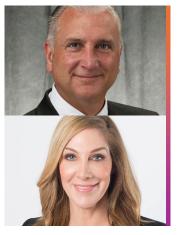
# 4Pk Assessment: A Guide to Mastering Lean Excellence

Lean Enterprise Institute 2024 Lean Summit

## Meet the Presenters:



#### Frank Paluch

- Senior Partner, Inscape Development Group
- Former Senior Executive Honda Automotive (35-year automotive/aircraft career)
- Adjunct Professor LPPD, The Ohio State University

#### **Lara Harrington**

- CEO, Inscape Development Group
- Former Senior Leader Honda R&D Americas (33-year automotive/aircraft career)
- Adjunct Professor LPPD, The Ohio State University



## Today's Goals

- Describe the 4Pk framework, covering product, process, people, perfection, and knowledge, as outlined in *Designing the Future*.
- Overview the 56 key assessment areas within the 4Pk framework, understanding their role in evaluating an organization's lean maturity.
- Learn efficient scoring techniques to quickly gauge your organization's lean maturity.
- Discover how the different assessment areas interconnect, fostering improved synergy within your organization.
- Acquire practical skills for conducting a comprehensive yet swift company lean assessment.

## Today's Schedule

- 1. LPPD 4PK Framework Introduction (30 minutes)
- 2. Exercise 4PK Self-Assessment (10 minutes)
- 3. Collaborative Discussion on Self Assessment (20 minutes)
- 4. Q&A (10 minutes)



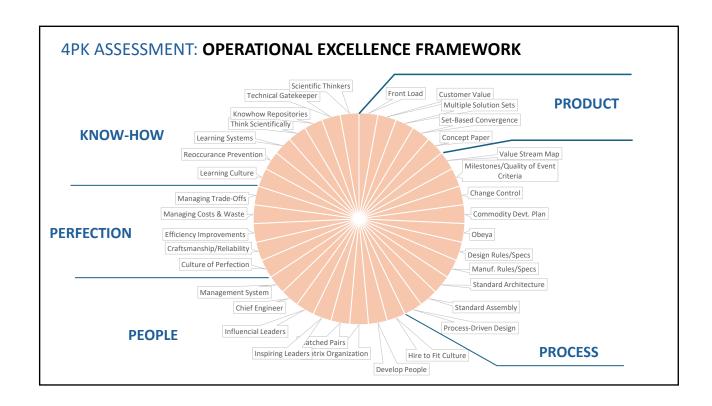
### **Key Material**

 Today's content draws from the groundbreaking book 'Designing the Future' authored by James Morgan and Jeffery Liker.

