

From Kaizen Events to Quick-Wins Culture

Yoav Shahak
Director of Operational Excellence

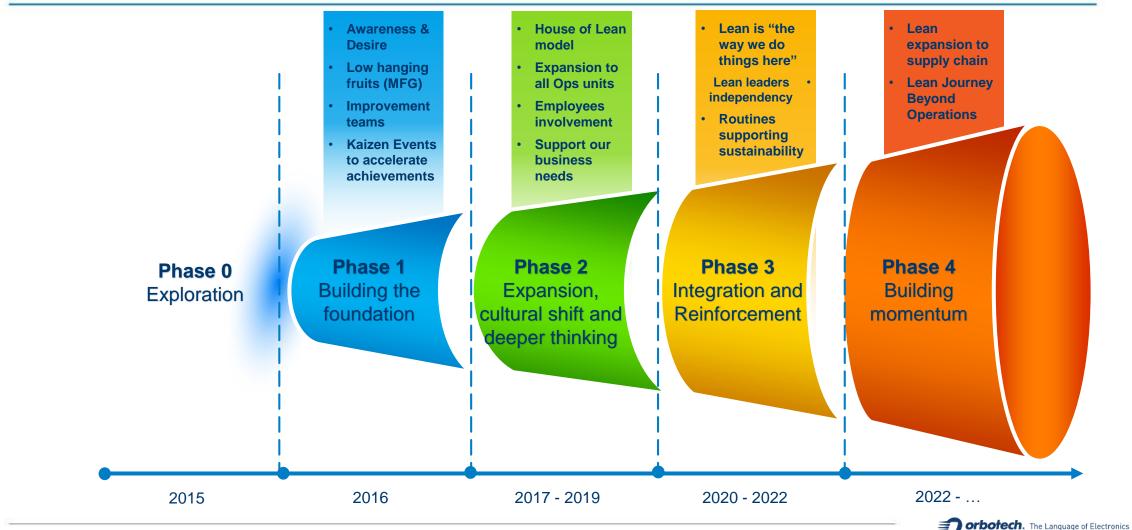
THE LANGUAGE OF ELECTRONICS

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Operations Lean Journey Looking from the back mirror view



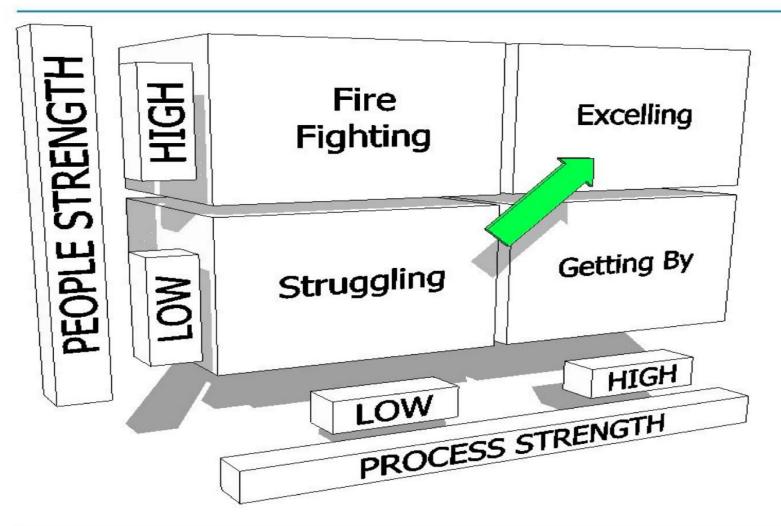
Orbotech Operations Lean Transformation Roadmap



Phase I Building the Foundation



Orbotech Operations - Lean Journey 1st Year



Focus Area – 1st year

Manufacturing unit •

Improvements Focus

- **COGS** reduction •
- Capacity increase
 - Ease of Delivery •

Orbotech Operations Lean Journey – 2016 Summary **Capability Building**

Type of Trainings / Workshops

4 Types : Lean Introduction.
OPEX Workshops

- Kaizen Leadership
- Lean Leadership



Total Trainings: Workshops days (x participants)

240 Days



Total Participation - OPEX Workshops

45 Employees



- Extended management
- Focal points from all teams

"Introduction to Lean" training for all employees

Employees outside **Production**



7 teams

Outcome

- Awareness & Desire, common language for all employees
- Capability building for the improvement teams



Operations Lean Journey – 2016 Summary Kaizen Events & Improvement teams activities

Total of Kaizen events & Improvement teams performed

- 2 Improvement teams
- **4** Kaizen Events



Avg. Goals set (selected processes)

