



# SWAT and Transmission Corridor Work Group (TCWG) Overview

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# Planning & Building Transmission

- Transmission Planning
  - What is transmission planning?
  - Who does the transmission planning?
  - Why be part of the process?
- SWAT Overview
- Transmission Corridor Work Group



# What is Transmission Planning?

- Meeting Reliability Needs
  - Peak loads, under normal, typical maintenance, and abnormal conditions
  - Highly technical analyses (power flow, voltage, thermal overloads, stability, short circuit, and more!)
- Meeting Customer Needs
  - Economical, providing continuity of service
- Meeting Policy Requirements
  - Renewable Portfolio Standards, greenhouse gas, energy efficiency, demand side management, markets
- Meeting Public Needs
  - Minimize environmental impact
  - Minimize land use impacts
  - Minimize private land impacts



# Who Does Transmission Planning?

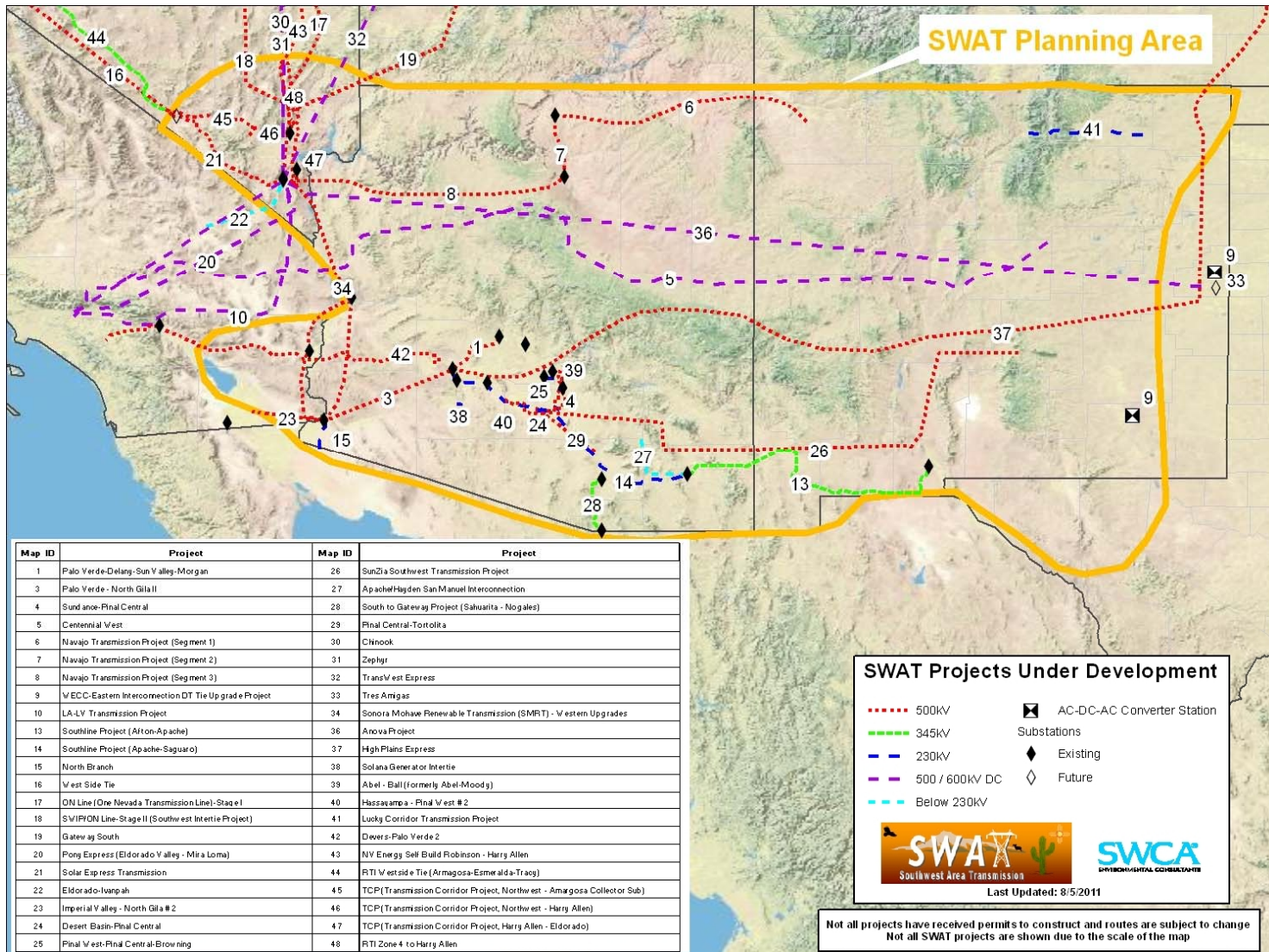
- Utility level
  - Utility specific
  - Joint planning among utilities & developers
- Subregional Planning organizations
  - SWAT, Sierra (SSPG), Colorado Coordinated planning group (CCPG), and others
- Regional/Interconnection Level
  - Western Electric Coordinating Council (WECC)
  - Subregional Coordination Group (SCG)
- Federal
  - DOE
  - National Interest Electric Transmission Corridors
  - National Energy Corridors



