X25 Analytics Reports

X25 Analytics contains many reports designed to let you dig deeper into your snapshot data and explore the relationships between events and their locations. They are located on the **Reports** page found on the left sidebar under **Projects** > **Metrics**.

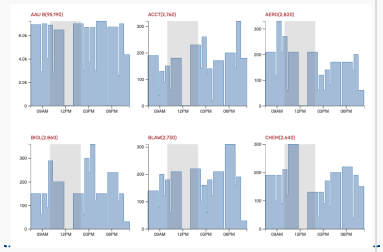
To switch between reports, select a report's name from the drop-down selector in the navigation breadcrumbs. You can also select a filter for your snapshot to narrow down what's visible in the report.

Reports can be shared with other people (even ones who don't use X25) by generating a public link to a fully interactive report or downloading a static image.

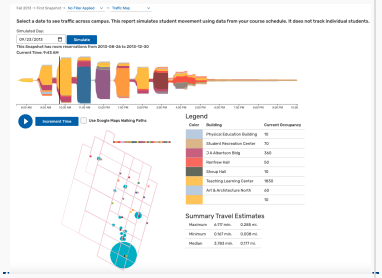
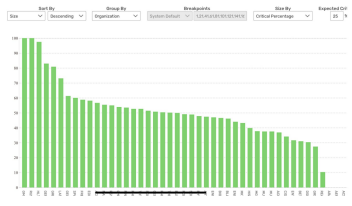
> **Note: 25Live Building Data**
>
> Building data added and edited in 25Live is automatically included in many X25 Analytics reports.

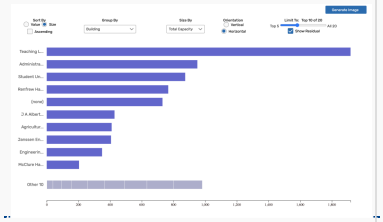
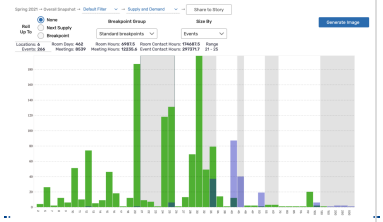
Available Reports

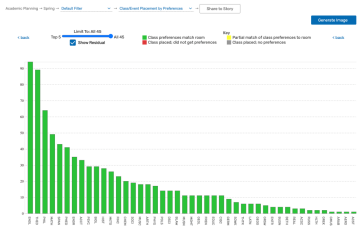
Report	Type	Summary	When is it useful?
Event Distribution 	Scheduling Effectiveness	• Displays aggregate counts of events, occurrences, and total durations without regard for location assignments. • Groups events by a variety of factors including organization, start time, meeting days, and more. • Uses color to indicate different start times or flag events that comply with standard meeting pattern schedules.	**Pre-Optimizer or Academic Term Review** By shading events according to standard schedule compliance, a scheduler can see at a glance which departments are best at adhering to standard meeting times. By shading events according to start time and sorting by enrollment, the scheduler can see whether there are "hump" times when too many classes of the same size are scheduled at once. These and other analyses give the user an opportunity to either adjust a class schedule before placing locations with the Optimizer or apply lessons learned to a future term.

Report	Type	Summary	When is it useful?
Schedule Distribution 	Scheduling Effectiveness	• Highlights the different meeting patterns present among classes in a snapshot. • Shows the relative distribution of class/event meeting schedule blocks by day, start and end times, duration, and frequency of use; and the relative overall enrollment of class meetings scheduled in those blocks.	**Pre-Optimizer** Academic schedulers might use this report before running the Optimizer to place classes. The report identifies which classes have problematic outlier meeting patterns, giving the scheduler an opportunity to adjust term data before placement. **Academic Term Review** Reviewing a past term with this report reveals the number and severity of non-compliant meeting patterns so they can be addressed in next year's scheduling process.
Demand by Time 	Scheduling Effectiveness	• Shows how classes in each department are distributed. • Assesses classroom demand across the day. The report compares demand over a daily time span with demand over a customizable "critical range".	**Planning Critical Times** This report allows users to define a "critical range" of hours in the day. This could represent mornings, evenings, lunchtime, or any other period which needs special consideration during schedule-building. Schedulers can rank departments by how often they meet during this critical range, either as a raw number of classes or a percentage of total offerings.

