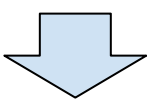
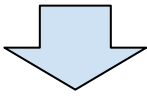


Actual Sourcing Locations (before creating Intervention)							Actual Sourcing Records (before creating Intervention)				Actual SourciIndocatory Records (before creating Intervention)			
id	material	supplier	businessUnit	adminRegion	interventionId	intervType	id	sl_id	year	tonnage	id	sr_id	indicator	value
sl_1	Rubber	SupplierA	Tires	India	null	null	sr_1	sl_1	2022	500	ir_1	sr_1	deforest	5000
sl_2	Cotton	SupplierB	Clothes	China	null	null	sr_2	sl_2	2022	600	ir_2	sr_2	deforest	6000
sl_3	Palm Oil	SupplierC	Food	Indonesia	null	null	sr_3	sl_3	2022	700	ir_3	sr_3	deforest	7000



#### Creating new Scenario

id	title	description
scen_1	Rubber Change	...

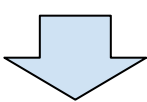


#### Creating 2 Interventions for new Scenario

According to this Scenario - 50% of Rubber will be purchased from new SupplierD, 25% - from new SupplierF and 25% will continue to be purchased from SupplierA

id	scenarioid	title	description	type	percentage	....
si_1	scen_1	Change to SupplierD	Adding new supplier for half of the Rubber	Change of Supplier	50	.....

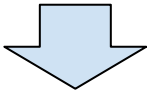
id	scenarioid	title	description	type	percentage	....
si_2	scen_1	Change to SupplierF	Adding new supplier for half of the Rubber	Change of Supplier	25	.....



After creation of Scenario and Scenario Intervention, Sourcing Locations, Sourcing Records and Indicator Records tables will look like this:

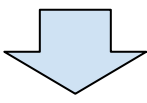
- 4 New Sourcing Locations will be created, with reference to Scenario Intervention Id (2 per Intervention)
- Each of them will have its own Sourcing Records and Indicator records
- Since interventions cover 50% and 25% of Rubber - tonnages of Sourcing Records and values of Indicator Records will be calculated accordingly

Actual Sourcing Locations (after creating Intervention)							Actual Sourcing Records (after creating Intervention)				Actual SourciIndocatory Records (after creating Intervention)			
id	material	supplier	businessUnit	adminRegion	interventionId	intervType	id	sl_id	year	tonnage	id	sr_id	indicator	value
sl_1	Rubber	SupplierA	Tires	India	null	null	sr_1	sl_1	2022	500	ir_1	sr_1	deforest	5000
sl_2	Cotton	SupplierB	Clothes	China	null	null	sr_2	sl_2	2022	600	ir_2	sr_2	deforest	6000
sl_3	Palm Oil	SupplierC	Food	Indonesia	null	null	sr_3	sl_3	2022	700	ir_3	sr_3	deforest	7000
sl_4	Rubber	SupplierA	Tires	India	si_1	Canceled	sr_4	sl_4	2022	250 (50%)	ir_4	sr_4	deforest	-2500
sl_5	Rubber	SupplierD	Tires	Brazil	si_1	New	sr_5	sl_5	2022	250 (50%)	ir_5	sr_5	deforest	2000
sl_6	Rubber	SupplierA	Tires	India	si_2	Canceled	sr_6	sl_6	2022	125 (25%)	ir_6	sr_6	deforest	-1250
sl_7	Rubber	SupplierF	Tires	Spain	si_2	New	sr_7	sl_7	2022	125 (25%)	ir_7	sr_7	deforest	1000



Use case: User requests comparison table - Actual Data vs Data with Scenario implemented.  
User wants to see all the materials, not just the one affected by Scenario  
Api will receive following data:

- Filters for material, supplier, business unit, admin region - **none**
- Scenario id - **'scen\_1'**



Expected response from api in json format :

```
impactTable: [
  {
    indicatorShortName: 'Deforestation',
    groupBy: 'material',
    rows: [
      {
        name: 'Cotton',
        values: [
          {
            year: 2022,
            value: 6000,
            scenarioValue: 6000,
            absoluteDifference: 0,
            percentageDifference: 0,
            isProjected: false
          },
        ],
      },
      {
        name: 'Palm Oil',
        values: [
          {
            year: 2022,
            value: 7000,
            scenarioValue: 7000,
            absoluteDifference: 0,
            percentageDifference: 0,
            isProjected: false
          },
        ],
      },
      {
        name: 'Rubber',
        children: [],
        values: [
          {
            year: 2022,
            value: 5000,
            scenarioValue: 5000 - 2500 (canceled) - 1250 (canceled) + 2000 (new) + 1000 (new) = 4250 ,
            absoluteDifference: -750,
            percentageDifference: -15%,
            isProjected: false
          },
        ],
      },
    ],
  },
]
```

#### Data Processing Questions:

In order to get data from database, following WHERE must be added to the sourcing\_locations query ('sl'):

WHERE 'sl.scenarioInterventionId'=null OR 'sl.scenarioInterventionId' in ('si\_1', 'si\_2')

Unprocessed array of results will be the following (from `getDataForImpactTable` method)

```
[
  {
    year: 2022,
    name: Rubber,
    tonnes: 500,
    impact: 5000,
    scenarioInterventionId: null,
    typeByIntervention: null
  },
  {
    year: 2022,
    name: Rubber,
    tonnes: 250,
    impact: 2500,
    scenarioInterventionId: si_1,
    typeByIntervention: CANCELED
  },
  {
    year: 2022,
    name: Rubber,
    tonnes: 125,
    impact: 1250,
    scenarioInterventionId: si_2,
    typeByIntervention: CANCELED
  },
  {
    year: 2022,
    name: Rubber,
    tonnes: 250,
    impact: 2000,
    scenarioInterventionId: si_1,
    typeByIntervention: NEW
  },
  {
    year: 2022,
    name: Rubber,
    tonnes: 125,
    impact: 1000,
    scenarioInterventionId: si_2,
    typeByIntervention: NEW
  },
  {
    year: 2022,
    name: Palm Oil,
    tonnes: 700,
    impact: 7000,
    scenarioInterventionId: null,
    typeByIntervention: null
  },
  {
    year: 2022,
    name: Cotton,
    tonnes: 600,
    impact: 6000,
    scenarioInterventionId: null,
    typeByIntervention: null
  },
]
```

#### Processing Data

