

SAMPLE- Template for Describing Regional IWM Activity Investment Packages and Supporting Assumptions for Update 2013 Finance Plan
January 24, 2012

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The purpose of this template is to provide instructions and context for compiling Integrated Water Management Investment Packages -- activities and supporting assumptions of future conditions -- for the Update 2013 Finance Plan as described in Component 2 of the finance plan storyboard. This information will be used to facilitate discussion and develop recommendations regarding future State government funding for State-administered activities as well as State financial assistance for regional and/or local IWM activities as described in Component 5 of the finance plan storyboard. Each permutation of this template constitutes one "Investment Package". Multiple investment packages can be created using various sets of future assumptions and IWM activities. The section title blocks below are color coded to correspond with Figure 3 located on page 9 of this template.

During the preparation of the Update 2013 Finance Plan, funding recommendations will be developed by:

- (1) Observing emerging patterns of common activities/geographical areas from the various regional and State government investment packages (which include local assistance) as guidance for where, and to what magnitude, future State IWM funding should be directed.
- (2) Ensuring consistency between the IWM benefits (type and magnitude) defined for the Update 2013 Finance Plan and anticipated benefits from IRWM activities.

Recommendations will be developed for State-administered activities, which generally provide broad public benefits, as well as activities at the scale of the Water Plan's 10 hydrologic regions and 2 overlay areas.

Investment Package Title: Sample IRWM 1

Information Base

Planning Entity: Sample IRWM Group
Report Type: Integrated Regional Water Management Plan
Date Published: 2010
Website: <http://www.sampleirwm123.org>

Scenario Assumptions

An initial step for developing a State or Regional Investment Package is specifying assumptions about future conditions. The framework for preparing the finance plan includes a process for specifying priorities at various scales (e.g. regional or statewide) and under different sets of assumptions about future conditions; such as society's future willingness and ability to pay for IWM activities, the planning horizon for each investment package, as well as demographic, land use, growth, and climate conditions.

Willingness and Ability to Pay – This section contains the method for specifying assumptions regarding society's future willingness and ability to fund IWM activities as well as the planning horizon for this investment package. The purpose is to document, in a very general sense, assumptions about potential future funding constraints (or lack thereof). This is not intended to specify an anticipated or desired future level of funding. Rather, it is a first pass at a general magnitude of future funding levels to guide the prioritization or objectives and associated activities. The actual funding associated with this investment package will be determined once the activities are identified, their costs are estimated, and assumptions or recommendations are formed regarding the distribution of costs and benefits. This is the first step in an iterative process.

Specify a funding level for each jurisdictional scale in the table below

Jurisdictional Scale	Planning Horizon (Specify 2015, 2020 OR 2030)
	2030
IRWM	3
State	4 (75%opf total funding is expected from State sources)
Federal	3
Tribal	2
Private	2

Menu of Alternative Future Funding Levels

Level 4 — Flourishing economy and strong investment climate conducive to full implementation of all recommendations contained in *Information Base* identified above

Level 3 — Similar to 2006 State investment levels (including bond funding)

Level 2 — Similar to 2000 State investment levels (“pre-bond” conditions)

Level 1 — Low resources, all-time low infrastructure investment profile

Scenario Narrative: *(Brief story describing the economic, climate, societal, demographic and other drivers that result in the assumed future condition)*

Willingness and Ability to Pay: A general recovery of the economy will occur by 2015; particularly at the State-level

Climate Change: Sea levels will rise X feet by 2050; minimal increase in peak flood flows; moderate increase in inter-annual hydrologic variability; significantly reduced snowpack; significant increase vegetative consumptive use

Population: DOF projections with local modifications driven by city and county general plans

Other Important Assumptions:

Response Package/IWM Activities

This section illustrates linkages between IRWM Plan objectives and activities with State objectives for the purpose of identifying appropriate/desirable future State roles in IRWM . The information also represents one permutation of a Response Package (defined in the Water Plan as a mix of actions and polices intended to meet multiple resource management objectives that are packaged/coordinated to achieve enhanced outcomes).

