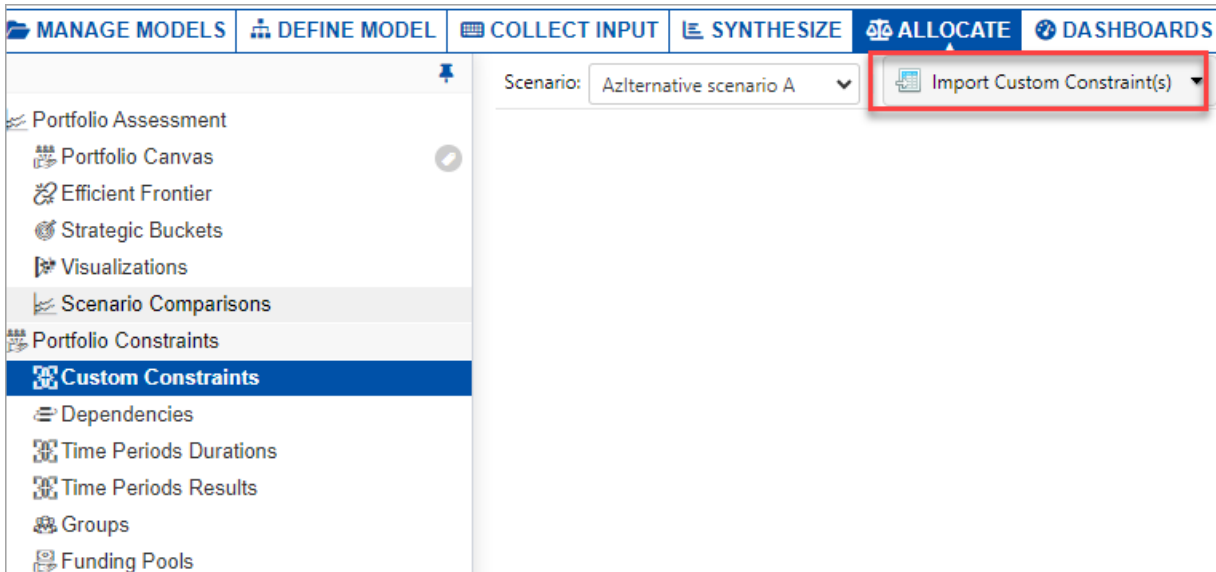


Import Custom Constraints

You can **import custom constraints** from:

- **Categorical Alternative Attributes** - establish strategic buckets for use in "Balance and Coverage" analysis and for use as a constraint
- **Numerical Alternative Attributes** - useful as constraints and for analysis

Navigate to **Allocate > CUSTOM CONSTRAINTS**, then click the **Import Custom Constraint(s)** button:



From Categorical Alternative Attributes (Strategic Buckets)

You can view and manage alternative attributes from the [Alternatives](#) or [Strategic Buckets](#) pages.