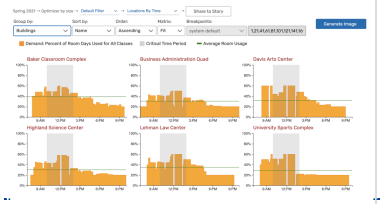
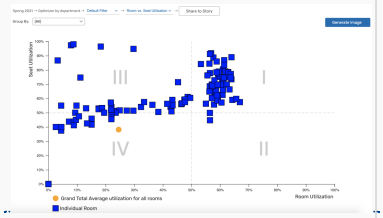
Report	Type	Summary	When is it useful?
Passing Times Traffic 	Scheduling Effectiveness	• Shows the different start and end times of all events scheduled within a single building. • Indicates how many attendees are collectively beginning or ending an event at once.	**Academic Term Review** A scheduler could use this report to see whether buildings become overcrowded at particular times with too much foot traffic at once. Depending on how well the class schedule adheres to standard meeting patterns, there could be a large building up in the halls. **Campus Safety and Social Distancing** A campus safety coordinator can compare the number of people entering and leaving a building at a given time to institutional guidelines on safe passing times or perimeter control.

Report	Type	Summary	When is it useful?
Traffic Map 	Scheduling Effectiveness	• Simulates student movement on a campus map over the course of a single day. • Summarizes the occupancy of each building at a specific point in time.	**Schedule Building** "Play back" a day from a previous or planned term using registered or expected headcount data to understand where students will be spending their time and how they will be moving between classes. Use this to decide whether a schedule is too busy in the morning or evening, or if classes need to be more evenly distributed across campus. **Construction Planning** By seeing the routes students take between buildings, you can decide whether it's appropriate to add new walkways or structures on campus. **Major Event Visualization** Apply the traffic map to upcoming conferences, performances, games, ceremonies, and other large events to see the effect on overall movement patterns. This can help you plan for parking needs or campus security.
Critical Time Usage 	Scheduling Effectiveness	• Shows the organizations with the highest critical time percentage • Includes groupings to display a shaded ratio of total meeting hours	**Assessing Compliance** This report helps assess critical time compliance by organization, college, headcount, duration, day combination, meeting pattern, and breakpoints.

Report	Type	Summary	When is it useful?
Location Inventory 	Inventory Fitness	• Displays aggregate count of locations without regard for any assigned events. • Groups locations by a variety of factors including organization, building, capacity, room use code, and partition.	**Inventory Review** This report provides a quick count of all the locations present in a building or partition, useful for review before running the Schedule25 Optimizer. It also allows for an easily eyeballed view of how many locations are represented in each capacity (or capacity range).
Supply and Demand 	Inventory Fitness	• Behaves like a combination of the Event Distribution and Location Distribution reports, displaying counts side by side regardless of location assignments. • Compares events and locations along relevant lines, such as the total duration of occurrences vs the total amount of time available in locations.	**Inventory Review** This report helps assess whether there are enough spaces of appropriate size on campus to host the desired classes and events. It is useful in conjunction with filter options on a snapshot.

Report	Type	Summary	When is it useful?
Class/Event Placement by Room Capacity Report 	Inventory Fitness	Shows how well enrollment sizes match or fit their assigned locations.	**Reviewing Location Schedules for Capacity** Use this report to answer questions, such as: • How well does our location inventory match our class size requirements? • How well are classes filling the location in which they are placed? • Are they a good fit for our seat utilization standards? • Are there any apparent location size shortages that affect this cascade into larger and larger locations?
Class/Event Placement by Preferences Report 	Inventory Fitness	Shows how well rooms match class and sponsor organization requirements or how well classroom features are being used.	Use this report to answer questions like: • How well do rooms match class and sponsor organization requirements? • How efficiently are classroom features being used?

Report	Type	Summary	When is it useful?
Location Usage 	Utilization	• Behaves like a combination of the Event Distribution and Room Distribution reports, limited only to locations with assigned events. • Groups locations by a variety of factors (similar to Location Distribution) and measures the total count of events, occurrences, or durations (similar to Event Distribution). • Uses color to indicate different room utilization or flag events that comply with standard meeting pattern schedules.	**Academic Term Review** Examining a past term with this report reveals usage patterns throughout the snapshot. A scheduler can identify locations that had a high degree of events with standard or non-standard meeting patterns and compare which factors (building, partition, etc) may have led to this.

Report	Type	Summary	When is it useful?
Locations by Time 	Utilization	• Shows how groups of locations are occupied at different times. • Indicates the percentage of time locations are in use and how location usage varies over the course of the day. • Compares usage at a given point in time with the daily average.	**Academic Term Review** The report allows users to review how different size categories of locations (small, medium, and large) are used over time. Look for aberrations--is the distribution unusual for a particular group? **Conference Analysis** When a conference or large-scale event is scheduled across many locations on campus, a narrow snapshot focusing on just those reservations can be illuminating. Are all the breakout locations used as efficiently as possible?
Room vs Seat Utilization 	Utilization	• Compares location utilization in two different ways • Shows average utilization for an entire group of locations such as buildings or capacity breakpoints	**Scheduling Review** This report divides locations into four performance quadrants based on their average room utilization (how much the location is being used throughout the day) and seat utilization (how full it is while it's in use). By identifying locations that have high or low utilization in one or both ways, you can assess which areas of campus are being used most effectively. This applies both to academic scheduling as well as event planning.