The title of this video is “Define Metric Results”. The Define Metric Results video demonstrates how to use the Define Metric Results wizard in AEDT. The wizard allows users to assign metrics, receptors, grouped operations, annualization, and processing options. These five elements form the basis for calculating environmental consequences of aviation activity.

Metric results are used to evaluate environmental consequences of aviation activity. Metric results are representative of metric, receptor set, operation, and annualization combinations. Note that receptor sets are not used for emissions or fuel consumption metrics.

The Metric Results pane displays all metric results defined in the current study. The State column indicates the processing status of each metric result. Possible states include: ready to be run, run in progress, completed, and error.

The metric results Details tab displays additional information about the selected metric result. The metric results Aircraft Operations tab displays aircraft operations that contribute to the selected metric result. The metric results Tracks tab displays the collection of tracks used by operations in the selected metric result.

Metric results are defined through the Define Metric Result wizard. The study must contain operation, equipment, airport, and annualization content in order to complete the Define Metric Results workflow. Receptor set content is also required for noise or air quality metrics and operational profile content is required for delay and sequencing modeling on taxi operations.

Click the Define button to open the wizard. Add any number of metrics of interest in this step. Noise, emissions, emissions dispersion, and fuel consumption metrics are available. All metrics can be added or removed as one group. All columns can be sorted and filtered. Hold the Shift key to select a range of metrics or control to select multiple metrics.

Receptors are geographic locations where noise or emissions dispersion is evaluated. A receptor set is a collection of receptors. Add receptor sets in this step. Expand available receptor sets to view additional information about receptors in the receptor set.

An annualization is a collection of operation groups that is associated with the analysis time period, weightings for the included operation groups, and a subset of processing options for the included operation groups. Select an annualization in this step. A list of available annualizations is displayed on the left. The structure and details of the selected annualization is displayed on the right.

Processing options are selected for each metric type in this step. This example will use default options.

A summary of selected options are shown in the last step. Click the Create button to define the metric results. The new metric results have been added to the Metric Results pane and are ready to be processed.

For more information and support on the Federal Aviation Administration's Aviation Environmental Design Tool (AEDT), visit <https://aedt.faa.gov/> or e-mail aedt-support@dot.gov.