IRWM Plan Strategic Objectives <i>(Do not include activities)</i>	Linkage W/ State Objectives and Actions (As published in Update 2009)	Targeted Update 2013 IWM Benefits	Intended Benefits	Priority Activities <i>(Project or Program) Name</i>	Type of Resource Management Strategy	Capital Cost \$ 2010 Dollars	O&M Cost <i>Present Value over planning horizon</i> (\$ 2010 Dollars)	Activity Category	Scale of Benefits by Jurisdiction
INFRASTRUCTURE									
Reliable local water supply; Infrastructure Efficiency	No Linkage	Supply reliability	Primary	Sandy Creek Canal Lining	Conveyance	2,000,000	500,000	Human/Built	Local
		Operational Efficiency	Secondary						
		Energy	Secondary						
Reliable local and interregional water supply	Expand Conjunctive Management of Multiple Supplies	Supply reliability	Secondary	Phase 1 – Thirsty Acres GW Recharge Facility Development	Conjunctive Management and Groundwater	9,000,000	1,700,000	Human/Built	Regional & Inter-regional
		Overdraft reduction	Primary						
		Reduced Flood Risk	Secondary						
Enhance the environment	Expand Environmental Stewardship	Environmental	Primary	Ducks Galore Wetland Restoration	Ecosystem Restoration	1,200,000	750,000	Natural	Regional and Statewide
INNOVATION									
Improve Process Transparency	Practice Integrated Flood Management	Increases certainty of achieving objectives	Primary	Planning & Integration Project	Education and Outreach	N/A	150,000	Planning and Public Process	Regional
Reduce uncertainty of decisions	Improve Data and Analysis for Decision-making	Increases certainty of achieving objectives	Primary	GIS Land Use and Ecosystem Mapping Tool	Essential Support Activities	N/A	200,000	Information technology/data and tools	Watershed
Create functional work group	Practice Integrated Flood Management	Increases certainty of achieving objectives	Primary	Outreach to Expand IRWM Plan Group	Essential Support Activities	N/A	100,000	Governance	Regional and Local

Investment Package Summary

Total Costs by Activity Category and Scale of Benefits Over Planning Horizon

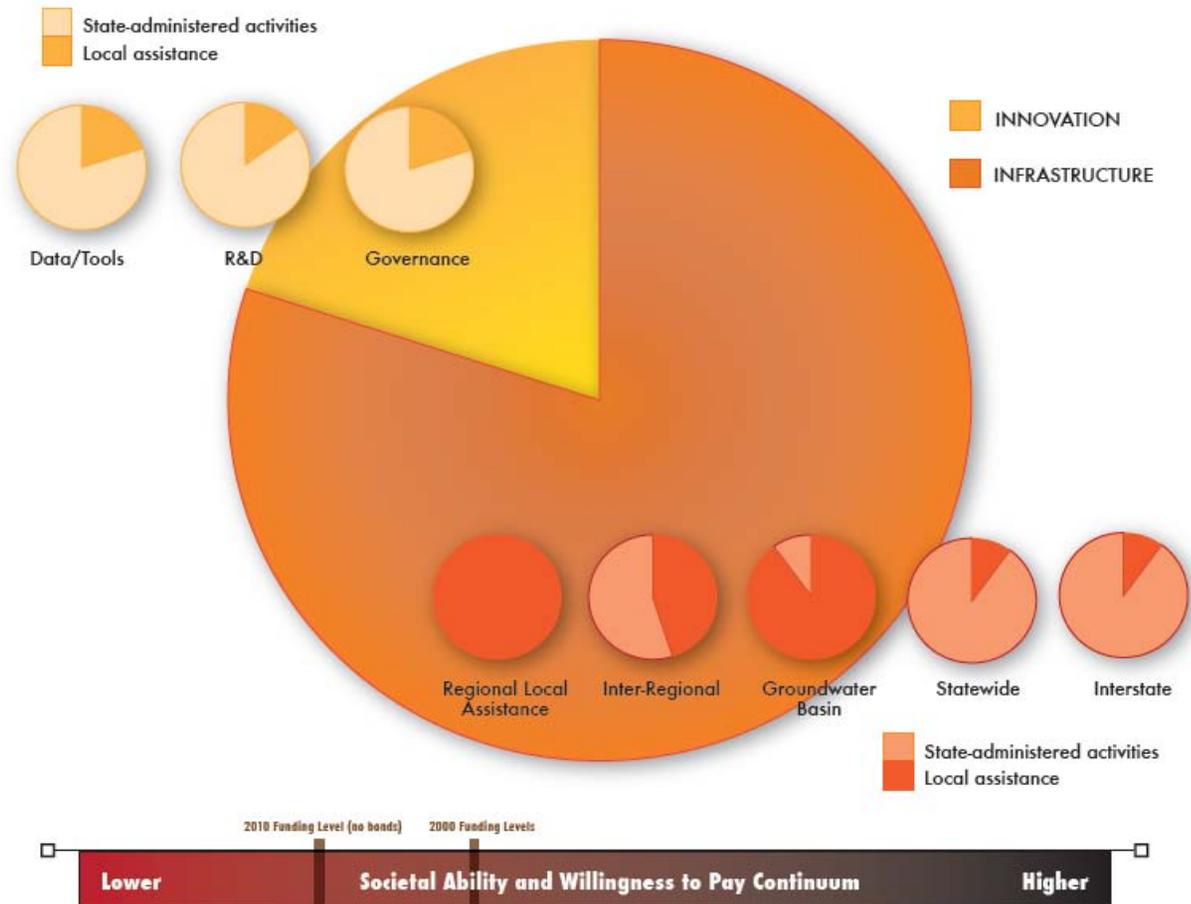
Note: Any or all of the information contained in the Response Package table on page 6 can be summarized to inform funding and finance decisions

