



# Sustainable Water Management Profile

*Sustainable Water Resources Roundtable* • May 3, 2018



- SWM Profile Background & Structure
- Pilots, Outreach, Lessons Learned
- Next steps

## How do you measure sustainability?

- Challenge: As water supplies come under increased pressure, regions lack a uniform tool to assess sustainable water management



## Goal

- Find or develop a tool to assess sustainable water management and inspire improvement at a regional scale





- Water Foundation's tool for advancing long-term water supply resilience and water resource stewardship at a regional scale



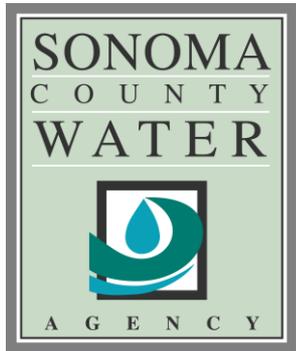
## SWM Profile Is Not...

- Small-scale site-specific analysis
- Designed to be global or international tool
- Stakeholder-driven certification process
- All-encompassing sustainability analysis

## SWM Profile Is...

- Focused on sustainable water supply management
- Accessible to different audiences
- Flexible and scalable
- Voluntary
- Expert driven

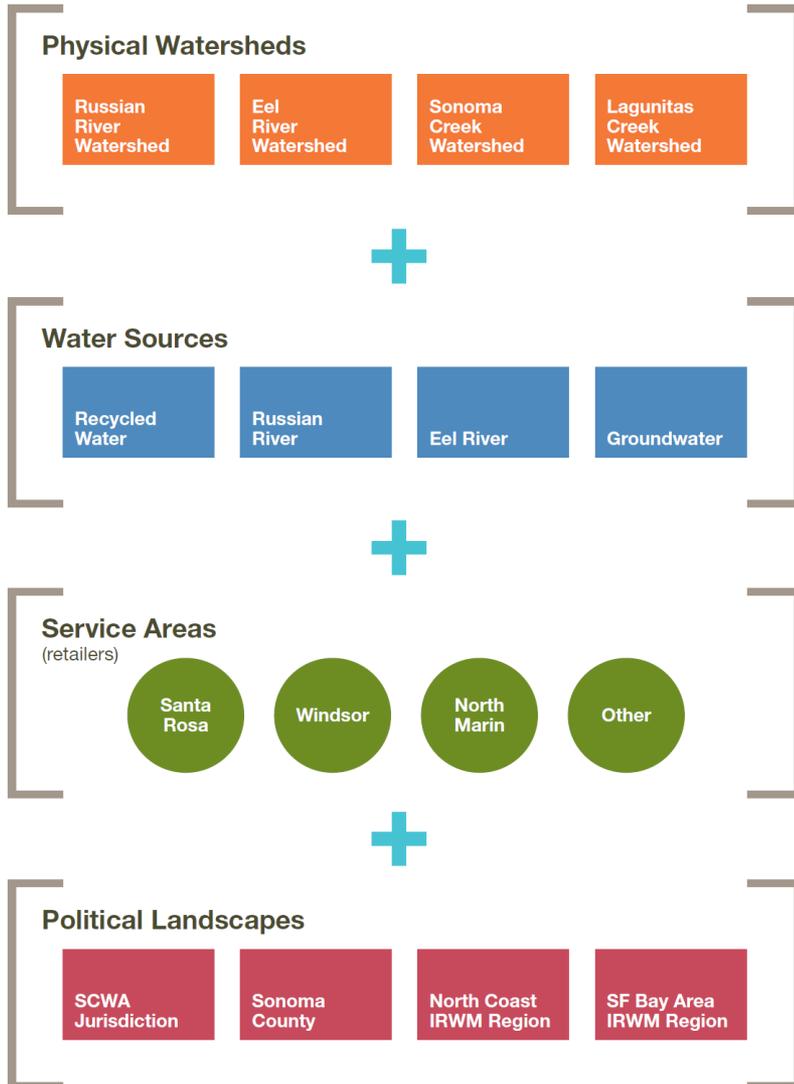
# SWM Profile Development



## SWM Profile Development

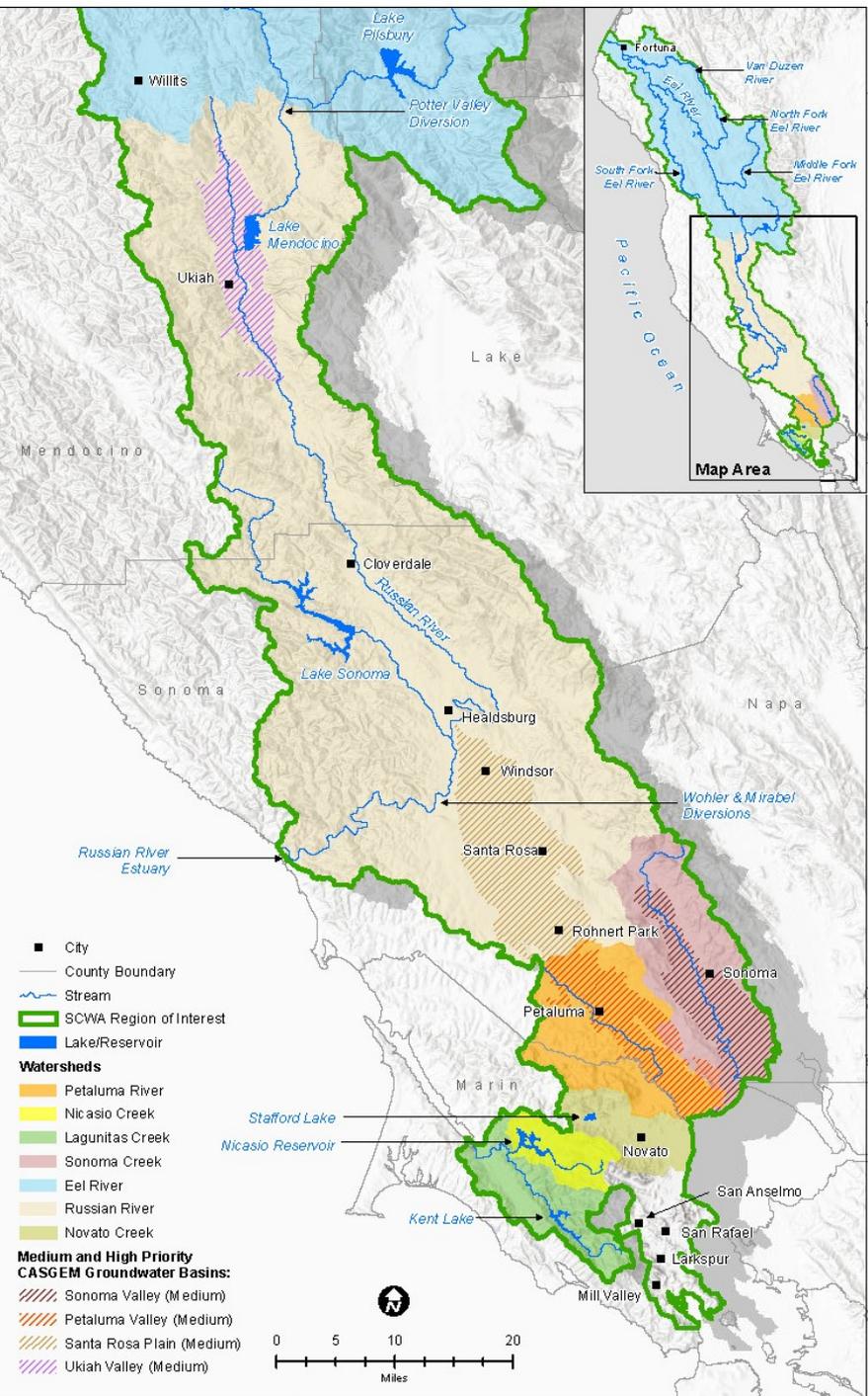
- Created tool (v1.0), 2013
- Completed Sonoma County Pilot, 2014
- Conducted Outreach & Peer Review, 2015
- Refined tool (v2.0), 2016
- Completed Inland Empire Pilot, 2017

# Defining "Region"



- SWM Profile region:  
"Region of Interest"
- Assessment boundaries:  
flexible by stressor

