



About this Document Client Name: CWCB April 08, 2019

About this Document

This document provides a first pass at a layout, structure, and overall information architecture for the SWSI Update dashboard. This document is intended to start a conversation about the general user progression through the site, and to begin to assess which elements are working and not working with regards to information presentation.

What these wireframes do:

- Communicate general features, structure, and site layout
- Establish preliminary user pathways
- Lay out general content structure
- Provide general basis for visualization design and data collection

What these wireframes do NOT do:

- Illustrate all possible features, options, or content
- Reflect final designs, styles, interactions, or data visualizations

**GENERIC WIREFRAME CONTENT ADAPTED FROM CWP AND EXISTING SWSI MATERIALS.



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Problem Statement

The State of Colorado faces multifaceted water challenges that will manifest in uncertain and uneven ways across the State's basins. These challenges include: a growing water supply gap, competing needs from agricultural and municipal users, critical environmental concerns, variable climatic conditions, inefficient regulatory processes, and limited funding.

BRTs are tasked with addressing these numerous challenges simultaneously. To do so, they need to understand the dynamics of water supply and demand in Colorado and the extent to which future conditions will impact systems at the basin- and state-levels. However, relevant datasets are siloed and are not standardized across the basins. As is, each basin would need to perform complex analyses in order to derive meaningful insights that strategically address water challenges concurrently. These data and communication hurdles inhibit conservation and planning efforts within basins and across the State.

Primary: Basin Roundtables

Target Audience

Secondary: CWCB board, politicians, legislators, water managers, water providers, academics/researchers, general public, and the press/media

Product Definition

The purpose of this interactive, data-driven website is to illuminate statewide water needs, interactions and impacts and promote an understanding of regional water challenges. Unlike existing reports, data warehouses, and GIS repositories, this product encourages knowledge transfer and data exploration across the State and helps BRTs to identify priority areas of concern within the water system, ultimately promoting the justification, development, and prioritization of long-term planning efforts within basins and across the State.

Product will help answer

- 1) What is the water cycle? How does it impact water availability across the State (snow, storage, and peak demand)?
- 2) How does water management in Colorado work (prior appropriations, roundtable process, compacts, etc.)?
- 3) How do supply gaps change over time? How will they change under one scenario versus another? Variability story—we can predict a wide range of futures, but how will we address year-to-year variability in water availability? (reliability, variability, uncertainty)
- **4)** Where is conservation need greatest? How can resources be strategically leveraged to maximize impact?
- 5) How can individuals/organizations get involved?



Site Map

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SWSI Overview Page Introduce SWSI update Links to past SWSI work Caveats/assumptions (link to Methodology) Who made this? (link to About/ Contact) CTA to open tool **About/Contact Page Methodology Details** About page describing the BRT Page providing detailed summary process, links to CWCB contact of SWSI update scenario information (possible contact assumptions, including links to form?), and updates on key StateMod and other input datasets, calendar events (e.g. Basin Round coverage maps, and additional Table). caveats. Climate/Storage Introduction **Dashboard View** Interactive data visualization dashboard focused on explaining Gaps Solutions the 5 scenarios, highlighting data assumptions, and providing statewide and basin-level views of possible impacts of each scenario. Growth Factors



