Future Lean Layouts
Case Studies

Each case study is based on actual companies' scenarios, but names, data, and information have been modified to protect confidentially and proprietary agreements.

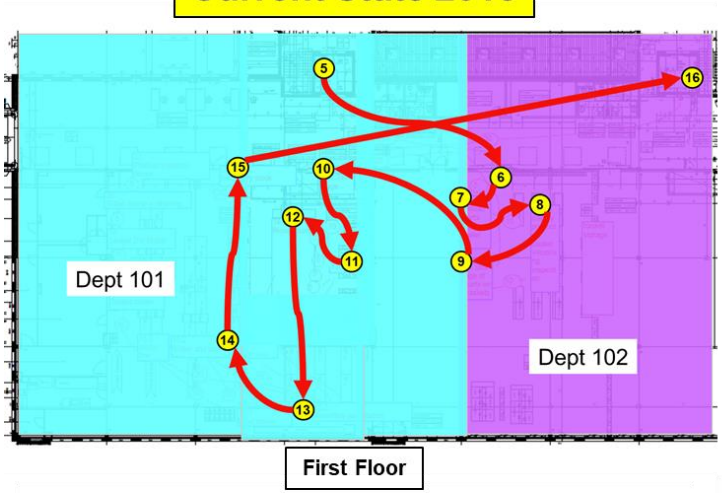
Case Study 1

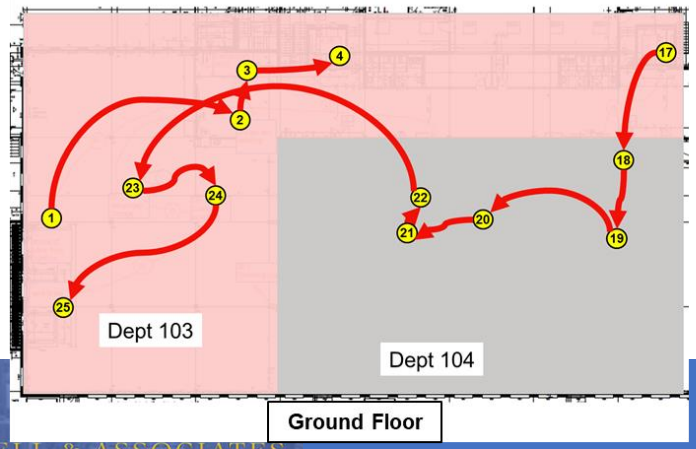
Medical Devices Contract Packaging Company Geneva, Switzerland

Part of C&A Lean Transformation capabilities

Medical Devices Contract Packaging Plant Layout Comparison Analysis

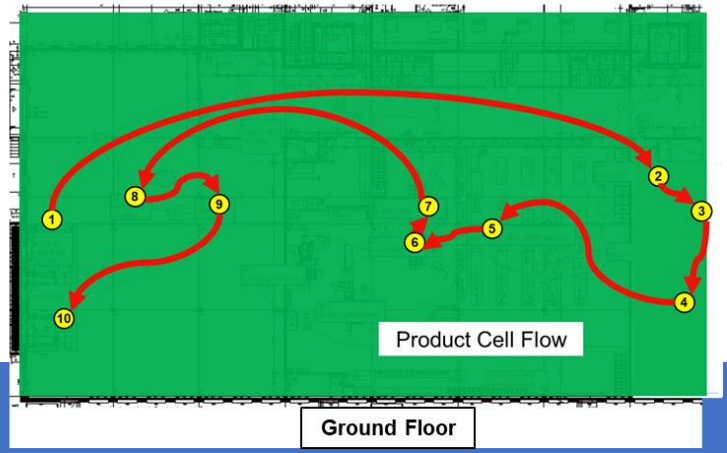
Current State 2015





Future layout went from two (2) floors process flow to one (1) floor process flow

Future State 2016



Medical Devices Contract Packaging Plant Layout
Comparison Analysis

	Current State	Lean Future State	Delta	% Improvement
• Total Lead Time	21.1 hours	4.3 hours	16.8 hour	-80%
• Number of Workers*	14	9	5	-36%
• Annual Travel distance	430 meters	240 meters	190 miles	-44%
• No. of Transportation Steps	25	10	15	-60%

