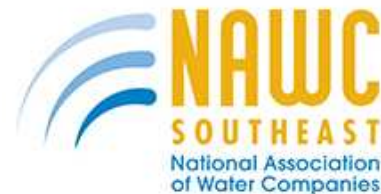


ABENGOA

We produce
water for a
sustainable
world

ABENGOA WATER

A Role for the Private Sector
In Water Infrastructure



April 2015

ABENGOA

Overview

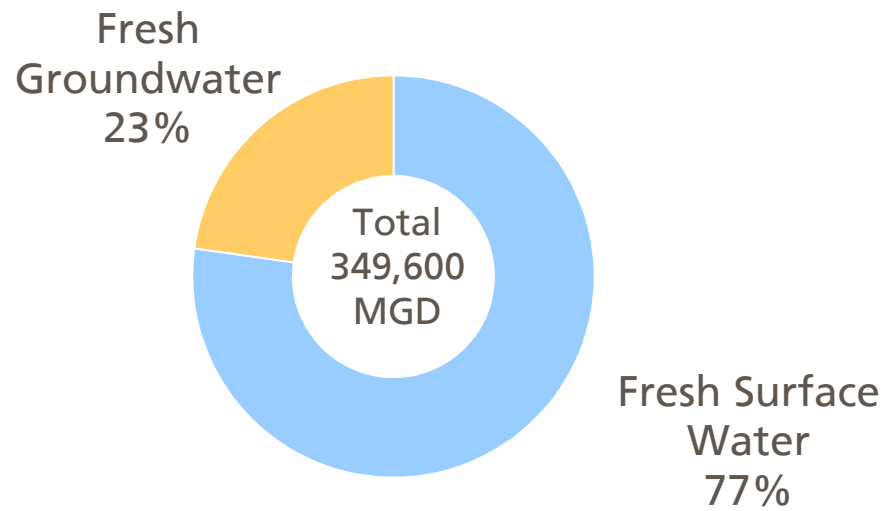
- Water Supply 101
- Vista Ridge Case Study

Water Supply 101

- Predominance of surface water
- Historical perspective



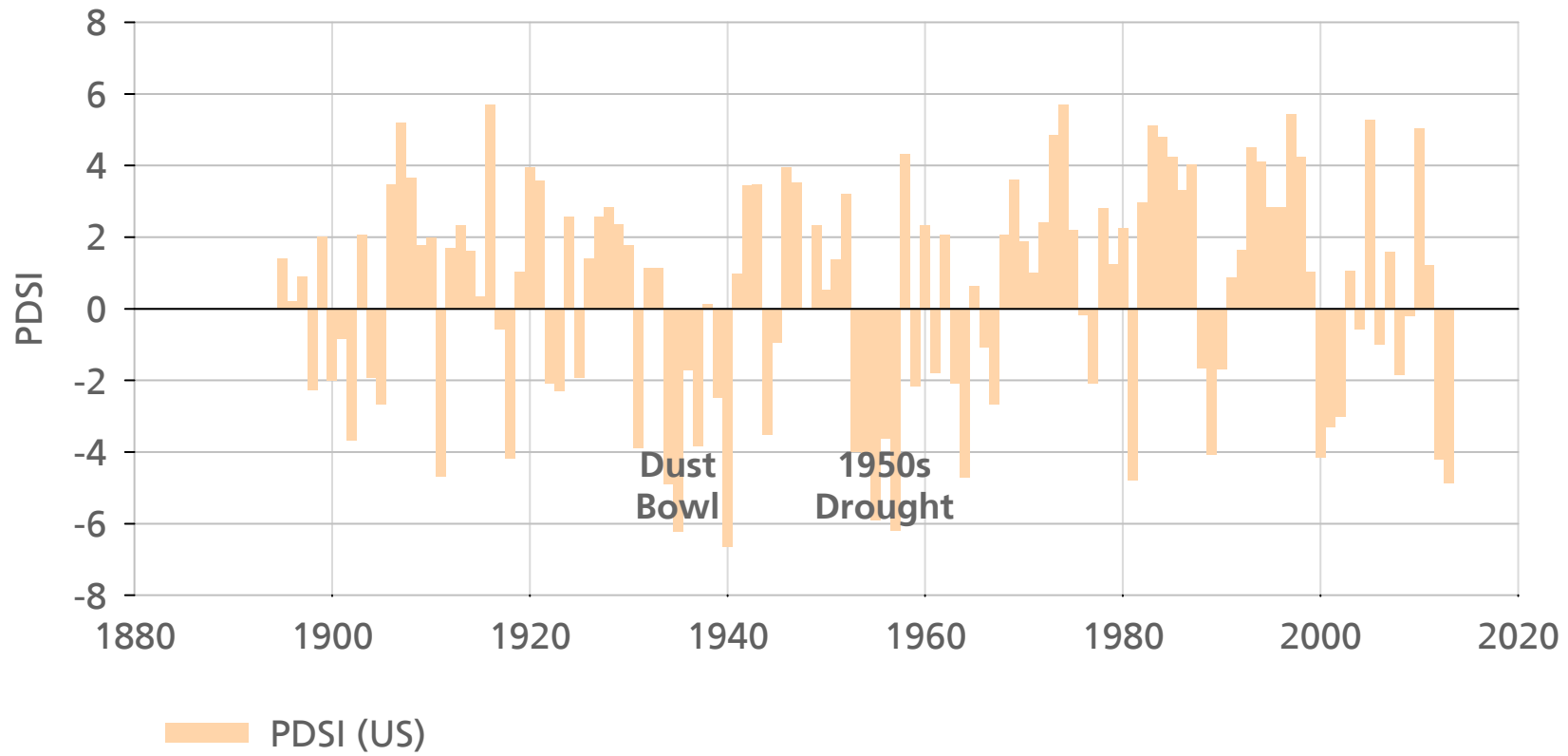
Source: US Bureau of Reclamation (1940)



