



Flexible Student Dashboard

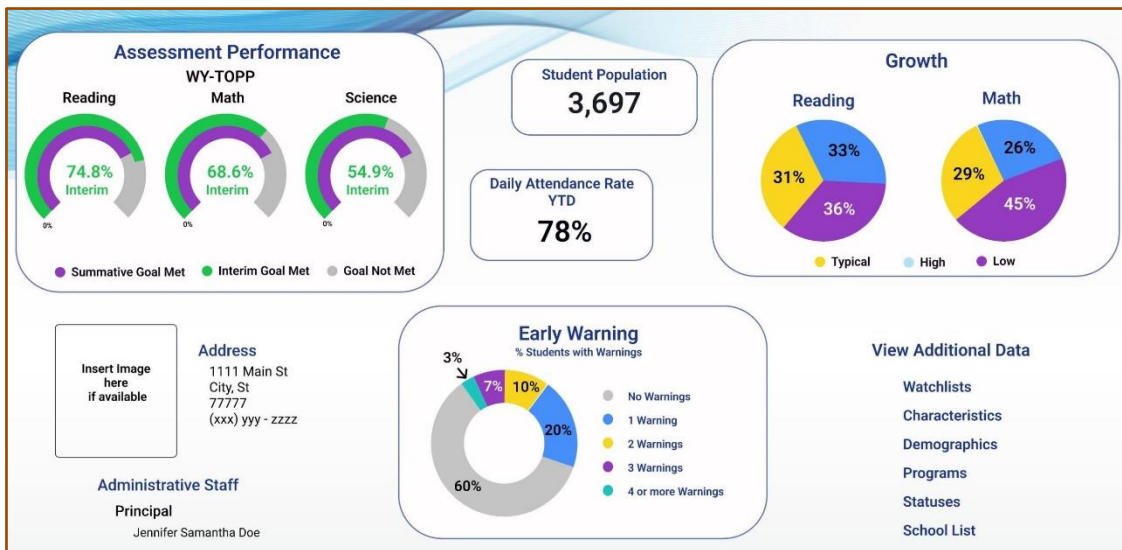
ESP has been involved in the evolving story of Ed-Fi education dashboards since they began development in 2010. We are a member of the visualization working group. The working group focused on alternate approaches for visualizing student data for educators. There were two overriding issues with the original Ed-Fi dashboards.

- The visual style was stale and did not represent more modern approaches to visualization.
- The data within the dashboards focused on data already available to educators through other platforms – most often the SIS.

ESP’s insight was that there were important and powerful advantages available from the original implementation of the dashboards if the visual layer was modernized. The infrastructure of functionality is readily available in the open-source libraries and implements a broad and extremely flexible set of capabilities. A partial list shows the advantage of retaining these functions.

- OAuth authentication and authorization easily tied to active directory
- Top to bottom FERPA compliance since the system has educator and enrollment relationships
- Automatic aggregation of metric data from individual student to classroom to school to district
- Automated scheduled update of metrics from the underlying ODS data

ESP has developed a custom visualization subsystem using Highcharts and AG Grid. These two subsystems have a simple but powerful infrastructure of visual capabilities that can quickly be adapted to the underlying data metrics. The district landing page in the image below shows what a Wyoming district administrator or staff member sees when logging into their Ed-Fi dashboards.



There are two important highlights in this visual that address the concerns regarding the original Ed-Fi dashboards.

- This UI adapts to the display device; so, it adjusts how data metrics are presented for a wide variety of devices including phones and tablets.
- The elements being displayed are modules that can be added and removed to provide the specific data a district user deems most important.

Note that the top right box labelled “Growth” presents metrics for the Wyoming Growth Model, which was added to the Ed-Fi ODS for Wyoming and is not part of Ed-Fi core. The focus of our dashboards is to tie together data from disparate sources to achieve the full promise of Ed-Fi interoperability.

HOW DO I GET STARTED?

ESP offers a unique approach to our Ed-Fi Product Suite. At no charge, ESP will allocate one week of services to implement a structured evaluation with customer stakeholders. The evaluation considers the full set of service requirements, hosting considerations, and an assessment of the viable and desired data content. The result of the evaluation is a product and service offering with one-year guaranteed fixed price.