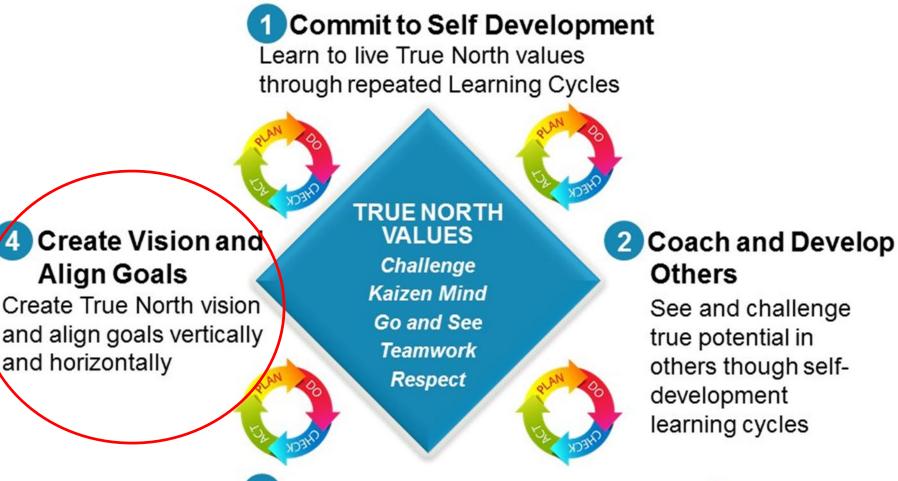
# Developing Lean Leaders at all Levels: A Practical Guide