Total U.S. Water Withdrawals

ABENGOA

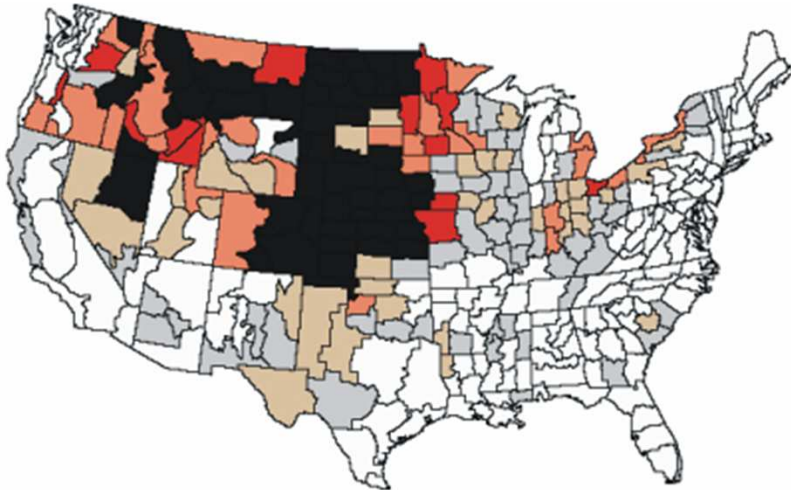
Water Supply 101



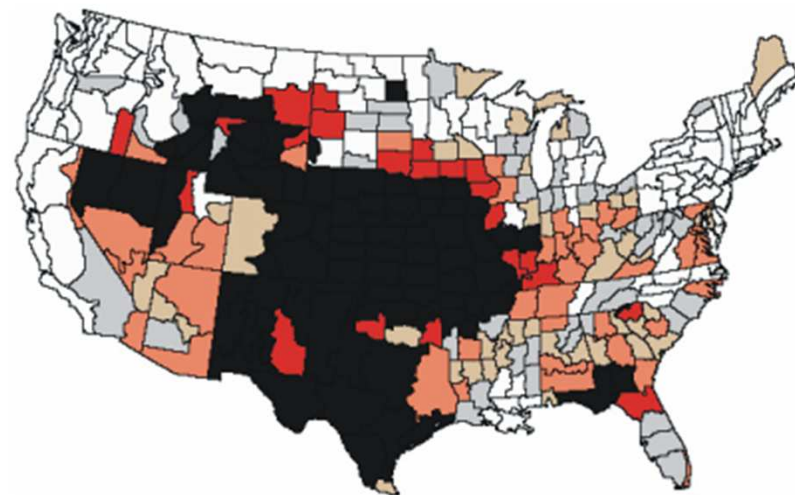
Source: NOAA 2014

ABENGOA

Water Supply 101

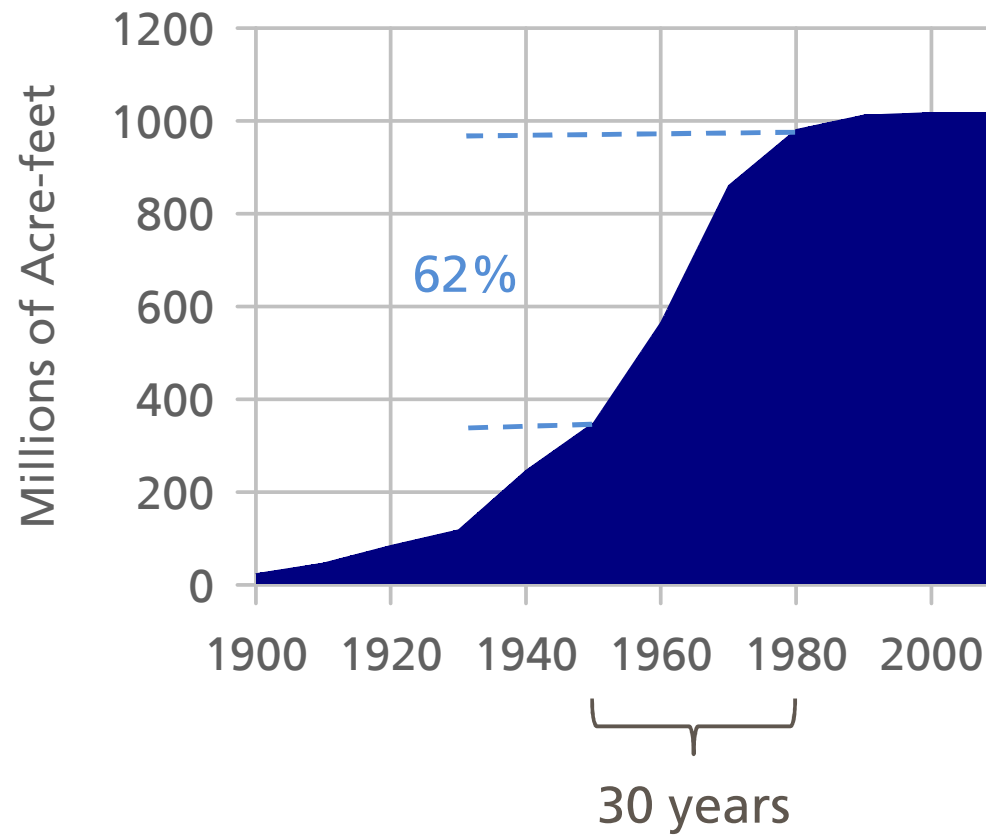


1934 to 1939

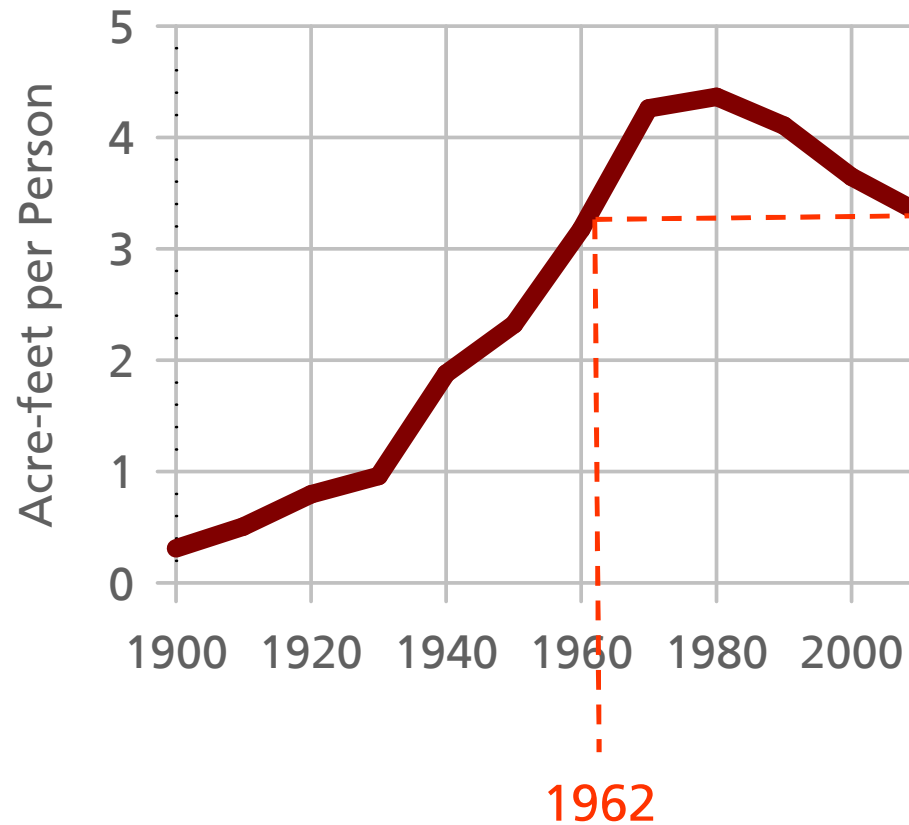