# Sonoma County Region of Interest



# Inland Empire Region of Interest



# SWM Profile Themes



Environment



Supply



Demand



Finance

## Stressors: Environment



Natural Hazards



Climate Change



Sensitive Species



Watershed Health



## Stressors: Supply



Supply Reliability



Groundwater Supply



Source Water Quality



## Stressors: Demand



Urban Demand



Agricultural Demand





### Finance and Investment



# SWM Profile V1.0 Framework

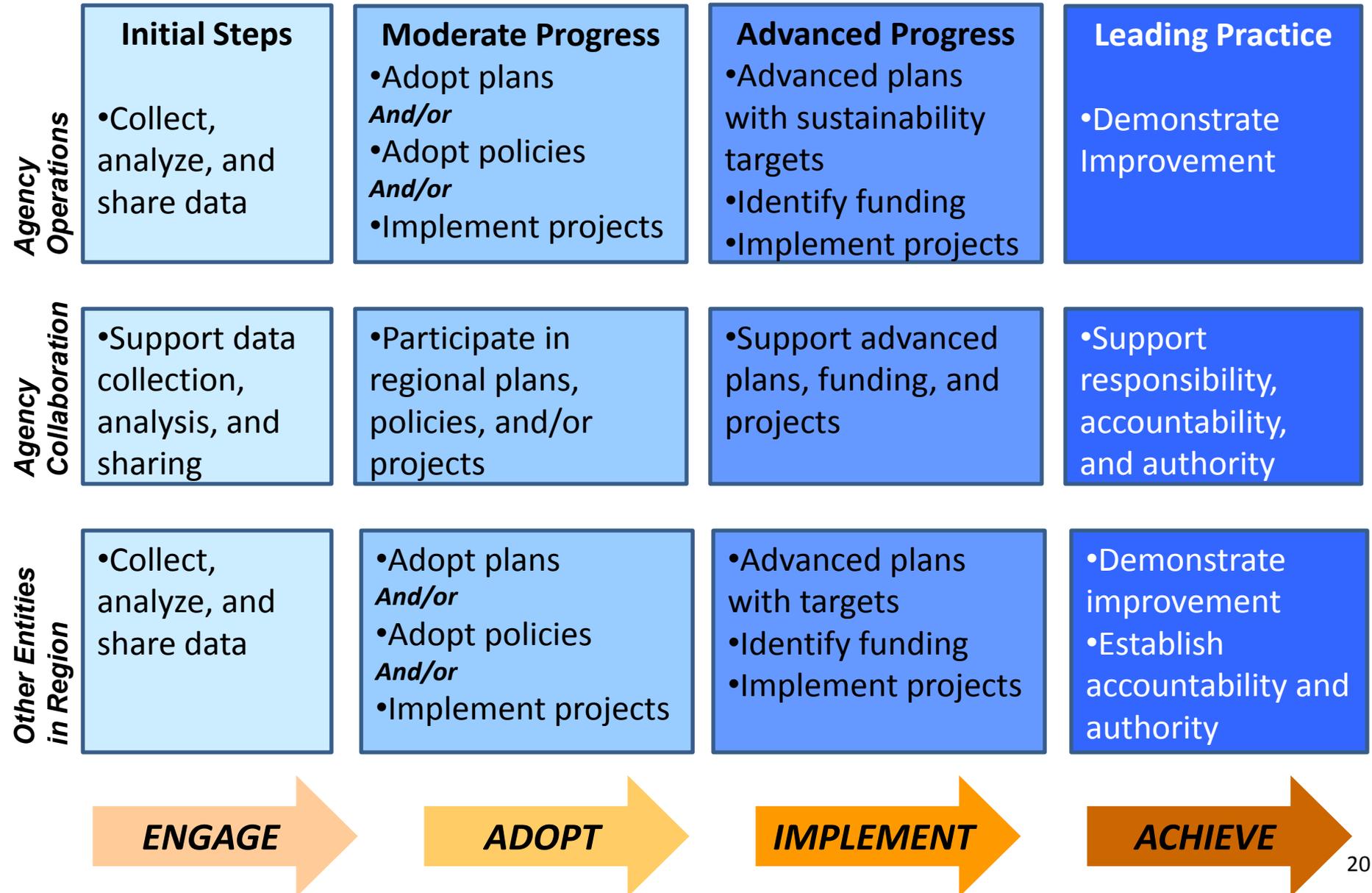


Themes	Stressors	Stress Level	Management Response			
		High/Moderate/Low	Initial Steps	Moderate Progress	Advanced Progress	Leading Practice
<b>SUPPLY</b>						
	1. Supply Reliability					
	2. Groundwater Supply					
	3. Source Water Quality					
	4. Natural Hazards					
	5. Climate Change					
<b>DEMAND</b>						
	6. Urban Demand					
	7. Agricultural Demand					
<b>ENVIRONMENT</b>						
	8. Sensitive Species					
	9. Watershed Health					
<b>FINANCE</b>						
	10. Finance and Investment					

## How do you get to sustainable water management?



# Management Response Continuum



# Version 2.0 Example Summary

- IS = Initial Steps
- MP = Moderate Progress
- AP = Advanced Progress
- LP = Leading Practice
- High Stress
- Moderate Stress
- Low Stress

Stressor	Stress Level	Management Responses											
		Operations				Collaboration				Regional-Scale Actions			
		IS	MP	AP	LP	IS	MP	AP	LP	IS	MP	AP	LP
<b>Environment</b>													
Natural Hazards	●	[Progress Bar]				[Progress Bar]				[Progress Bar]			
Climate Change	●	[Progress Bar]				[Progress Bar]				[Progress Bar]			
Sensitive Species	●	[Progress Bar]				[Progress Bar]				[Progress Bar]			
Watershed Health	●	[Progress Bar]				[Progress Bar]				[Progress Bar]			
<b>Supply</b>													
Supply Reliability	●	[Progress Bar]				[Progress Bar]				[Progress Bar]			
Groundwater Supply	●	N/A				[Progress Bar]				[Progress Bar]			
Source Water Quality	●	[Progress Bar]				[Progress Bar]				[Progress Bar]			
<b>Demand</b>													
Urban Demand	●	[Progress Bar]				[Progress Bar]				[Progress Bar]			
Agricultural Demand		N/A				N/A				N/A			
<b>Finance</b>													
Finance and Investment	●	[Progress Bar]				[Progress Bar]				N/A			

- Data availability limits indicator selection
- Defining assessment boundaries is challenging
- Thorough, independent analysis has value
- Providing context is critical
- More than just a snap shot: create a road map
- Context + Condition (Stress) + Action (MR)

## Next Steps: 2018

- Pursue opportunities with CA Water Plan pilots
  - Collaborate with Russian River Watershed
  - Support Santa Ana Watershed
- Finalize White Paper
- Pacific Institute Guidebook
- Outreach to promote lessons learned

## Questions?

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