

# In the Concern of Protecting Against the Impact of Shortages: Environmental Scan

What are the actions, trends, paradigms and approaches emerging for the Arizona Water Banking Authority and others relative to protecting against the impact of shortages?

Arizona Water Banking Authority

October 16, 2013

**ESTABLISHED**

**BOUNDARY IDEAS**

**EMERGING**

**DYING**

ON THE HORIZON (BOUNDARY)	EMERGING	ESTABLISHED	DYING
<ul style="list-style-type: none"> <li>➤ # Expand authority (more than just AWBA) to fund infrastructure</li> <li>➤ Private involvement in firming</li> <li>➤ Rethink “I” portion of firming for “M&amp;I”</li> <li>➤ # Mitigate agricultural shortages – protect assured water supply for “M” [municipal]</li> <li>➤ Individual subcontractors finish the firming goal – Bank does what it can do and no more</li> <li>➤ # Mead “Banking”</li> <li>➤ # Consider firming agricultural supplies</li> <li>➤ # <u>Make AWBA repository of new supplies (surfacerwater water management)</u></li> <li>➤ ^ Larger role in statewide water management</li> <li>➤ Moving beyond 2096 (100 year goal)</li> <li>➤ # Expand sources of water and funding</li> </ul>	<ul style="list-style-type: none"> <li>➤ Use of forbearance agreements</li> <li>➤ Bank and Indian communities developing agreements</li> <li>➤ # Supply augmentation</li> <li>➤ Credits purchase and sale</li> <li>➤ # Direct use of reclaimed water</li> <li>➤ # Weather modification for river augmentation</li> <li>➤ Ability to acquire or store other water sources</li> <li>➤ Hydrologic realities</li> <li>➤ Additional storage and recovery capacity</li> <li>➤ Indian/interstate recovery obligations</li> <li>➤ Opportunities outside AMAs</li> <li>➤ # Recovery Planning</li> <li>➤ Other methods of water banking - ICS</li> <li>➤ # Inter-AMA flexibility</li> <li>➤ More governance regarding water conservation</li> <li>➤ Expand authority (more than just AWBA) to fund infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>➤ Indirect reuse for potable supplies</li> <li>➤ Direct reuse for turf and industrial</li> <li>➤ Coordination of modeling among agencies</li> <li>➤ Use of 100-year goals</li> <li>➤ Ag conservation</li> <li>➤ # Storage and recovery of long-term storage credits</li> <li>➤ AMA specific funding - storage</li> <li>➤ Leases and exchanges CAP/reclaimed water</li> <li>➤ Groundwater savings facilities</li> <li>➤ Storing Colorado River water underground</li> <li>➤ M&amp;I conservation</li> <li>➤ Model using historic hydrology</li> <li>➤ # Municipal customer demands are always met</li> </ul>	<ul style="list-style-type: none"> <li>➤ Type 1 rights are the answer to urban water</li> <li>➤ Effluent has not value</li> <li>➤ ^ Weather modification</li> <li>➤ Storing excess CAP not the only solution</li> <li>➤ ^ No more dams</li> <li>➤ ^ Water bud</li> <li>➤ “Toilet to tap”</li> <li>➤ 4¢ tax</li> <li>➤ Abundant excess CAP water</li> <li>➤ Concerns about full use of Arizona entitlement</li> <li>➤ General funds availability</li> <li>➤ Southside replenishment goal</li> <li>➤ Diminishing interstate storage</li> <li>➤ # M&amp;I use of groundwater as primary source</li> <li>➤ ^ Affordability of agriculture CAP water</li> <li>➤ Acting unilaterally</li> <li>➤ Single action “Silver bullet” solution</li> </ul>

**KEY**  
 GREEN = # Pleasing  
 Red = ^ Caution  
 BOTH = # BOTH

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## IMPLICATIONS

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| <ul style="list-style-type: none"><li>➤ Diminishing resources: water and money</li><li>➤ Increasing competition for water and money</li><li>➤ Possibility of near term shortage</li><li>➤ Possibility of falling below 2015</li><li>➤ Need to make tough decisions on priorities</li><li>➤ External pressures</li><li>➤ Potential for major changes in Colorado River operations</li></ul> | <ul style="list-style-type: none"><li>➤ Celebrate success of AWBA and others in accomplishing what has been accomplished so far</li><li>➤ Lack of political will and understanding</li><li>➤ Uncertainty</li><li>➤ Understand complexity of issues relative to staffing decisions</li><li>➤ Need for education</li><li>➤ Energy water nexus</li><li>➤ Sell/trade credits for strategic reasons</li></ul> |
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