1954 to 1956

U.S. Reservoir Storage Capacity



U.S. Reservoir Storage Capacity per Capita



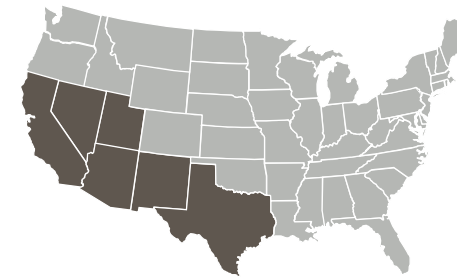
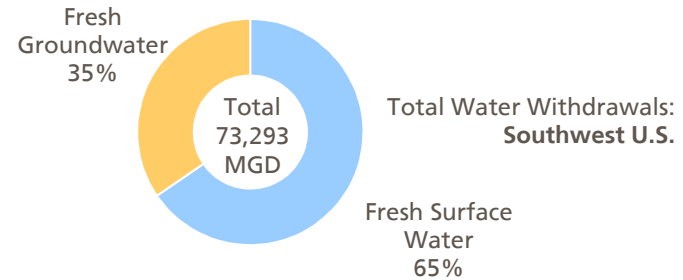
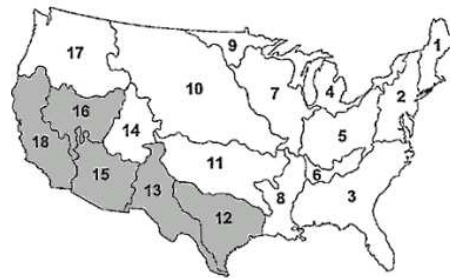
ABENGOA

Water Supply 101

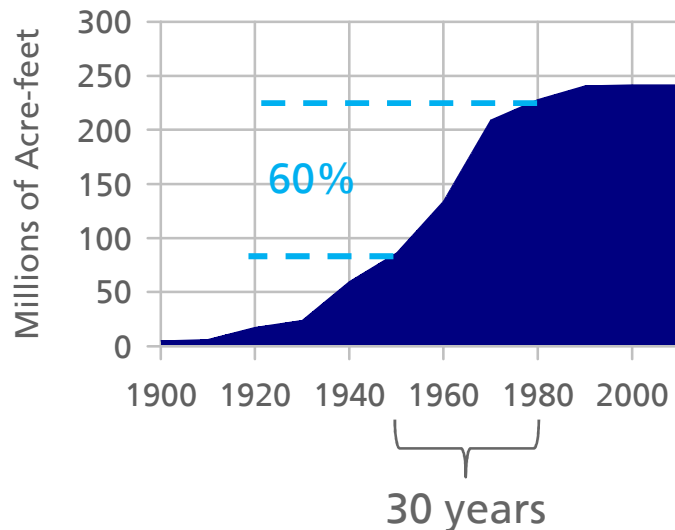