Loading Screen

CWCB/Colorado.gov logo

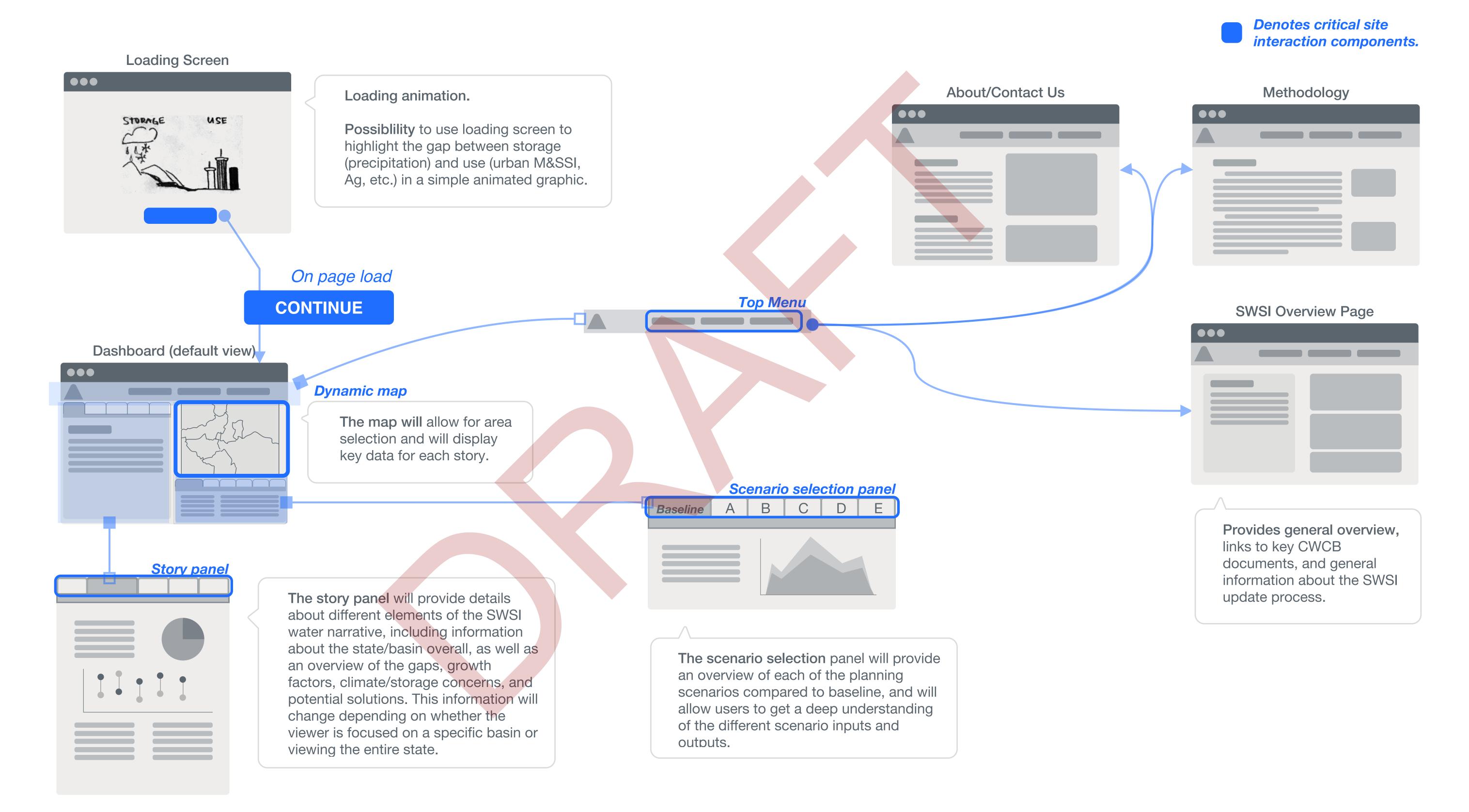
Animation/flashy screen

Lead in to main tool

concepts

Possible introduction to basic

Site Structure / Interaction Map April 08, 2019



Dashboard Screen 1: Statewide introduction April 08, 2019

SWSI Update Dashboard lethodology **Contact Us** Data About **Statewide** Scenario N/A **Focus Area** Growth Factors Solutions Introduction Gaps Upper Green-Flaming Gorge Reservo Statewide Overview/Story A network of water providers, public utilities Municipal, county, and district officials ditch and reservoir companies, individual make day-to-day decisions about topics water rights owners, and special districts ranging from water to emergency deliver Colorado's water. Each river basin in response. Colorado's Water Plan Colorado faces unique challenges that recognizes this structure as an asset—and demand custom solutions. So, who better local control allows us to effectively respond to our water challenges. than local water users and stakeholders to tackle these challenges? **Quick Facts: Statewide** ###,### 5,400,000 Key value M **Statewide Major Industries** Finance & Insurance Statewide Basin Map, All scenarios Transportation Professional Information Education Entertainment Hospitality Wholesalers Construction Real estate Manufacturing Oil & Gas and Mining Other Services Agriculture Utilities Government Management Administrative Statewide Baseline Consumptive Use Agriculture **Environment** (20% (78%)Reservoir Evaporation The total amount of water that originates within Colorado averages 13.7 million acre-feet per year. More than 60 percent of this water exits the state Municipal & Industrial to downstream users. Less than 40 percent, or 5.3 million acre-feet, is consumed on average per year Icons via icons8



Top menu

CWCB.