**Chapter 7 Figures** 

## Lean Leadership Development Model



## 3 Support Daily Kaizen

Build local capability throughout for daily Management & Kaizen



**Figure 7-1.** The Lean Leadership Development Model (we are focusing on step 4)

#### Visual Metrics Aligned from Top to Bottom to meet Annual Plan (Hoshin Kanri)

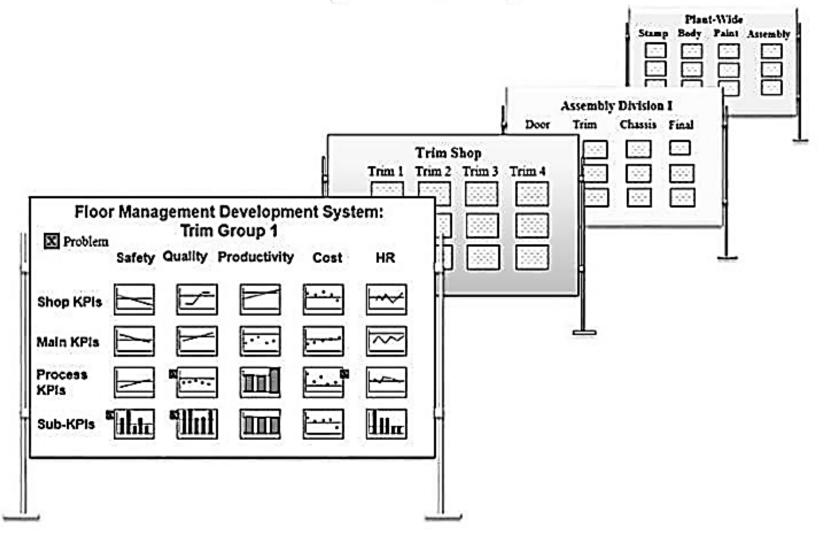


Figure 7-2. Visual Boards that Align top-level Plan to Shop Floor Metrics

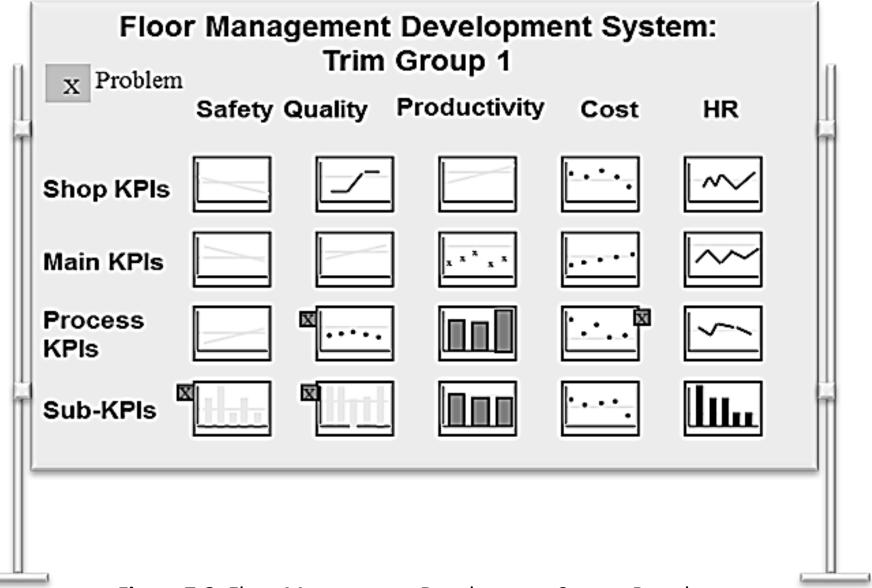
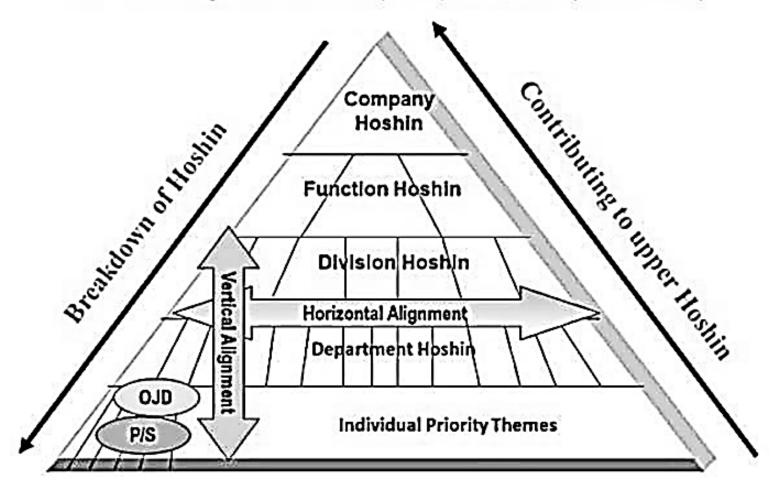


