



Advanced Metering System (AMS)

Harvesting today's benefits and
preparing to harvest tomorrow's

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Oct 12, 2011

What we'll talk about today



- **System Overview**
- **Today's functionality**
- **Today's performance**
- **Remembering the customer**
- **The next frontier**
- **Remembering the "Big Picture"**

Our principles and priorities are simple



- 1) The meter data will be of the upmost integrity**
- 2) AMS will be secure and provide the functionality the market requires**
- 3) The data will be delivered in a timely and secure fashion**
- 4) Service order functions will be best-in-class**
- 5) Basic two-way communication between the REP and the customer will be provided in a secure reliable fashion**
- 6) AMS will be integrated with other systems including the OMS¹**

1. OMS- Outage Management System

The main market functions of AMS are:

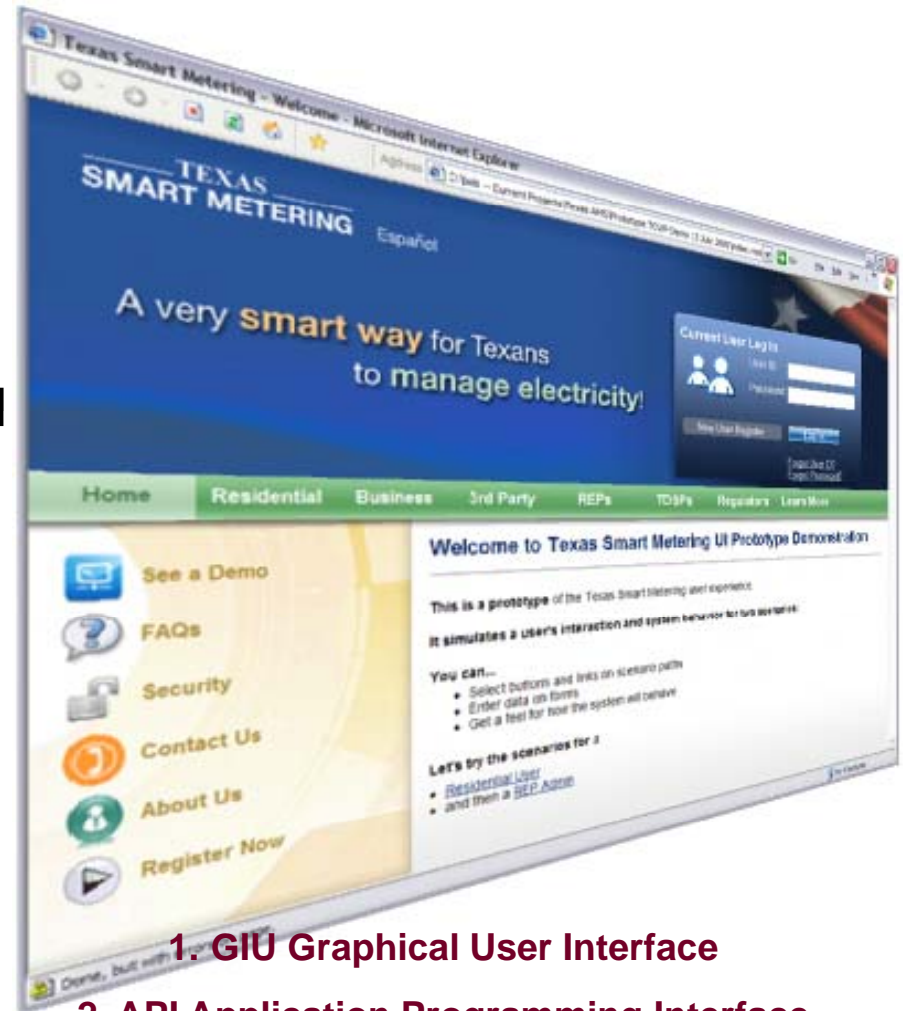


Providing 15 minute VEE (validate, edit, estimate) data to customers, REPs, and ERCOT (for settlement)

Providing 2 way transactions (disconnects/reconnects, on-demand reads, etc.) that are fully integrated with EDI (electronic data interchange) market transactions

Providing secured connections and services to home area network (HAN) devices via ZigBee SEP 1.0 radio frequency interface