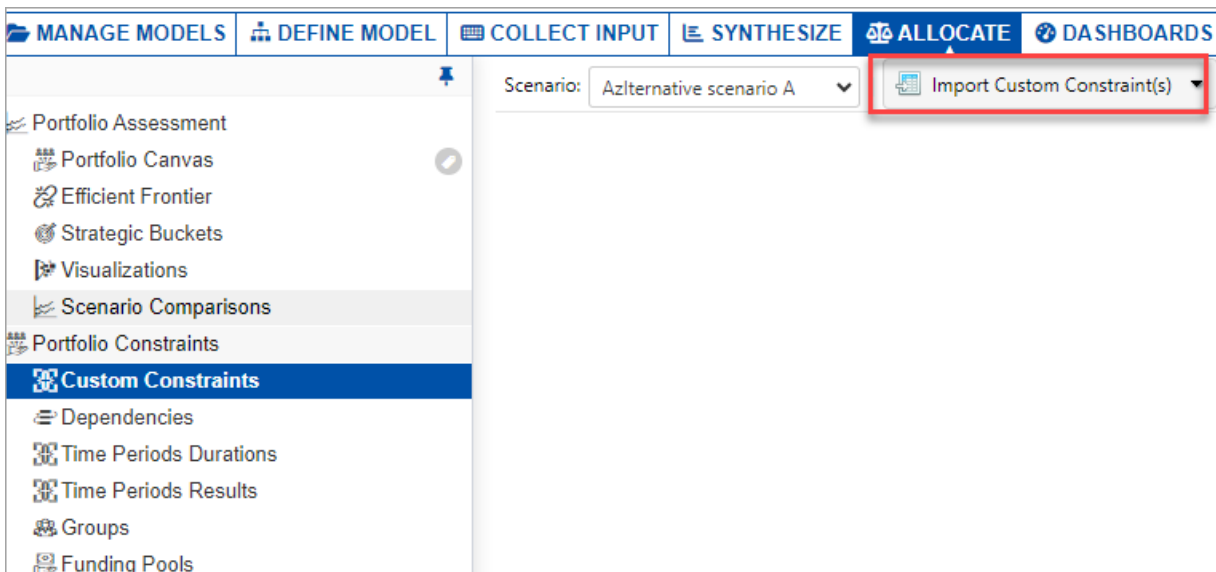
For example, from the Strategic Buckets page below we see an attribute named "Time frame" with Short, Medium, and Long term category items:

Strategic Buckets for Model "Sample IT Portfolio Optimization" ("Default Scenario")

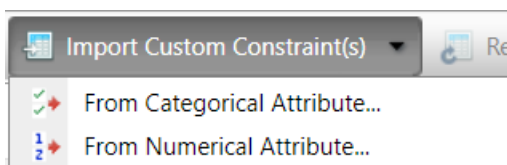
Search:

No ▲	Alternative	Funded	Total	Costs	Time Frame
1	AS/400 Replacements	Yes	0.527	990	Long ▼
2	Cisco Routers	Yes	0.618	500	Medium ▼
3	Customer Service Call Center	Yes	0.604	980	Long ▼
4	Desktop Replacements		0.492	800	Medium ▼
5	EMC Symmetrix		0.528	4,220	Medium ▼
6	Firewall and Antivirus Licenses	Yes	0.568	120	Short ▼
7	Iron Mountain Backup Service	Yes	0.600	430	Medium ▼
8	Laptop Replacements		0.328	1,340	Medium ▼
9	Mobile Workforce Pocket PCs		0.327	230	Medium ▼
10	Oracle 9i Upgrade		0.577	1,890	Short ▼
11	PeopleSoft Upgrade		0.453	1,670	Short ▼
12	Plumtree Corporate Portal	Yes	0.775	1,345	Medium ▼
13	ProServe System Upgrade		0.554	2,300	Short ▼
14	Sales Force Laptops	Yes	0.531	150	Medium ▼
15	SRDF Site/Service		0.453	3,440	Long ▼
16	Thin Client Implementation	Yes	0.713	2,100	Long ▼

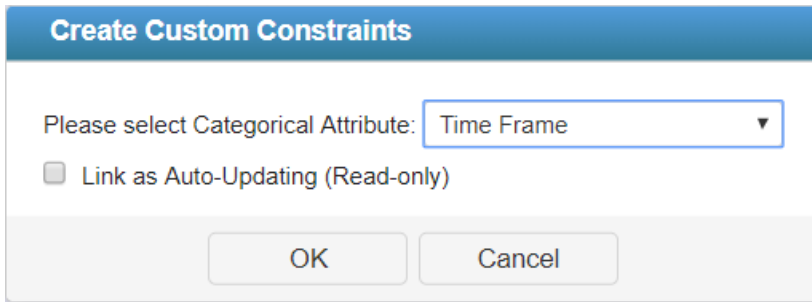
To import the Time Frame attribute as a custom constraint, navigate to **Allocate > CUSTOM CONSTRAINTS** page and then click the **Import Custom Constraint(s)** button:



Select "From Categorical Attribute...":



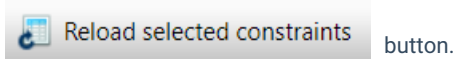
A dialog will open where you can select the categorical attribute:



You can link any custom constraint that came from an Alternative Attribute to its source attribute as **Auto-Updating" (Read-Only)**.