Allows for navigation to static

reference pages, including

information about the SWSI

update in general, specific

and a contact page for

methodology documentation,

Story selection tabs O-

click through the different

These tabs will allow users to

curated stories. This panel can

images, and "vignette" data

visualizations, as data allows.

feature text content, quick facts,

The spatial scale of the elements

in the story panel will correlate to

the level of resolution of the map

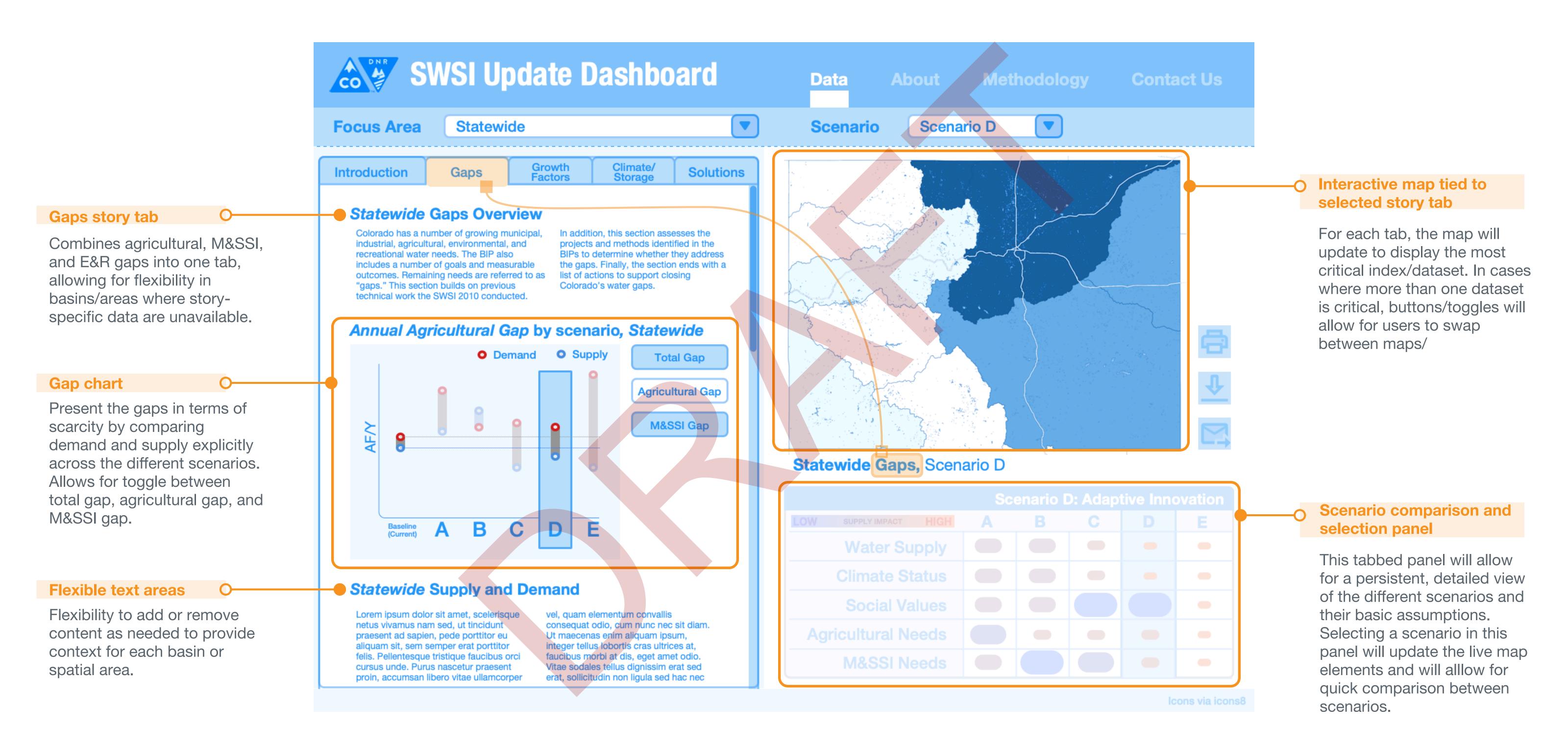
view, allowing users to get a

stories.

view of statewide conditions or

to "drill down" to see basin-level

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Print/Save/Share

In order to allow for offline

access, exporting findings to

policymaker use cases, the

to be exported in a variety of

direct email sharing.

