Pole Database Workshop

March 17, 2017

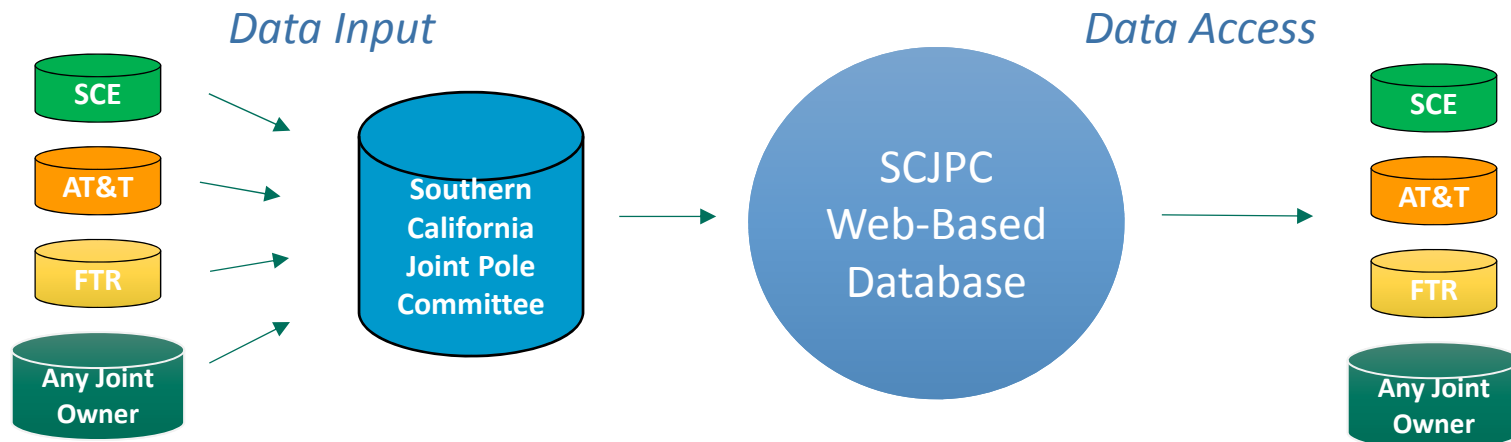California Public Utilities Commission

Executive Summary

- SCE uses databases to manage and share pole-related data with joint owners and renters

- Understanding the data available, how it is shared and how it is used will form the basis of today's discussion

- Consideration should be given to whether we should leverage existing databases or create a database from the ground up

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Southern California Joint Pole Committee (SCJPC) Database
Single source of truth among joint owners for pole information

Triggering Event

- Pole replacement or install
- Purchase of interest in a pole
- Unauthorized attachment found
- Record correction

