



SOLVE THE WATER CRISIS ACT NOW TO SECURE CALIFORNIA'S FUTURE.

Crisis

Agenda Item 4.A.



Solve the Water

Presentation by Western Municipal Water District

- Craig Miller, General Manager
- Western Municipal Water District
- OWOW Steering Committee | November 17, 2022



SOLVE THE WATER CRISIS MISSION

Solve the Water Crisis, through a critically needed statewide education effort, brings into sharp focus the ongoing water supply crisis that is already impacting residents' quality of life, economic growth, community health, and the environment, as well as risking California's future.

By raising awareness among California policymakers and thought leaders, Solve the Water Crisis will inform policymakers of the enormous water supply crisis and the urgency that requires bold and immediate State action to secure California's future.



SOLVE THE WATER CRISIS **Growing Participation**

80+ INTERESTED AGENCIES COLLABORATORS

- California Business Roundtable
- Western Growers \bullet
- California Building Industry Association \bullet
- Association of California Water Agencies
- California Municipal Utilities Association \bullet
- Southern California Water Coalition \bullet

TARGET PARTNER LIST

- **Business Chambers**
- **Cities and Counties**
- **Civic Agencies** \bullet
- Environmental \bullet
- Labor \bullet
- Recreation
- **Social Justice**
- Tourism \bullet

26 MEMBERS

- Camrosa Water District
- City of Corona
- Coachella Valley Water D
- East Valley Water District
- El Dorado County Water
- Eastern Municipal Water
- Elsinore Valley Water Dis
- Inland Empire Utilities Age
- Irvine Ranch Water Distric
- Jurupa Community Servic
- Las Virgenes Municipal W
- Mesa Water District
- Municipal Water District of Orange County
- Olivenhain Water District
- Puente Basin Water District



ACT NOW TO SECURE CALIFORN

	•	Rancho California Water District
	•	Riverside Public Utilities
is tric t	•	Rubidoux Community Service District
	•	San Bernardino Municipal Water District
Agency	•	San Bernardino Valley Municipal Water
District		District
trict	•	San Juan Water District
ency	•	Temescal Valley Water District
et	•	Three Valleys Municipal Water District
es District	•	Turlock Irrigation District
ater District	•	Valley Center Municipal Water District
	•	Western Municipal Water District
f Orango County		

OUR WATER FUTURE DOES NOT LOOK GOOD



Residents, businesses, and policymakers do not understand the severity of California's ongoing and systemic water supply crisis.



CURRENT STATE PRIORITIES



Urban conservation

Intensify environmental and regulatory mandates

Shift water supply burdens to local agencies

Demand affordability despite increasing costs

According to a recent PPIC poll, "drought remains the dominant environmental issue for Californians." Just as important, a majority of Californians, nearly 70 percent "don't feel that government is doing enough to combat the drought."



Governor Newsom's New Water Supply Plan

Water Agencies Applaud Governor Newsom's New Water Supply Strategy



Adapting to a Hotter, Drier Future



- Great step forward
- through

Supportive sentiment Applaud leadership, recognition of urgency and need Need for continued work and follow



OBJECTIVES



CREATE THE ENVIRONMENT FOR SUCCESS.



AGRICULTURE HIT HARD



0% allocation on CVP and 5% allocation on SWP (2022)



\$1.7 billion revenue loss



14,600 jobs lost



5

395,000 acres left dry and unplanted

Food security











URBAN LOSSES



- SWP cutback from 5MAF to 250,000 AF
- (2)
- Southern CAloss of 1.9MAF from SWP



- Colorado River cuts coming so it can't make up the difference
- (4)
- Coastal Commission denied HB desal permit



(6)

Recycled water effectively committed



State needs roughly 20MAF of new supply – where do we go for this water?











SOLUTIONS

Educate key audiences on solutions to address the state's water supply and reliability issues, including statewide and long

More surface and groundwater storage

Improved inter-regional and localconveyance

Creative regulatory solutions such as the voluntary agreements

- term benefits of solutions.



New supply including investments in local water infrastructure, such as groundwater recharge, desalination, and recycling



TARGET AUDIENCE

(......