Figure 7-3. Floor Management Development System Board

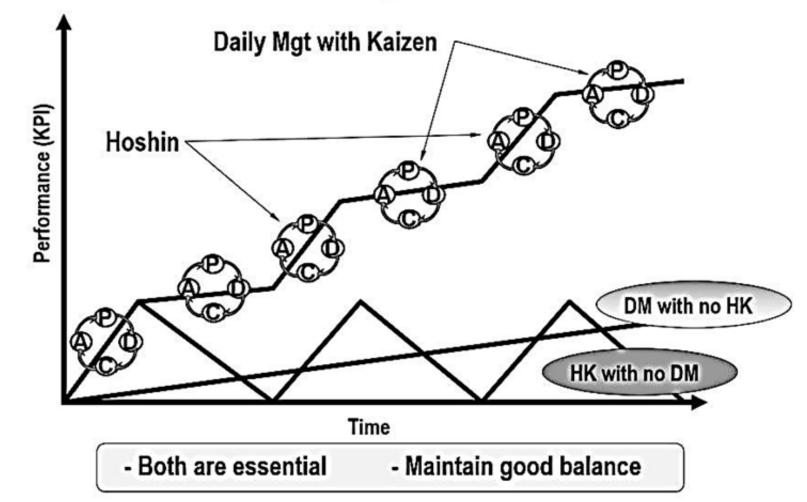


Hoshin Kanri Aligns Goals & Develops People Horizontally and Vertically

KEY: Concepts: OJD = On-Job-Development P/S = Problem Solving

Figure 7-4. Hoshin Kanri Horizontal and Vertical Alignment

### Relationship between HK & Daily Management



**Figure 7-5.** *Hoshin Kanri* and Daily Management work together for breakthroughs and sustainment

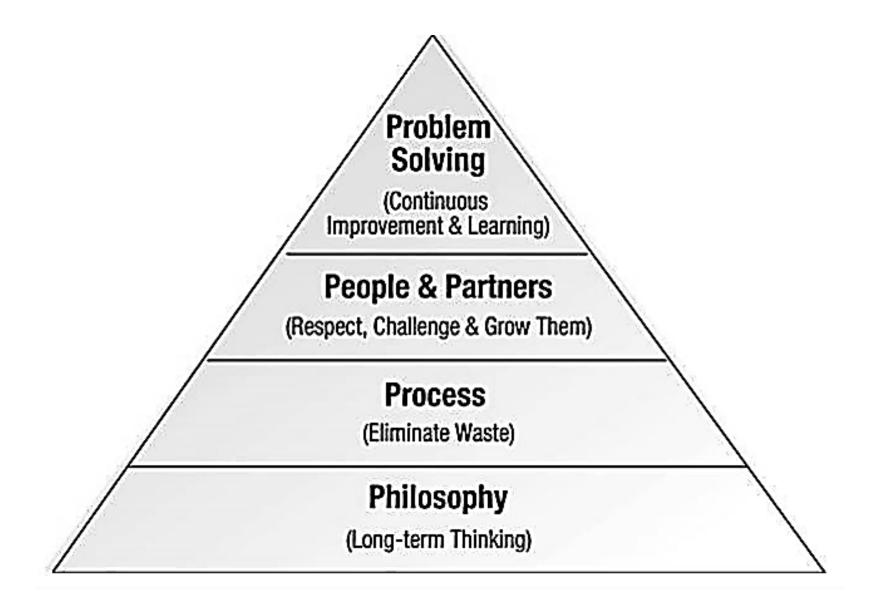


Figure 7-6. The Toyota Way Model.

Management by Objectives	Hoshin Kanri	
Short-Term, No Philosophy	Long-Term, Strong Guiding Principles	
Results Oriented Evaluation of Effort	Concerned with Results and Process with Focus on People Development	
Top down Communication	Top down Direction Setting and Bottom-up flow of Information and means	
Directive	Participative	
Primarily Authority Oriented	Primarily Responsibility Oriented	

Figure 7-7. Comparison between Management by Objectives and Hoshin Kanri

### Dana Background Actions Taken: Focus on Developing Leadership

- Formed Operational Excellence leadership at presidential level reporting to CEO with 100% global plant focus:
  - Created Dana Operating
    System (DOS) patterned after
    Toyota Production System
  - Established 12 standard global KPIs in six categories
  - Formed core internal
    Dana Lean Consultants
  - Enhanced plant leadership management capability, methods, and tools.