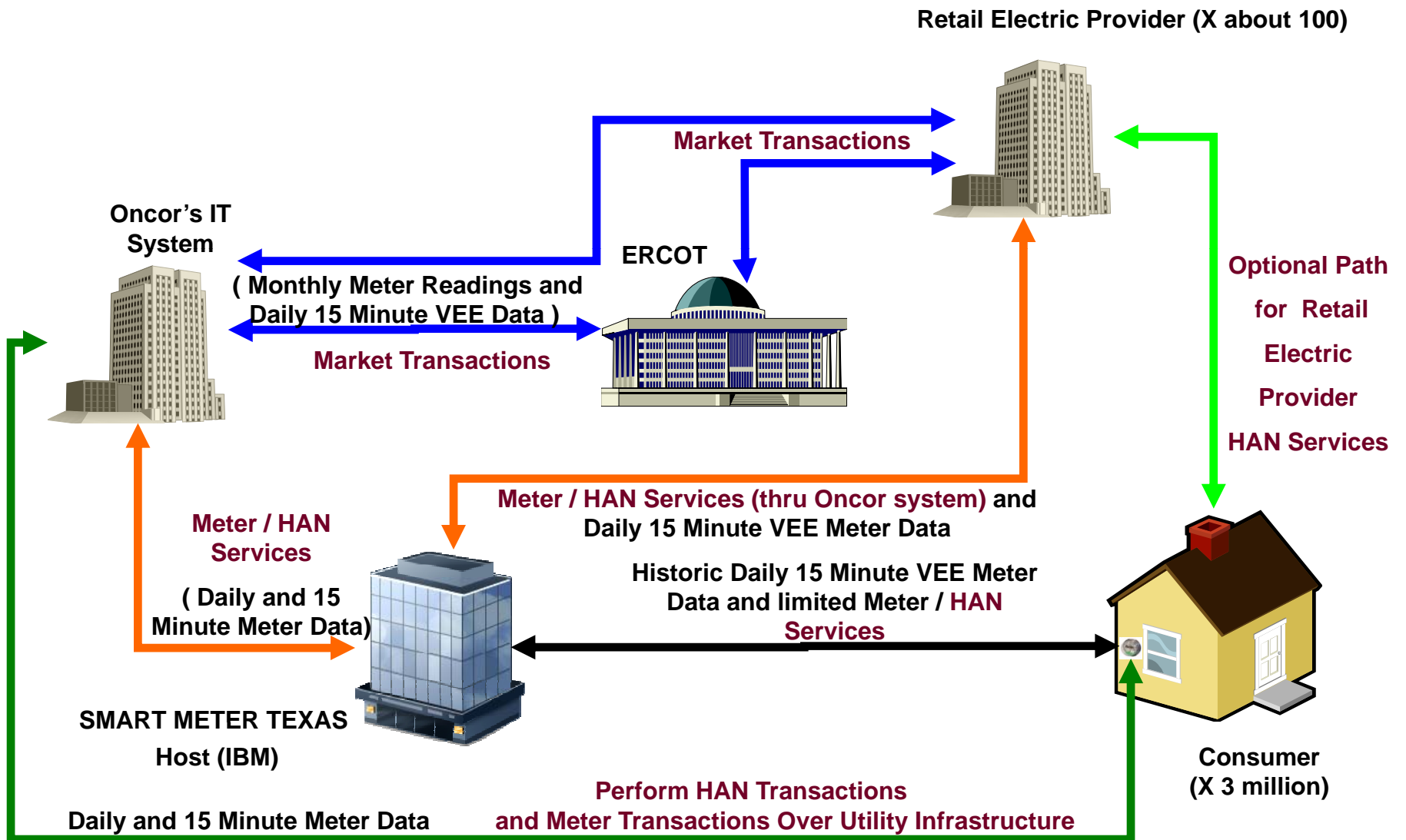
Providing a common Web Portal for REP, customers, and customer authorized 3rd parties (GUI¹ and APIs²)



1. GUI Graphical User Interface

2. API Application Programming Interface

Advanced Metering System (Market/Customer Perspective)



