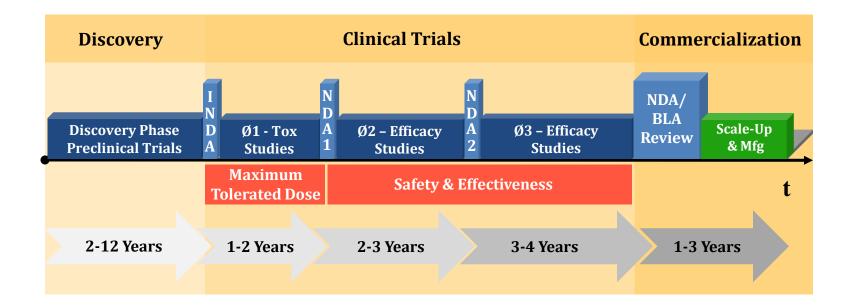
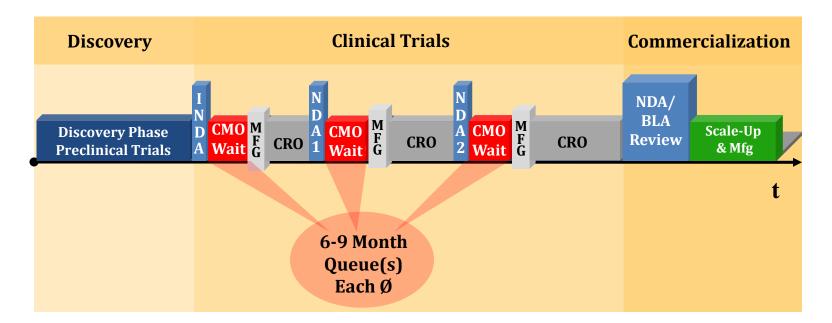


Enabling Biotechnology Development Through Cost Efficient Modular Laboratory Solutions



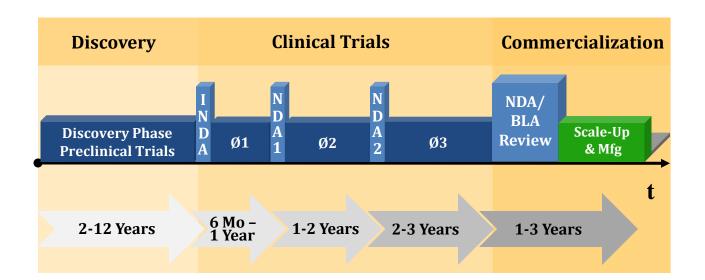
Old: BioPharmaceutical Discovery Business Model

- 10-15 Year Development Horizon
- \$1.2 Billion Average Cost to Achieve Commercialization
- 8 of 10 Molecules to Enter Clinical Trials Fail



Old: BioPharmaceutical Discovery Business Model D

- Development Highly Dependent on Constraints of External Resources CMO (Contract Mfg), CRO (Contract Clinical Trials), FDA
- · Resource Underutilization Due to "Hurry Up & Wait" w FDA
- Contract Manufacturing (CMO) Capacity is Typically Expensive
- CMO Cannot be Reserved Due to Uncertainty of Response from the FDA
 6+ Month Delay Waiting on Mfg Slot
- "Bricks & Mortar" Alternative Consumes Too Much Time and Capital.



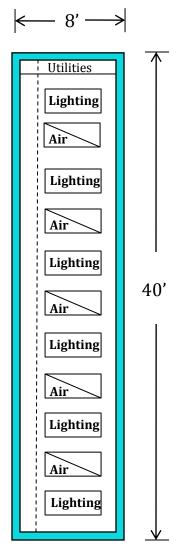
New: BioPharmaceutical Discovery Business Model

- Eliminate the CMO Bottleneck
- Clear Path To Success Biologics Modular Enables Biotech Company to take Control of their Process and GMP Manufacturing
- Company Resources Can Focus on Product Effectiveness and Process Optimization
- Capital is Conserved (Fast Failure)
- Competitive Risk is Reduced
- Commercialization Time Under Patent is Increased