Legislators

Newsom Administration

Regulators

- Water Champions
- Legislative Leadership
- Water and Budget Committees

- Policy
- Finance
- Communications
- GoBiz

- Resources Agency
- Department of Fish and Wildlife
- Department of Water Resources
- State Water Resources Control Board





ACTIVITIES

Media Engagement Stakeholder Education Digital Ad Campaign Sacramento Engagement





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Arc 1, 2022

Coverner, State of Californi 1021 C Street, Ste. 9000

te Honorable Anthony Ren

The Honorable Toni Attins President Pro Tempore, California State Senat 1021 O Street, Sta. 7730 Sacramonia, CA 55524

Sacramiento, CA 55554

21 0 Silvert, Str. 5590 cramento, CA 55834

Dear Governor Newson, Pro Tem Atkins and Speaker Rendor

As write managers from across the state, who have the responsibility to plan and provide for our outporter in suster factors, we have as larger manager. We used new write now. Our collective ability to provide water supply and supply reliability for your constituents, and California's versions, is entipping and is a criter that states the super fixed accord to ourse.

eliferated secting water system to no large defauer the asset necessary to exercise california. If an integrate constraints of a start of the system constraints of the system constraints of the system of the syst

Later the sear, A is Medy that some mater againets will be forced to call back, or considerly out off, water supplies to commend and industrial outcomers. New will be been supplied in their solar or a brevery make been welf-and ware? They waith "they is more through outcomers matter on so.

This is a crisis brought about by not investing in adapting our intrastructure to the new hydrology climate change has already vacually. When such mechanists in restormed be capability to meet the ready of source, public health, and the operating we will not have the known to started already for thinky structured water reserves we address address any environmental management buildings.

The Governer just proposed (2 billion in this year's todget on water related handley, with a more \$500 million for shradget values atomage over multiple years, which basely controls that a strateget of what's needed. The Senabel's proposed (37.5 billion over three years on water related issues it an improvement, but indicative of implands protection in the two of the water supply inits, the Nager's formed investment would be specified (31.5

The defaults were strong a over multiple years, which have a periodic the actions of works measure families proposed \$75.5 billing over three pairs on same related inner it an improvement, but but employed provides in the families same range years, the biggest families insertions are able to applied provides in the families and the same range years.

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Governor, State of California State Capitol National IX 99211

Dear General Revelan.

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OPED: California's Water Supply Crisis Is Much More Than This Drought *Picked up by Southern California News Group*

- Print: 684K total readership
- Web: **9.4 million** monthly unique visitors, **20.1 million** monthly page views



ACTIVITIES: Website and Collateral



CALIFORNIA'S CURRENT WATER SUPPLY CRISIS

California is in the midst of a water supply crisis that is already impacting our economy, every region across the state, jobs, critical industries, and all Californians. While the state calls for more aggressive water conservation as we head into a third year of drought. this is an unprecedented time with changing and worsening conditions, calling for extraordinary and immediate measures. Conservation is not an acceptable or adequate policy response. We must invest now in water management infrastructure to prevent the current crisis from becoming even worse and to secure California's water future.

CHANGING AND WORSENING CONDITIONS

California's existing water system was already struggling to meet increasingly demands even before climate change intensified California's extremely variab

The climate continues to charge, our population has nearly doubled, environ regulatory demands have become dominant, but California continues with th approach to managing our water supply as if it is still 1968.

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Changes to and impacting water supplies are evidenced by:







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ANTIQUATED STATE WATER POLICIES



Not adapting our water supply approach and statewide water policies to mee challenges of current and coming conditions will continue to devastate our e threaten California's future.