Scale of Benefits	Total Funding (Capital and Present Value of O&M through Planning Horizon) \$ 2010 Dollar Basis
INFRASTRUCTURE – HUMAN/BUILT	
GW Basin	\$
Local	\$\$\$
Watershed	\$\$
Regional	\$
Inter-regional	\$\$
Statewide	\$\$
Tribal	\$
International	\$
Infrastructure Subtotal	\$
INNOVATION	
Governance	\$
Planning and Public Process Improvements	\$\$\$
Information Technology/Data and Tools	\$\$
Water Technology Research and Development	\$
Innovation Subtotal	\$
Total	\$

Sample Output for Decision-Support and/or Characterizing Funding Recommendations

Actual data can be represented on a regional or statewide basis and can contain any parameters shown in the tables on pages 4 or 5 of this template.

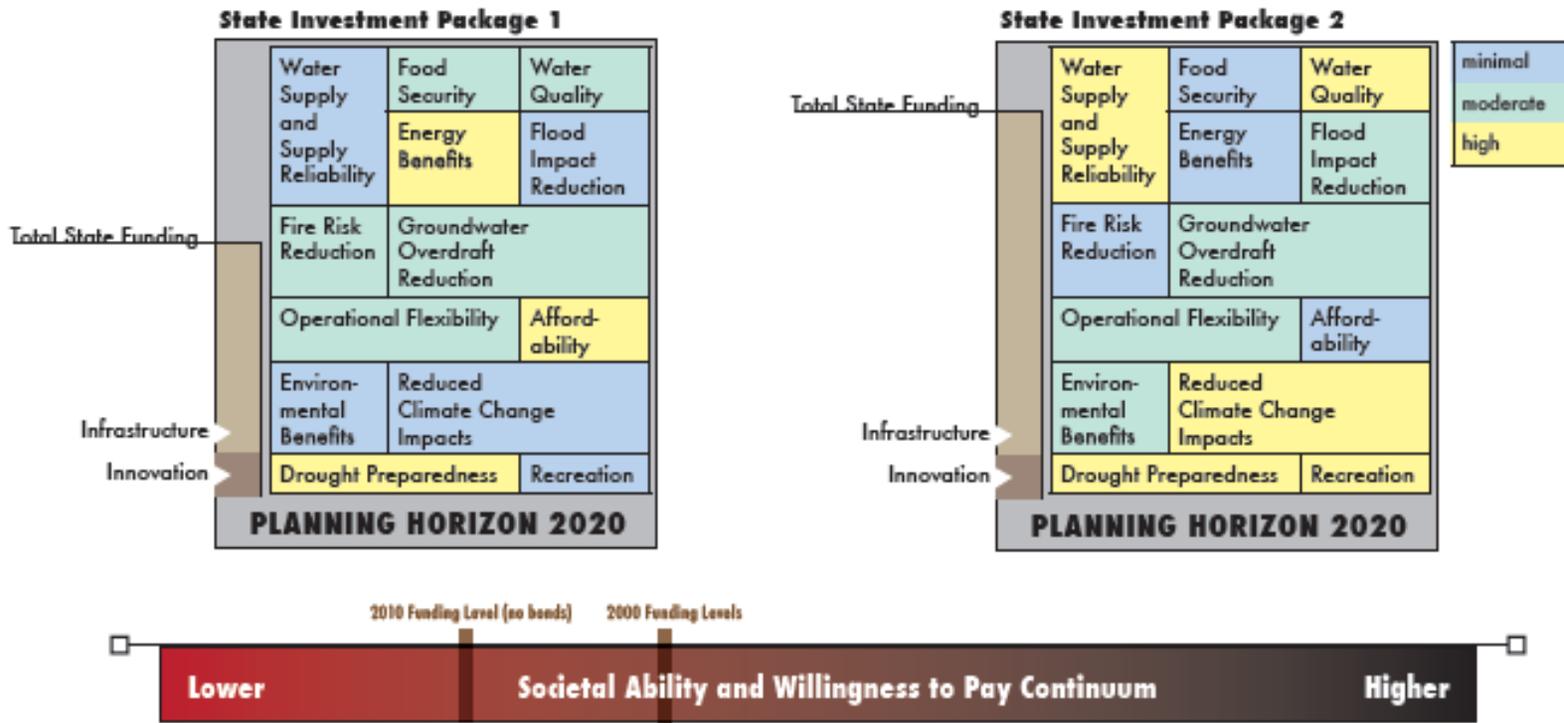
State Government Investment Recommendations Through 2020