Southwest

Major River Basins

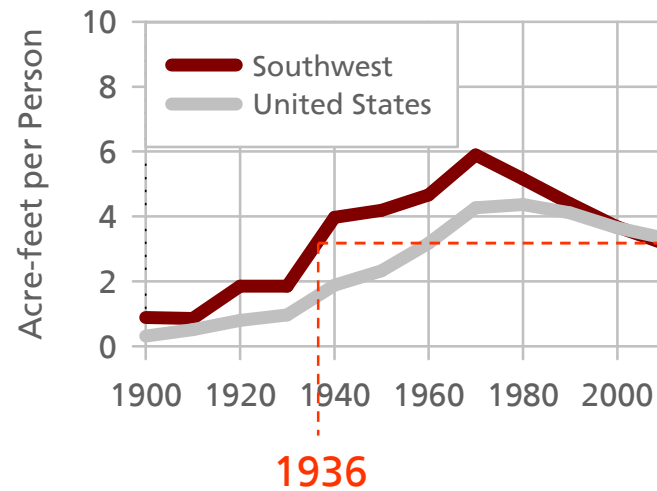
- 12 Texas-Gulf
- 13 Rio Grande
- 15 Lower Colorado
- 16 Great Basin
- 18 California



U.S. Reservoir Storage Capacity



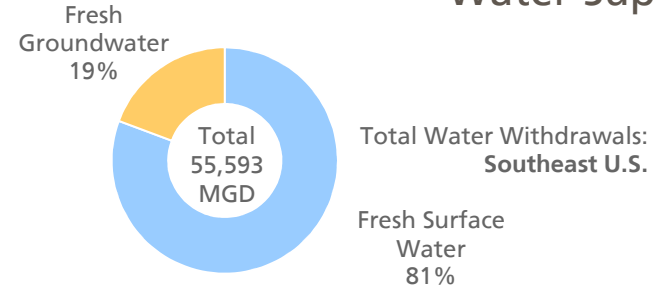
U.S. Reservoir Storage Capacity per Capita