Today's key performance indicators



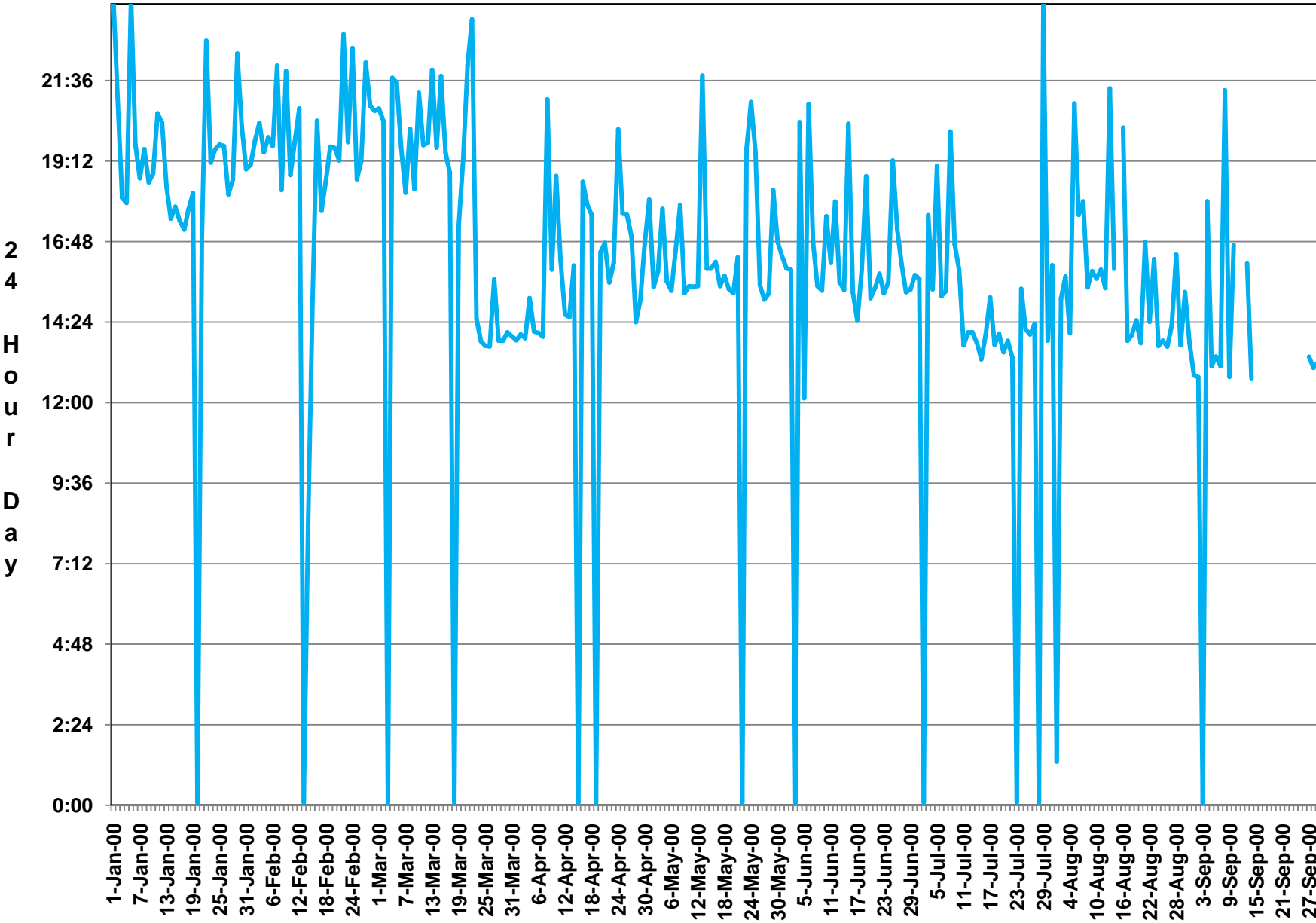
- **Meter read success**



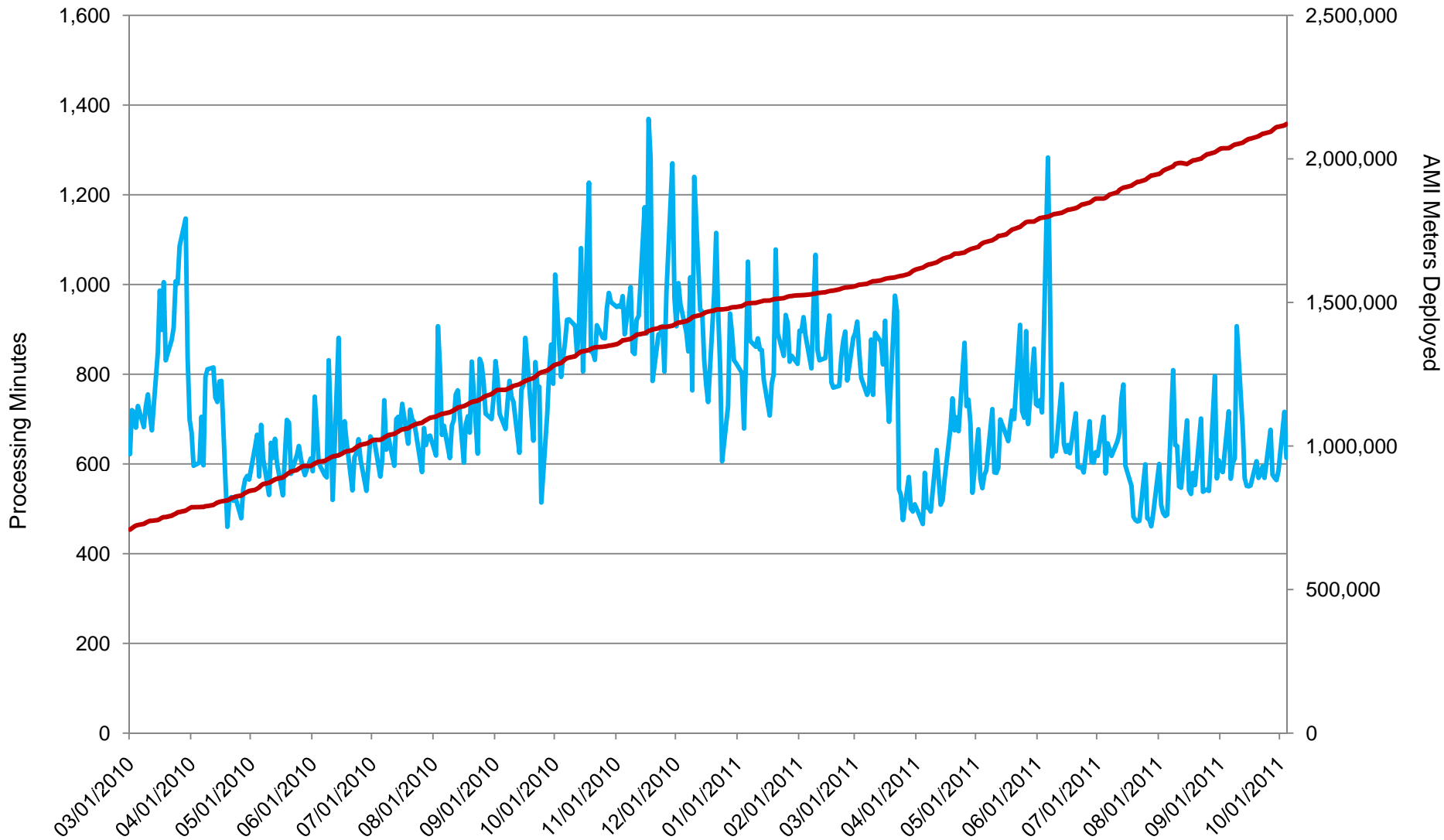
Read success
generally over
99.5% w/o automatic
retry

- **Time that data is delivered to SMTP/ERCOT**
- **Two-way transaction success rate**