Data Input

SCE
AT&T
FTR
Any Joint Owner

Southern California Joint Pole Committee

SCJPC Web-Based Database

Data Access

SCE
AT&T
FTR
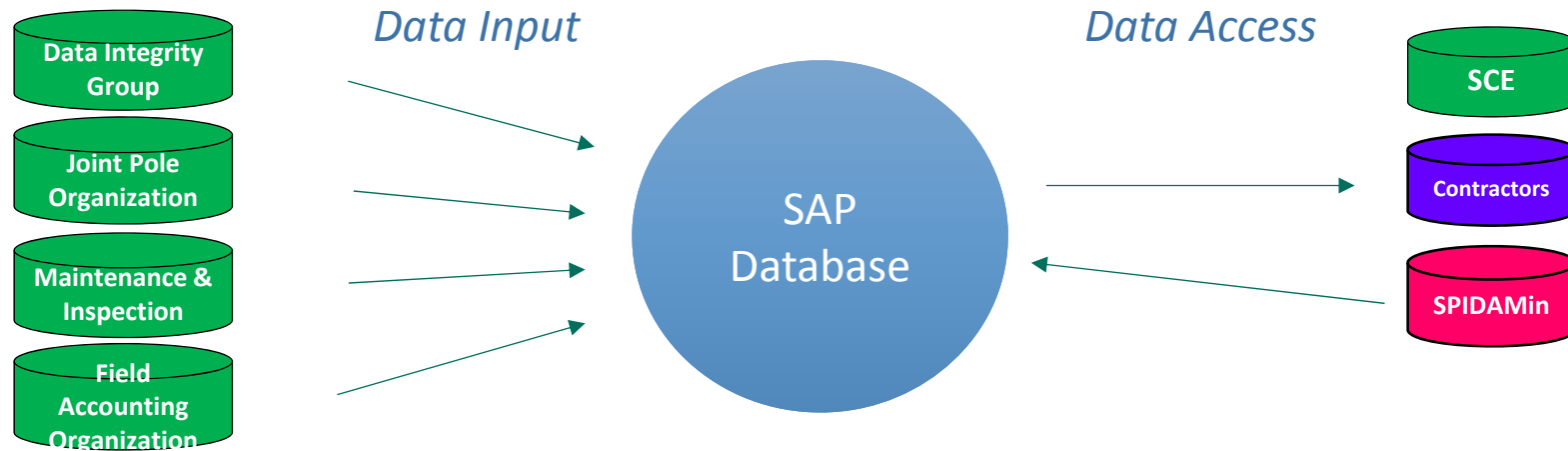Any Joint Owner

Key Data Fields

- Pole number
- Joint owner space and grade
- Address
- Latitude/longitude (if provided)

- Pole material (e.g. wood)
- Pole height
- Pole class
- Year set

SAP Database

SCE's internal asset management and maintenance records database

Triggering Event
- Pole replacement or install
- Maintenance activity
- Record correction

Data Input

Data Access

Data Integrity Group

Joint Pole Organization

Maintenance & Inspection

Field Accounting Organization

SAP Database
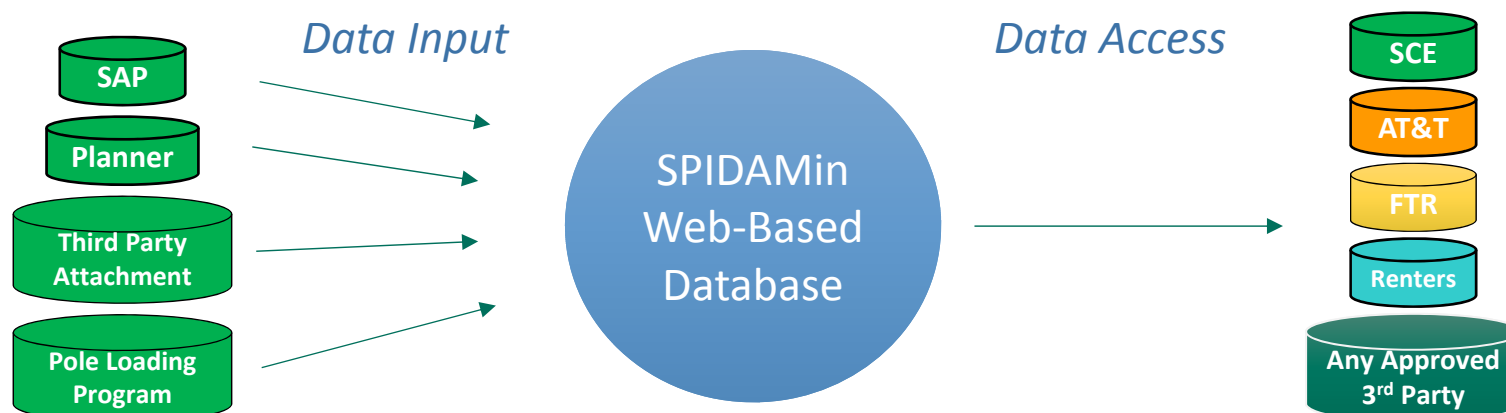
SCE

Contractors

SPIDAMin

Key Data Fields

- Pole number
- Equipment type (e.g. Distribution)
- Latitude/longitude
- Pole height/class
- Pole material (e.g. Douglas fir)

- High fire flag
- Address
- Start-up year
- Joint owner space and grade
- Renter space and grade