Modular Solution

Patent Pending



Module Design Features

- Start w/ Used Overseas (8' x 9.5' x 40')
 Shipping Container
 - Environmentally Green
 - Made in the U.S.A.
- Fixed Ceiling Air Plenum and Utility Chase
- Utility Cabinet Built at Container End
- Universal Design: Lighting, HVAC, and Air Quality System Optimized for 300 Square Foot Clean Room Space

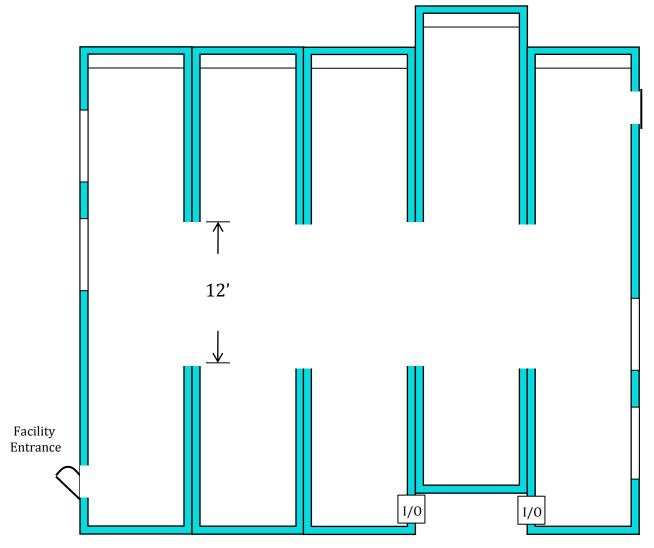
Establishes Fixed Structural, Scalable Design

Cost Analysis - Biologics Modular Facility

- •"Ideal Hosting Facility" \$1.1 million plus lease
 - Clean Room (900 ft²)
 - Analytical Lab (600 ft²)
 - Warehouse w/ Shipping / Receiving
 - Office
 - -\$5000 per month lease

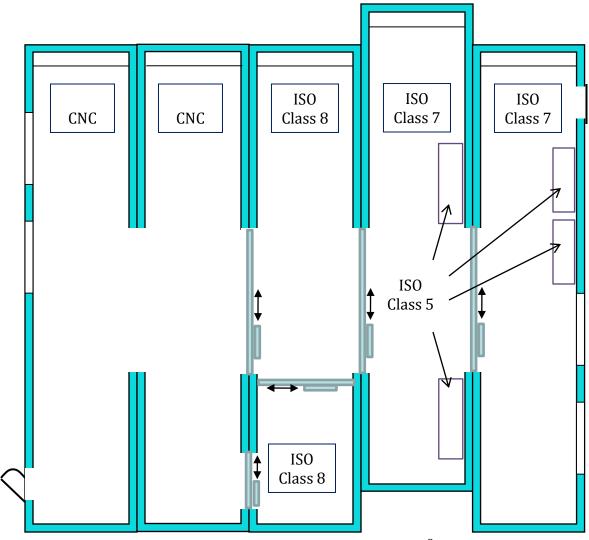






Module Design Features

- Innovative Coupling Technology to Join Multiple Containers
- Twelve Foot Transition Between Each Container
- Exterior Container Design w/ (2) Windows / Exits
- Additional Containers Can Be Added As Needed to Expand Space
- Container Shifted to Allow For Material Transfer In and Out of Classified Work Areas