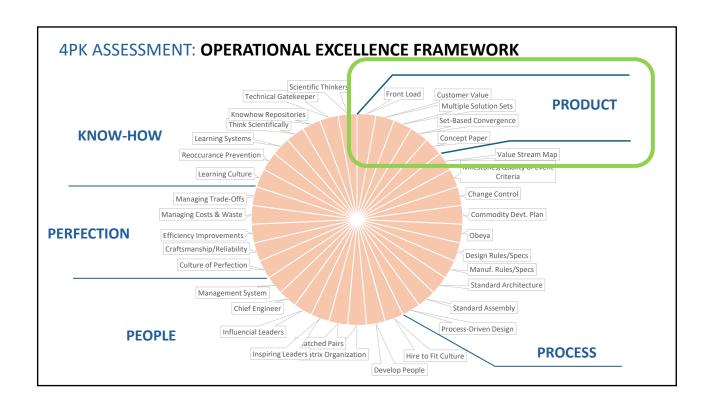












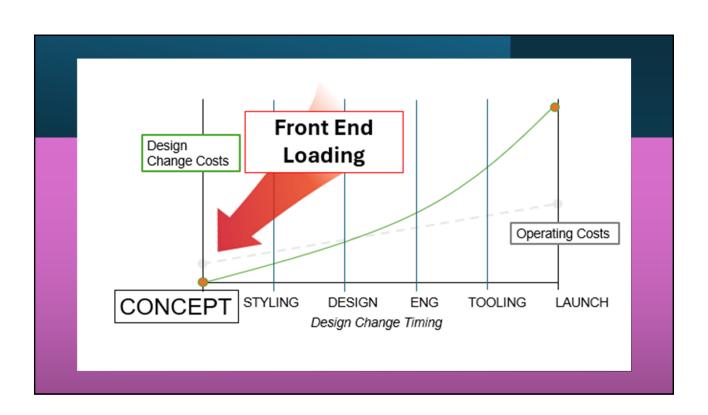
## Creating the Right Product

- Front-End Load Development Team
- ❖ Understand what Your Customer Values → Go to the Gemba
- ❖ Generate Sets of Solutions for Providing Customer Value
- Converge Carefully
- Create a Concept Paper



# Creating the Right **P**roduct

- ❖ Front-End Load Development Team
- ❖ Understand what Your Customer Values → Go to the Gemba
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# Understand What Your Customer Truly Values



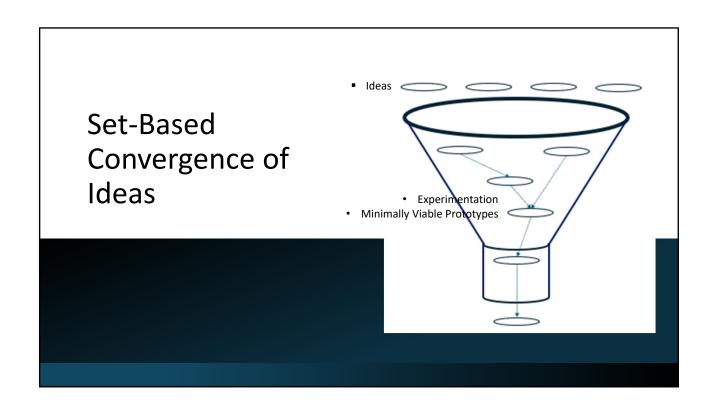


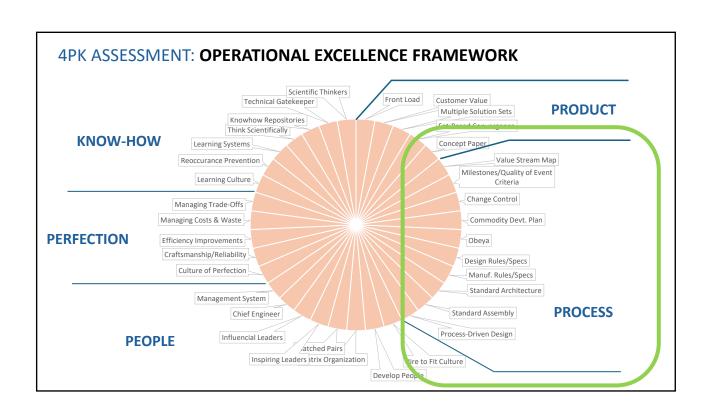


# Go to the Gemba (Actual Spot)

- The 2019 Passport team:
- Interviewed customers in their homes.
- Visited campgrounds across Ohio.
- Drove along winding roads to Louisville, KY.
- · Visited Dealers to understand need.





