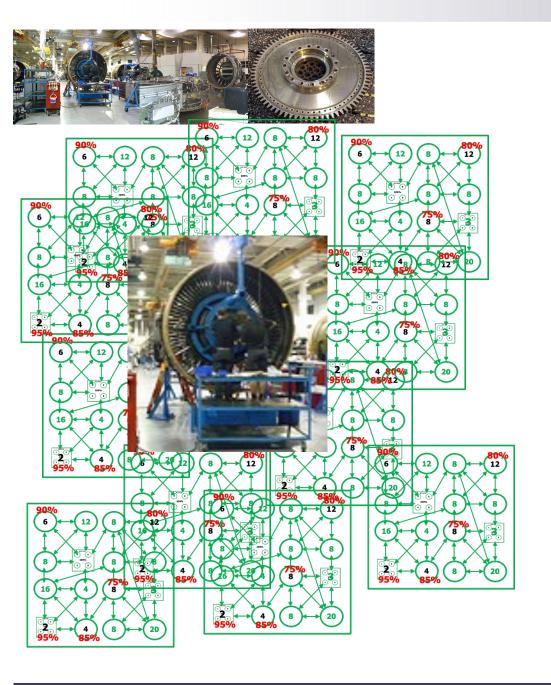






TechOps



Baseline:

- □ Non-Union #1 Most Productive even with 80% of mechanics waiting on parts
- □ Cost Center
- □ 8% Aircraft on Ground from Eng Maint
- **□** 3 Years of Lean Struggle
- ☐ Stuck with thousands of material shortages

Objectives:

- **☐** Cost Center to Profit Center
- ☐ Insource \$100M of Competitor
 Business
- **□** 0 AOG from Eng Maint
- **□** Eliminate Mat Shortages

Engine MRO Revenue Reaches \$1B

Measure	2000	2002	2018
Parts/Eng	30,000	30,000	30,000
FAA Mechanics	1,800	1,600	1,500
Supplier Defects	18%	12%	10%
Supplier Rework	14%	10%	8%

Production – Eng/Month	35	50	82
Lead-Time (Turn-Time)	8 Months	8 Weeks	6 Weeks
Open Work Orders	20,000	1,200	1,600
WIP Inventory - Turns	.5	3	7
Aircraft On Ground	8%	0%	0%
External Customers	0	50%	80%
Revenue	100%	320%	1,100%



'Dirty Kanban' Flow Map - Pull Forward/Backward