Note: This diagram is for comparative purposes only. Recommendations will be derived from observing patterns (activities/areas) and presented on a separate graphic.

Sample Output for Decision-Support and/or Characterizing Funding Recommendations

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**Process for Recommending State Investment
in Integrated Water Management (IWM) Activities**
Figure 1

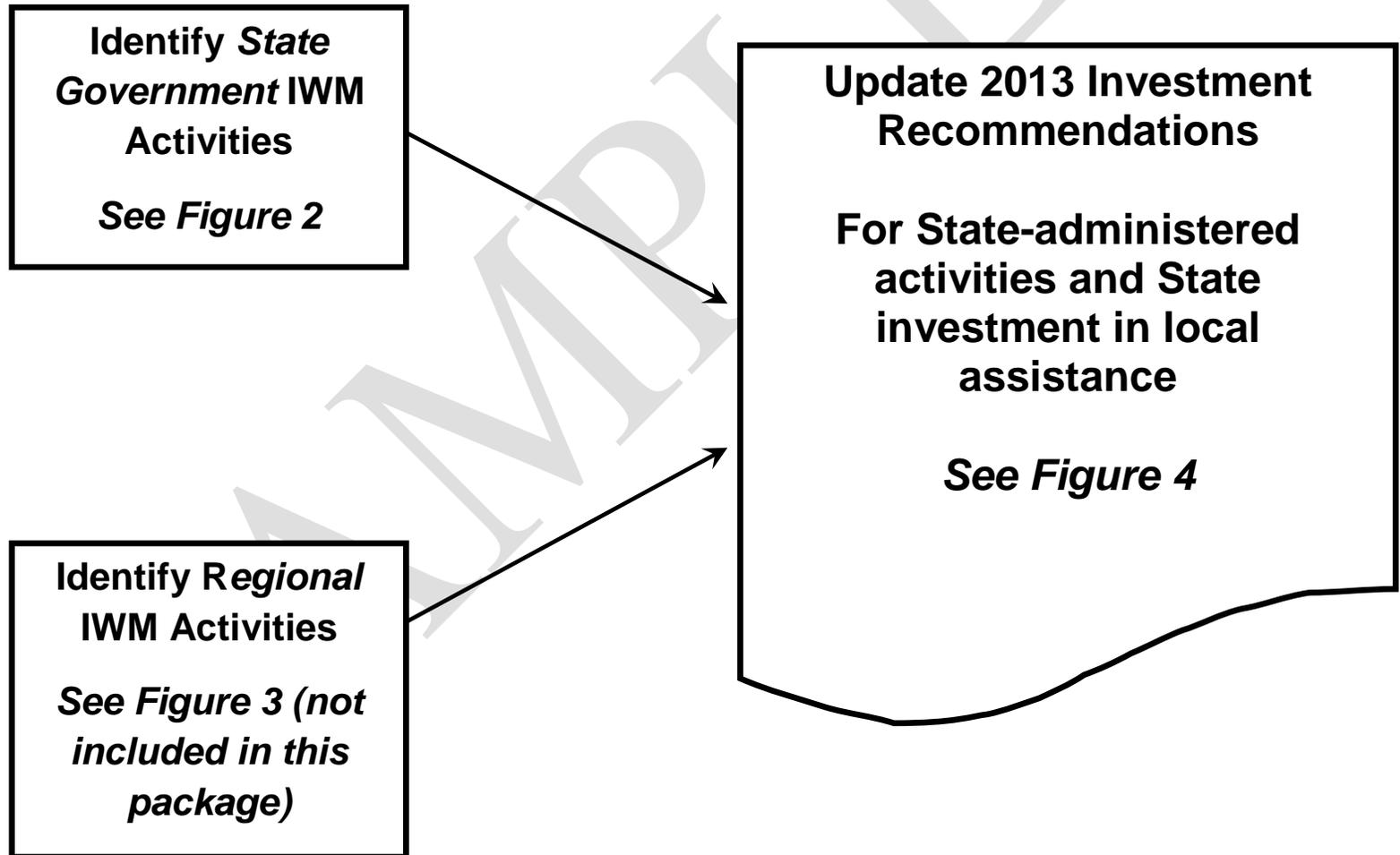