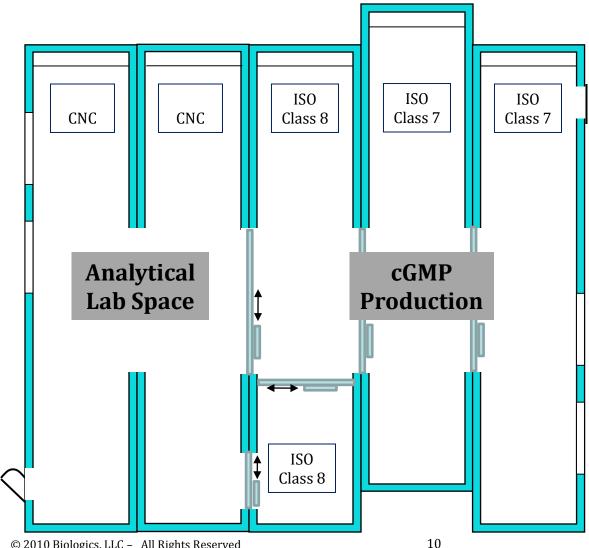


Module Design Features

- Antimicrobial Materials of Construction
- Soft Wall Technology Allows Configurable ISO Cleanroom Classification
- Coved seams at ceilings, walls, floors to ISPE
- Container Technology
 Optimized for Cascade
 of ISO Class 8, 7, & 5

 Work Areas

CNC – Controlled, Non-Classified



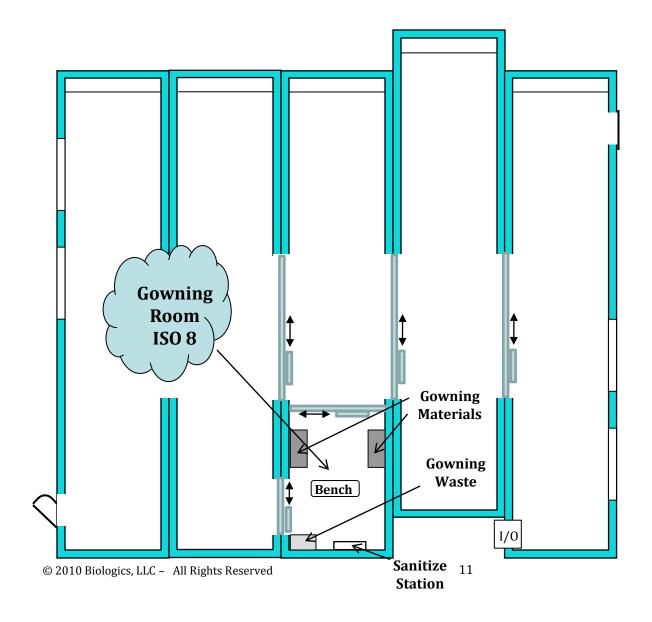
Module Design Features

These Variations in Work **Space Classifications** Allow for:

Collaborative R&D non-classified work spaces

Coupled with:

Biological processing in controlled and classified work spaces

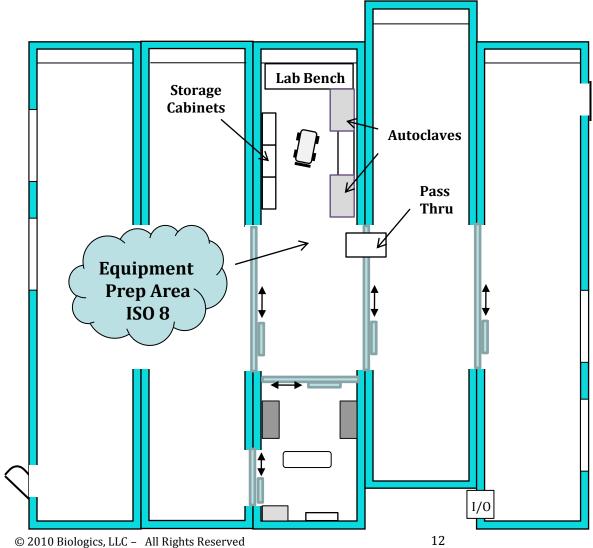


Workspace Functionality

cGMP Production

- IPad Human Machine Interface (HMI):
 - Phone
 - Internet
 - Communications
 - Electronic SOP's
 - Intercom
 - Music
- ISO Class 8 Gowning Room

