



**GigaBit or Bust Round Table**  
**Optical Fiber Task Force**  
**July 21-22, 2004**

# CalREN OPTICAL BACKBONE

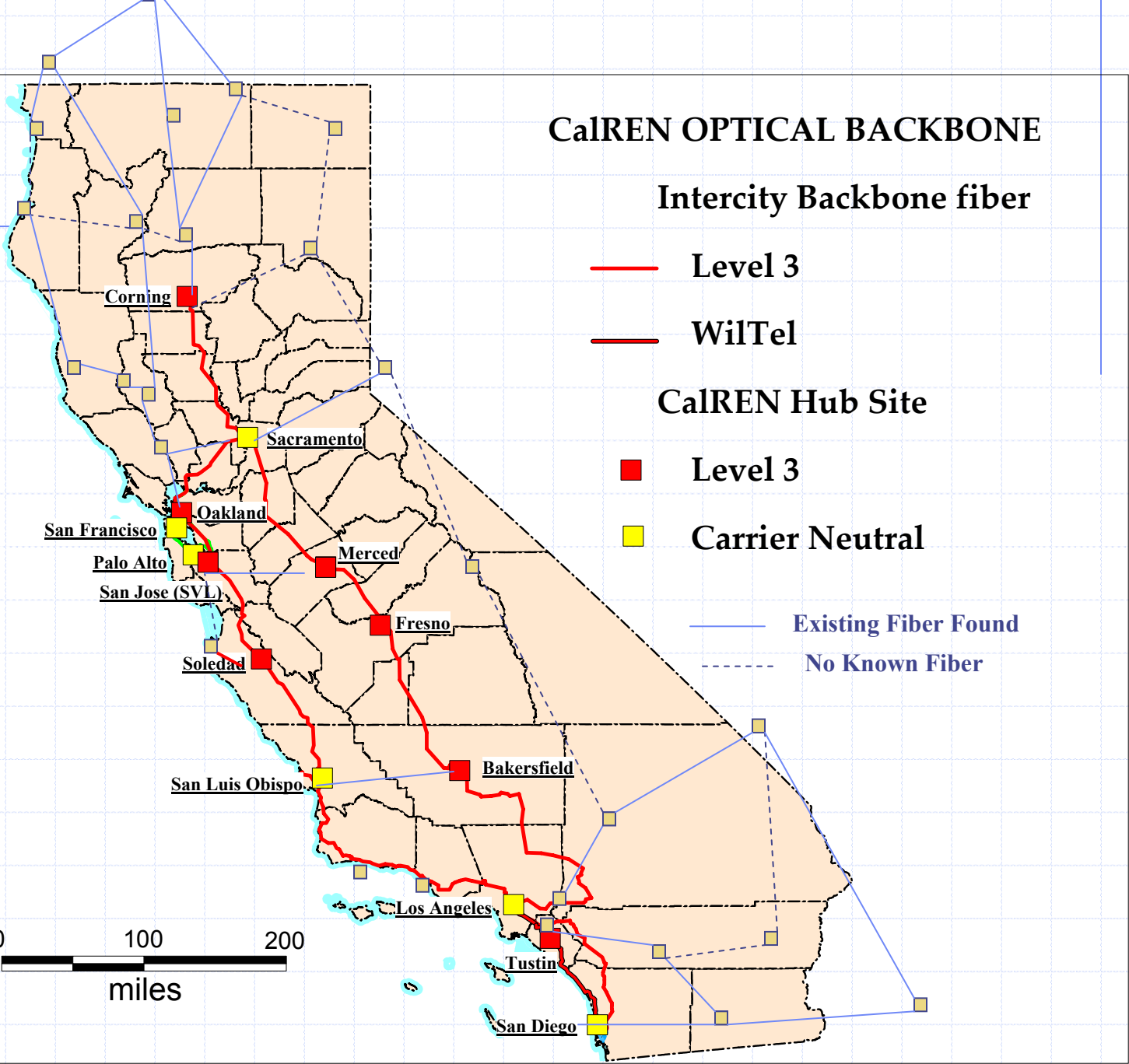
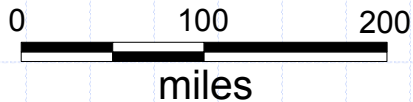
## Intercity Backbone fiber

- Level 3
- WilTel

## CalREN Hub Site

- Level 3
- Carrier Neutral

- Existing Fiber Found
- - - No Known Fiber



# Challenges and Obstacles

- ◆ Right of Way Use Restrictions and Fees
  - CalTrans
  - Public Utilities (PGE, So Cal Edison, SDG&E, etc.)
  - California Coastal Commission
  - US Forest Service
  - Some municipalities
- ◆ ILEC and CATV Policies re: sale of dark fiber
- ◆ Cost of new construction
- ◆ Need for Central Authority

# Opportunities

- ◆ Available dark fiber in most X-sections
- ◆ Discounted Pricing for intercity segments
  - Level 3
  - WITel
- ◆ Discounted Pricing in metro markets
  - Level 3
  - WITel
  - Looking Glass
- ◆ Innovative Access Solutions
- ◆ Potential for joint-build(s) with ILEC's and CLEC's
- ◆ Cost savings, e.g., \$.00025/DS-0 mile vs. current Gig-E rates of \$.005/DS-0 mile

# Needs

- ◆ Attitude
- ◆ Awareness
- ◆ Cooperation
- ◆ Innovation
  - Technology
  - Construction
  - Pricing
  - Funding
- ◆ Results

# Action Plan

- ◆ Identify and Empower “Central Authority” to spearhead effort
- ◆ Work to reduce access restrictions and costs of ROW
- ◆ Work with ILEC’s, CLEC’s, and CATV companies to achieve access to existing dark fiber and conduit
- ◆ Work with preferred contractors to achieve reduced construction costs
- ◆ Work with carriers to standardize long-haul and metro cost models
- ◆ Work with wireless solution providers to integrate technologies for cost-effective solutions
- ◆ “Essential Public Infrastructure”

# Build Arcades, not Barriers