ABENGOA

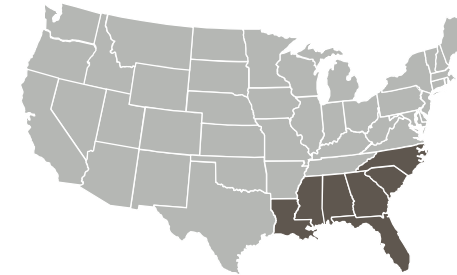
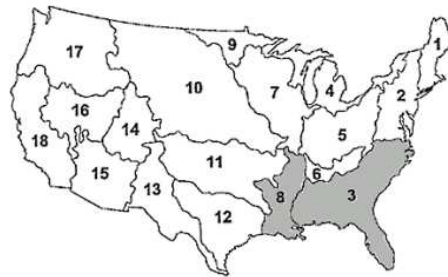
Water Supply 101

Southeast

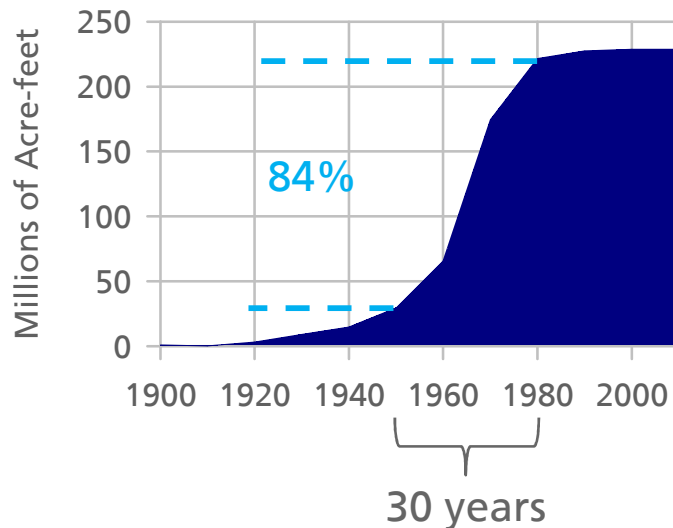


Major River Basins

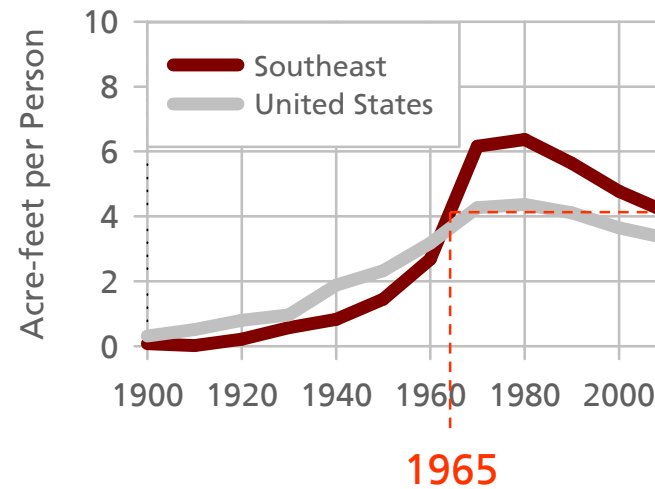
- 3 South Atlantic-Gulf
- 8 Lower Mississippi