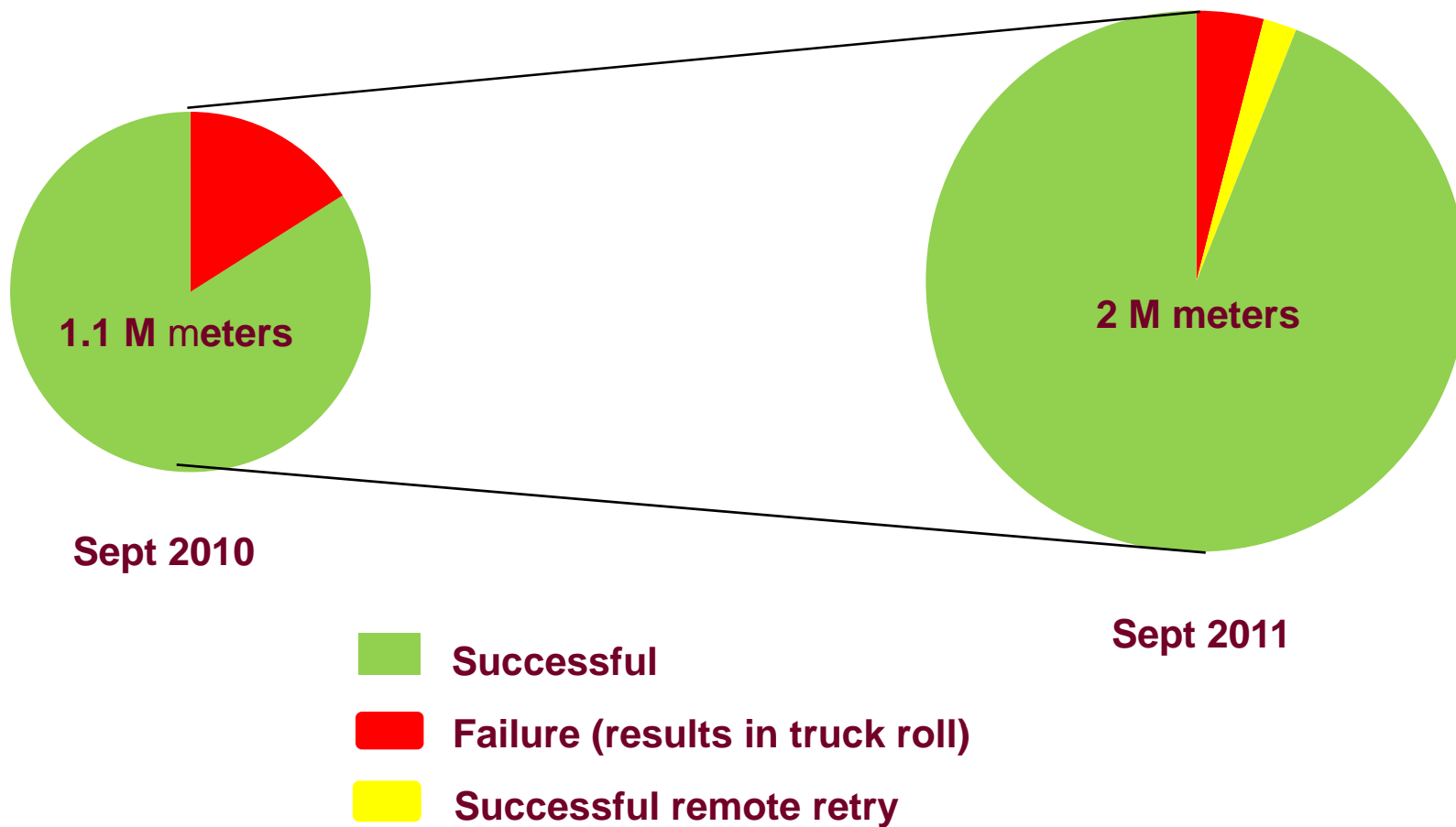
Oncor Electric Delivery Smart Meter Texas - LSE Posting Times January 1 - September 30, 2011