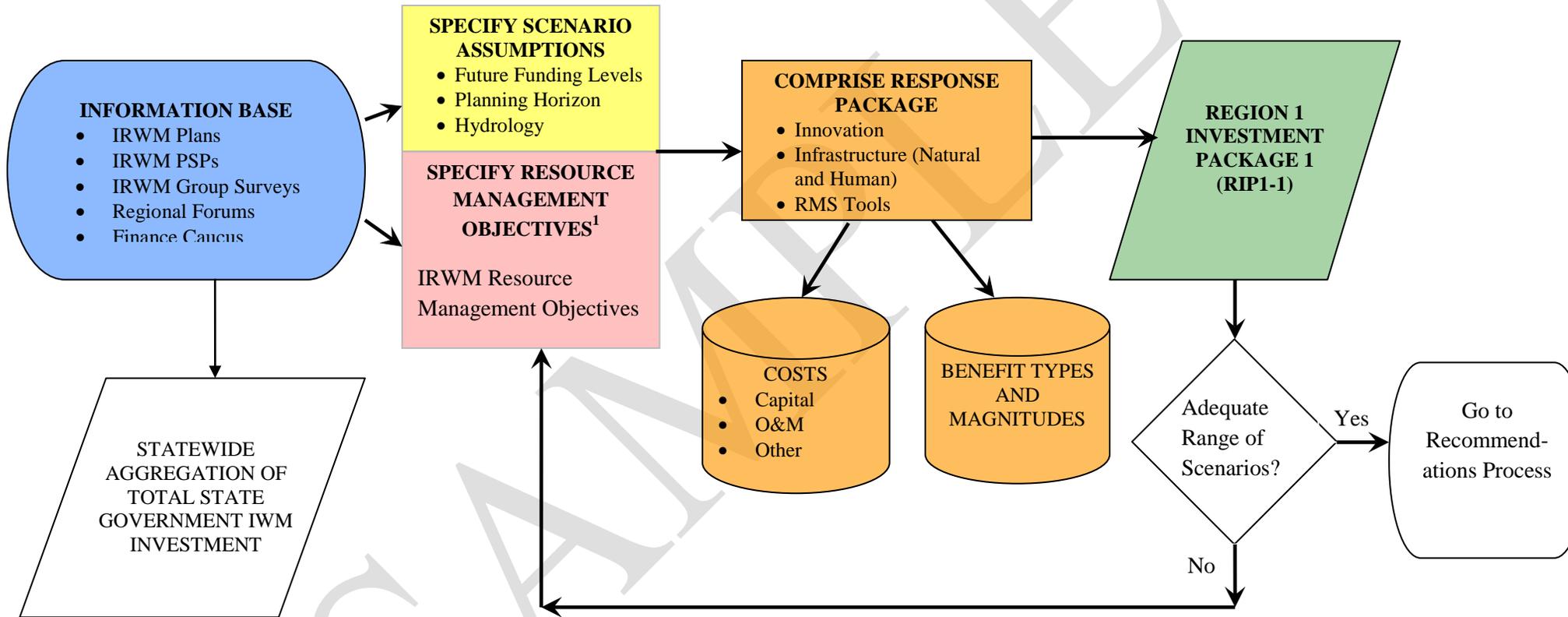
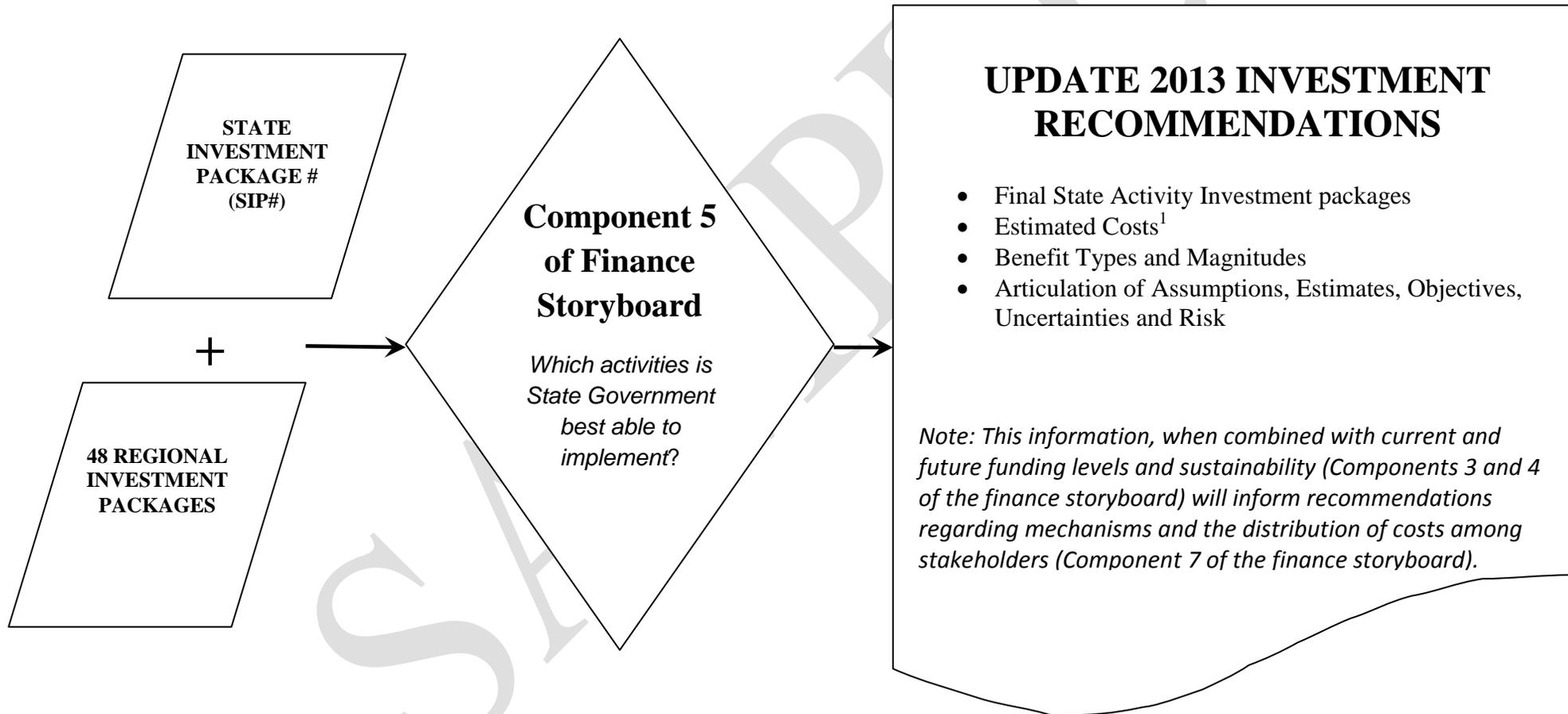


Figure 3 - Regions' Integrated Regional Water Management Activities
Flowchart for Component 2 of the Finance Plan Storyboard



- (1) Recommendations for the State Government's future funding of IRWM activities (Partially achieves Storyboard Component 5) will result, in part, from observed patterns of activities/places among multiple activity package permutations.
- (2) This achieves a portion of Storyboard Component 6 – *How much will the State Governments future role cost?*

Figure 4 - Update 2013 Investment Recommendations Process
(State-Administered Activities; including Local Assistance)
Flowchart for Component 2 of the Finance Storyboard



(1) This achieves a portion of Component 6 of the finance storyboard, which asks: How much will the State government’s future role cost?