Architectural Programming

The architectural programming process can be extremely complex. For some projects, such as hospitals, science labs, airports, or even corporate campuses, the architectural program must synthesize a widely varied range of needs into a statement of requirements that will guide the design team, facilitating better designs that meet the Owner’s space and functional needs.

Affinity Programming

Affinity Programming has been used by owners and architecture firms for over 8 years to capture building project requirements and convert them into detailed, comprehensive programs for a wide range of project types. The software is designed for the architectural programming process. It combines a highly configurable platform with rich data and graphical tools to capture extensive client information, analyze it in interactive views, and create client-ready reports and presentations.

We found on two of our recent projects - one corporate relocation engagement and one healthcare emergency department - that this technology has provided faster results with accurate programmatic interface and graphic quality.

The robust character of this program lends itself to quick turnaround effort for both planning and design. I love the diversity and graphic quality of the product.”

- James G. Easter, Jr., FAAMA
SVP, Principal Director of Planning & Programming
HFR Design

Who Benefits
Programmers, Project Teams, and Owners

How Affinity Benefits You

At its simplest, an architectural program is a list of required rooms. Affinity expands on this to meet the multi-dimensional needs of the most complex programs, including:

+ Functional requirements
+ Building requirements (codes)
+ Staffing plans / head count vs. capacity
+ Support for alternative workspace strategies
+ Detailed room specifications
+ Time phases (short-term renovation, new construction)
+ Department and room relationships and adjacency requirements
+ Conditional requirements, e.g. 1.5 of ‘x’ for every 3 of ‘y’
+ Conceptual scenarios for feasibility and budgeting
+ Constraint and driver-based requirements
+ Stored process knowledge, domain expertise, and best practices for use project-to-project

Template-Driven

Affinity is template-driven, which allows users to configure the software and data for specific types of projects or buildings. For example, a hospital will require standards-driven room types, programs that follow industry guidelines, and access to an extensive medical equipment database. All of this data can be stored in a template, ensuring best practices are maintained and re-used project-to-project.

Flexible Program Creation

Program data can be entered through forms, dialog boxes, imports from Excel, and pulled from pre-defined program templates. Room requirements can be defined using several different methods, including quantity, area, conditions / drivers, and area percentages. Affinity also handles deep program hierarchies - Divisions, Sub-Divisions, Departments, Sub-Departments - automatically calculating total quantities, areas, costs, and circulation.
Comprehensive Room Data Sheets

Templates allow users to define an unlimited number of data properties associated with rooms and any other program elements. The flexible report editor ensures that detailed room data sheets, displaying potentially hundreds of room properties and associated graphics, can be formatted to user standards.

Real-Time Graphical Views

Relationship and stacking diagrams are very useful graphical tools to convey concepts to the owner or client. They are based on the program, and will adjust in real-time with changes to the program - eliminating re-work of presentation materials.

Analysis and Reporting

Programs typically go through multiple reviews and iterations with the client. Metrics, calculated totals, and other information must be available in different formats for different audiences. The look-and-feel of Affinity, including views, reports, and forms, can be easily tailored to meet these needs.

About Trelligence

Trelligence Affinity is a unique BIM software solution for the AECO industry. Affinity includes a full suite of user-friendly functional planning and design tools for architectural programming, space planning, conceptual and schematic design, reporting, and design validation in a single platform. Affinity seamlessly interoperates with Autodesk® Revit® Architecture, Trimble® SketchUp, Bentley AECosim Building Designer, Graphisoft® ArchiCAD, and IES VE-Gaia & VE-Navigator for LEED®, for an efficient and integrated design workflow. Affinity BIM integration enables real-time design-to-program analysis and unprecedented early sustainability analysis. Trelligence is an established member of the Autodesk Developer Network.

For more information and video demonstrations, visit www.trelligence.com.

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