28%

STD Hours Reduction



Overall Participants

35 People

Operations (Israel & Germany)



Avg. Current Achievement (selected processes)

26%

STD Hours Reduction



Product COGS reduction impact / Machine - 2016

Product A - 1.7 K\$

Product B - 3.1 K\$



Additional annual Capacity (same resources)

39 Product A

23 Product B





2016 Lean Journey summary Voice of the leaders - Strength areas



- Feeling that we had done a lot this year and shifting our mindset to the right direction
- Good exposure to the lean domain by the trainings which were done to all operations
- High employees motivation to improve, good examples of employees personal initiatives
- Good selection of improvement teams members brought the right expertize and knowledge. In addition, Persistence & determination of team leaders to execute the plan
- Kaizen events had proven their added value as an enabler & accelerator for improvements, with good collaboration with other divisions



2016 Lean Journey summary Voice of the leaders – Areas for Improvement



- Improvement team / kaizen members availability vs. time constraints & priorities
- Manufacturing employees outside the improvement teams are less involved in the improvement activities although they wish to be and have great initiatives
- A feeling that the lean is mostly a **Production journey** less to none involvement from other units in operations (Purchasing, Engineering, Planning, etc.)
- Gap in **recognition & appreciation** of employees personal improvement initiatives



Phase II Expansion, Cultural Shift and Deeper Thinking

The Language of Electronics

Operations Lean Journey – Phase II Focus Areas



Expansion

• ISL Operations (main focus)
All operations units

- Global Operations Collaboration
- Corporate
 Key projects in Corporate & Divisions



Engagement

- Implementation of Quick-Wins improvements by everyone
- Value Stream Improvement (VSI)
- A3 Structured Problem Solving



Driven by our Business Needs







Big gains come from small & rapid improvements from EVERY EMPLOYEE

Quick-Wins Goals



- Encourage employees involvement in the Lean Journey
- Empower employees give them a chance to make a difference, and be recognized for it
- Implement a "Welcome Problems" culture among our employees
- Eliminate wastes, Improve performance, increase Ease of delivery



Key Guidelines for Quick-Win initiatives

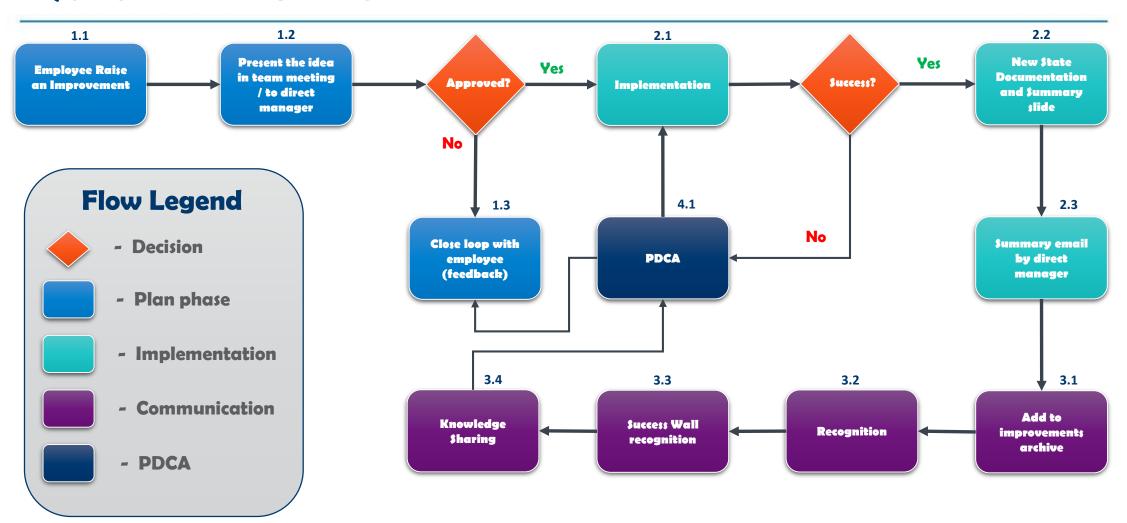
- Improvement related to your own team processes
- Can be performed with your own resources
- Can be implemented in the short term (up to a month)
- Improves:
 - > Improve Safety
 - > Eliminate Wastes
 - > Enhance Quality
 - Cost reduction
 - > Workspace optimization
 - > Increase employee Ease of work