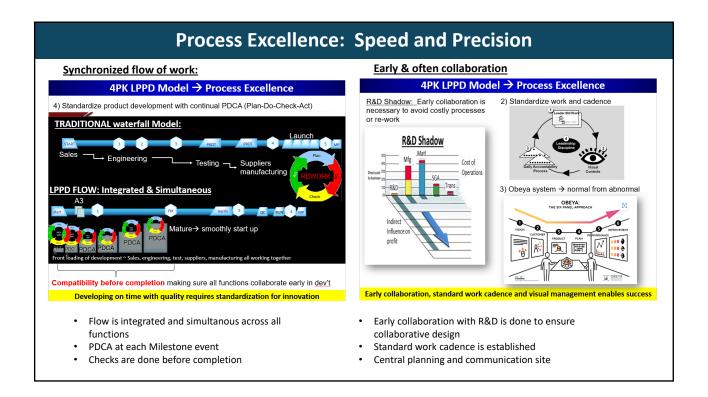




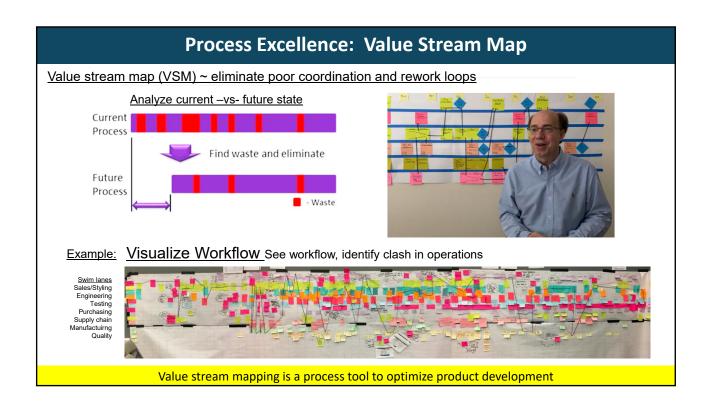
## Lean Process

### **Delivering with speed and precision:**

- Synchronize workflows across Functional groups
- ❖Obeya system ~ central planning and communication site.
- ❖ Value stream map (VSM) ~ create the IDEAL flow





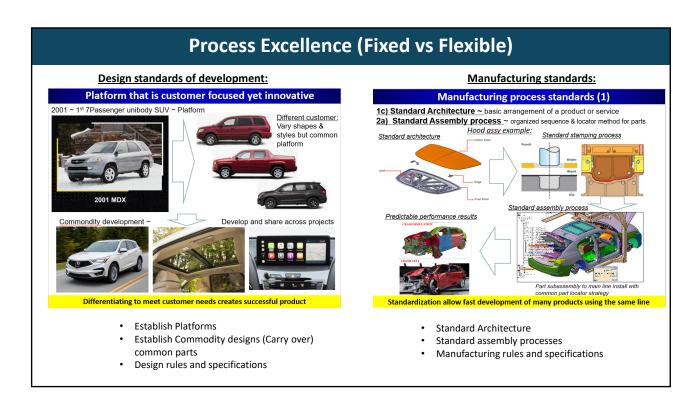


## Lean **P**rocess

## Part 2: Fixed and Flexible: Yin and yang of development

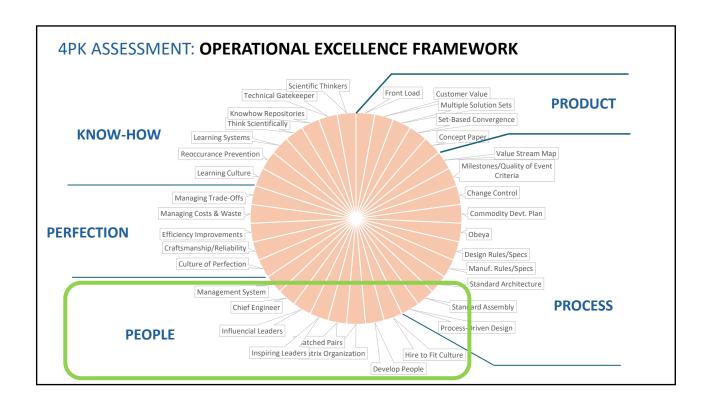
- ❖ Balance fixed/flexible standards to maximize customer value
- ❖ Design standards ~ rules, standard architecture, Platforms
- ❖ Manufacturing Standards ~ Rules, complexity reduction, Process Driven Product Design











