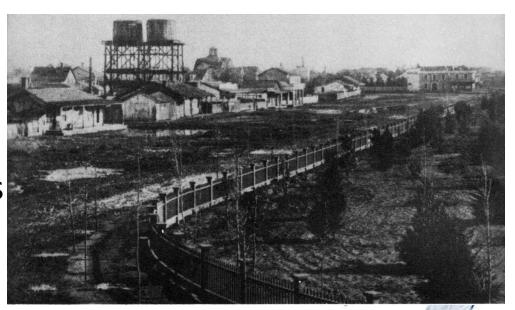


Company

- Incorporated 1866
- 230,000 connections
- 140 sq. mi.
- Diverse supply sources
- 2,400 mi. of pipelines
- 2 surface WTPs
- 100+ active wells





Business Continuity

- Key focus at SJWC
- Multiple Sources
 - Surface
 - SJWC 2
 - SCVWD
 - Sources 2
 - WTP 3
 - Wells
 - 120+





How is EM & BCP Seen in the Business World?

- SOX Requirement
- Regulatory Requirement
- Customer/Client Requirement

An Insurance Policy!



The Business Case for Both!!

Best Selling Business Leadership Author: Jim Collins

Great by Choice: Uncertainty, Chaos, and Luck--Why Some Thrive Despite Them All

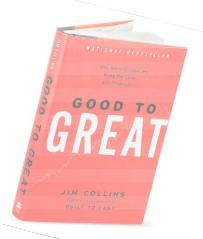


Built To Last

BHAG = Big Hairy Audacious Goals



Good to Great



Good is the Enemy of Great

First Who, Then What

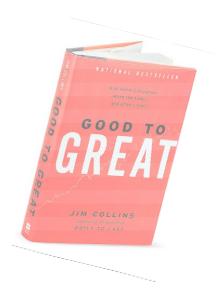
The Hedgehog Concept (Simplicity Within the Three Circles)

The Flywheel and the Doom Loop



Good to Great

Level 5 Leadership



LEVEL 5 EXECUTIVE

Builds enduring greatness through a paradoxical blend of personal humility and professional will.

LEVEL 4 EFFECTIVE LEADER

LEVEL 1

Catalyzes commitment to and vigorous pursuit of a clear and compelling vision, stimulating higher performance standards.

LEVEL 3 COMPETENT MANAGER

Organizes people and resources toward the effective and efficient pursuit of predetermined objectives.

LEVEL 2 CONTRIBUTING TEAM MEMBER

Contributes individual capabilities to the achievement of group objectives and works effectively with others in a group setting.

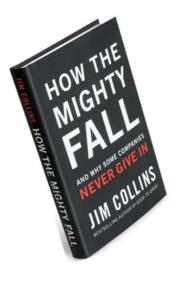
HIGHLY CAPABLE INDIVIDUAL

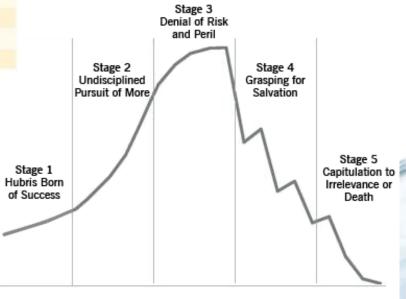
Makes productive contributions through talent, knowledge, skills, and good work habits.



How the Mighty Fall

Fallen Company	Success Contrast
A&P	Kroger
Addressograph	Pitney Bowes
Ames	Wal-Mart
Bank of America	Wells Fargo
Circuit City	Best Buy
HP	IBM
Merck	Johnson & Johnson
Motorola	Texas Instruments
Rubbermaid	None qualified
Scott Paper	Kimberly-Clark
Zenith	Motorola







Great by Choice



SMaC = Specific, Methodical, and Consistent

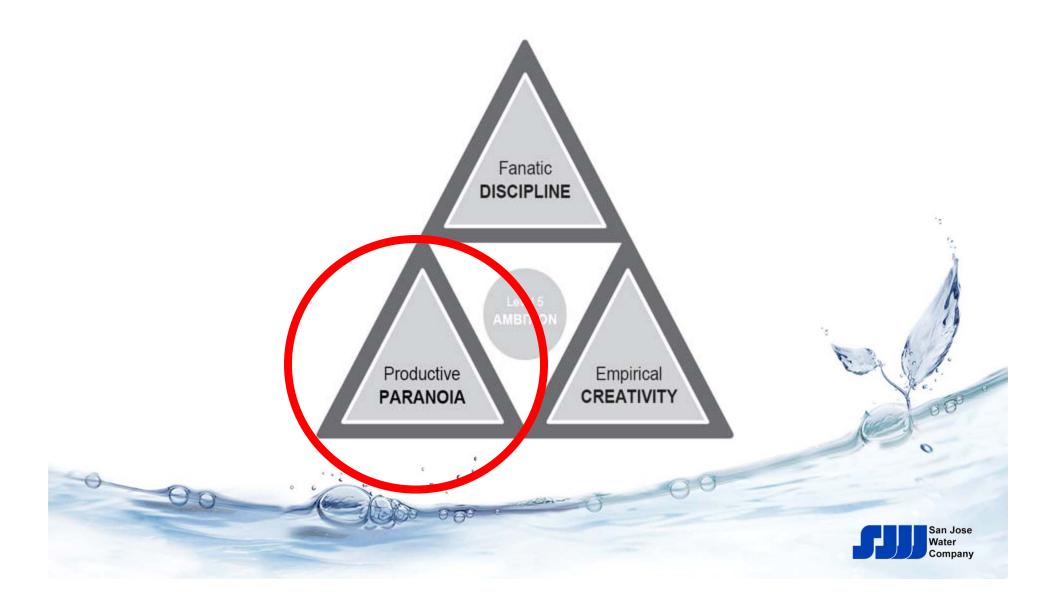
20 Mile March!

10X

Fire Bullets then Cannon Balls!



The Case for Risk Management



Race to the South Pole



What Started as THIS



Became THIS!



What Started as THIS



Became THIS!



Ultimately The Difference!!

- Amundsen
 - First to Arrive at South Pole
 - Every Member Returned
 - Ultimate Success
- Scott
 - Second to South Pole
 - Every Member of the Team Perished



Luck...Skill...Preparation?

