









**BE Industry – Challenges** 

The COVID-19 pandemic presents a serious threat to people, businesses and economies across the world.

Leaders must focus on how to best protect their people, serve their customers and stabilize business continuity.

-Accenture

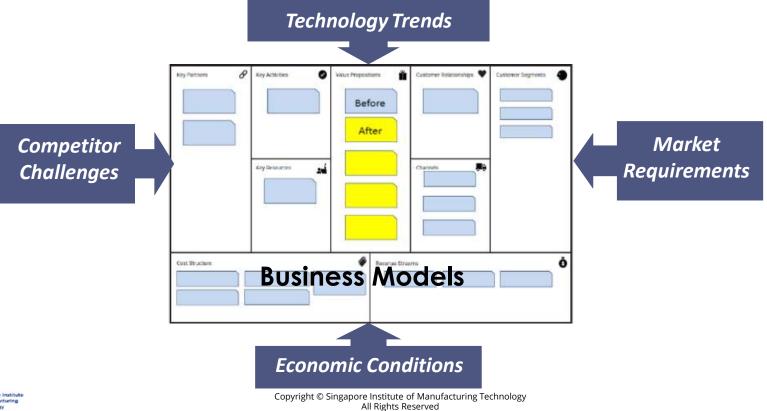






## **BE Industry – 4D Challenges**

# BE Industry subjected to 4D Challenges – DIGITAL, DISPLACEMENT, DISRUPTION, and DESTRUCTION







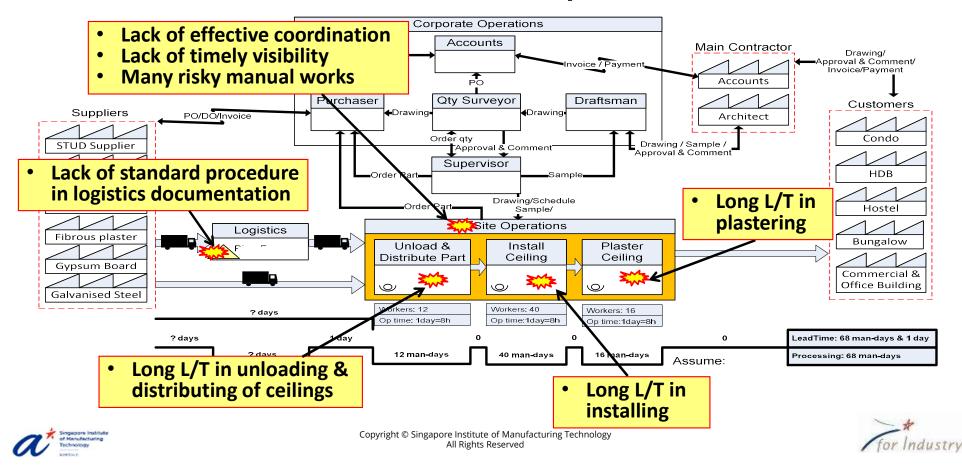
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## BE Industry – Challenges

## **Construction Site Operation**











**BE Industry – Challenges** 

## 破茧成蝶 Break through a Cocoon And Transform into a Butterfly

# Change our Thinking, Change our Habits Breakout of our Self-Constructed Walls of Limitations And Transform











## BE Industry – Challenges

The only sustainable Competitive Advantage is an Organization's ability to Transform faster than the Environment.

An Organization ability to Learn, Unlearn and Relearn, translate into Action rapidly, is the ultimate Competitive Advantage.

An Organization does not get Better by Chance, it gets Better by Change.



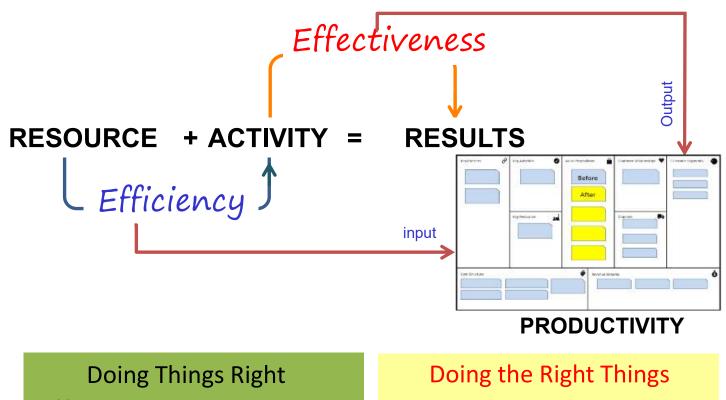


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## **Efficiency and Effectiveness - 2E**



**Efficiency** is a minimum condition for survival after success achieved.

Effectiveness is the

foundation of success



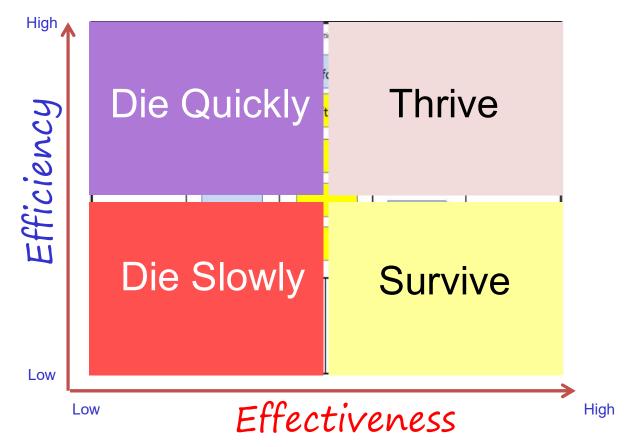








## Efficiency and Effectiveness – 4Q (Quadrants)







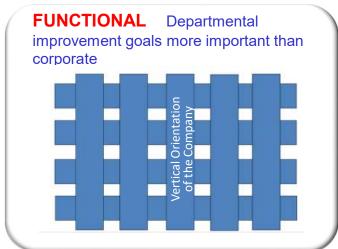


## What lead to Low Effectiveness?

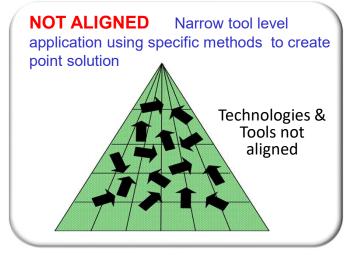




#### **Functional Focus**



#### **Technologies & Tools (Objectives)**













## **More Effective and Sustainable Approach**

**SYSTEM Transformation**: Start with a System Framework



Proactive, Holistic and Total Value Chain Approach (Strategic Methodology)