SOLVE THE WATER CRISIS ACT NOW TO SECURE CALIFORNIA'S FUTURE.

middle of a water supply crisis. Warning! California is in the middle of a wa

Collifernin is facing a writer supply crisis that is already imparting our economy, every region across the state Jobs, critical Industries, and all Californians. While the state calls for more as



SOLVE THE WATER CRISIS

ACT NOW TO SECURE CALIFORNIA'S FUTURE

CALIFORNIANS ARE CURRENTLY FACING A WATER SUPPLY CRISIS; THE NEXT GENERATION IS FACING AN EXISTENTIAL THREAT TO THEIR LIVELIHOOD AND QUALITY OF LIFE

NEED FOR IMMEDIATE STATE ACTION

DROUGHT



State emergency proclamations for drought were issued for 50 counties in 2022. "The U.S. Drought Monitor has updated its map for California and shows more areas in the Extreme Category. Last week 13% of California was listed in extreme drought, the update last Thursday now has 35% listed as Extreme Drought." ABC News, March 2022

This is an existential threat to the West and our water managers stand on the front lines of our response."

men Ekiand entern water experi and farmer direct e Colorado Water Conservation Board

INADEQUATE INFRASTRUCTURE

The current infrastructure was developed for a 1970 state population of 20 million; California has almost 40 million people today.

3 CLIMATE CHANGE

The summer of 2021 was California's hottest ever, studies predict a low to no-snow future for the state - compounding the already difficult challenge of delivering water for residential, business, agriculture, and recreational purposes.

FAILURE TO MOVE FORWARD ON STORAGE PROJECTS

After eight years, none of the storage projects scheduled to receive billions in funding from a 2014 voter approved bond measure have been built.



ZERO PERCENT OR NEAR ZERO PERCENT ALLOCATIONS TO WATER AGENCIES

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The state and federal water projects will release some water, but the state is dangerously close to limiting water for only critical health and safety reasons.



Despite tremendous local investment, the State is not living up to its responsibility for evolving California's water system—improvements are now long overdue. Current policy priorities are not helping...

We need your support and engagement today.

THANK YOU.



SOLVE THE WATER CRISIS ACTNOW TO SECURE CALIFORNIA'S FUTURE





FOR MORE INFORMATION VISIT WWW.SOLVETHEWATERCRISIS.COM

Prop 1 Round 2 IRWM Resolution and Project Updates

Ian Achimore, Senior Watershed Manager OWOW Steering Committee | November 17, 2022 Agenda Item 4.B.



Recommendation

Recommend that the SAWPA Commission adopt SAWPA Resolution 2022-17 in order to submit the final grant application to DWR.



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P:\projects\Prop1R2\Prop1R2\Prop1R2FundedProjectsMap\Prop1R2FundedProjectsMap.aprx LoProposedProjects SW-3104

General Implementation Project	Applicant	Water Supply (AFY)	Water Quality (MGD)	Habitat (Acres)	Flood Protection (Acres)	Funding Amount	
Santa Ana River Watershed Weather Modification Pilot	SAWPA	8,200	4.40	-	-	\$861,400	4
Etiwanda Intervalley Water Quality and Water Resiliency Phase-1A	JCSD	4,355	4.00	-	-	\$2,954,213	_
Wellhead Nitrate Treatment for Wells 4 & 27	MVWD	4,516	4.03	-	-	\$2,533,492	
Cable Creek Basin (Upper)	SBCFCD	859	-	-	390	\$2,521,678	
Phase 1 - Lake Elsinore Algae Harvesting and Nutrient Removal	LESJWA	-	1.00	3,000	-	\$1,500,000	
Lake klalto Habitat Management and Community Open Space	Rialto, City	-	5.90	10	-	\$2,149,748	
Well 2 Replacement	MVWD	3,226	2.88	-	-	\$2,006,311	
City of Rialto Recycled Intertie	IFUA	3,500	3.10	-	-		
Santa Ana River Sustainable Parks & Tributaries Water Reuse	SBVMWD	5,109	,	187	-		
Calimesa Aquifer Storage and Recovery	YVWD	2,890	-		-		
Well Pump Replacements	MVWD	4,194	-	-	-	Top proje	ct threshold.
Improving Recycled Water Used in Local Groundwater Recharge	WMWD	985	3.0	-	_		
Well 4 Replacement	MVWD	1,936	1.73	-	_		
Water Well RN #6 Nitrate Removal System	RHWC	1,300	1.20	-	_		
Improved Lake Circulation at Prado Regional Park	SBCRP	-	4.3	62	-		
Large Landscape Water Efficiency Program	IEUA	671	0.04	-	-		
Regional Water Distribution System Leak Detection and Repair	MWDOC	1,338	1.19	-	_		
Cactus Basins Connector Pipeline	SBVMWD	1,360	_	-	_		