- David Breashears
 - Imax Filming from Mt. Everest
- Malcolm Daly & Jim Donini
 - Rescue on Thunder Mountain



Productive Paranoia

Productive Paranoia

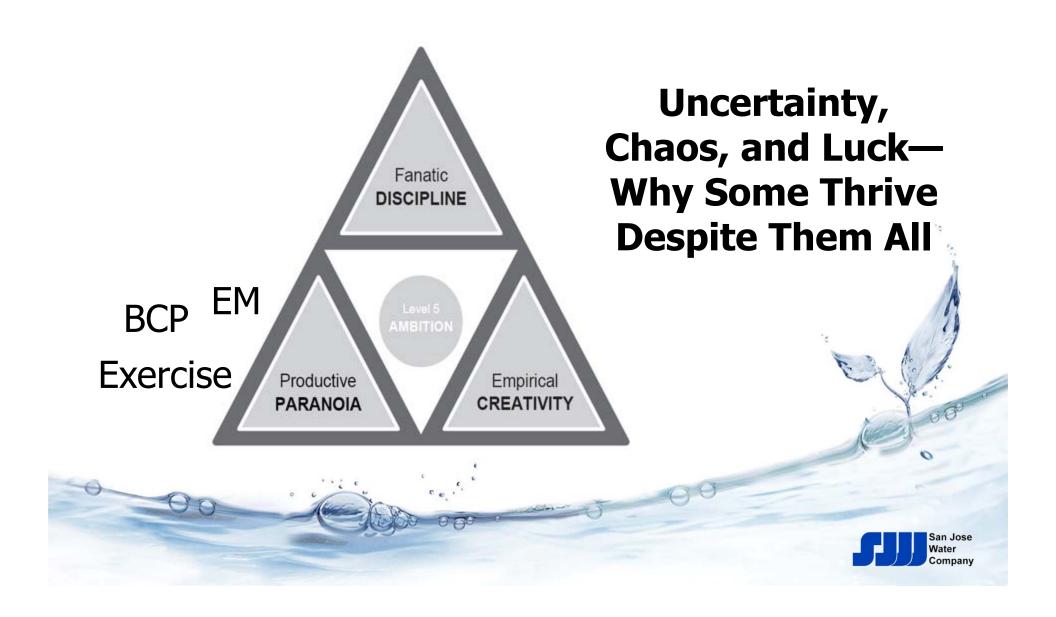
Paranoid behavior is enormously functional if fear is channeled into extensive **preparation** and **calm**, **clear headed action**. ~Jim Collins, Great by Choice

Productive Paranoia - Collins categorized successful leaders as "paranoid, neurotic freaks." They are always preparing for when, not if, the next big disruption is going to happen. They may be preparing for the worst -- one company he studied prided itself on predicting the majority of the recessions in the past several decades -- but their pessimism pays off.

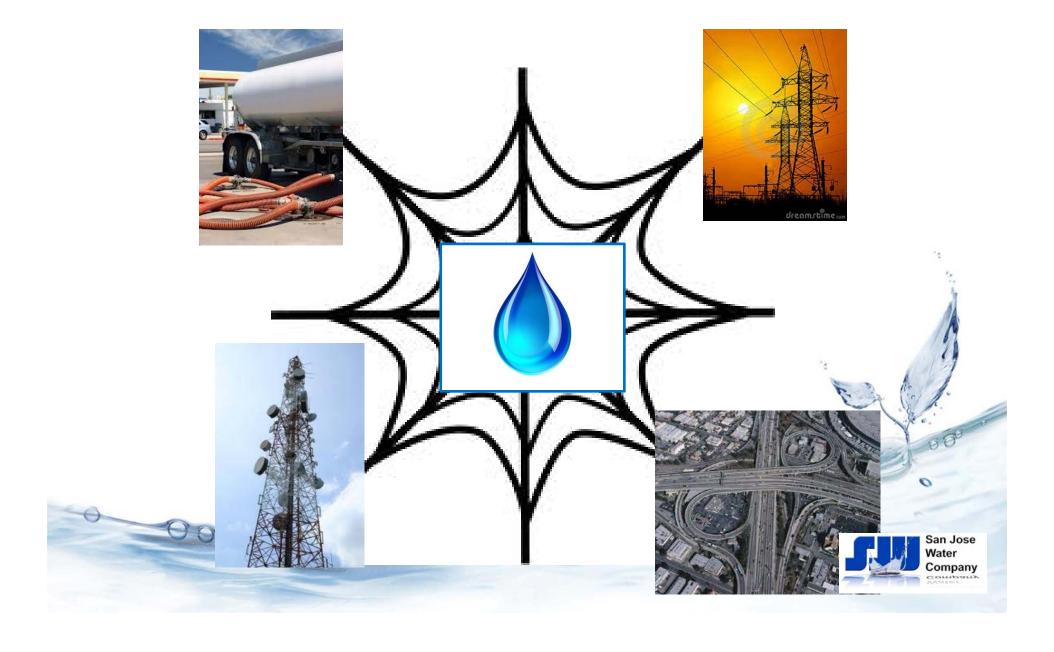




We are a Cornerstone of GBC Companies!



Critical Infrastructure Web



Challenge In Response and Recovery

- Fuel
- Parts
- Transportation
- Coordination

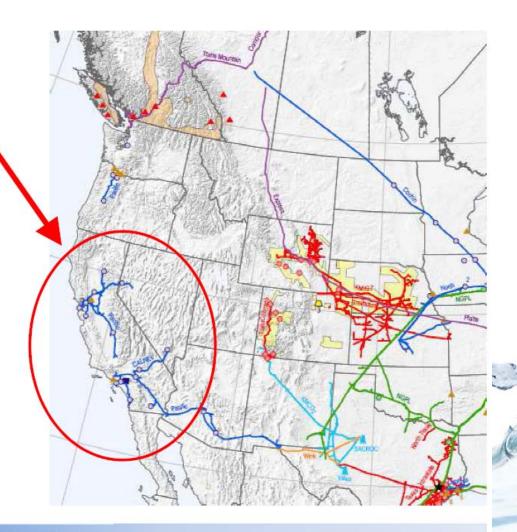


California Pipelines

• Kinder Morgan's
Southern California
system is not
connected to its
Northern California
system.