Figure 7-8. First Year Actions for Dana Operational Excellence

## Early Initiatives Dana Standard KPIs

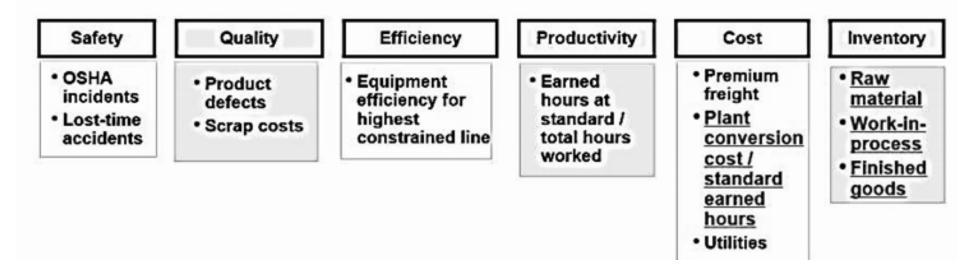


Figure 7-9. Dana Global Key Performance Indicators

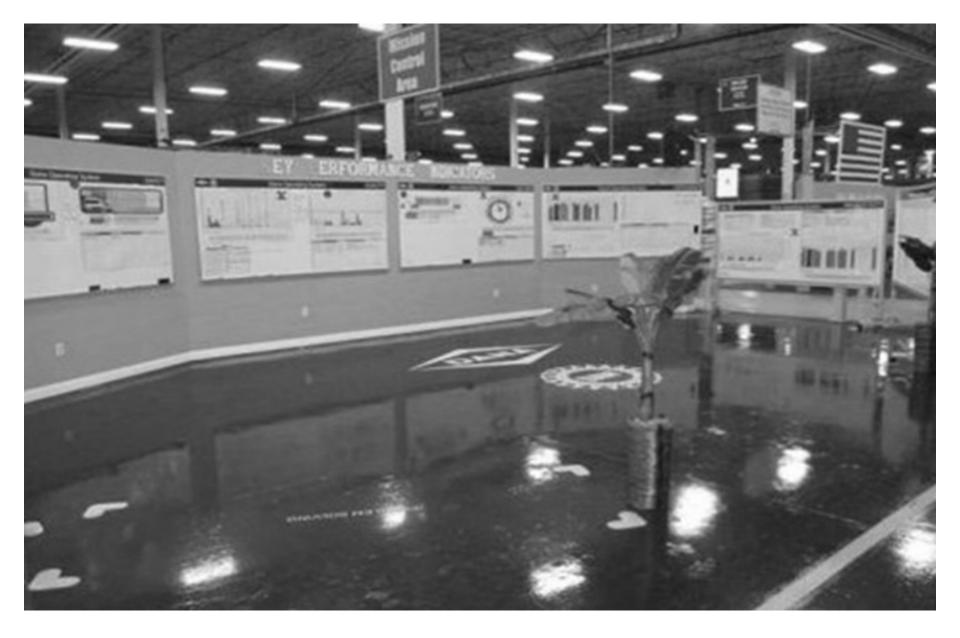


Figure 7-10. Dana Diamond Area.

#### **Visualization and Meeting Management Standards**

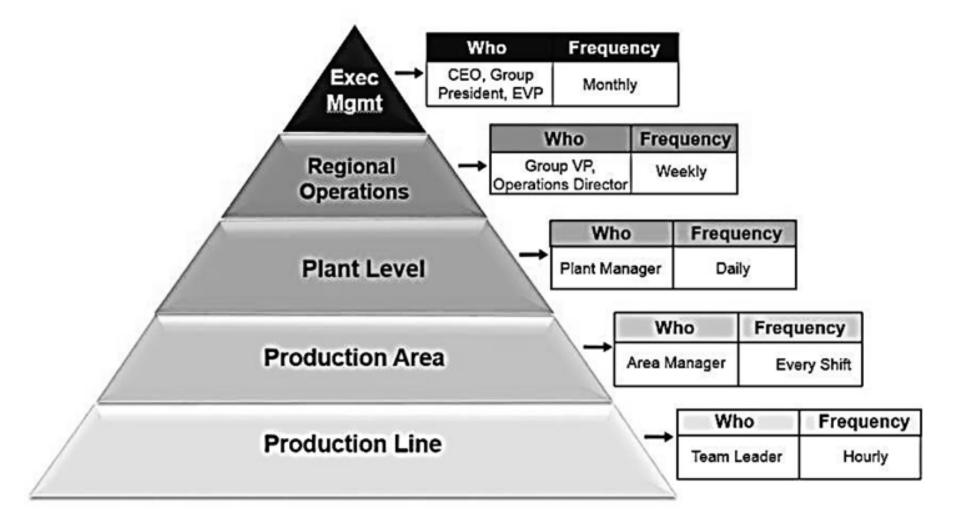


Figure 7-11. Standard Meetings by Responsibility and Frequency

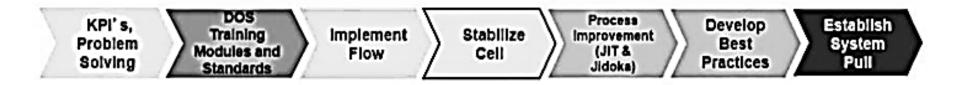
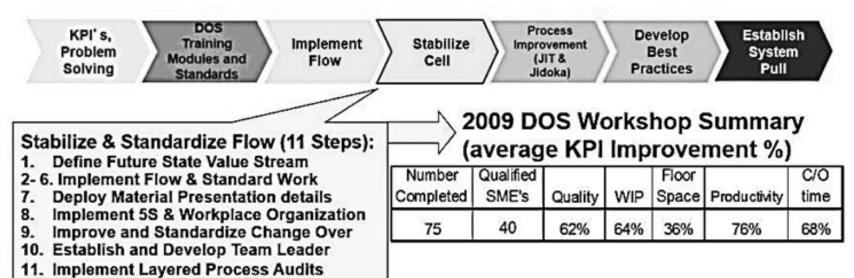


Figure 7-12. The Dana Operating System Implementation Roadmap (Years 2-5).