DAC Project	Applicant	Water Supply (AFY)	Water Quality (MGD)	Flood (Acres)	DAC %	Score	Funding Amount
New Washington Well	Santa Ana, City	4,000	3.57		85%	17.00	\$3,394,743
Lead Service Line Replacements in the Bloomington DAC	WVWD	3,454	3.10		100%	14.72	\$315,000
Box Springs Mutual Water Company Well Improvement	California Rural WA	411	0.37		100%	1.93	\$1,885,257
Recycled Water Use Expansion	Santa Ana, City	370	-		63%	0.83	
Shamrock and Meridian Septic to Sewer Conversion	Rialto, City	-	0.13		100%	0.29	
Cottonwood Avenue Recycled Water Pipeline (East)	EMWD	90	-		100%	0.20	

Top project threshold.

"Back Up" Project List

Project Name	Project Lead	Grant Request*	Total Cost	
Shamrock and Meridian Septic to Sewer Conversion Project (DAC)	City of Rialto	\$3,143,400	\$3,143,400	
City of Rialto Recycled Intertie (General Implementation)	Inland Empire Utilities Agency	\$3,000,000	\$53,000,000	
Grand Totals		\$6,143,400	\$56,143,400	

*This is the grant request through the OWOW Call for Projects, not the final grant request to DWR. The possible amount granted to the project will depend on the project(s) that drop out during the implementation phase.

Phase 1 - Lake Elsinore Algae Harvesting and Nutrient Removal Project

- Widespread harmful algal blooms (HABs) occur in the lake due to ongoing and legacy nutrient loads which are exacerbated by persistent drought and heatwaves.
- As a result, the City has been forced to post public health warnings and to close the lake for recreational activities, which has negative impacts on local businesses and tourism.
- The draft revised Total Maximum Daily Load (TMDL) report for Lake Elsinore recognizes that innovative, in-lake remediation projects are needed.



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Scope of the Project

- Project includes implementation of innovative algae harvesting technology to address impacts of HABs.
- Project will include use of Hydronucleation Flotation Technology (HFT), an advanced liquid/solid separation process that has been optimized to operate at a high hydraulic rate.



Photo credit: AECOM

Issues Applicant is Working to Resolve

- Long-term cost share is difficult to acquire for a City of Lake Elsinore's size.
 - Annual long-term operation costs could be \$300,000.
- Lake-side acreage needed for drying slurry and potential odors is a factor.
- The City's consultant is providing updated budget and modified project plans that could possibly result in a scope-change for the project.
- The City has until November 15, 2022 to make a final decision and provide feedback to SAWPA.





City of Lake Elsinore - City of Canyon Lake - County of Riverside Elsinore Valley Municipal Water District - Sonta Ana Watershed Project Authority

Back Up Project to Utilize if Lake Elsinore Does Not Move Forward

- Inland Empire Utilities Agency's City of Rialto Recycled Intertie Project
 - In October 2022, IEUA and City of Rialto agreed to a recycled water purchase term sheet.
- ▶ \$53 Million total cost.
 - \$1.5 million in grant funding from Lake Elsinore project would be transferred to the IEUA project.
 - IEUA submitted a \$50 million grant application for Federal Emergency Management Agency funding
 - IEUA will submit a state revolving loan application in December.
 - IEUA staff has explored the municipal bond market as an alternative option.



Further Information About Project

- Rialto's wastewater treatment plant (WWTP) currently discharges 6.2 million gallons per day (MGD) of recycled water to the Santa Ana River.
- Will be pumped from Rialto to IEUA's Recycled Plant No. 4 (RP4).
- Two retail water agencies adjacent to RP4 will then purchase this water.



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Grant Funding By Category (No changes between categories)

Category	Projects Included	Grant Amount
Disadvantaged Community	3	\$5,595,000
OWOW - General Implementation	7	\$14,526,843
North OC - General Implementation	3	\$7,583,800
SAWPA - Grant Administration (4.7% of total grant available)	NA	\$1,352,929
Grand Total	13	\$29,058,572

New Water and Revised Water for the Watershed

- "New water" water from a source that was not in use prior,
- "Revised water" water from a source that is currently discharged (such as secondary treated water) or water that is currently not in use due to regulatory or water quality issues.