 Fuel re-supply by pipeline from Northern California not possible

 Tanker trucks quickest, viable option to bring in additional fuel





Los Angeles Refinery

- Refines about 363,000 BPD of Crude to Gasoline, Jet Fuel, Diesel, and Petroleum Coke.
- About 90% of crude converted to gasoline, jet and diesel
- Personnel: ~1450 employees

Site: 930 acres

WATER





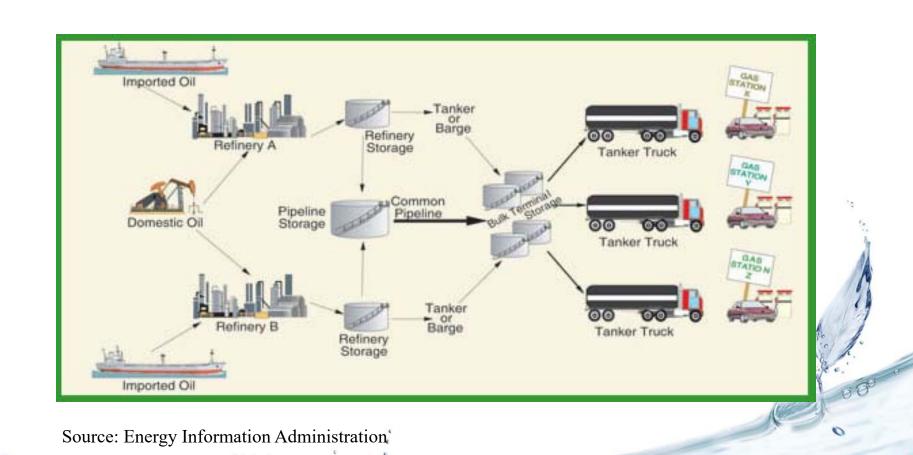


Water and Fuel Nexis

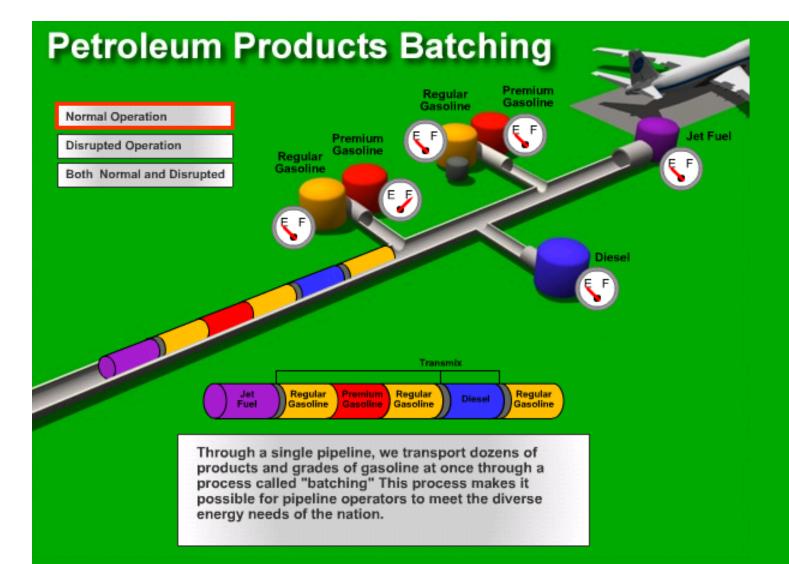
- No Cal Martinez refinery
- Total water consumption a little more than 3 billion gallons a year (BGY). Only about 2% is from well water, the rest is purchased from Contra Costa.
- So Cal Carson refinery
- Total Water a little less than 4.8 BGY. 1.3 BGY is well water and a little less than 1.6 BGY is reclaimed water from West Basin. 1.9 BGY is purchased from the CA water service company.
- So Cal Wilmington refinery
- Total Water about 1.9 BGY per year. Going forward we hope to get about 1.5 BGY from well water and the balance purchased from LADWP.