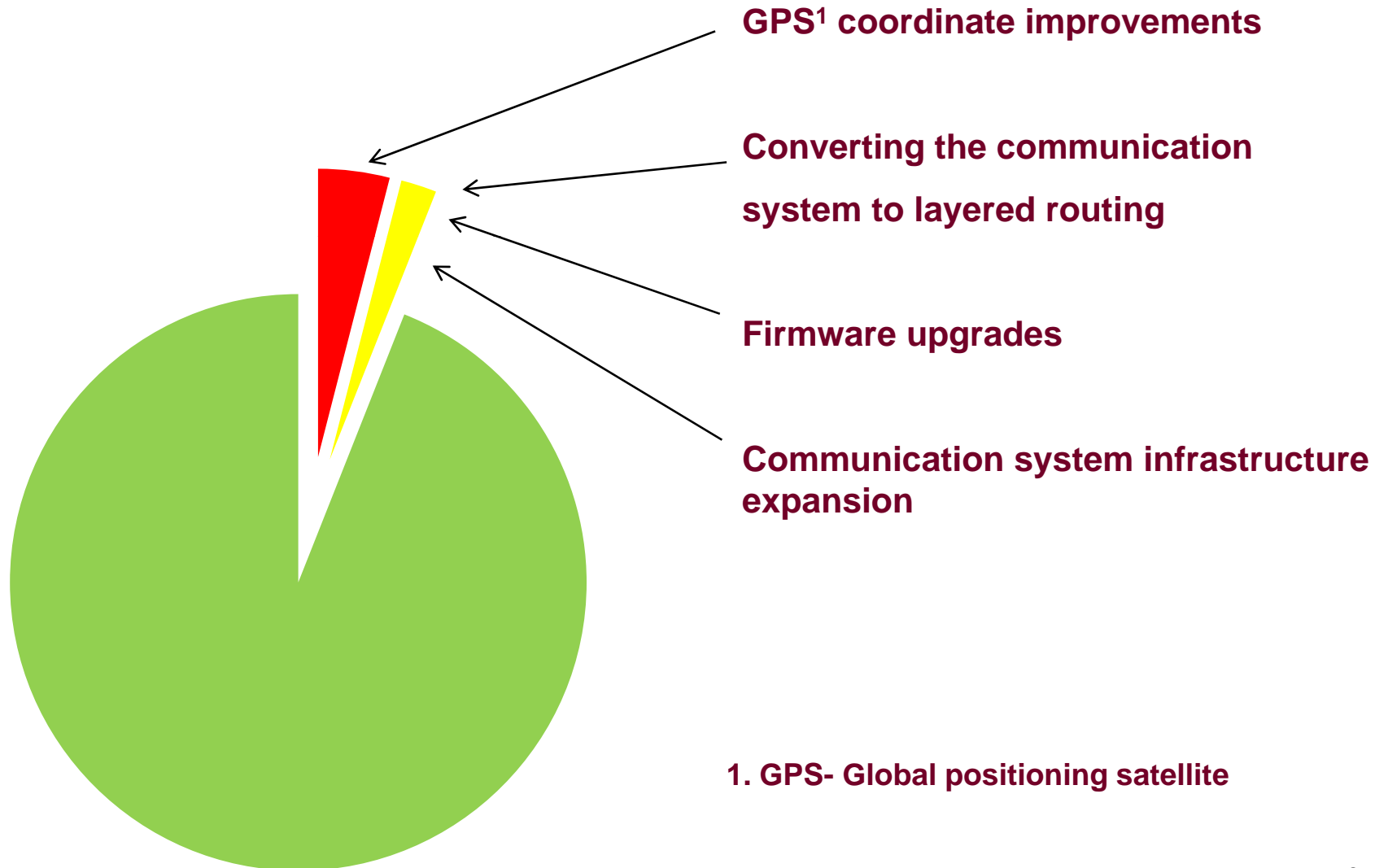
MDMS Critical Processing: Processing Minutes per Day
Day Type: Monday, Tuesday, Wednesday, Thursday, Friday



Substantial improvement has been made in our two-way transactions such as automatic reconnects



Focused effort continues on the remaining gap in service order performance, improvement opportunities include

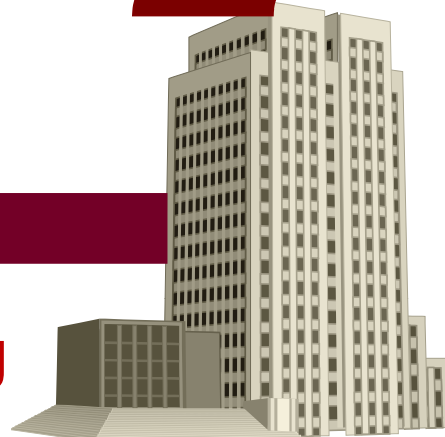


None of the previous activities matter if you don't focus on all stakeholder

Especially the customers!



Next big horizon includes:



Integrating Demand Response



In-home Display



Thermostats



Lighting Controls



Smart Appliances

Integrating AMS and OMS

The Smart Grid Ties the Pieces Together...



... Creating a Smarter, Greener World.

Questions ?