Local Water from Prop 1 Round 2 Projects	Acre Feet per Year
New Water	13,312
Revised Water	18,466*
Total Local Water	31,778**

*Would increase by 3,500 AF if IEUA back up project is utilized as a replacement project. **Represents 3% of historical local water that is directly delivered to customers.

Feedback from Stakeholders Regarding Call for Projects

- SAWPA sent a three-question survey to those who participated in the Call for Projects process,
- The questions focused on whether the process was
 - Well explained,
 - Transparent, and
 - Fair.



Anonymous Survey Results (14 responders)

Resolution for Adoption

- Recognizes the work done through the OWOW Call for Projects,
- Required as part of the DWR application due on February 1, 2023,
- Resolutions provides flexibility if back up projects become funded projects,
- Allows SAWPA to execute a grant agreement with DWR as well as subagreements with project leads, and
- SAWPA staff will bring back updates on any developments with regard to the need to fund back up projects.



Recommendation

Recommend that the SAWPA Commission adopt SAWPA Resolution 2022-17 in order to submit the final grant application to DWR.

Santa Ana Weather Modification Pilot – Status Report

Mark Norton, Special Projects Manager Santa Ana Watershed Project Authority Item No. 4.C.



Recommendation

Staff recommends that the OWOW Steering Committee receive and file this status report on the Santa Ana River Watershed Weather Modification Pilot Project.



Source: The Fact Site

Cloud Seeding History

Background

- Physics is well known
- Started in the U.S. in the 1940s
- Challenges: Overselling, limited science
- Misconceptions remain

Recent Advances

- Weather forecasting
- Computing / Modeling
- Seeding methods
- Scientific validation studies



U.S. Projects

- Cold Season Cloud Seeding Leaders
 - CA, CO, ID, UT, WY, NV
- Applications
 - Power Utilities (hydropower)
 - Ski areas
 - Water Resource Agencies
 - Irrigation Districts
- California Projects
 - Santa Barbara County
 - San Luis Obispo
 - Sacramento Municipal Utility District
- CA DWR
 - Cloud seeding is a "safe and effective means of augmenting local water supplies."



Source: North American Weather Modification Council

Ground Based Seeding Methods

CNG's (Cloud Nuclei Generators)



AHOGS (Automated High Output Ground Seeding) Systems



- Ideal for orographic lift (winds caused by land barriers)
- Create a continuous plume
- Inexpensive to install and operate

- Ideal for strong convective storm attributes (turbulence)
- Delivers higher concentration of silver iodide
- Operated remotely rapid release

Licensing and Permitting

- Operators are licensed and carry liability insurance
- Suspension criteria turns off program during high precip/flood conditions
- Though no CA state permit required, CEQA mitigated negative declaration will be conducted
- The National Oceanic and Atmospheric Administration (NOAA) also requires activity report about operation and the amounts of seeding material applied.



Cloud Rustling – Downwind Effects Misconception

- "Robbing Peter to pay Paul"
- Cloud seeding activates precipitation otherwise unavailable
- Long-term research (44+ studies) consistently shows no precipitation decreases; some downwind increases shown



Potential Environmental Effects

- Silver iodide is not soluble or biologically available
- 50 years of physical, biological, aquatic, soils and vegetation studies found:
 - Subtle or indiscernible effects
 - Not been measured above background, even after decades of operations
 - Potentially beneficial (more runoff)
- Strong studies with credible results and regulations reflect recent research



Public Health Protection

- Silver Iodide (Agl)
- Silver Concentrations
 - •EPA drinking water quality 0.1 mg/L
 - •U.S. Public Health Service level 0.05 mg/L
 - •Seeded rainfall is 0.1 mcg/L or 1000 times less than EPA standard



Why consider cloud seeding in the Santa Ana River Watershed?