### Year 2 -5: Dana Operating System Implementation Roadmap



#### Globally 2009 DOS efforts delivered important results

Exceeded Conversion Cost target of \$170M Reduction

(2010 Target to reduce 5% from 2009 Actual)

Exceeded Reduction targets for Inventory cost & Days on Hand

	2008	2009	Change	2010 Plan
INV\$	\$915 M	\$642 M	(\$273 M)	\$542 M (\$100M)
DOH	63 Days	38 Days	(25 Days)	32 Days

Figure 7-13. Some Results of Implementing the Dana Operating System.

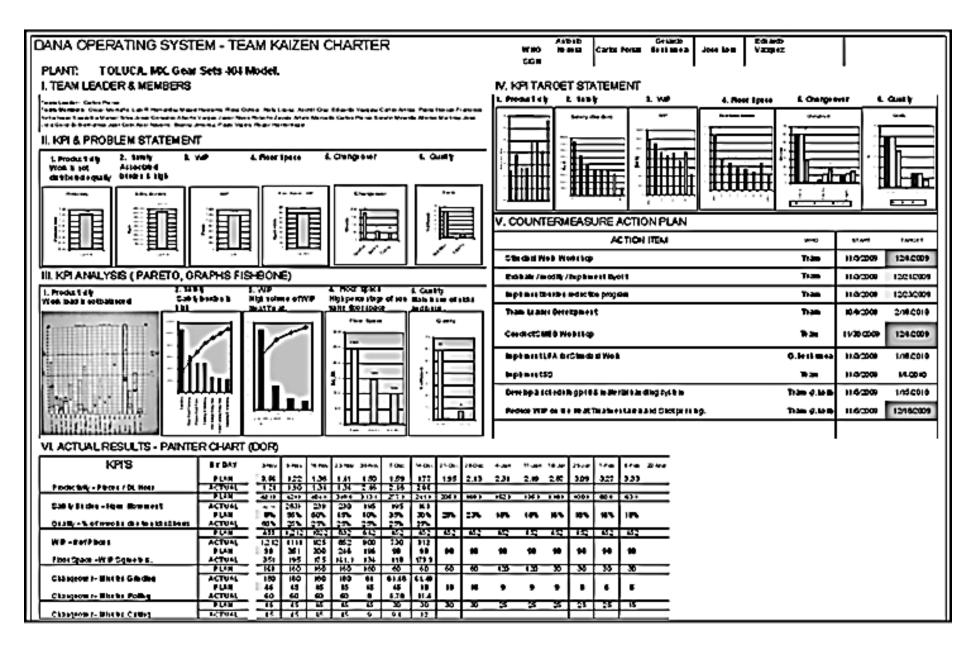


Figure 7-14. Proposal A3 for Planning Dana Operating System Activities and Expected Results

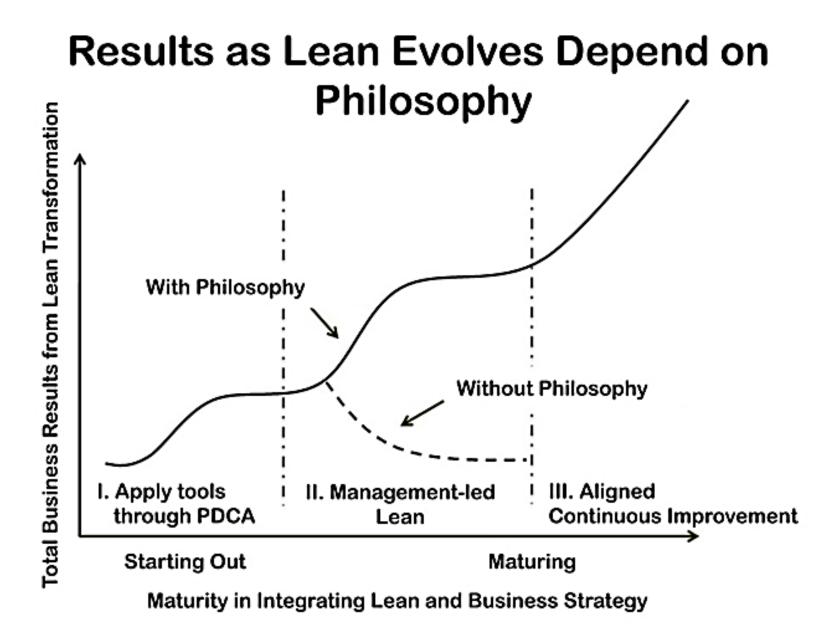


Figure 7-15. Results as Lean Evolves Depend on Philosophy.