U.S. Reservoir Storage Capacity

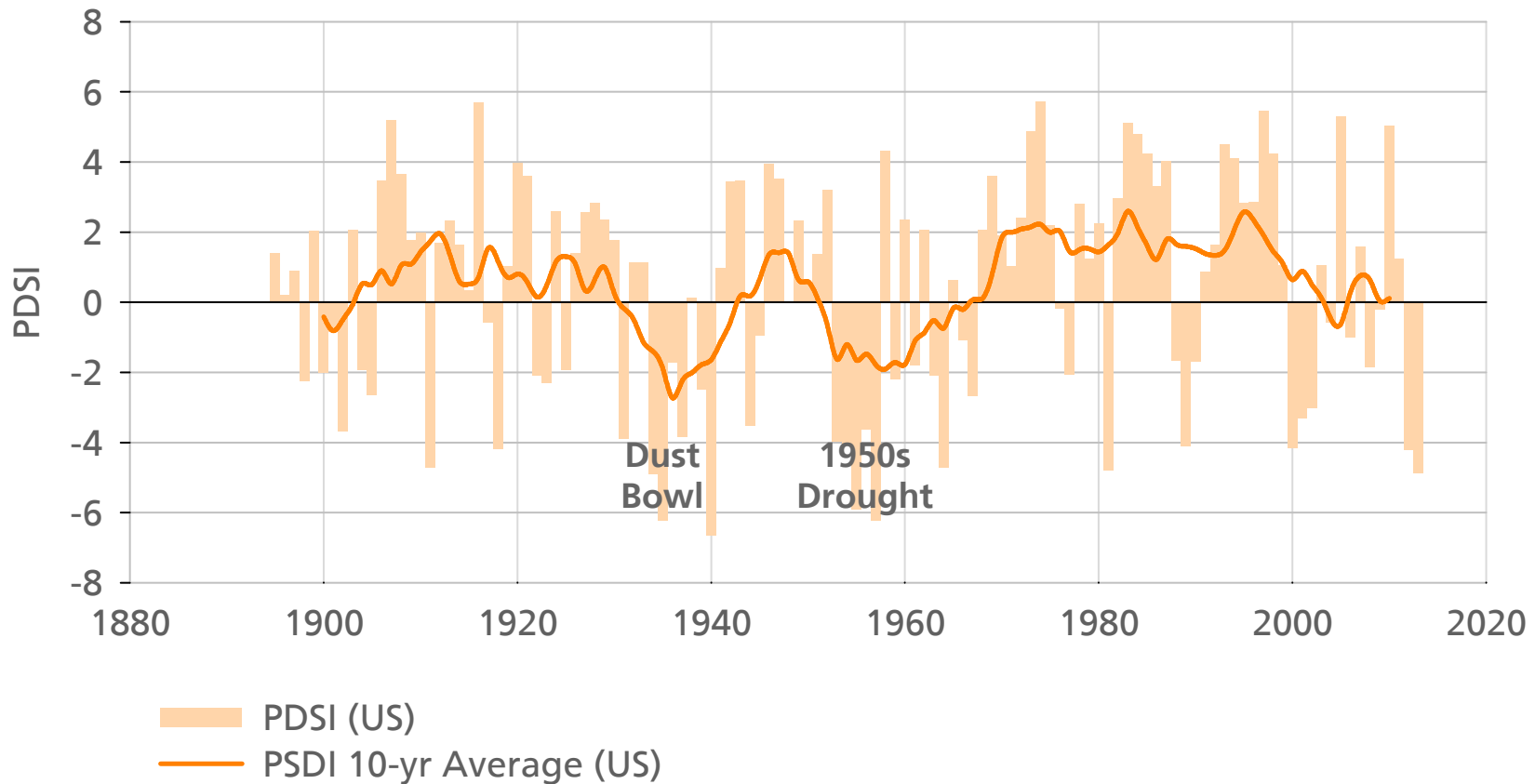


U.S. Reservoir Storage Capacity per Capita



ABENGOA

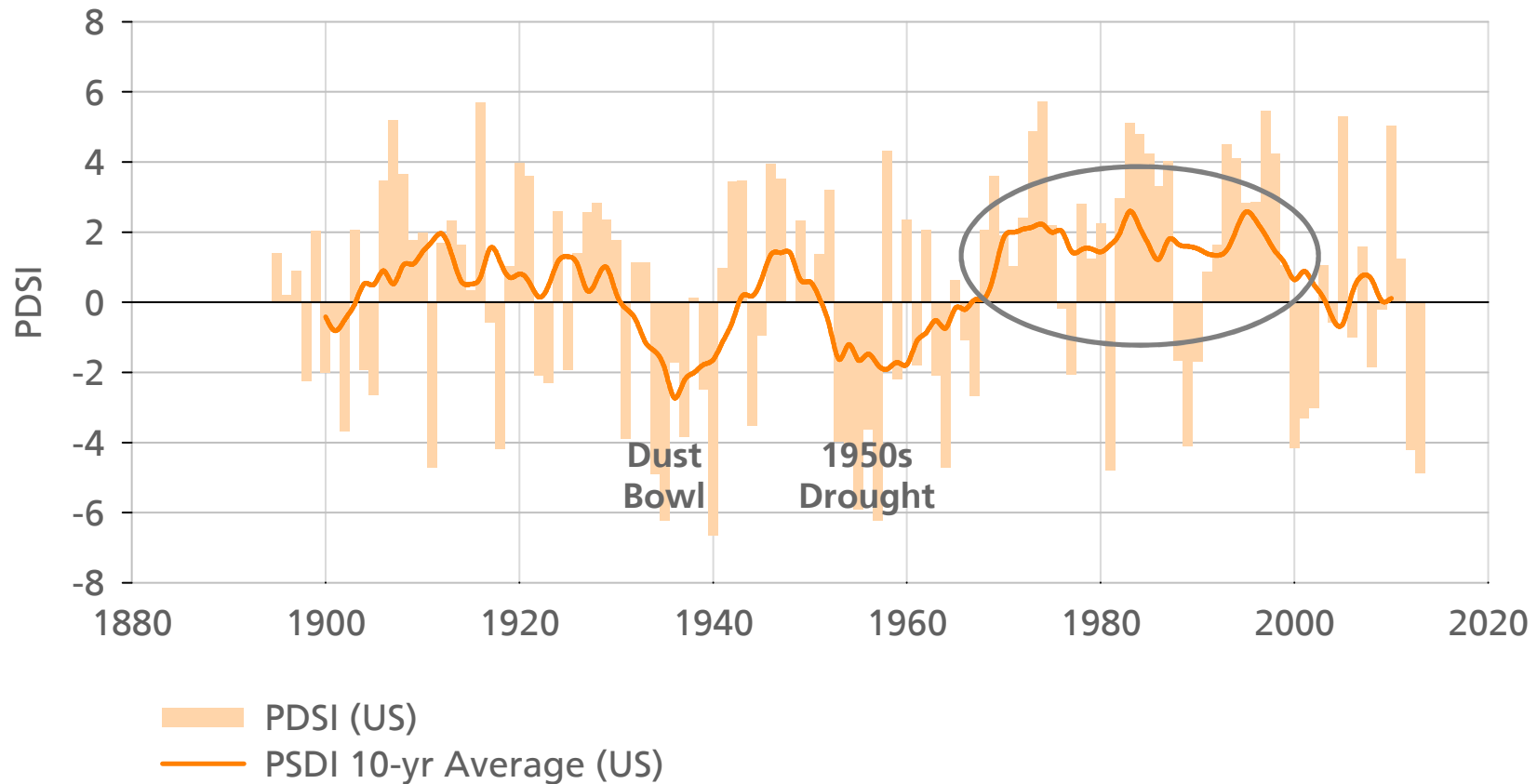
Water Supply 101



Source: NOAA 2014

ABENGOA