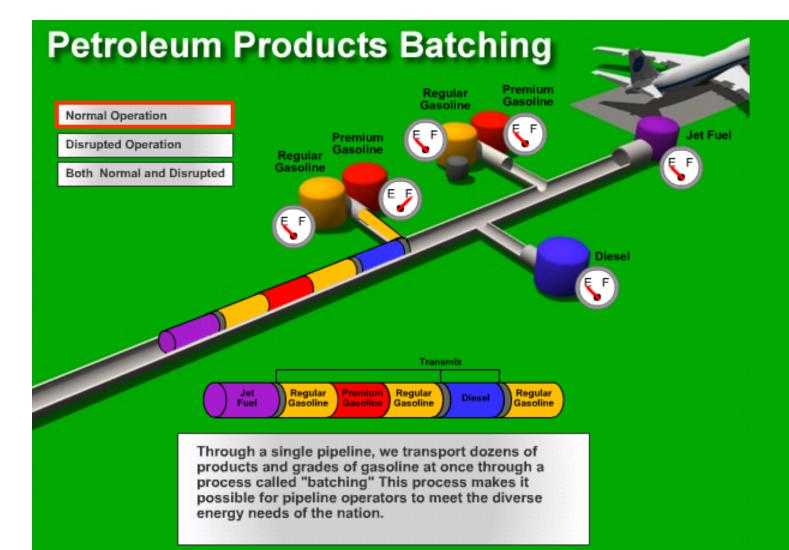
Transportation Fuel Infrastructure



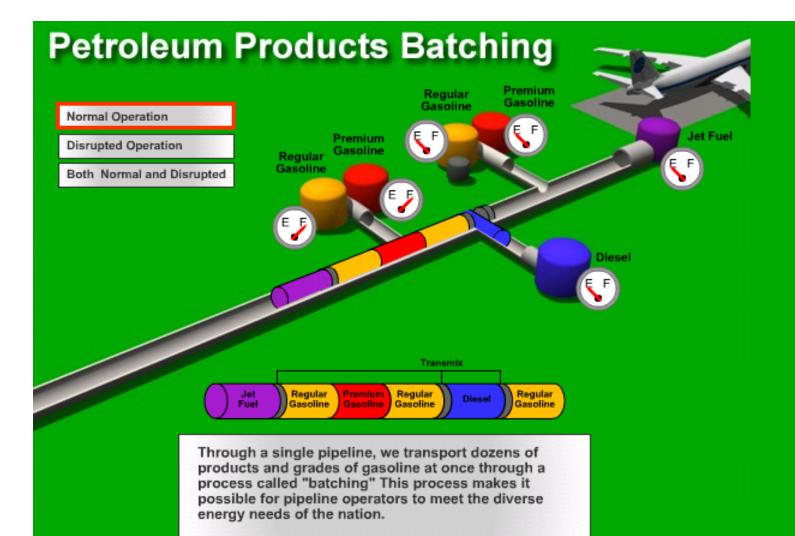




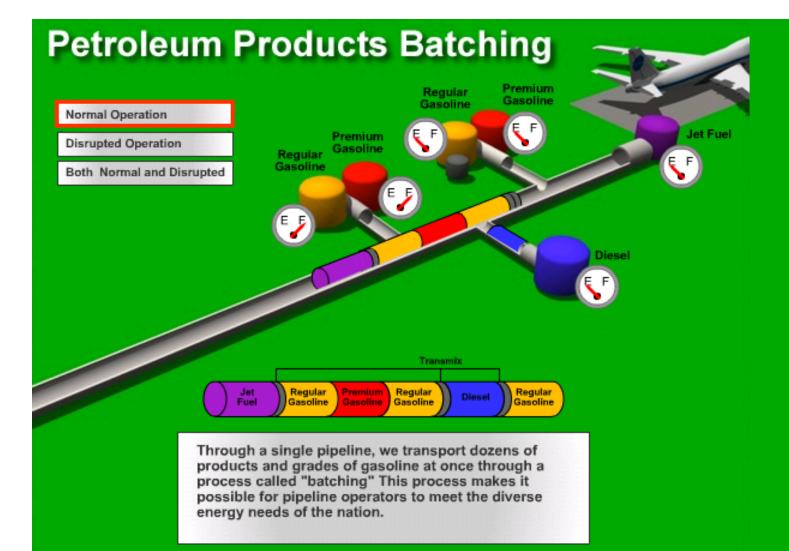




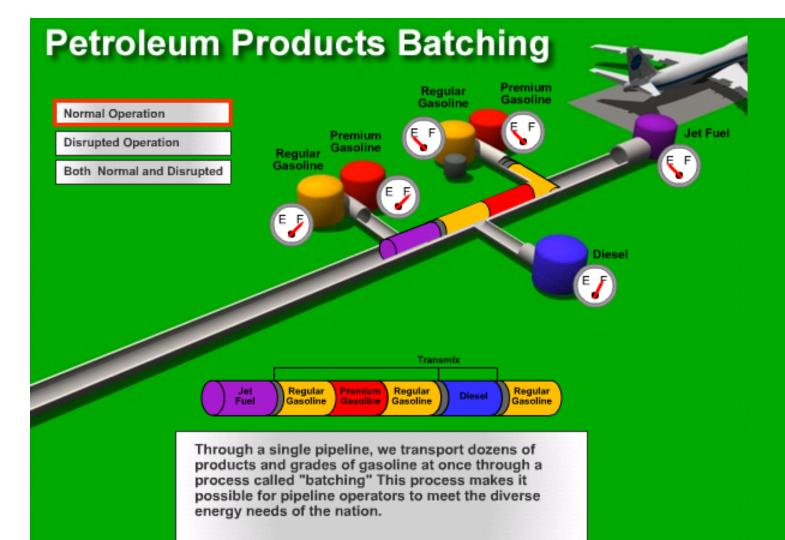




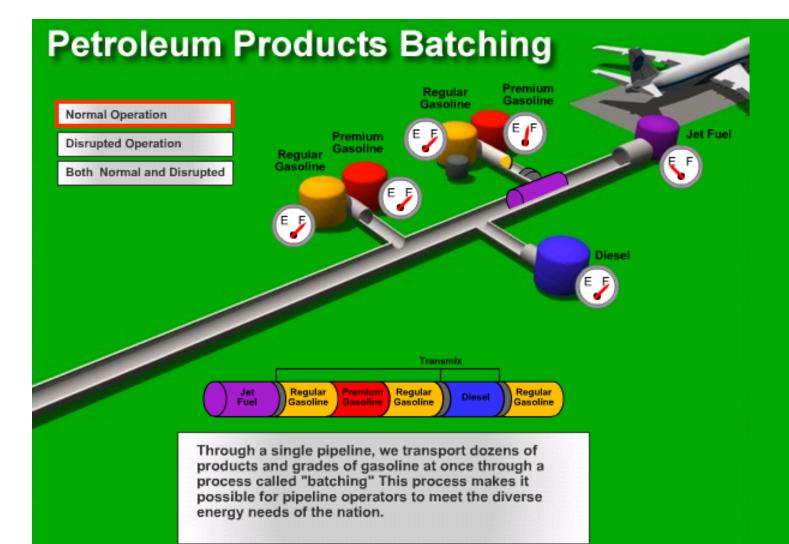




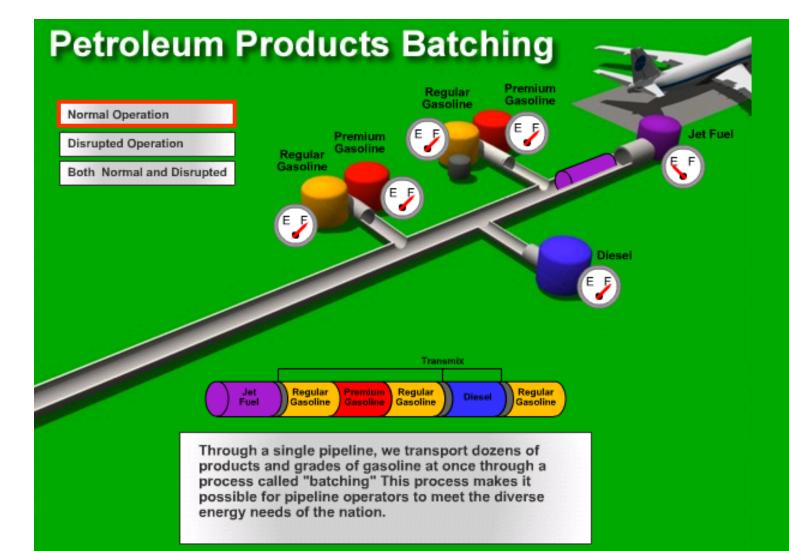




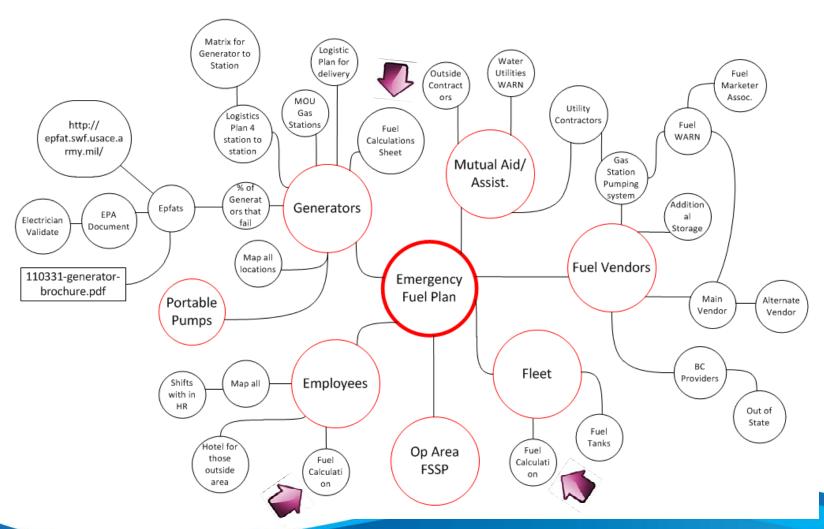








Key Components

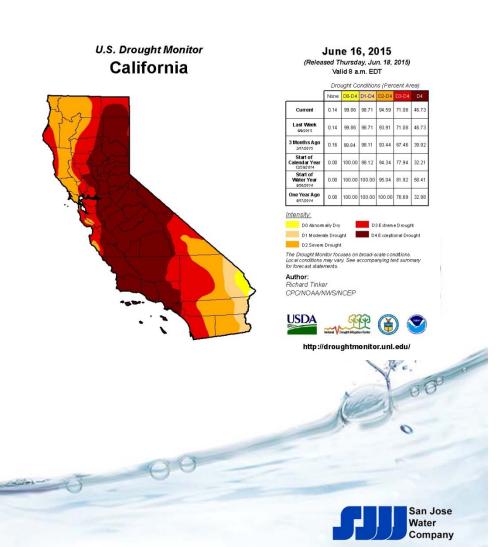






Drought

- Fourth year of historic drought
- Over 70% of California in extreme
- Governor orders 25% curtailment
- Utilities ordered to cut back 8%-36% based on gpcd