## Developing **P**eople

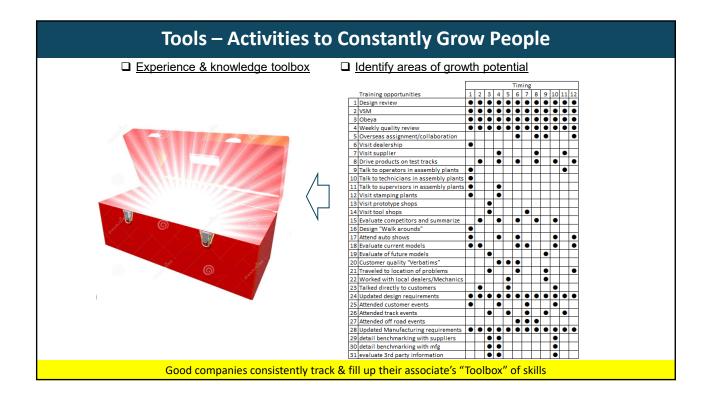
### **Development**

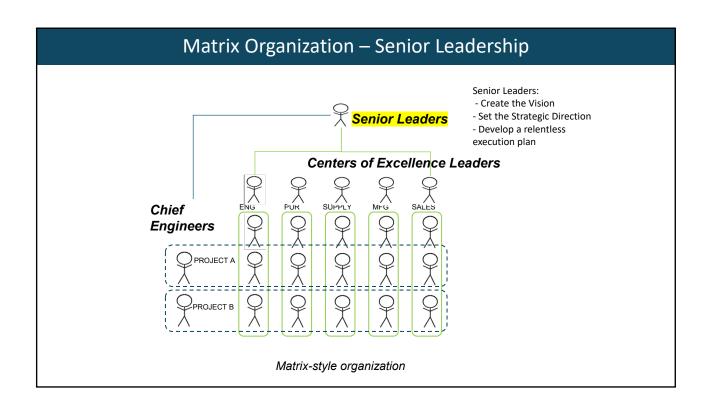
- Hiring to fit the culture
- Developing & engaging (Toolkit)
- Broad experience

### **Matrix Organization**

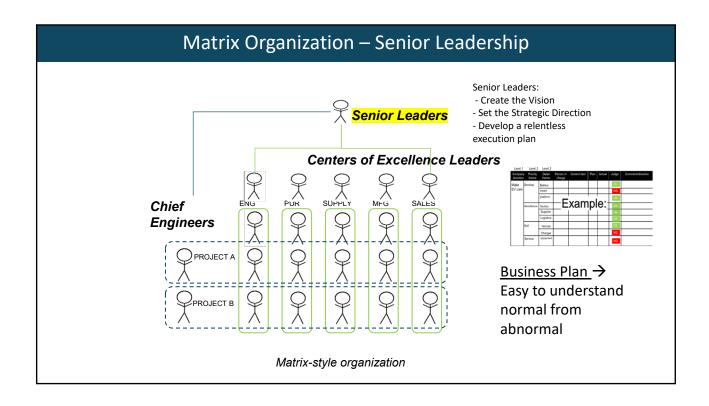
- Strong Functional Organizations for deep learning
- Dedicated teams for each project
- Chief Engineer Focused on Customer
- Subject Matter Experts
- Strong Leaders

