Connected Laboratories

Global Agrichemical Company

Challenges & Opportunities

- Pilot for My Green Lab certification
- Usage of sensors and smart-plugs, connected through IoT network
- Improvement and control of equipment usage, equipment tracking and budget calculation for new equipment.
- Data-driven alerts generation
- Usage of AI/ML tools to test connected lab hypothesis
- End-to-end technology
- Opportunity for new business models
- Opportunity for innovative products

Project Scope

- Green lab certification
- Live-streaming of equipment usage.
- Monitor occupancy of glasshouses on real time.
- Interconnection with existing booking system.
- Implementation of additional warning layer in lab environments.
- Optimization of soil conditions for plant growth.
- Built a close loop system to monitor fungal growth.

Results & Customer Benefits

- Sustainability certification
- Increased R&D productivity
- Improved cycle times and cost savings
- Reduced manual data handling steps
- Digitally automated lab
- Efficient equipment usage
- Efficient maintenance planning
- Seamless access to scientific and operational data
- Maximizing workspace efficiency
- Increased staff security

Arcondis' role

- Program Management
- SME Future & Sustainable Labs

Project Size

- 265'000 CHF/ 2.5 years

Methodology / Skills

- Agile Methodology
- Project Management

Sustainable Lab Training

Non-Profit Organisation

Challenges & Opportunities

- Learning gap identification and analysis
- Creation of the training programme with multiple learning formats
- Development of curriculum material and methodology
- Training program tested and validated with minor adjustments

Project Scope

- Curriculum assessment: material review, defined learninggoals, training needs analysis
- Curriculum design: gap identification, mapping & development of training material (visual, videos)
- Curriculum implementation: training assessment, train-the-trainer, development of best practices, Q&A
- Curriculum evaluation: trial User Acceptance Testing, feedback survey, fine-tuning of learning materials

Results & Customer Benefits

- Curated training program for onboarding partners
- Reusable and adaptable training material
- Diversity of training format (presentation, videos, Q&A, Quizzes, additional resource library)
- Tested and approved training package

Arcondis' role

- Curriculum design
- Training development
- Project Management
- Best practices sharing

Project Size

- 25,000 $
- 5 months

Methodology / Skills

- Curriculum design
- SWOT analysis
- User acceptance testing