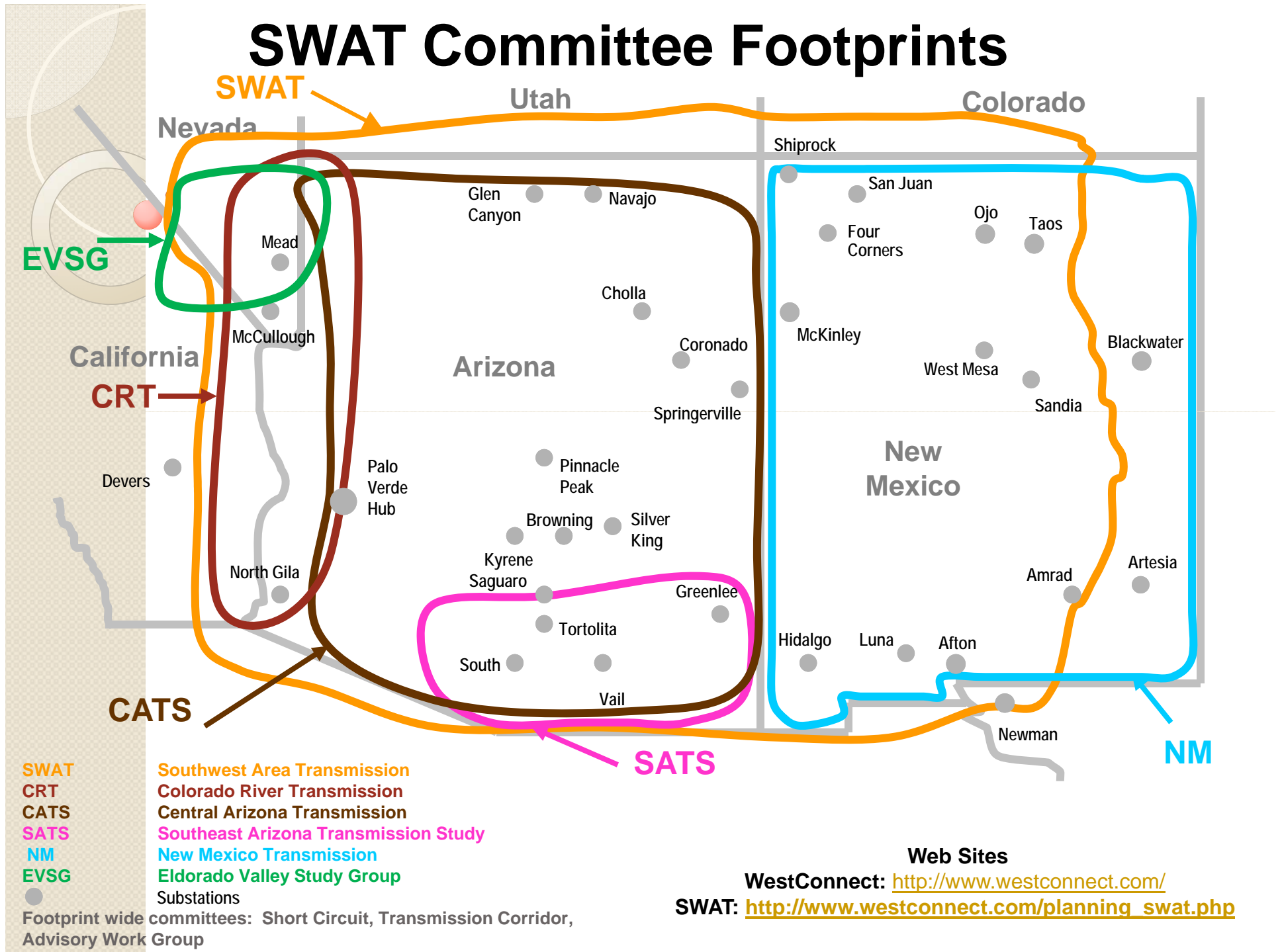
# Why be part of the process?

- Transmission is a long-lived asset
  - Decisions outlive the decision-makers
  - What is good for short term might not be the best long-term solution
- Pro-active collaboration is better than reactive response
- Facilitate development of vital infrastructure in a constructive manner

# Projects in SWAT Planning Area



# SWAT Committee Footprints





# Transmission Corridor Work Group

- Share lessons learned about federal and state permitting
  - what works and what does not
  - and how to improve siting and permitting processes.
- Forum for state and federal agencies to learn more about the various projects
  - how they enhance the high voltage power grid,
  - provide necessary improvement to system reliability, and
  - address policy promoting increased development of renewable energy



## Helping SWAT & TCWG:

- Should we define a corridor?
- How should we define corridor?
- Does your agency want corridors?
- Would there be any expedited siting if in a corridor?



# How SWAT & TCWG can help you?

- Information
  - Number of projects, types of projects
  - What is going on in the southwest?
- Resource/Education:
  - Who do I contact for more information on specific projects?
  - What is transmission, what are “typical” structures, sizes, etc
- Information distribution
  - SWAT distribution lists, quarterly meetings
  - How could SWAT - TCWG incorporate the RDEP efforts?

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