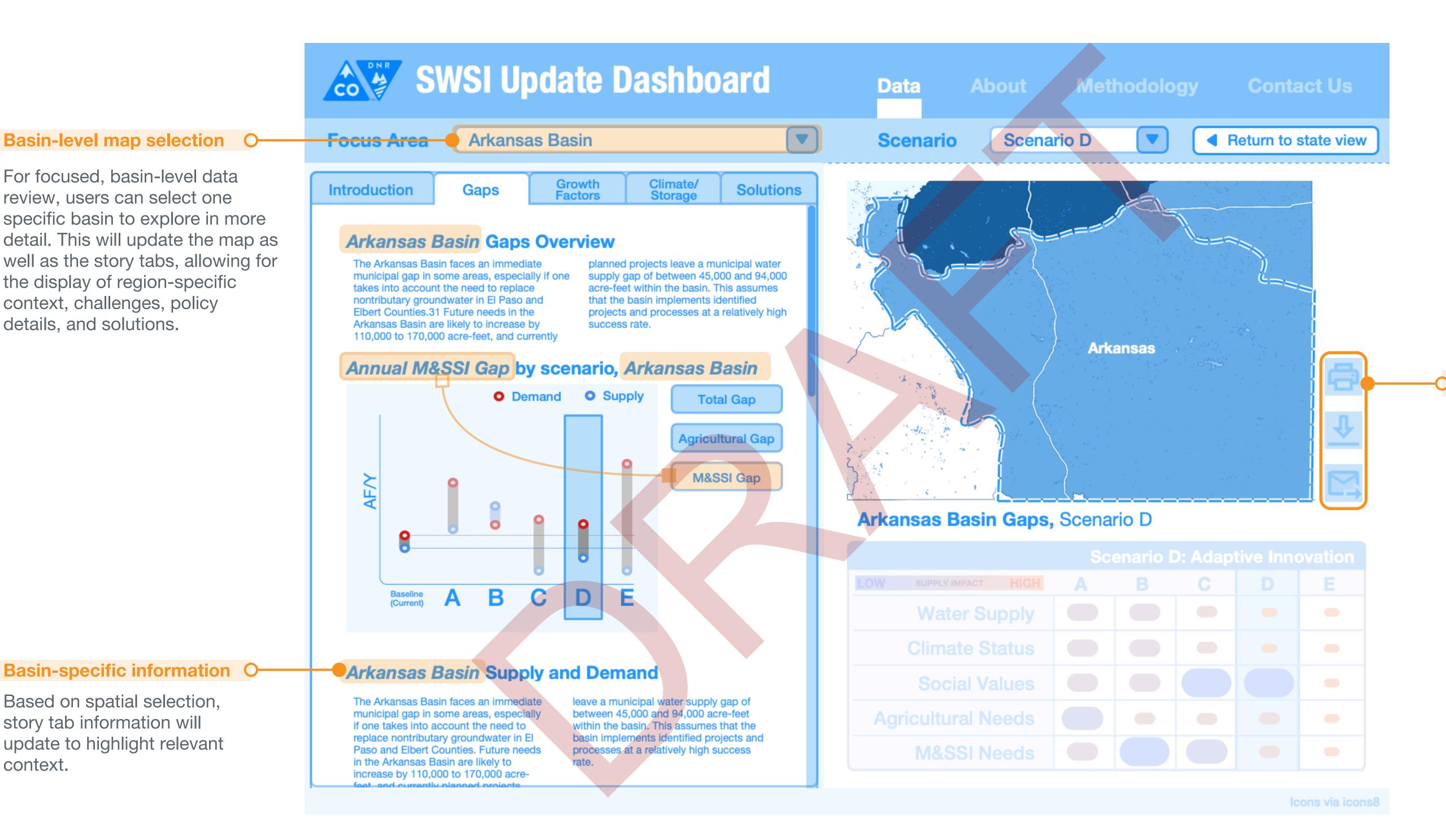
documents, and other basic BRT/

dashboard will allow information

formats, including printed report

download, image downloads, and

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context.