SJWC

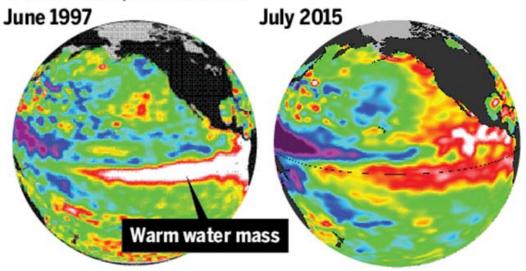
- 30% conservation target
- Mandatory rules mostly focused on outdoor watering
- Water allocations and surcharges for residential and landscape accounts
 - Indoor business use not affected



El Nino: Then and Now

El Niño growing

Although the trend could change in coming months, warming waters in the Pacific Ocean could bring soaking winter storms – as they did during the 1997-98 rainy season. Forecasters predict there is a greater than 90 percent chance that El Niño will continue in the Northern Hemisphere this winter.

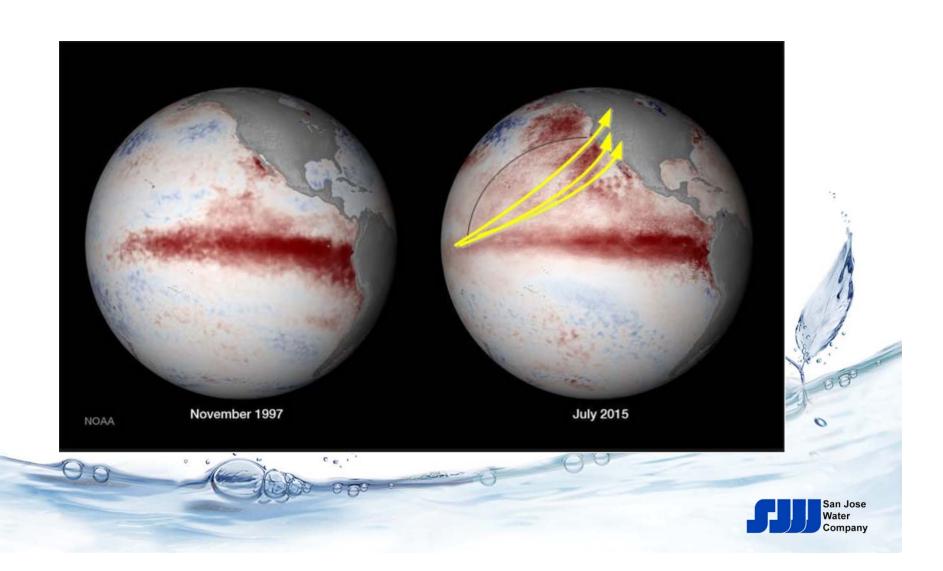


Source: NASA Jet Propulsion Laboratory

BAY AREA NEWS GROUP



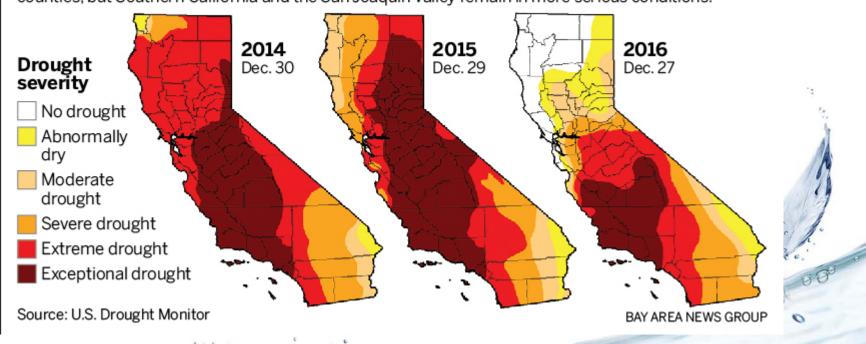
El Nino: Storm Path Options



California Drought

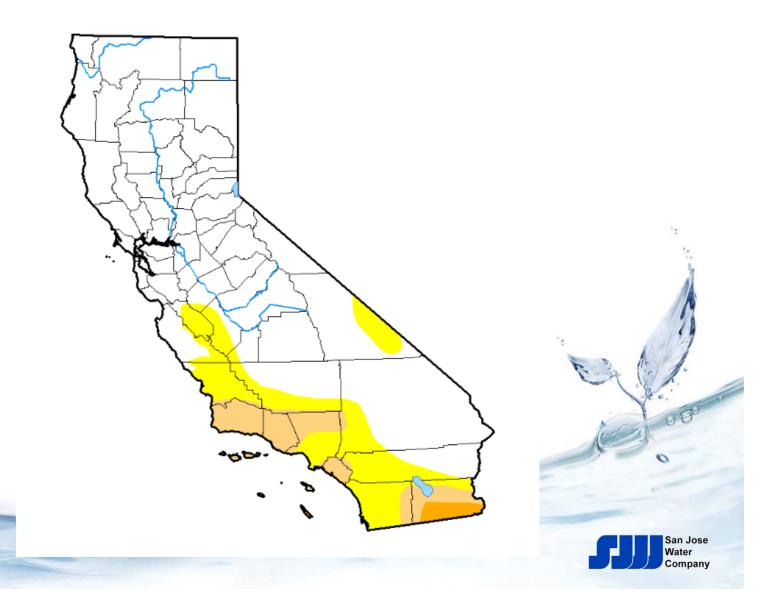
CALIFORNIA'S DROUGHT WEAKENS

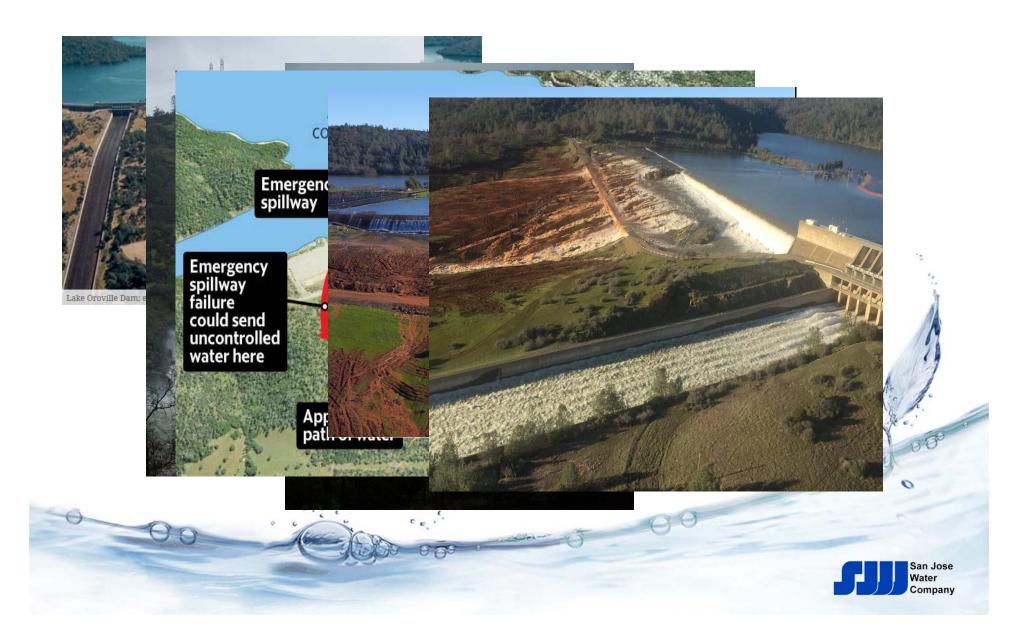
Steady rain since October and a near-normal winter last year have ended the drought in some northern counties, but Southern California and the San Joaquin Valley remain in more serious conditions.

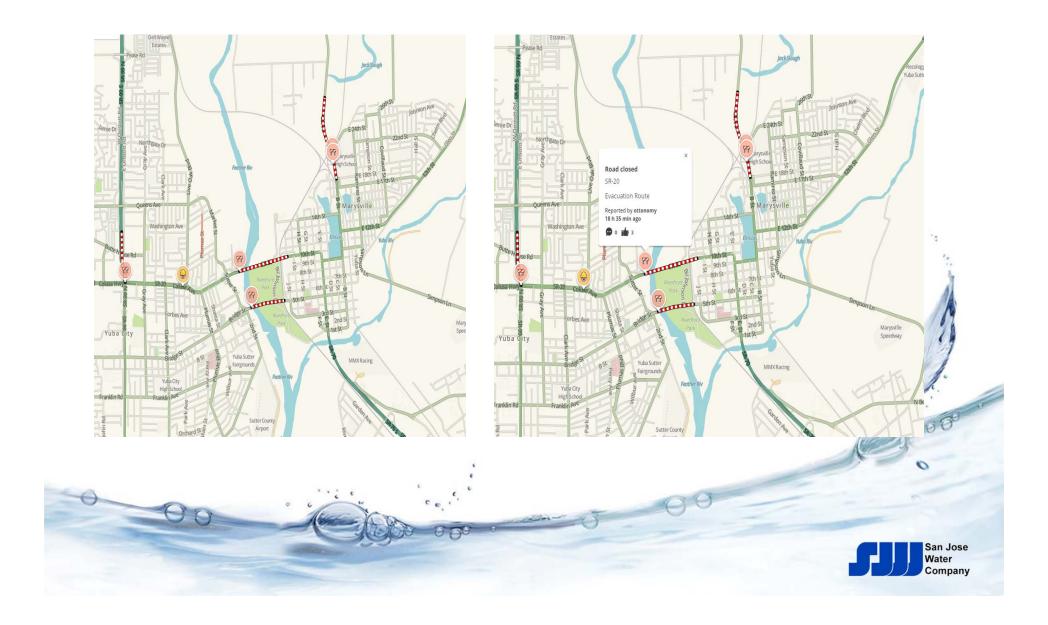




California Drought











