dollar limit	\$69,500,000
<input type="checkbox"/> Change order 2009	\$12,340,080
<input type="checkbox"/> Change order 2012	\$462,000
<hr/>	
<input type="checkbox"/> <b>Total original contract value:</b>	<b>\$82,302.080</b>

## ■ Renewals exercised

<input type="checkbox"/> Renewal 1 (2010)	\$11,000,000
<input type="checkbox"/> Renewal 2 (2011)	\$12,059,012
<input type="checkbox"/> Renewal 3 (2012)	\$12,000,000
<input type="checkbox"/> Renewal 4 (2013)	\$19,000,000
<input type="checkbox"/> Renewal 5 (2014)	\$11,977,895
<input type="checkbox"/> Sole Source – 6 Months	\$13,000,000
<hr/>	
<input type="checkbox"/> <b>TOTAL contract value to date:</b>	<b>\$161,338,987</b>



# TRMMP Overview – Previous Renewals

Renewal	Capital	M&O	Total	Key Items
<b>1 – 2010</b>	\$102,000	\$10,898,000	\$11,000,000	<ul style="list-style-type: none"> <li>• Online image review</li> <li>• 90-day rule</li> </ul>
<b>2 – 2011</b>	\$3,420,000	\$8,639,012	\$12,059,012	<ul style="list-style-type: none"> <li>• Camera washing</li> <li>• New camera configuration</li> <li>• Construction detour</li> <li>• Credit card updater</li> </ul>
<b>3 – 2012</b>	\$925,856	\$11,074,144	\$12,000,000	<ul style="list-style-type: none"> <li>• Balmoral Avenue Ramp</li> <li>• Disaster recovery</li> </ul>
<b>4 – 2013</b>	\$7,750,000	\$11,250,000	\$19,000,000	<ul style="list-style-type: none"> <li>• Illinois Route 47 Interchange</li> <li>• New lane controllers</li> <li>• New data loggers</li> <li>• New environment</li> <li>• Additional storage</li> </ul>
<b>5 – 2014</b>	\$270,000	\$11,707,895	\$11,977,895	<ul style="list-style-type: none"> <li>• I-294/I-57 Interchange</li> <li>• Test plaza</li> <li>• New test environments</li> <li>• Complex interface</li> </ul>
<b>6-month</b>	\$7,000,000	\$6,000,000	\$13,000,000	<ul style="list-style-type: none"> <li>• Data migration and testing</li> <li>• New antennas and readers</li> <li>• I-90 construction</li> <li>• EOWA construction</li> </ul>



# TRMMP – Proposed One-Year Contract

Renewal	Capital	M&O	Total	Key Items
One-Year	\$13,000,000	\$12,000,000	\$25,000,000	<ul style="list-style-type: none"><li>• Data migration and testing</li><li>• I-90 construction</li><li>• EOWA construction</li><li>• New cameras</li></ul>

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# Questions?