context, challenges, policy

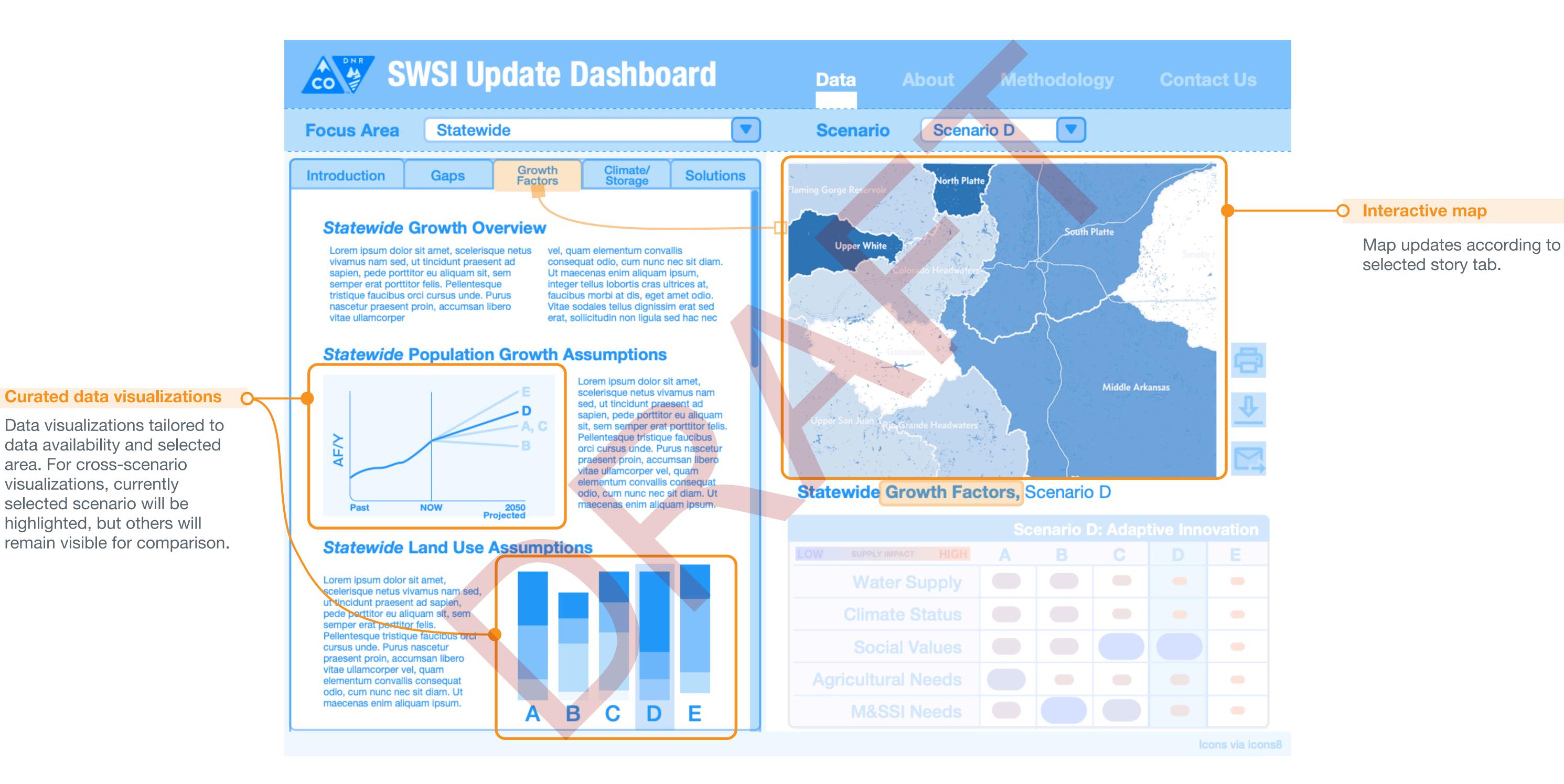
Based on spatial selection,

update to highlight relevant

story tab information will

details, and solutions.

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area. For cross-scenario

selected scenario will be

highlighted, but others will

visualizations, currently