SPIDAMin Database
Web-based database for pole loading results

Triggering Event

- Pole load completed
- Data transfer from SAP

Data Input

- SAP
- Planner
- Third Party Attachment
- Pole Loading Program

SPIDAMin Web-Based Database

Data Access

- SCE
- AT&T
- FTR
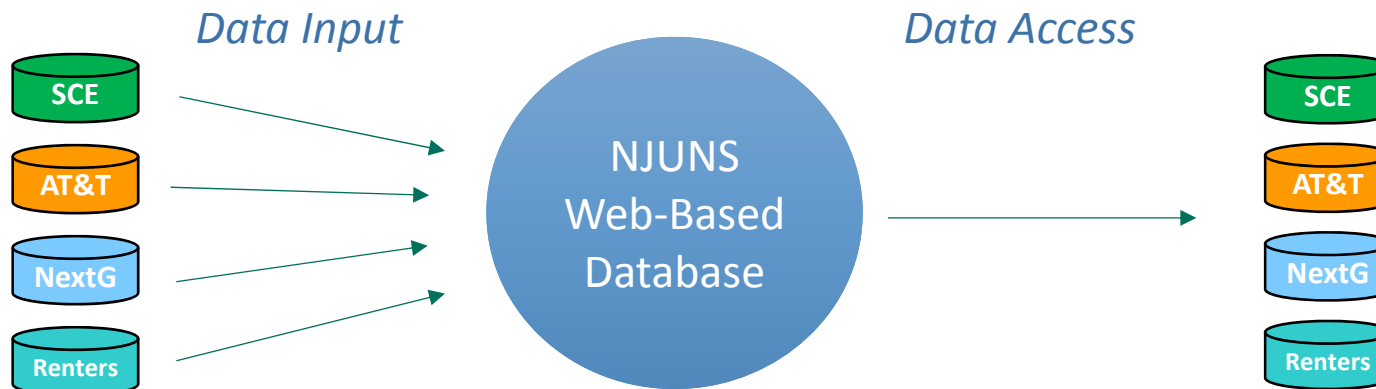- Renters
- Any Approved 3rd Party

Key Data Fields

- Safety factors
- Pole loading calculation file
- PDF of pole loading file
- Photos
- Intrusive inspection results

- Joint owner/renter information
- Map of pole location
- Latitude/longitude
- Pole information
- Attachments

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National Joint Utility Notification System (NJUNS) Database
Pilot testing as a work management system for buddy pole removal

Triggering Event
- Buddy pole found
- Transfer completed

Data Input

SCE
AT&T
NextG
Renters

NJUNS Web-Based Database
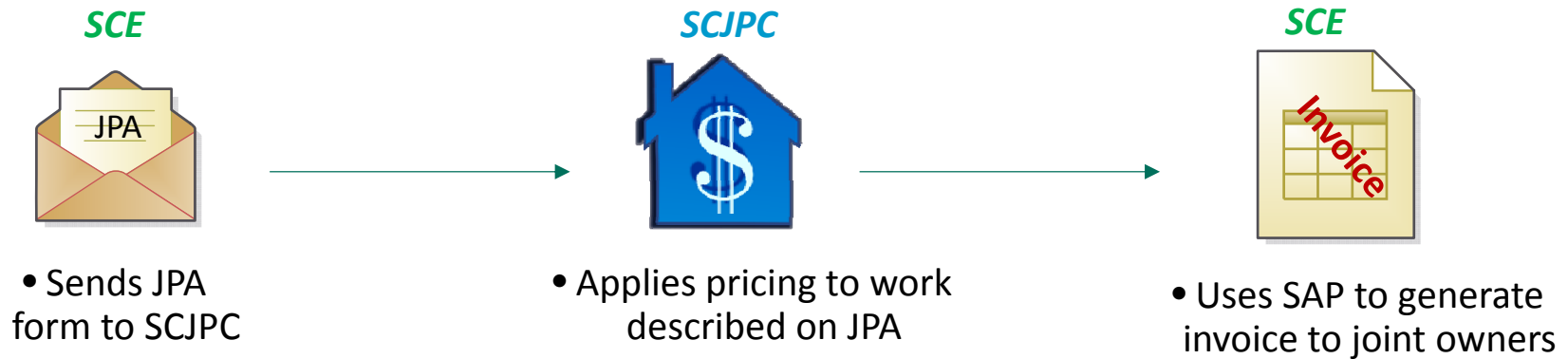
Data Access

SCE
AT&T
NextG
Renters

Key Data Fields
- Pole number
- Joint pole authorization number
- Address
- Latitude/longitude
- Transfer steps and responsible party
- Start and completion dates

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Billing Systems and Processes

Joint Owner Billings

SCE

JPA

- Sends JPA form to SCJPC

SCJPC

- Applies pricing to work described on JPA

SCE

Invoice

- Uses SAP to generate invoice to joint owners

Renter Billings

SCE

Permit

- Approves rental attachment

SCE

SAP

- Updates SAP to reflect renter space and grade

SCE

Invoice

- Uses SAP to generate invoice to renters

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