A water main replacement is happening on Lenfest Rd from Mabury Rd to Nicora Ave from Tue, Feb 14, 2017 10:00 AM to Tue, Feb 14, 2017 4:00 PM

SJWC continually replaces our infrastructure as it reaches the end of its useful life to ensure we can continue to deliver safe, high quality, and reliable water. Water main replacements involve replacing existing water mains with new ones to improve water flow characteristics, enhance public health and safety, and deliver reliable wate...

See More



Main Replacement map and details

A MAP SHOWING THE APPROXIMATE EXTENT OF THE IMPACT.



Emergency

A leak repair is happening on Boynton Ave between Kiely Blvd & Akron from Mon, Feb 13, 2017 1:00 PM to Mon, Feb 13, 2017 4:00 PM

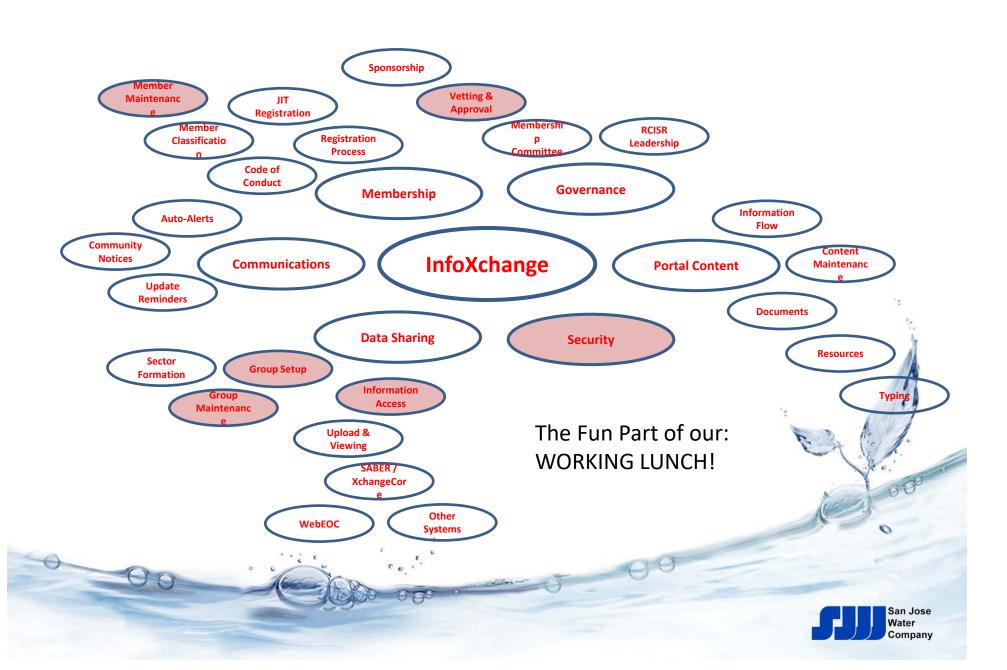
All water utilities experience leaks in their systems and according to a recent study, the average US water utility loses approximately 15% - 20% of its water to leaks. SJWC works very hard to minimize and quickly respond to leaks. Through very proactive water main replacement and leak repair programs, our water loss consistently ave... See More



Leak Repair map and details

A MAP SHOWING THE APPROXIMATE EXTENT OF THE IMPACT..





