

#### **Developing a Culture of Continuous Improvement**

October 6, 2020





# What is the purpose of your organization?







#### To serve your customer





# What does the customer need?









#### To eliminate poverty and hunger



## How are you going to eliminate poverty and hunger?







Continually improve the productivity of key crops. Continually improve agronomic management processes.





Develop a Culture of Continuous Improvement Identify Customer Needs and Deliver Value

#### "The world we have created is a product of our thinking; it cannot be changed without changing our thinking." ~Albert Einstein

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"When you change the way you look at things, the things you look at change."

Wayne Dyer



Change starts from the inside. If you want your outside life to change, you first have to start with your mindset. Start learning how to learn, form new habits, learn new skills, and stop repeating what's not working.

Albert Einstein





# What does a continuous improvement culture look like?





# Culture eats strategy for breakfast.

#### Peter Drucker





#### **Core Elements of a Continuous Improvement Culture**

- Leadership commitment
- Organizational commitment
- Focus on customer needs
- Improvement Strategy
- Training, equipment, physical environment
- Standard work
- The people performing the work are involved in improving the work
- Personal accountability/Everybody everyday
- Change management
- Performance management/metrics





Toyota Production System

Lean

Six Sigma (SS)

#### Improvement Methodologies

Theory of Constraints (TOC)

Systems Thinking

Total Quality Management (TQM)

Agile

Triz







## Lean is a system for developing a continual improvement way of thinking.

#### What is Lean?

Lean is an organizational growth strategy based on satisfying the customer by delivering quality products and services that are just what the customer needs, when the customer needs them, in the amount required, at the right price, while using the minimum of material, equipment, space, labor, and time.

#### What is Lean?

Lean is unique as a management approach because it doesn't aim to tell people what to think or what to do but how to think about things so they come up with their own ideas, insights and initiatives.

Michael Ballé, lean author, executive coach and co-founder of Institut Lean France

## The best people to improve the process are the people working in the process









Lean is a continuous, evolutionary process of change and adaptation, not a singular, idealized vision or technologydriven goal state.



#### Goals of Lean



Eliminate Non-Value Added (Waste)



Reduce Lead Time



Reduce Total Costs





#### **5 Principles of Lean**







#### **Principle of Lean – Define Value**



#### 1. Define Value

- Voice of the Customer VoC
- Problem Statement
- Project Charter
- Purpose Statement
- Critical to Customer/Critical to Quality











#### **Principle of Lean – Create Flow**







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#### **Principle of Lean – Establish Pull**













#### **Continuous Improvement**







#### **PDSA – the Scientific Method**







#### **1. Define Value**







#### 2. Map the Process







#### **3. Create Flow – Eliminate Waste**







#### 4. Establish Pull & 5. Seek Perfection

#### LEAN ACTION PLAN

CGI

PRIORITY RANK	PROGRAM	TASK / ACTION	WHO	Ċ	STATUS
1	Planning and Unified OCS Requests	<ul> <li>Dedicated committee to create a template form to capture all relevant information (Checklist) and to provide sharing instructions</li> <li>Share with customer for review, approval and</li> </ul>	Jun, Ben, Rhulyx Martina Jun, Martina,	30 d 30 d	
		implementation.	Rhulyx		
2	GK Service Agreement	<ul> <li>Identify/List of non-critical activities</li> <li>To identify control points (CTQ and variations) (implement mistake proofing)</li> </ul>	Jun Shery, Vel	30 d 60 d	
		Learning and development plan by GK	Ed / Jaesel	90d	
3	RT Trainings	<ul> <li>Prepare training material</li> <li>Classroom training on Quality control points</li> <li>Schedule season long training on rice seed production and seed quality mgt.</li> </ul>	Gids, Ben, Sheryl, Roy/Anna	30 d 60 d 120 d	
4	Disease Management	<ul> <li>Create proposal of measures to implement (725+CCO+HRC)</li> <li>Meeting with experts to assess proposal and generate final document</li> <li>create SOP/WI</li> </ul>	Ben, Gids, Rhulyx, Roy	30 d 30 d 60 d	

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#### Value Added vs Non-Value-Added



Value Added Non Value Added

#### The Eight Wastes

<u>Transportation</u> – Movement of materials or people that does not add value

<u>Inventory</u> - Supply beyond the volume need for smooth flow through the process.

<u>Motion</u> - Movement of people or resources that does not add value.

<u>Waiting</u> - Idle time when productivity comes to a halt. <u>Overproduction</u> - Making more than required by the next process.

<u>Overprocessing</u> - Extra effort that creates little or no value. <u>Defects</u> - Errors causing rework, incorrect information or poor reports.

<u>Underutilized Talent</u> - Not deploying people to the best of their abilities.





#### The Waste of "Transportation"







#### The Waste of "Inventory"







#### The Waste of "Motion"







#### The Waste of "Waiting"







#### The Waste of "Over Production"







### Water-White ( )**Corn Syrup** $\bigcirc$ **Definition of** *water-white* approaching water in colorlessness and clarity





#### The Waste of "Over Processing"

THE UX DESIGNER PARADOX



"Over-engineering problem from software developer and product manager perspective" (rspective)





#### The Waste of "Defects"







#### The Waste of "People"







## How can we support National Programs in Continuous Improvement?





#### **Current Resources**

 Access to CI learning materials in the Toolbox on the Excellence in Breeding website <u>https://excellenceinbreeding.org/toolbox</u>







#### **Continuous Improvement Tools and Methods**

- Project Management
- Project Charter
- A3
- Introduction to Operational Excellence and Continuous Improvement
- Team Building
- Define Value
- Process Mapping
  - Value Stream Mapping
  - Flow Charts
  - SIPOC
  - Spaghetti Diagram
- Non Value Added/Waste Identification
- Root Cause Analysis
- Data Collection and Analysis

- Improve Flow
  - 5S
  - Set up reduction
  - Employee Activity
  - Batch Delay
  - One Piece Flow
  - Cell Design
  - Point of Use
- Pull Replenishment, Kanban
- Kanban
- Load Leveling
- Standard Work
- Mistake Proof
- Visual Management
- Action Plan
- FMEA
- Control Plan
- Kaizen Event
- Storyboard





#### **Resources Coming Soon**

- Access to online learning modules in the LMS (Learning Management System)
- Monthly learning topics
- Learning Videos