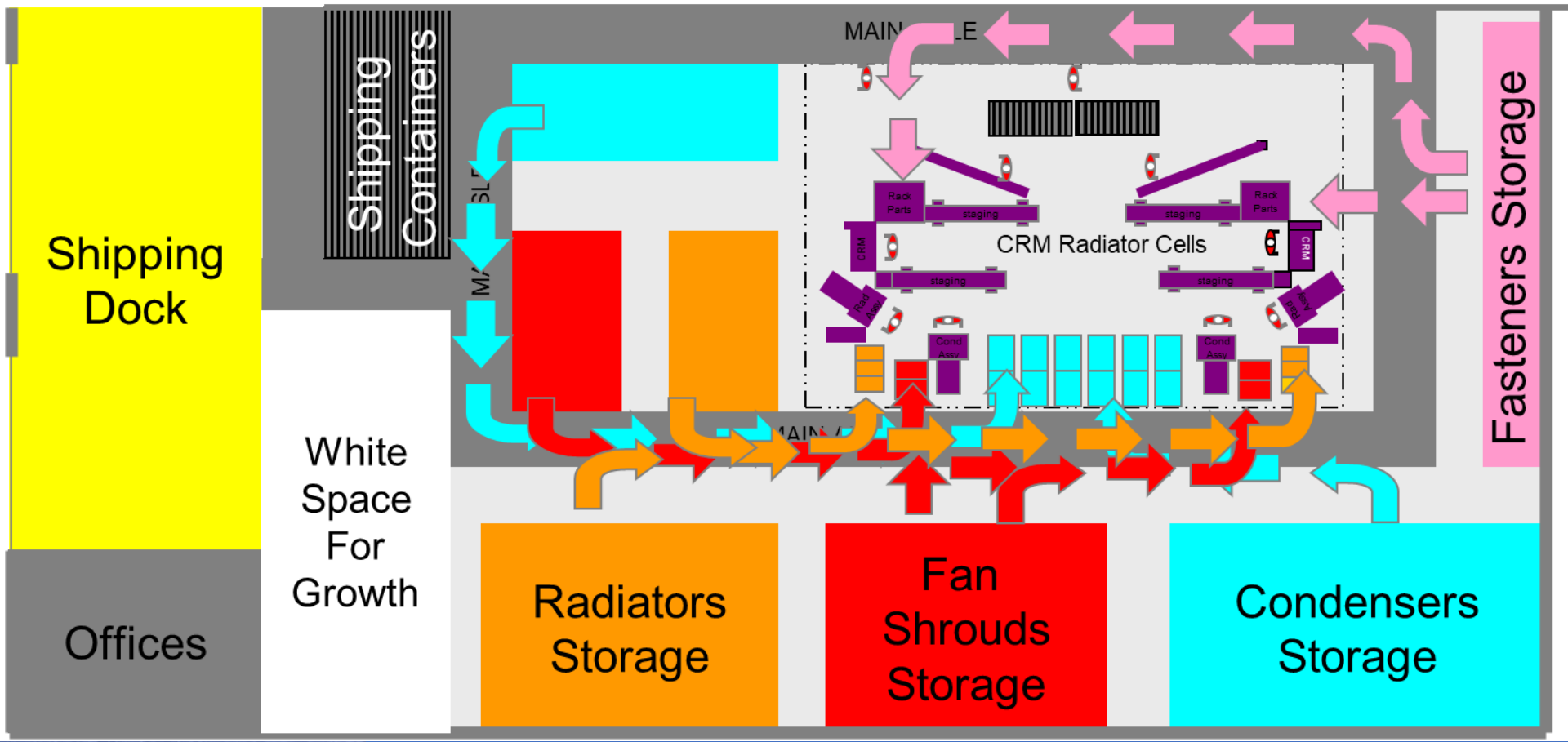
The Lean layout eliminated waste and made the job easier, which required fewer workers. Therefore, management must bring in more sales or new business to sustain a continuous improvement culture.