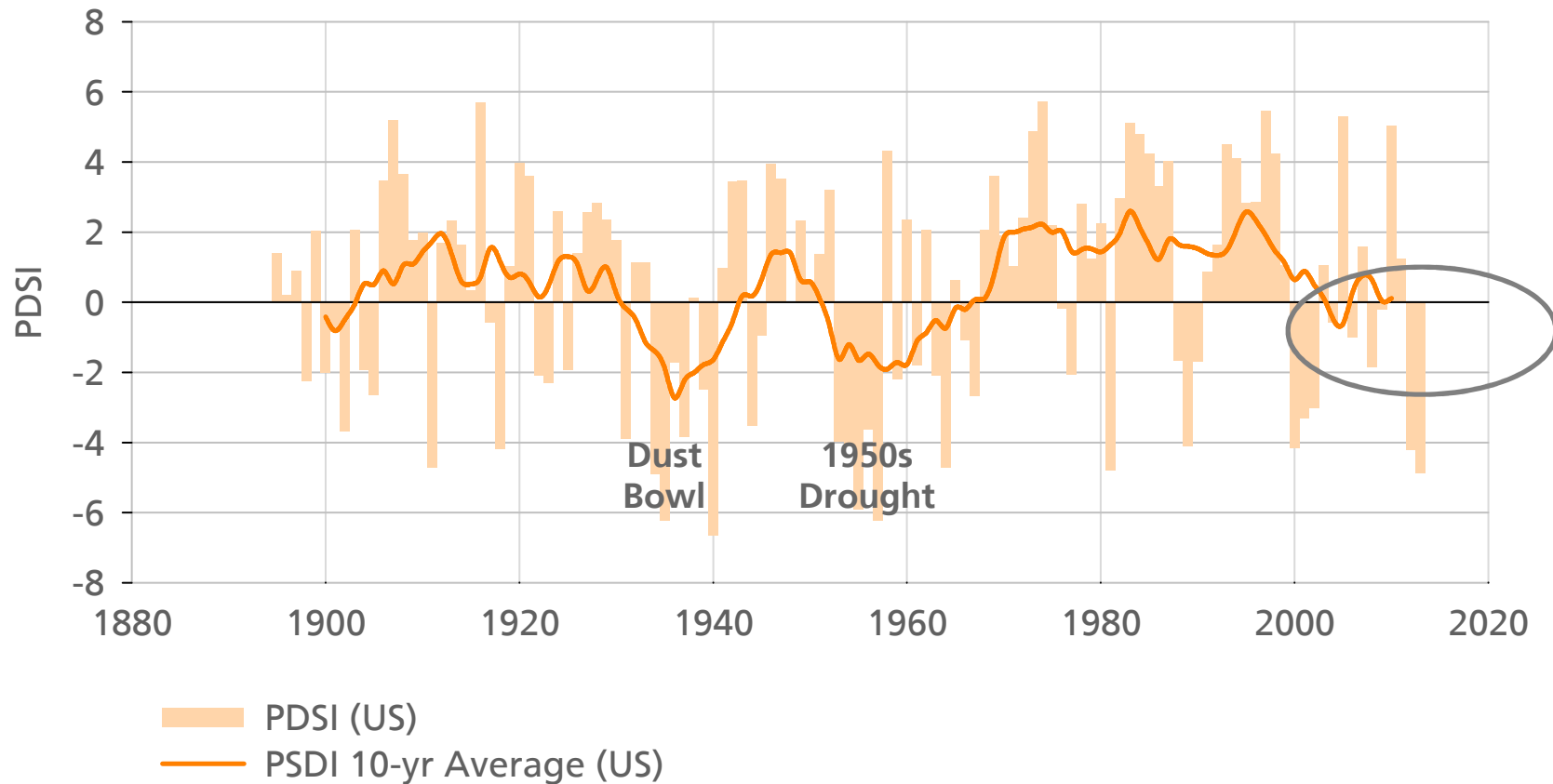
Water Supply 101



Source: NOAA 2014

ABENGOA

Water Supply 101



Source: NOAA 2014

Case Study

- Public vs. Private perspective
(funding \neq financing)
- Vista Ridge:
The Solution for
San Antonio



