



CLEANROOM FACILITY PLANNING

Your Roadmap to
Project Success.

*Choosing the right partner is the most important decision you make.
Compass gives you a strategic focus to develop your roadmap to success.*

Your cleanroom is **one of the most critical assets** in your manufacturing process. The decisions you make in the early planning stages—process flows, room classification, equipment design, containment philosophy and utility infrastructure—will impact your operational success for decades.

Too often, cleanroom projects sprint into detailed design or construction without front-end planning. The result? Compromises that force your science to fit the building—rather than the building supporting your science. Conceptual design is the crucial step to set your project guiding principles, bringing clarity from the complex needs of your process operations to your business strategy.



Costly Changes

Late-stage design modifications and change orders.



Compliance Risks

Inability to achieve regulatory alignment.



Misaligned Stakeholders

Scope creep between project design partners.



Efficiency Gaps

Building constrains the science instead of supporting it.

Plan Right. Build Right.

Front-end planning with Compass™ captures critical decisions integrating compliance principles from the start. Our rigorous methodology eliminates gaps, aligns stakeholders, and establishes a design basis that ensures your facility is built right—so it can scale with your science now and in the future.

Through highly valuable consultation and conceptual design services, we provide the tools to make the right investment decisions. As your only full life-cycle partner from design through construction to service and maintenance, we're your partner for the life of your facility.



Why Compass?



Mitigate Project Risk

Front-end planning with Compass reduces costly late-stage changes by 30–50%. Cost of changes in design escalate exponentially during construction and further in commissioning - with even more impact from loss to market.



Accelerate Time-to-Market

Compass accelerates project delivery timelines by 20–30% through an integrated design philosophy and creating a project road map preventing delays in redesigns.



Early Regulatory Alignment

Every decision integrates cGMP and regulatory compliance principles from the start. Your facility from concept to compliance isn't bolted on, it's embedded.



Clear Scope Definition

Gain a comprehensive design basis—a holistic cleanroom approach, robust foundation that provides scope assurance, eliminating gaps, and enables streamlined design-build execution.

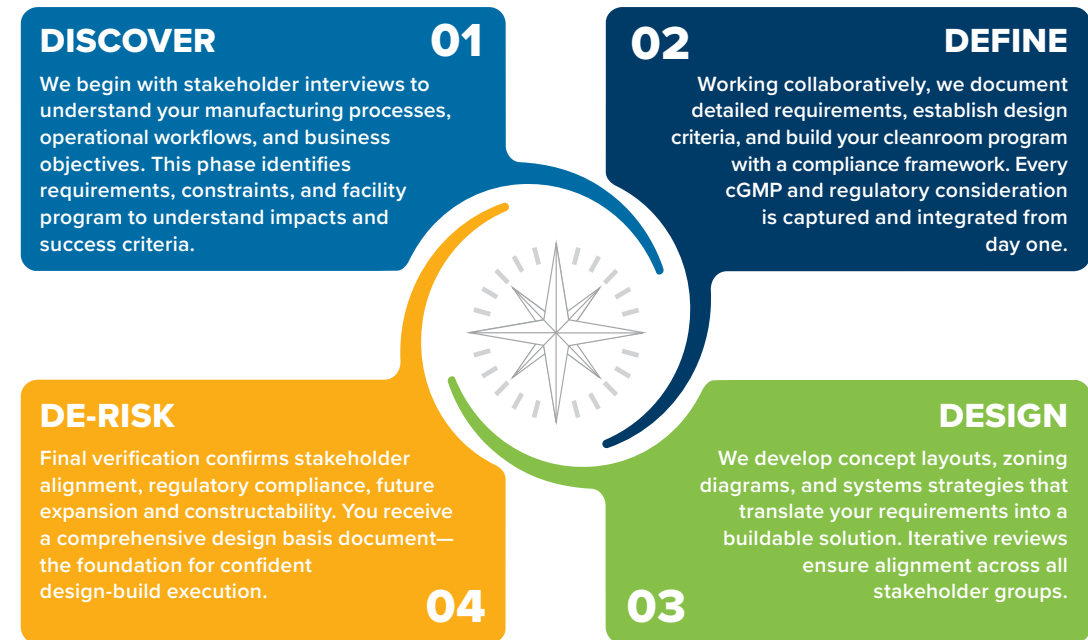


Operational Efficiency

Facilities tailored to your workflows—the building supports and can scale with your science, not the other way around - no compromises on process efficiency.

The Compass Process

Compass delivers a proven integrated design methodology that transforms complex facility needs into executable solutions through structured and collaborative planning.



We recently engaged the AES Compass Program Team to support us in defining the scope, schedule, and budget for a major project at our facility. The AES team was excellent to work with, bringing a deep bench of experience and expertise. Their comprehensive proposal provided the clarity and confidence we needed to move forward—reinforcing our trust in a team that will partner with us at every step of the project.”

Lance Monilaws – Director, Industrial Project Management - **Aldevron**

Compass Services

Consultation Services

- ▶ GMP Flow Analysis
- ▶ Design Peer Review
- ▶ Regulatory & cGMP Assessment
- ▶ Business Case & Capital Planning
- ▶ Infrastructure Assessment & Test-Fit

Compass Design Services

- ▶ Programming & Requirements Definition
- ▶ Concept Layout Development
- ▶ ISO Classification, Zoning & Pressurization Strategy
- ▶ Cleanroom Systems Definition
- ▶ Integrated HVAC Strategy
- ▶ Visual Representations

Compass Deliverables

Process Architectural & Mechanical Layouts	Visual documentation of spatial relationships, classification zones, and operational flows
Comprehensive Design Basis Narrative	Single source of truth capturing every requirement, decision, and specification with full stakeholder alignment
Regulatory & cGMP Alignment Report	Detailed compliance roadmap including CCS, classification strategy, GMP flows, airflow requirements and pressure cascades
Risk Mitigation Support	Identified potential issues with prioritized mitigation strategies
Budget & Schedule Framework	Realistic projections based on actual AES manufacturing capabilities
Seamless Transition Proposal	Clear documentation for smooth handoff to design-build execution

Engagement Scope & Approach

Duration	4–12 weeks (varies by facility complexity)
Approach	Collaborative workshops with iterative design reviews
Stakeholder	Operations, Quality, Facilities, Engineering, Leadership
Outcome	Compliance-ready facility roadmap with transition path

Outcomes & Benefits

30–50%	20–30%	100%
Fewer late-stage changes	Faster project delivery	Stakeholder alignment

Your Strategic Partner from Concept to Operation

Compass isn't just a design program—it's your strategic partner in building facilities that accelerate speed to patient and achieve your business goals.

The difference is the design basis—a shared, robust foundation that mitigates risk, provides scope assurance, and enables streamlined design-build execution.

Convert Complexity into Clarity

Ready to speed your science to market? Let's design the future of your operations with Compass.



TOGETHER, WE BUILD TOMORROW.

