

October 23, 2024





### **Streamlining Expansion Projects**

- What do we mean by 'expansion projects'?
- Challenges
- What do you do about it?



### **Streamlining Expansion Projects Common Pain Points**

- Design
- Materials
- Permitting
- Change Management
- Redlines
- Should we keep going?

#### What's the Solution?

- Single Source of Truth (SSoT)
  - Comprehensive platform using real-time data that drives the project from start to finish, from design, to construction and inspections, through to as-builts and beyond





## **Common Pain Point** *Materials Management*

#### **Challenges**

- Timely creation and delivery of Bill of Materials (BOM)
- Accuracy of the BOM
- Remember COVID?
  - Get ready for BEAD!

- Rapid generation of BOM based on design data
  - Materials needs can be understood more quickly
- Removed manual intervention and human error



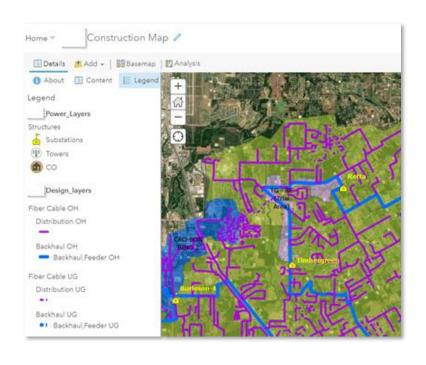


## **Common Pain Point Leveraging Existing Assets**

### **Challenges**

- How to use your plant efficiently
- Knowing what you have, where you have it, and what's already in use within it

- Full record of all materials in the field, their exact locations, and how they're connected
- Reliable insight into existing capacity of your network





## **Common Pain Point Permitting**

### **Challenges**

- What permitting agency?
- Where do you need them?
- Does everyone have what they need?

- Visibility of locations that require permits and the corresponding agency
- View of up-to-date design and construction information
- Real time access to approved permits





### **Common Pain Point Change Management**



#### **Challenges**

- Visibility of approved scope changes
- Slow communication between teams and timely approvals of change requests
- Frequent confusion around which version is current
  - Significant time and overhead required to keep everyone aligned on paper

- Maintain records and history in SSoT as well as manage access
- Allows for a transparent and efficient approval process







### **Common Pain Point Construction Redlines**



#### **Challenges**

- Tracking and managing redline input
- Time to completion of redlines post construction
  - Receipt of the actual redlines
  - Back and forth for clarification
  - Implementation of the accepted redlines

- Managing and updating redlines in SSoT
  - Speed to completion
  - Visibility across all relevant members of the organization









### Common Pain Point Production Reporting & Inspection



#### **Challenges**

- Generic reporting of production
- Multiple, disparate reports based on number of active crews
- Delayed reporting
  - Daily, Weekly, Monthly...?
- Slower communication with inspection

- Real-time production reporting
- Reconciliation with inspection results for accuracy





## **Common Pain Point Gig Management**

#### **Challenges**

- Communication of gigs to/from the field
- Difficulty with effective remote inspection after gig resolution
- Limitation around number of qualified inspection personnel

- Communication around and status of gigs maintained centrally
- Reliable and rapid gig resolution due to direct connection in SSoT
- Ability to do more with less





## **Common Pain Point Invoicing**

#### **Challenges**

- Reconciling production reported with RUS quantities on invoice
- Reconciling materials used with warehouse inventory
- Breakdown of labor and materials required for grant reporting

- Controls around approved RUS units for billing
- Connection of specific units to their construction status
- Visibility of specific material required for each invoice
- Integration of financial data into your SSoT



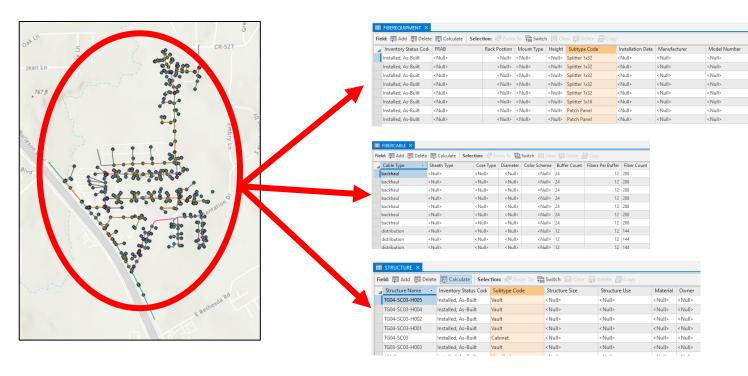
## Common Pain Point As-Builts and System of Record Integration



#### **Challenges**

- Time needed to receive and translate into system of record
  - Accuracy and reliability of the information received

- Ability for real time documentation from field regarding ongoing updates
- Ensuring connectivity and accurate records in you SSoT
- Shortened time to work order closeout

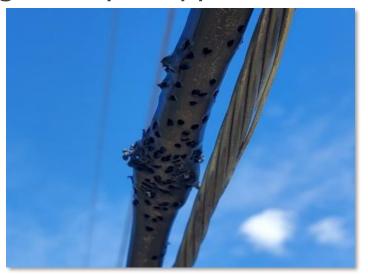




## **Streamlining Expansion Projects Preparing for the Future**

- Build a foundation of operational capacity to maintain, expand, and restore your network
  - Not only speed to restore but speed to service
- Staying ahead of technological changes and adapting your network for future growth and development
- Remember Murphy's Law, things always happen









### **Streamlining Expansion Projects Next Steps**

Understand the importance of a Single Source of Truth?





# **Questions? Thank You!**