Case Study 2

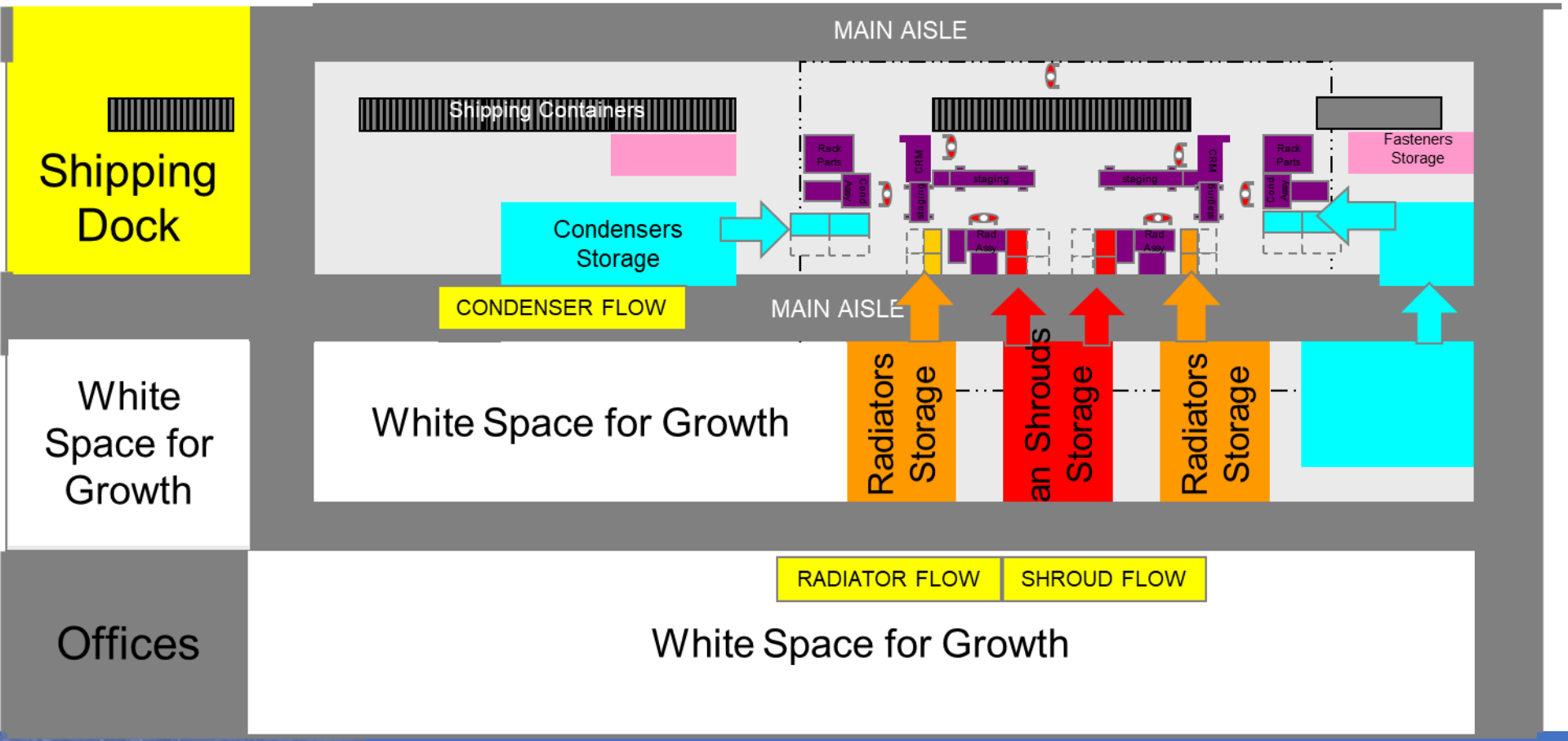
Automotive Component Parts Company Cincinnati, Ohio

Part of C&A Lean Transformation capabilities

Automotive Component Parts Company Plant Layout
Traditional Product Flow



Automotive Component Parts Company Plant Layout
Lean Pull Product Flow



•FIFO Inventory Storage System

Automotive Component Parts Company Plant Layout Comparison Analysis

	Current	Lean	Delta	% Imp
• Number of Operator*	20	7	13	65%
• Floor Space (sq. ft.)	1375	580	795	58%
• Inventory Storage	LIFO	FIFO	+	+
• Material Flow	Poor	Improved	+	+