Business Community

- Landscape accounts subject to allocations and surcharges
- Proactive engagement to offer comprehensive water conservation program
 - Water audits
 - Rebate programs
 - Conservation information



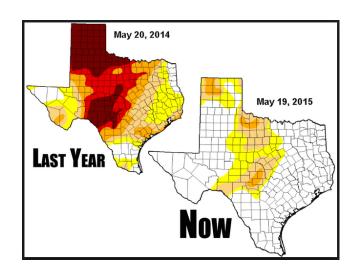
What can we do better?

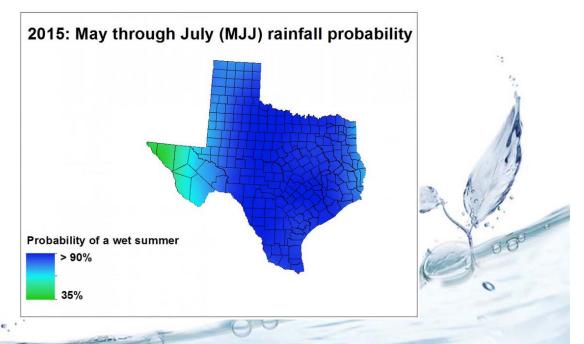
- Engage all stakeholders
- Fast-track development of alternative water supplies (recycled water)
- Leverage technology (AMI) to maximize conservation potential





From Fire to Flood





The Wildland Fire Threat

- Drought ScenarioPlanning
 - Wild Land Fire Planning
 - Table Top Exercises
 - Field Meetings
 - Response Review
 - Communications Plan





Fire Emergency Response Planning



What is a WARN?

- Water And Wastewater Utilities
 - Signed an agreement
 - Voluntarily share resources following disaster
- No cost to join
- Consistent with NIMS/ICS Principles
 - Mutual Aid and Assistance
 - Standardized Emergency Management System
- CalWARN
 - 325 plus signatory agencies
 - Model for a National WARN movement following Hurricane Katrina
 - Now 49 of 50 States have WARN organizations



UTILITIES HELPING UTILITIES:

AN ACTION PLAN FOR MUTUAL AID AND ASSISTANCE NETWORKS FOR WATER AND WASTEWATER UTILITIES

By Kevin Morley, American Water Works Association and Ray Riordan, California Utilities Emergency Association

An ounce of prevention is worth a pound of cur



Advocacy Communications Conferences Education and Training Science and Technology Sections



Mutual Aid and Assistance Mission

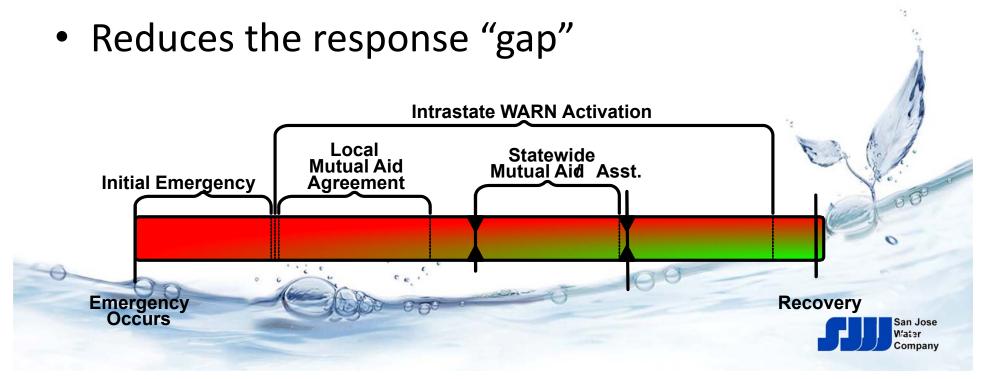
- Share Qualified Personnel and Equipment (Portable)
 - Operations
 - Maintenance
 - Treatment
 - Management
 - Customer Service
 - Laboratory
- Only ONE Limitation
 - Commodity
- Promote Preparedness and Readiness





WARN Bridge

- Includes public AND private utilities
- Operates utility to utility for small local events
- Large events coordinated with emergency management



CalWARN Regions

California Regions



Multi-Agency Emergency Drinking Water Guidance

- Post Earthquake Need
 - 1994 Northridge Earthquake
 - 2007 post BASIC exercise
- Collaboration of State, Local Agencies and Water Utilities
- Developed process
 - Identify water need
 - Identify process for requesting support
 - Identify need for Points of Distribution
 - Recognized the collaboration required







Multi-Agency Response Guidance For Emergency Drinking Water Procurement & Distribution

Arnold Schwarzenegger Governor State of California

Henry Renteria Director Governor's Office of Emergency Services



2nd Edition June 2007





Successful Uses of WARN

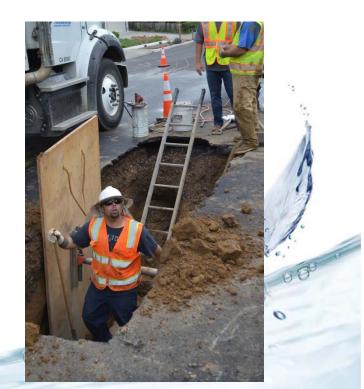
CalWARN

- Northridge Earthquake, 1994
- El Nino Storms, 1998
- Sonora Fires, 2001
- Southern California Fires, 2007
- Baja California Earthquake, 2010
- Napa Earthquake, 2014

COWARN

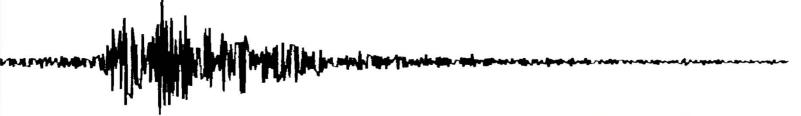
- City of Alamosa Salmonella outbreak, 2008
- FlaWARN
 - Hurricanes Katrina, Wilma and Rita, 2005
 - Tornadoes, 2007
- ORWARN
 - Detroit Blizzard 2008
- TNWARN, INWARN, KYWARN, AKWARN
 - Ice Storm February 2009
- TXWARN
 - Rain Storms and Hurricane Humberto, 2007
 - Hurricane Dolly and Ike, 2008