Precipitation – and flows in the Santa Ana River – have been trending down

- Cloud seeding increases precipitation (with an emphasis as snow in upper elevations)
- Produces a local supply
- Potential to reduce the use of imported water

Dry years and droughts occur

• Cloud seeding works in both dry and wet years

Cost effective

• Costs for 8%-11% increase in streamflow is a fraction of the cost of imported water

Supports local water storage

- Natural infiltration
- Takes advantage of existing stormwater capture infrastructure

Water Rights

• DWR "Precipitation Enhancement Report" (2016):

"State law says that water gained from cloud seeding is treated the same as natural supply in regard to water rights."



2020 Feasibility Study Outcomes

• Finding:

 ...the proposed cloud seeding program would be both technically and economically feasible...

- Pilot Program (annual basis)
 - •Cost: \$250,000
 - Benefits:
 - Streamflow increase = 8,200 AF
 - Percent increase in streamflow = 8%
 - Cost per acre-foot (AF) = ~\$25 /AF



Feasibility Study (2020)

https://sawpa.org/latest-info/watershed-cloudseeding-feasibility-study/

Feasibility Study Outcomes

Ground Based Seeding Dispersion Model

4 seeding areas:

- NW
- NE
- SW
- SE

Included a number of ground sites in each area

Map reflects one of many projected seed plume scenarios



Seeding Site Locations



P:\projects\Mark_Norton\WeatherMod_21\WeatherMod2.aprx LoPilotProgram SW-3105

Operations Consultant Award

- Contract awarded on July 19th by SAWPA Commission:
 - North American Weather Consultants (NAWC), Sandy, UT (\$1,061,912)
- A General Services Agreement and Task Order signed on July 25, 2022
- Kickoff meeting held on August 1, 2022





Operations Scope of Work

- Task 1 Project Management and Administration
- Task 2 Program Personnel
- Task 3 Installation
- Task 4 Land Lease/Operation Agreements
- Task 5 Operations
- Task 6 Equipment Maintenance
- Task 7 Reporting & Invoicing
- Task 8 Schedule

Duration: Four years over annual winter periods (Nov. 15 – Apr. 15)



Santa Ana River Weather Modification Pilot Project

Program Element		2020	2021	2022	2023	2024	2025	2026	2027
Feasibility Study									
Outreach on Local Cost Shar	re					New No	targeted s vember 1	tart date 5, 2023	:
Ground Seeding Site Analysi	is								
CEQA Commission contract o	approve n July 19	ed opera)th meet	tions ing						
Prop 1 Round 2 Grant Applie (50% of cost)	cation								
Pilot Program					•				
Outreach/Public Engagemer	nt								

Pilot Project Seeding Start Rescheduled to Nov. 2023

The decision to reschedule the start of cloud seeding was based on a review of project targets established to meet the Nov 2022 schedule. Specifically:

- **1.** Lease Agreements. Execution of seeding site agreements with participating agencies require more time than anticipated, including scheduling board approvals where needed.
- 2. Operations. Questions arose by several agencies regarding the operations of the seeding units. Additional time is needed to address operations for these units.
- **3. Propane Tanks.** Propane tanks of the appropriate size have been in short supply since 2021 and securing tanks for installation was in question.

No additional costs are required for the November 2023 start date.

Proposition 1 Round 2 IRWM Implementation Grant Application - Status

- Application submitted for OWOW Call for Projects for Prop 1 Round 2 IRWM grant funding (50% of cost)
- SAWPA staff participated in Round 2 grant stakeholder budgeting and ranking process
- The Pilot was the top ranked project among 24 projects
- Next Step:
 - SAWPA staff will prepare detailed workplan, budget and schedule for DWR grant application due to DWR on Feb. 1, 2023.
 - DWR award announcement anticipated by Jun 2023 with contract execution with SAWPA anticipated in Oct. 2023





Santa Ana River Watershed Weather Modification – Pilot Validation

- Postponement of start to Nov. 2023 was acceptable to Desert Research Institute (DRI)
- DRI \$155,000 validation support estimate remained the same
- Additional time can be used for preparation of validation tasks
- General Services Agreement and Task Order was approved by the SAWPA Commission on October 18, 2022.





Recommendation

Staff recommends that the OWOW Steering Committee receive and file this status report on the Santa Ana River Watershed Weather Modification Pilot Project.