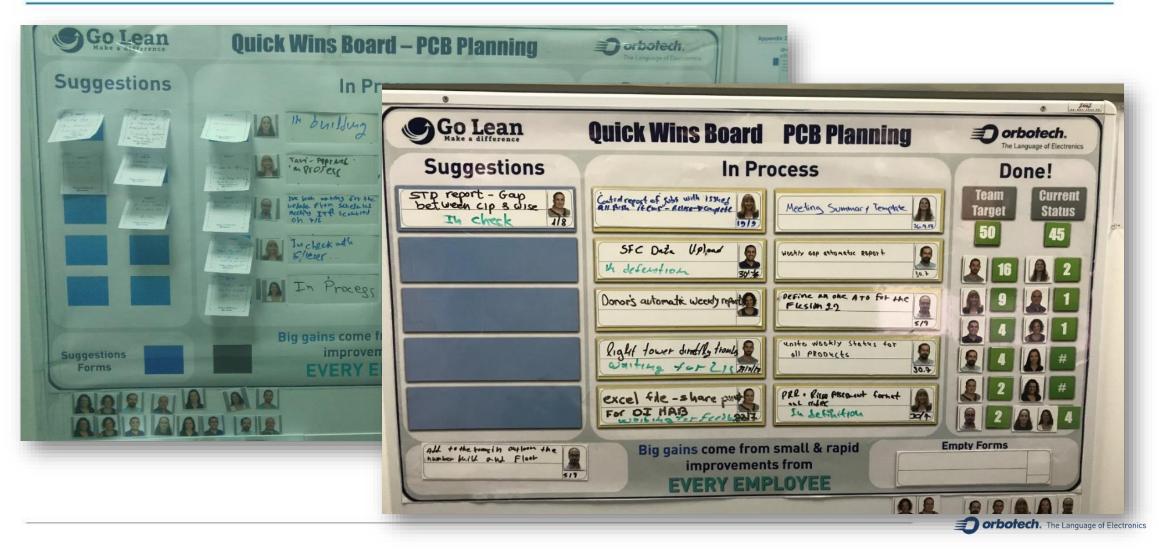


Quick Wins Flow

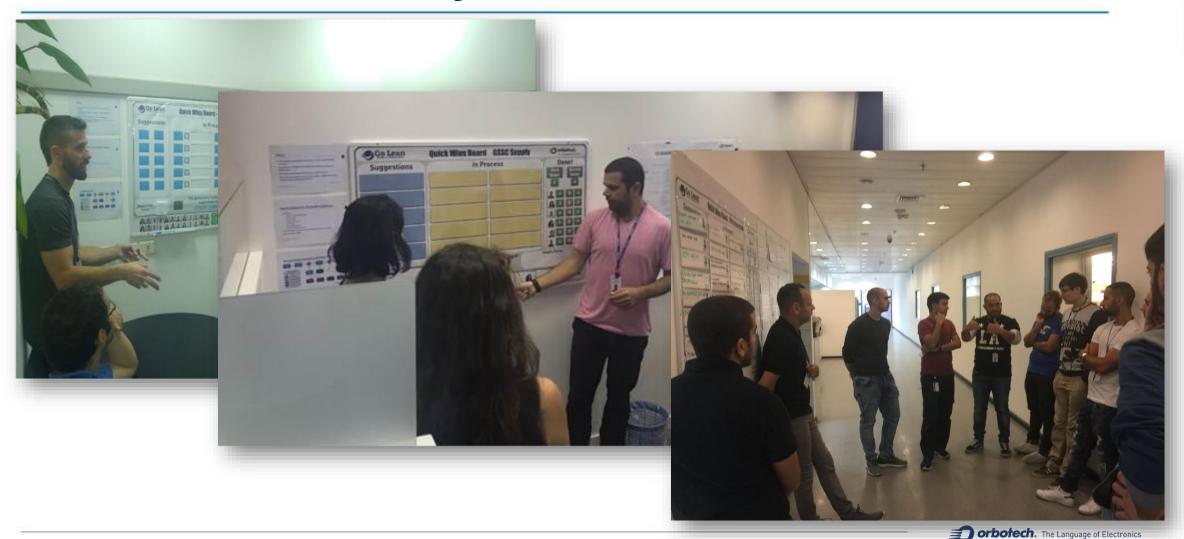




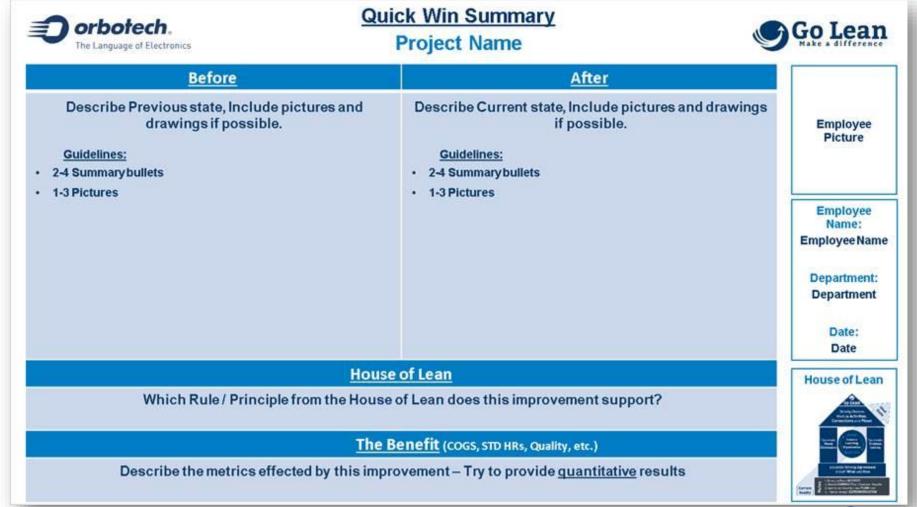
Quick-Win Visual Boards



Quick Wins Weekly routines – 15 min. / week



Quick Wins Summary Slide Template



Quick-Wins Share-point System

WELCOME Quick Wins Website!









New Quick Win

My Quick Wins

Quick Win Slide

Training

Quick Win Data Base by Unit





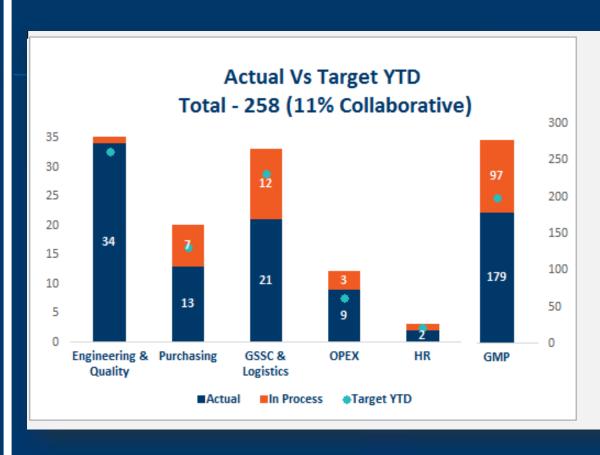