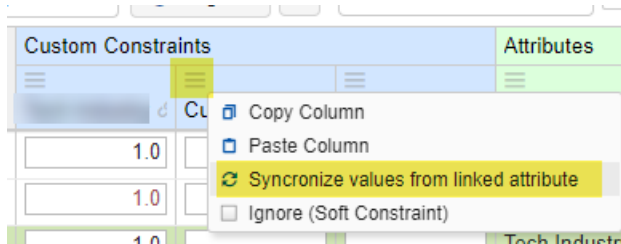
When this option is checked, any updates to the attribute will automatically update the constraint. The constraints in the Allocate Main grid will be disabled for editing (Read-only).

When "Auto-Updating" is unchecked, and you want to manually update or reload the constraints, use the



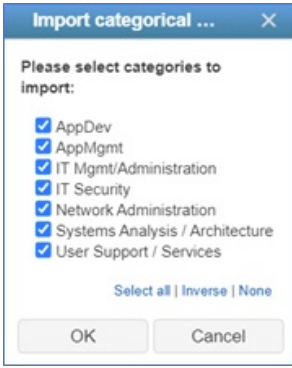
<input type="checkbox"/>	Name	<input type="checkbox"/> Ignore (Soft Constraint)	Action
<input type="checkbox"/>	Network	<input type="checkbox"/>	
<input type="checkbox"/>	Project Mngrs	<input type="checkbox"/>	
<input type="checkbox"/>	Long	<input type="checkbox"/>	
<input type="checkbox"/>	Medium	<input type="checkbox"/>	
<input type="checkbox"/>	Short	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	

or from the Portfolio Canvas page, click the hamburger icon for the custom constraint column and then click **Synchronize values from linked attribute**.



Custom constraints linked to an alternative attribute have a blue chain icon when auto-updating, and a gray chain icon when auto-updating. You can click the icon to toggle on and off.

When creating custom constraints from a categorical alternative attribute, all the attribute categories are selected by default. You can create a separate custom constraint for each categorical alternative or, by deselecting some categories, a sub-set of the attribute categories. In the image below, all the categories of the Sponsor attribute are selected and a separate constraint will be created for each category.



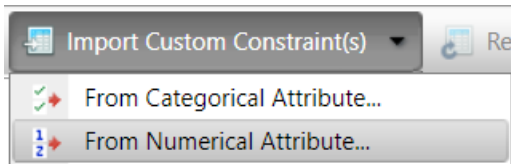
In the image below, the Long, Medium, and Short constraints belong to the Alternative Attribute named "Timeframe." When a project has a particular alternative attribute, a "1" will be placed in the appropriate column. The primary purposes of this is to get a count and to allow for balance and coverage constraints (the totals and constraint rows are not shown in the image below). For example, you can constrain the portfolio to fund a minimum of 3 projects for each of Long, Medium, or Short timeframe.

ID	Alternative Name	Funded	Benefit	E.Benefit	Risk	P.Failure	Cost	Groups	Partial	Min %	Must	Must Not	Network	Project Mngrs	Long	Medium	Short
1	AS/400 Replacements	YES	0.6804	0.6212	0.0592	0.0870	990		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	5	1	1		
2	Cisco Routers	YES	0.7967	0.7768	0.0199	0.0250	500	#1	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	2	0.5			1
3	Customer Service Call Center	YES	0.7789	0.7368	0.0421	0.0540	980		<input type="checkbox"/>	YES	<input type="checkbox"/>	<input type="checkbox"/>	2	0	1		
4	Desktop Replacements		0.6346	0.6289	0.0057	0.0090	800	#2	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	5	1			1
5	EMC Symmetrix		0.6808	0.6038	0.0769	0.1130	4,220		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	3	1			1

From Numerical Alternative Attributes

Importing from Numerical Alternative Attributes is the same process as importing from Categorical Alternative Attributes.

Navigate to Allocate > Custom Constraints page, then click the Import Custom Constraints button and select From Numerical Attribute:



Then select the desired custom constraint to import.