**Water
Supply**

Infrastructure



**Demand for
Water**

**Public
Funding**

- Permitting and Compliance
- Design and Construction
- Operations and Maintenance

**Water
Supply**

Infrastructure



**Demand for
Water**

Public Funding

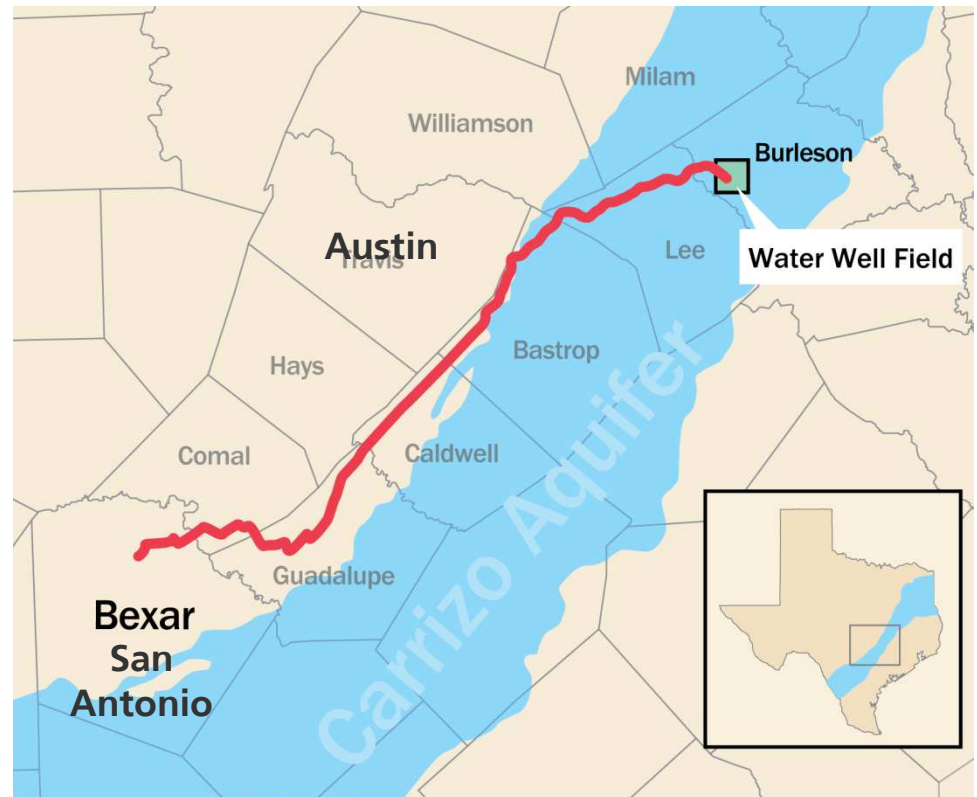
- Permitting and Compliance
- Design and Construction
- Operations and Maintenance

Private Financing

- | | | |
|--------------------------------------|-------------------------------------|---------------------------------|
| ➤ Hydrology | ➤ Permitting and Compliance | ➤ Client's Credit Rating |
| ➤ Water Rights (ownership) | ➤ Design and Construction | ➤ Contract Performance Measures |
| ➤ Permits (production and transport) | ➤ Operations and Maintenance | |
| | ➤ Track-record of project developer | |

Vista Ridge Project

- 45 MGD of private groundwater
- 18 production wells and 143-mile pipeline
- Turn-key private delivery (DBFOOT)
- \$844 M total investment



Vista Ridge Project

- 60-year contract term
- Customized risk allocation
- Unanimous approval of final contract by SAWS Board and City Council

5 An Ordinance authorizing approval of the proposed

Vote Type: Motion to Approve

Yes: 11 Nay: 0 Abstain: 0 Absent: 0 Did Not Vote: 0

Name	Yes	Nay	Abstain	Absent	No Vote
Ivy R. Taylor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diego Bernal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Keith Toney	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rebecca Viagran	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rey Saldaña	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shirley Gonzales	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ray Lopez	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cris Medina	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ron Nirenberg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Joe Krier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Michael Gallagher	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Motion: Joe Krier