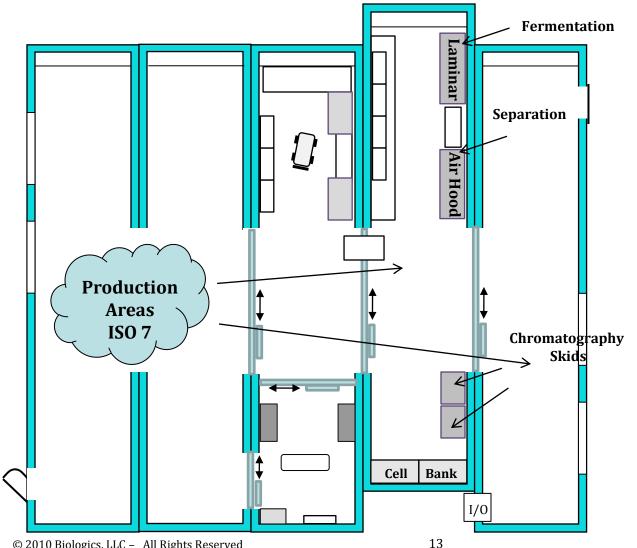
Confidential



Workspace **Functionality**

cGMP Production

- ISO Class 8 Gowning Room
- ISO Class 8 Equipment Prep Area
 - Autoclaves
 - Pass Through
 - Storage Cabinets
 - Equipment Cart
 - Work Areas