- **Annual Saving = $432,640/year**
- **No Cash Investment!**

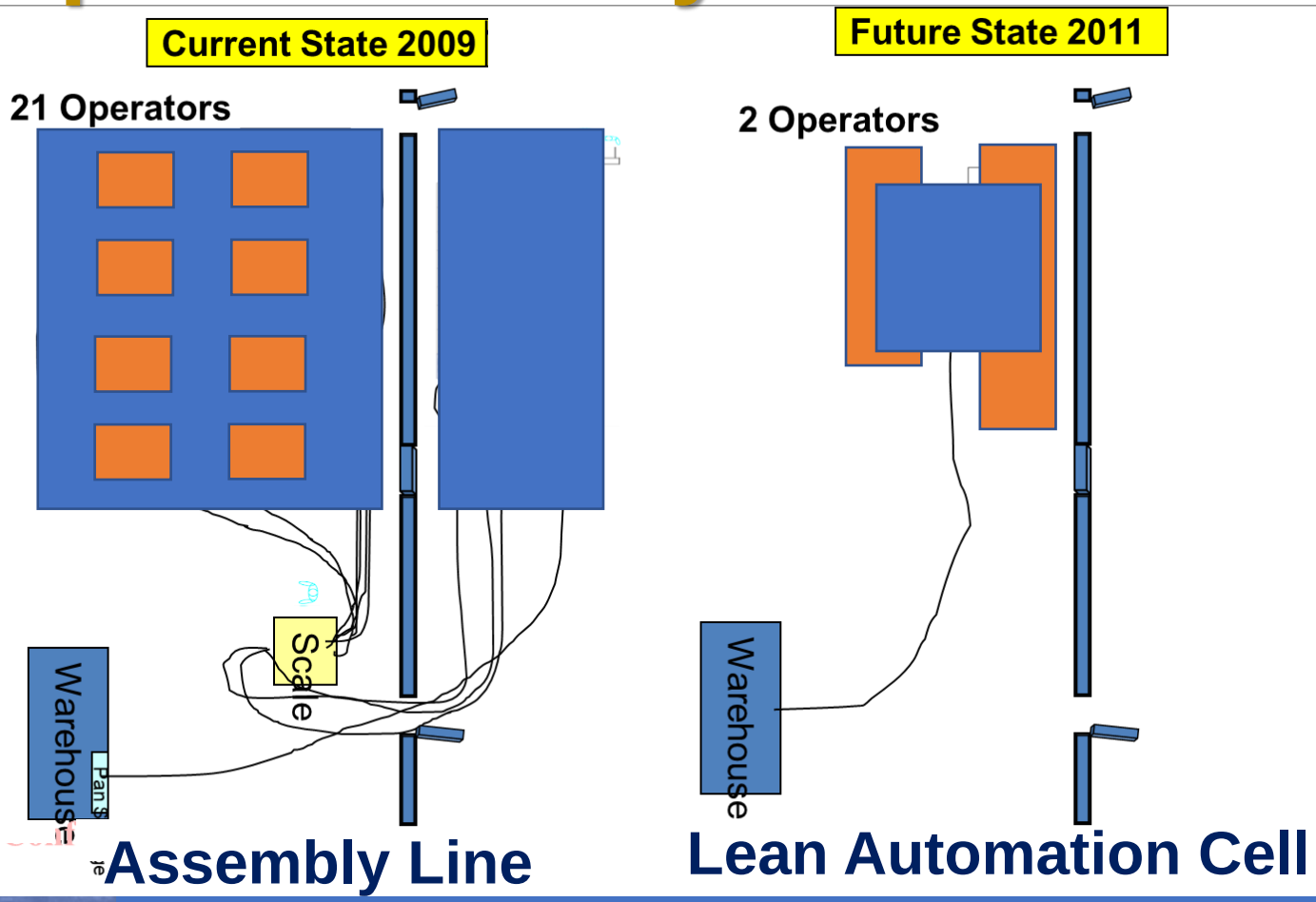
The Lean layout eliminated waste and made the job easier, which required fewer workers. Therefore, management must bring in more sales or new business to sustain a continuous improvement culture.

Case Study 3

Medical Device Injection Molded Component Parts Company Phoenix, Arizona

Part of C&A Lean Transformation capabilities

Medical Devices Injection Molded Component Parts Cell Layout Comparison Analysis



Medical Device Injection Molded Component Parts Cell Layout Comparison Analysis

Lean Automation Cell - 2011

	Current State	Future State	Delta	% Improvement
• WIP Inventory	20 days	5 days	15 days	-75%
• Annual Travel distance	32 miles	2 miles	30 miles	-94%
• No. of Transportation Steps	20	2	18	-90%
• Number of Operators	18	2	16	-89%

Lean Automatic Cell Annual Savings- $2.9 million

The Lean automation eliminated waste and made the job easier, which required fewer workers. Therefore, management must bring in more sales or new business to sustain a continuous improvement culture.

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www.CaldwellAssociatesExcel.com
(937) 367-6743
RC.Caldwell@CaldwellAssociatesExcel.com