

# EPIC 1.15 Demonstrate New Technologies and Strategies that Support Integrated “Customer-to-Market-to-Grid” Operations of the Future

Tom Martin, PG&E

EPIC Innovation Symposium  
December 3, 2015

## Original Filing:

EPIC 2012-2014 Project #15 “Demonstrate New Technologies and Strategies That Support Integrated ‘Customer-to-Market-to-Grid’ Operations of the Future”

## Renamed:

Grid Ops Situational Intelligence



*Data aggregation and visualization that allows us to GO-SEE what is happening on the grid in real-time*

## Problem to be Addressed:

To efficiently run the grid operations of the future, data from a wide variety of data sources will need to be quickly analyzed and presented to end users

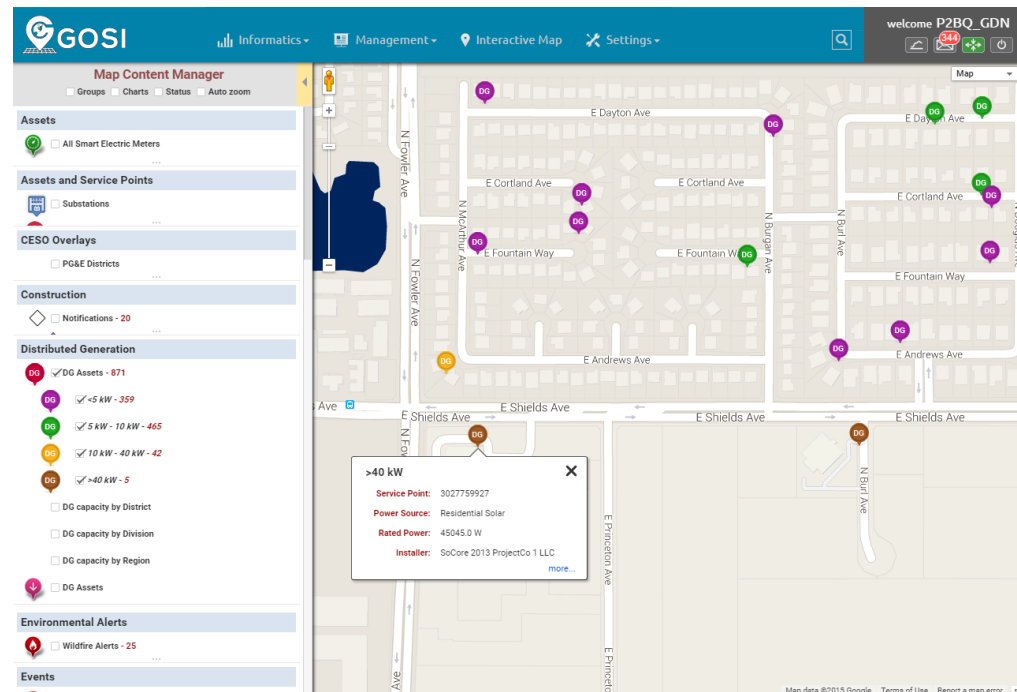
PG&E Data	Customer Data	External Data
Asset Info	Residential Solar	Weather Data
Crew Locations	SmartMeter Load	Earthquakes
Feeder Lines	Customer Outages	Wildfires

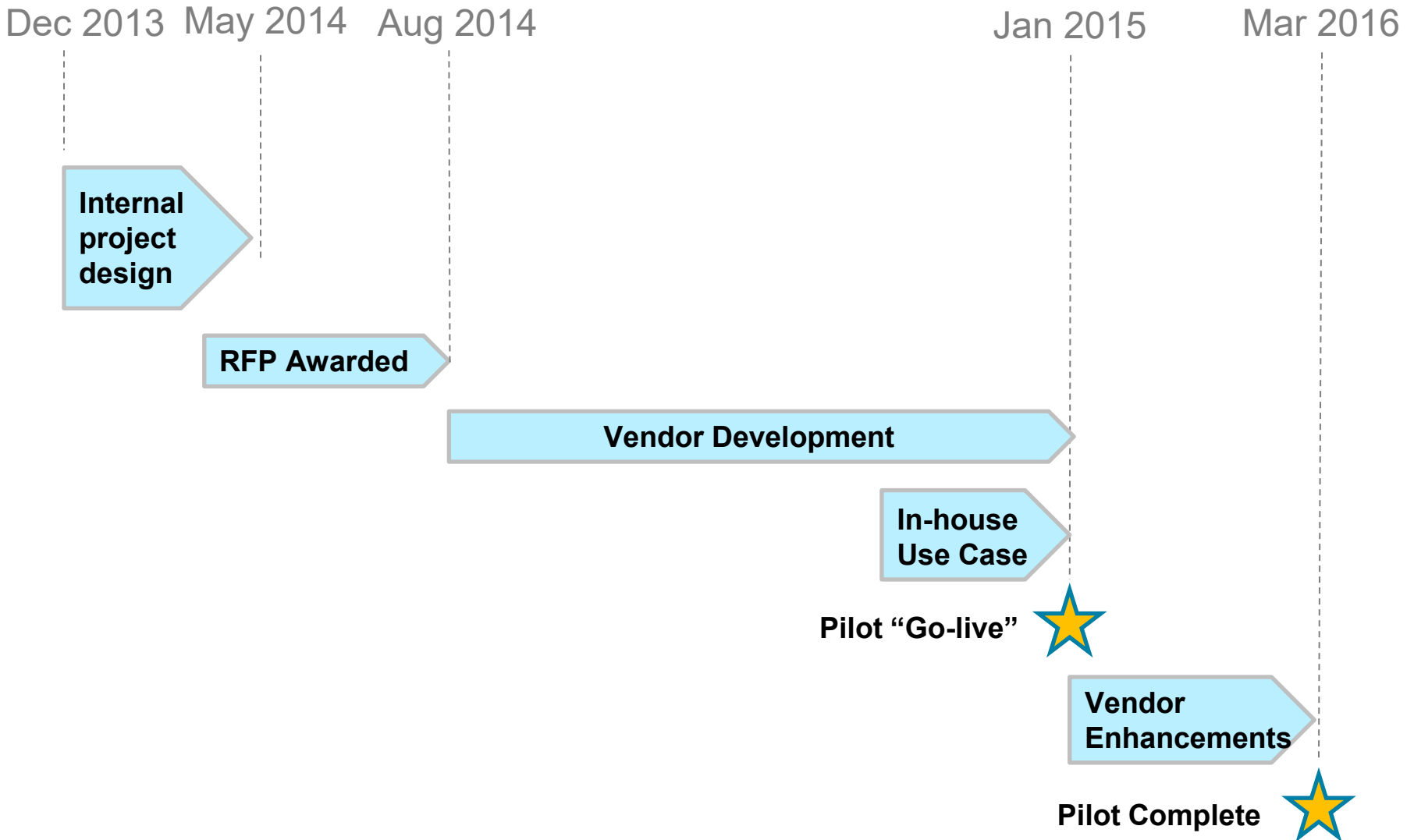
## Project Objectives:

- Real-time data visualization platform
- Data integration from multiple sources
- Ability to develop business rules/analytics
- Agile and in-house development capabilities

## Pilot Approach

- Test out a platform capable of quickly and easily integrating a wide variety of data sources (internal and external data)
- Use five pilot use cases to test out the various features:
  - Outage Anticipation
  - Distributed Generation (DG) Research
  - Circuit Loading
  - Construction Planning
  - Daily and Emergency Operations Dashboards
- Pilot is testing out the Mix Director platform from Bit Stew





*Live demo*