This list includes only the major documented cases of WARN activation







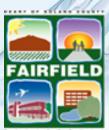






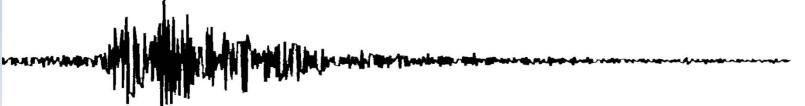


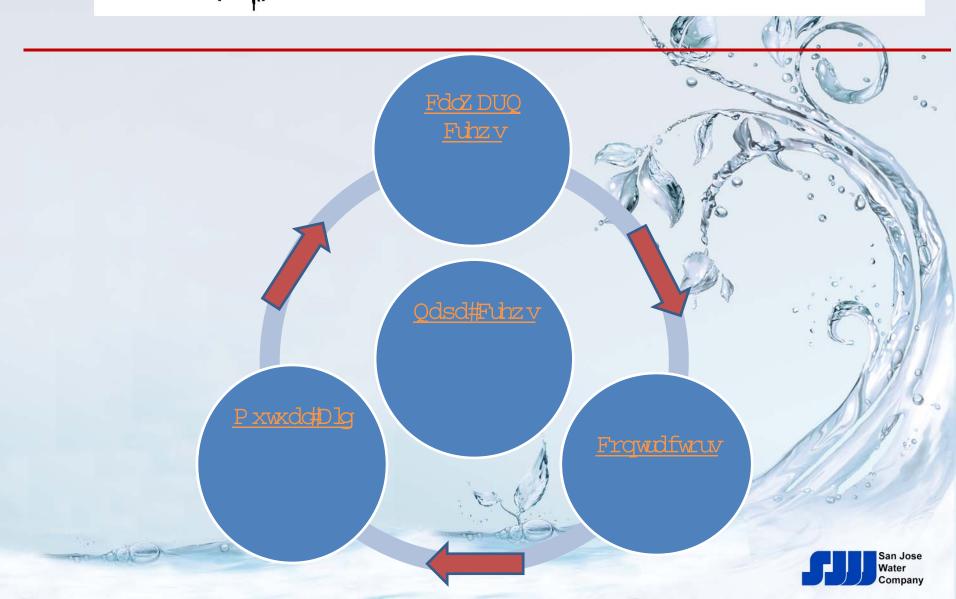


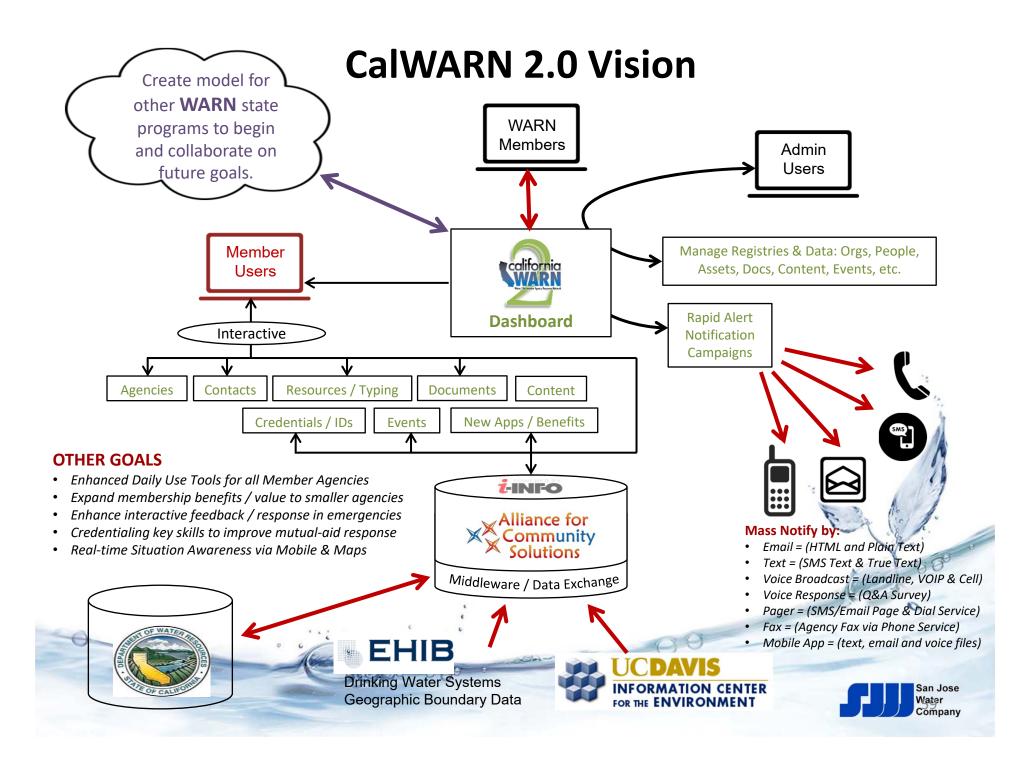




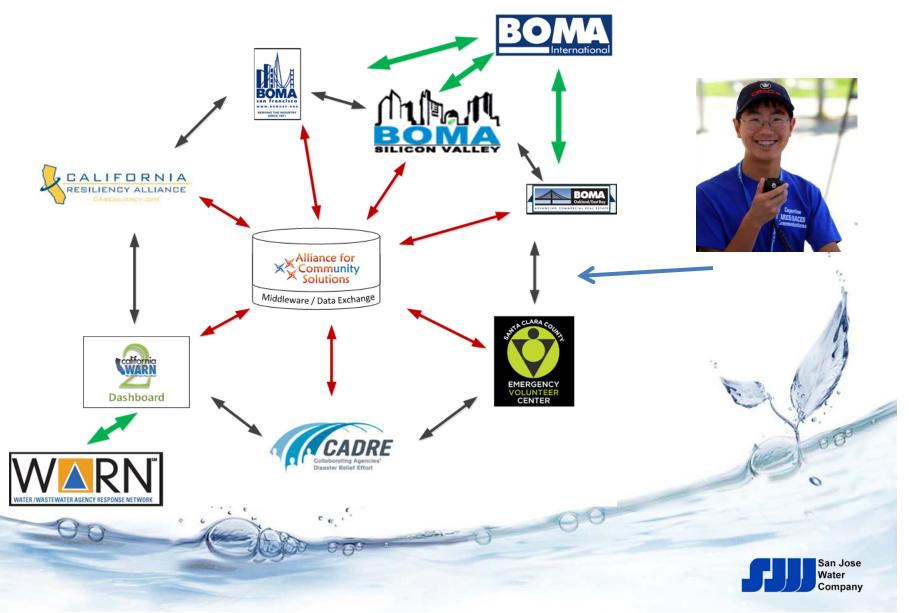








The Great Mutual Assistance Network



Contact

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www.sjwater.com