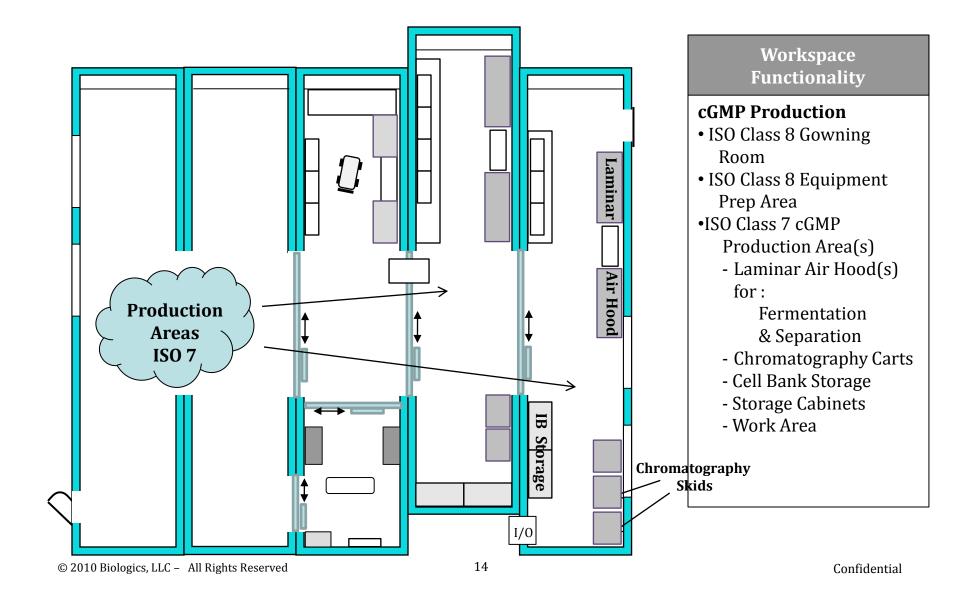
Workspace **Functionality**

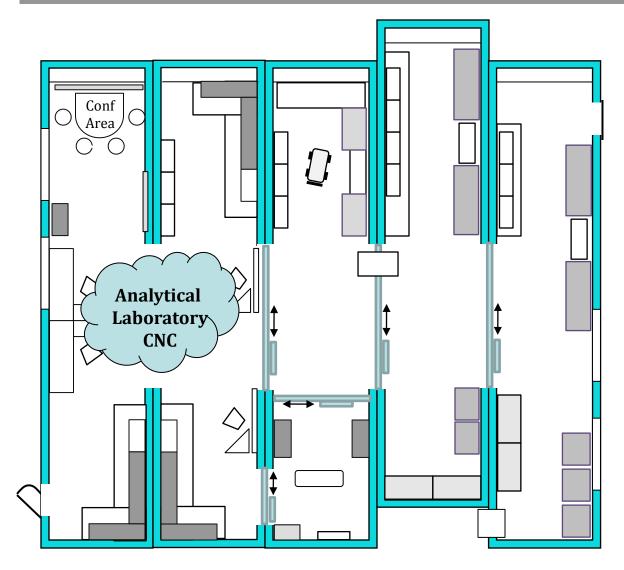
cGMP Production

- ISO Class 8 Gowning Room
- ISO Class 8 Equipment Prep Area
- •ISO Class 7 cGMP Production Area(s)
 - Laminar Air Hood(s) for:

Fermentation & Separation

- Chromatography Carts
- Cell Bank Storage
- Work Area
- Storage Cabinets





Workspace Functionality

Analytical Laboratory Controlled, Non-Classified (CNC)

- Wet Lab Benches
- Fume Hoods
- Work Stations
- Emergency Wash Stations
- Conference Area



Facility

Repeatable, Scalable Design & Construction

- Fixed "Lego" Building Block Structure
- Lighting, Electrical, HVAC, Air Filtration, Surfaces and Finishes, SCADA, and Communications ALL based on Standardized Design
- Interior Equipment Selection and Placement such as Work Benches, Fume Hoods, Laminar Air Flow Hoods, and Storage Cabinetry are Standardized with Limited Options

Standardized Documentation and Controls

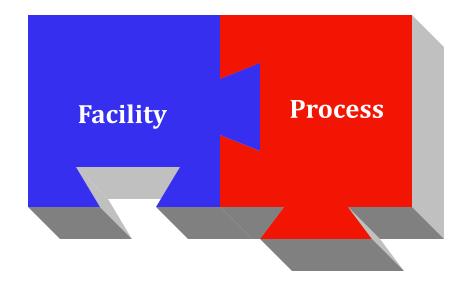
- cGMP Compliance
- Cleanroom Facility Certification to ISO 8,7, and/or 5
- Facility SOPs

Validation

- Factory Acceptance Testing
- Equipment and System Installation Inspections: IQ, OQ, PQ

Biologics Team

√ \$500 Million+ in Capital Project Experience



Process

Process Design

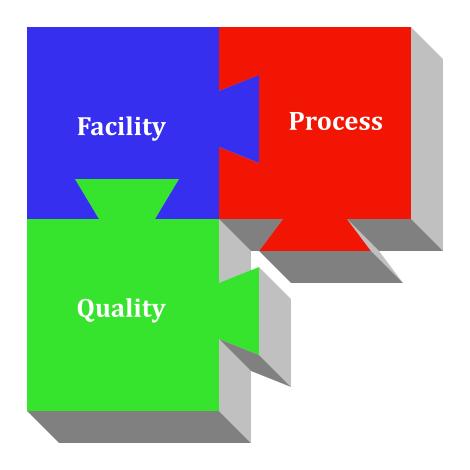
- Process Design & Engineering
- Equipment Specifications
- Equipment SOPs

Implementation

- Commissioning
- Factory Acceptance Testing
- Equipment and System Installation Inspections: IQ, OQ, PQ
- Process Validation
- FDA Certification

Biologics Team

√ 15+ years Process Design and Engineering Experience in the largest biotech manufacturing operation worldwide.