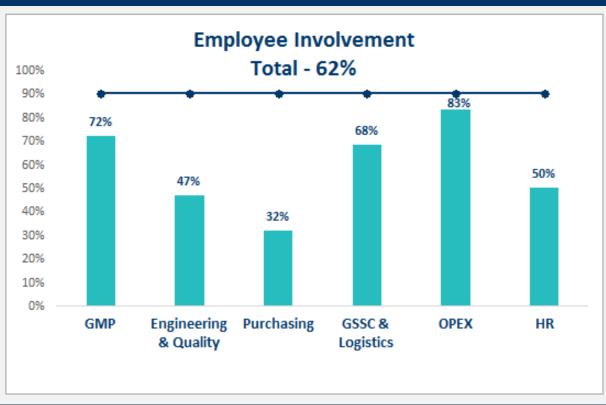




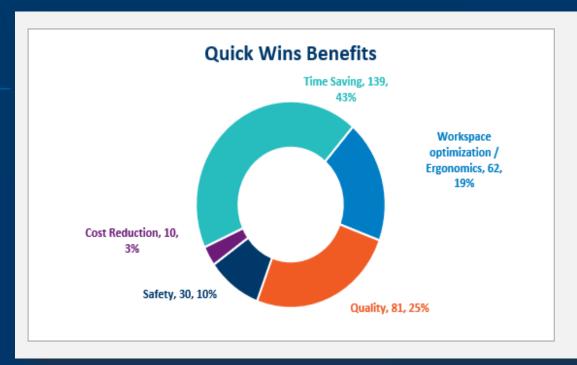


12 Weeks – 258 Quick Wins, 62% Employee involvement





Benefits





Quick Wins Recognition - Part of our weekly management BDB routine



Quick Wins Recognition - Part of our weekly management BDB routine



Quick-Wins Wall of Fame



2018 - Thank You

Operation employees!



997

Quick Wins Implemented



87%

Employee involvement



4.8

Avg. QW per Employee

What is your Quick Win?









THANK YOU