

Process-Based Facility Design



Siemens routinely works with healthcare institutions to advise them how to design, model and optimize facility designs for enhanced clinical workflow and patient experience. Through our Process-Based Facility Design solution, we help to align your facility design with your overall strategic objectives. We accomplish this by providing a comprehensive analysis of your clinical processes and technologies and how they relate to your facility design to help you achieve the highest return on capital and real estate investments.

Whether you are at the conceptual phase of a new facility design, or would like validation of an existing architectural plan, Siemens consultants can provide valuable recommendations that will help you to optimize your clinical and operational processes.

Optimizing Process Flows

Siemens consultants will proactively work with you to optimize process flows within your facility's design plans. By identifying current process inefficiencies in the earliest stages of a facility design, new processes can be created rather than improving inefficient ones.

A Process-Based Facility Design analysis takes into account:

- room sizes and adjacencies
- use of multi-function and hybrid spaces
- waiting and holding areas
- patient and staff flow based on volume, procedure type, and resource needs
- storage of — and access to — supplies, linens, waste, etc.

After the design analysis is complete, we deliver recommendations for best use of the facility space in light of the specified services and related patient and staff workflows. Our goal is to help you improve overall clinical workflows — without the need for alterations after construction.

Strategy for an Integrated Technology Infrastructure

The Siemens team first analyzes workflow by collecting input from physicians and staff. The facility design is then assessed and reviewed based upon your facility's specific requirements and clinical and operational processes. This assessment helps to improve efficiency by identifying areas of optimization and technology convergence.

Consider Process-Based Facility Design if you are looking to:

- Construct a new inpatient or ambulatory facility
- Renovate existing workspace
- Develop new ways to improve quality of care and increase workflow efficiencies

Enhancing clinical workflow and patient experience through optimal facility design

Benefits and Outcomes

With Siemens Process-Based Facility Design, your organization can improve its healthcare performance while reducing costs. This value-added solution can help you to achieve:

Increased Quality

Quality of care can be enhanced through a facility design that supports the standardization of patient care. Our design recommendations take these important considerations into account:

- patient visibility to staff
- time to expedite care
- continuity of patient care
- clinical decision support at the bedside
- proper documentation
- ease of transfer (inter- and intra-hospital)

We also provide recommendations that may help you to achieve measurable improvements in patient care through:

- reductions in the incidence of medication errors and patient falls
- decreased infection rates
- lowered lengths of stay
- decreased complications
- reductions in noise

Improved Patient Experience

Shorter wait times, shorter walking distances within the facility, and less administrative “shuffle” are all important factors that contribute to greater patient satisfaction with the care provider and greater confidence in the diagnostic outcome.

We also consider other tangible design features that provide benefits to patients, including:

- adequate parking and valet services
- access to public transportation
- location of hospital entrances near key service areas
- easy traffic flow within the hospital
- proper number and location of elevators, stairs, and public restrooms
- appealing and comfortable waiting areas, plus family amenities, i.e., coffee shop, gift shop, wireless access

Patient satisfaction also involves security, patient privacy, and HIPAA compliance issues. Siemens takes all of these factors into account when reviewing your facility design.

Improved Physician and Staff Satisfaction

Shorter walking distances, logical adjacencies to supplies and resources, and more convenient access to information all contribute to greater workflow efficiency — which reduces stress for physicians and staff.

Greater Potential for Financial Efficiency

As patients are processed more smoothly, volumes can be increased. Siemens examines workflow and space allocation to enable you to accommodate future technology upgrades without costly reconstructions. In addition, staffing and scheduling issues can also be addressed resulting in:

- reduced overtime
- optimized scheduling
- increased patient throughput
- increased room turnover time
- better economies of scale as well as cost savings per procedure and by DRG

Linking strategy, processes, and technology is one of the greatest challenges faced by healthcare providers today. Siemens consultants help clients to put the pieces together. Learn more about Siemens suite of value-added consulting services that help you achieve your healthcare goals and reach new levels of quality patient care. www.usa.siemens.com/optimize

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