Corporate Quality System Quality Control

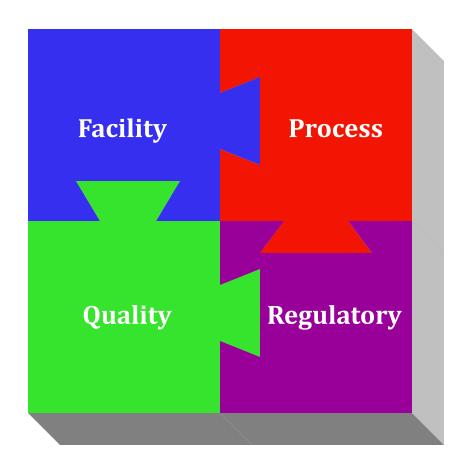
- Project Validation Master Plan
- Site Validation Master Plan
- SOP Development
- •QA/QC Plan and Procedures
- Batch Ticket Creation

Manufacturing Operations

- Manufacturing SOPs
- Personnel Training
- In-Process Assays and Laboratory Controls
- Batch Records

Biologics Team

- ✓ 20+ Yrs Combined Experience in FDA Regulated Manufacturing
- √ 50+ Yrs Combined Experience in Writing SOPs, Training Documents, Batch Records



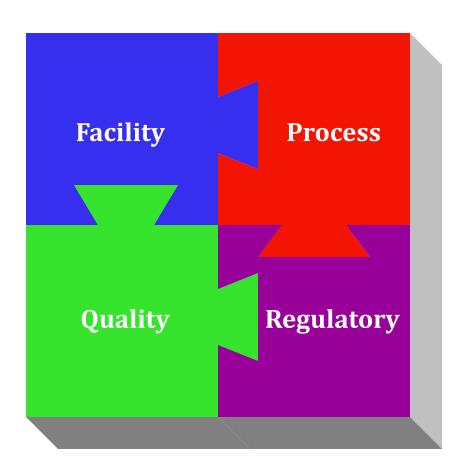
Regulatory Approvals

- Regulatory Strategy
- •FDA Interface including Interpretation of FDA Policy and Guidelines
- NDA / ANDA Submission (New Drug Application, Amended)
- Clinical
- CMC

Biologics Team

- ✓ 20+ Yrs Combined FDA Project Mgmt
- ✓ Significant FDA Contacts and R'ships
- √ 9+ Successful NDA's
- √ 17 Successful ANDA's

Clear Path To Success ™



Biologics Clear Path To Success

The experience and know-how to support our customers' successful transition from the university research lab to the development and production of clinical material.

Biologics Value Proposition

Pain	Traditional Bricks and Mortar Design
	- \$400ft ² Typical Cost Structure
	- Long planning, design, engineering, construction and validation horizon
	- Escalates the Risk of Investment; Slows Capital Formation
Value	Modular Design and Construction is Pre-Validated
	- Coverts Project Timeline From Months to Weeks
	- Significantly Reduces the Cost of Construction (50% to 80% less)
	- Directs the Focus on the Manufacturing Process, Including Quality and Regulatory
Pain	Differing Facility/ Capacity Requirements during Transitions of Clinical Trial Phases
Value	Modular Design Facilitates Mobility and Re-Useability
	- Function Specific Modules; "What you need, when you need it."
	- Lease Options Allow for Temporary Facility Utilization

Biologics Value Proposition

Dearth of FDA Compliant Lab Space for Research
- Most University Research Labs are NOT FDA Validated
- Cost to Build, Validate, and Maintain is Expensive (Same Cost Constraints as Biotech)
Laboratory R&D Space is Pre-Validated
Modularity Offers Significant Cost Reduction
Needs Change or End Leading to Capital Under-Utilization
Flexibility/Mobility Allows for Scale Up as well as Scale Down Utilization
- Ex: Phase 1&2 Clinical Trials have validated process but now require 3x capacity increase; Duplicate 3 more already validated module designs
Developer/Land Owner Left Holding Specialized Tenant Improvements
Recycling: Biologics Will Decommission and Reclaim Containers At Their Expense