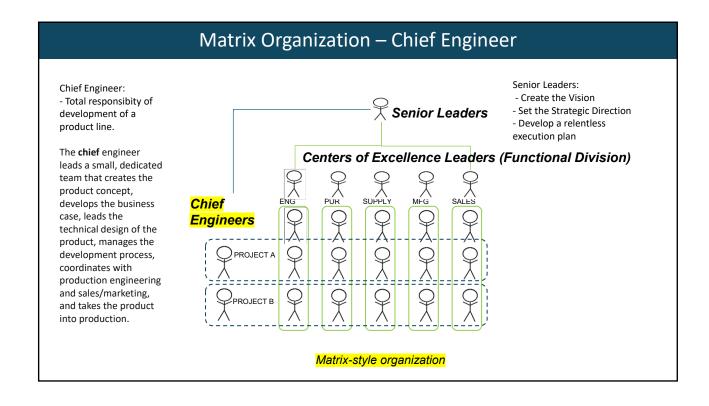




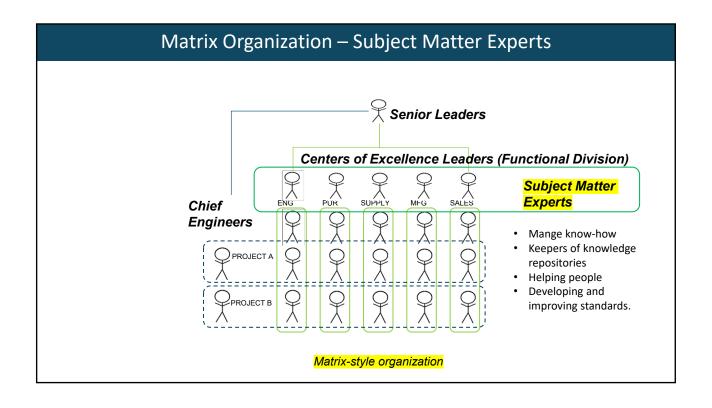


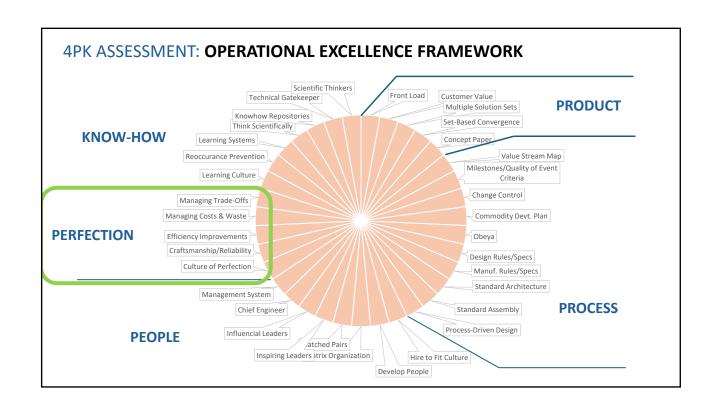




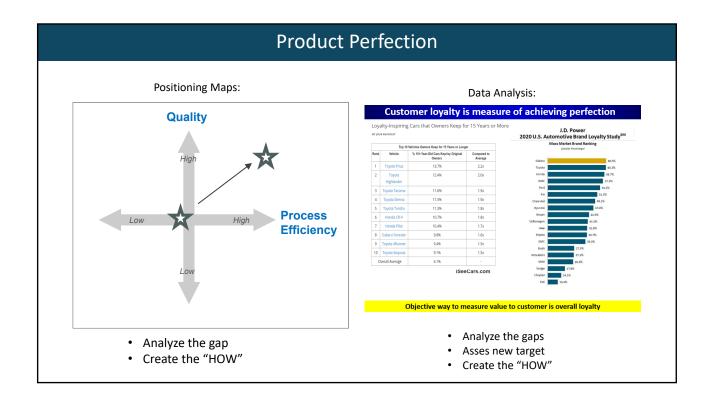


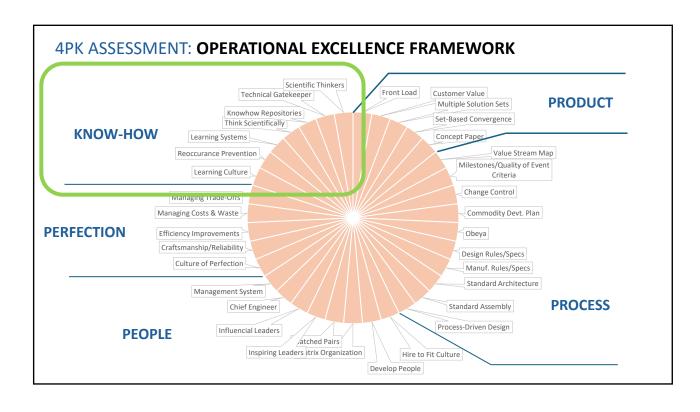














## **K**now-How Management

- Create a supportive culture for learning
- Develop people to think scientifically & systemically (PDCA)
- Dedicated role of Subject Matter Experts
- ❖ Build learning into the daily work ~ Obeya & Business plans