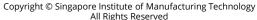
#### **Business Focus**



#### **Technologies & Tools (Enablers)**















**PROCESS Improvement** 

**Continuous** improvement to the way the work is done

**LEADERSHIP Philosophy** 

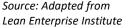
Management **System** 

**PEOPLE Development** 

**Sustainable** improvement in the capability of the people

**DIGITAL Technology Deployment** Horizontal and vertical integration of processes











## Operations Management Innovation (OMNI) Methodology

#### Stage 1

## Determine

DETERMINE BUSINESS STRATEGY AND OBJECTIVES



#### Stage 2

## Identify

IDENTIFY ACTIVITY LANDSCAPE



#### Stage 3

#### **Improve**

IDENTIFY IMPROVEMENT AREAS AND ASSESS PRODUCTIVITY



#### Stage 4

#### **Prioritize**

GENERATE AND PRIORITIZE INITIATIVES



#### Stage 5

#### **Develop**

DEVELOP ACTION PLAN



## Strategy

- Understand background information
- Review current business competitive strategy and gaps
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- Assess current productivity of improvement areas
- Generate initiatives
- Assess productivity indexes of improvement areas
- · Prioritize initiatives

## Action

- Assign responsibilities and estimate budgets required
- Establish duration and deliverables





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## **5 Pillars of Operational Excellence**

**VALUE Proposition Mission and Vision** 

PROCESS Improvement

Continuous improvement to the way the work is done

LEADERSHIP Philosophy

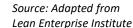
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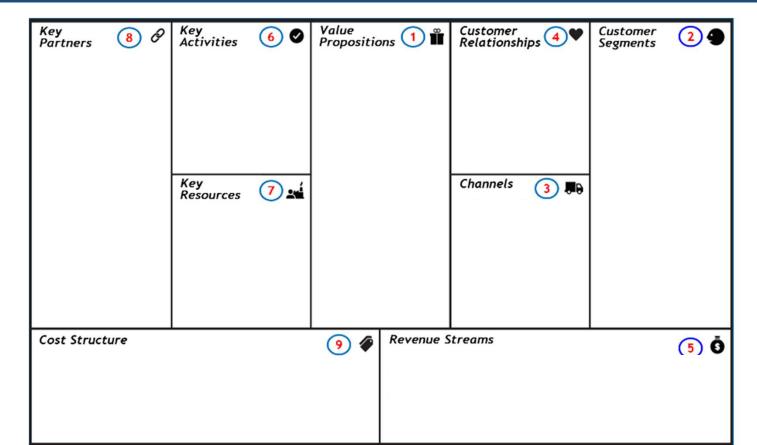




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**BUSINESS VALUE Proposition – Business Model** 

Source: Osterwalder

#### **Business Model Canvas**





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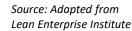
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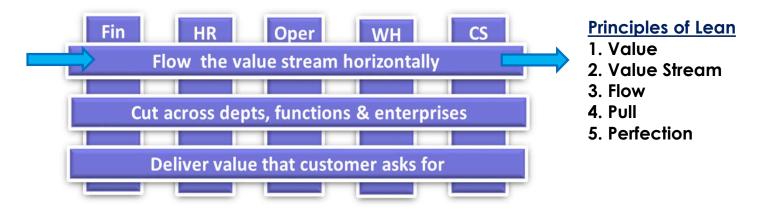






## **Horizontal Process Thinking**

- Organizations are vertical managers look up toward the top for direction
- Value flows horizontally across organizations to customers
- The Challenge lies in Seeing, Understanding, and Improving the horizontal value stream



If the ladder is not leaning against the right wall, every step we take just get us to the wrong place faster — Stephen Covey





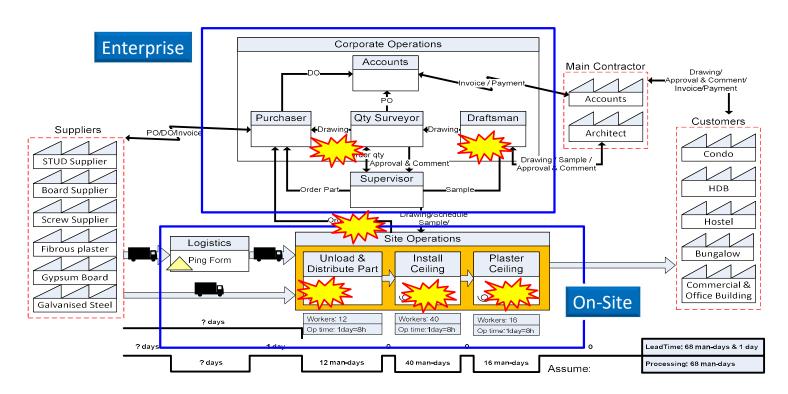






## **Value Stream Mapping**

# Using <u>VALUE STREAM MAPPING</u> to See the horizontal value stream, then Identify <u>HOTSPOTS</u>, and <u>OPPORTUNITIES</u>.





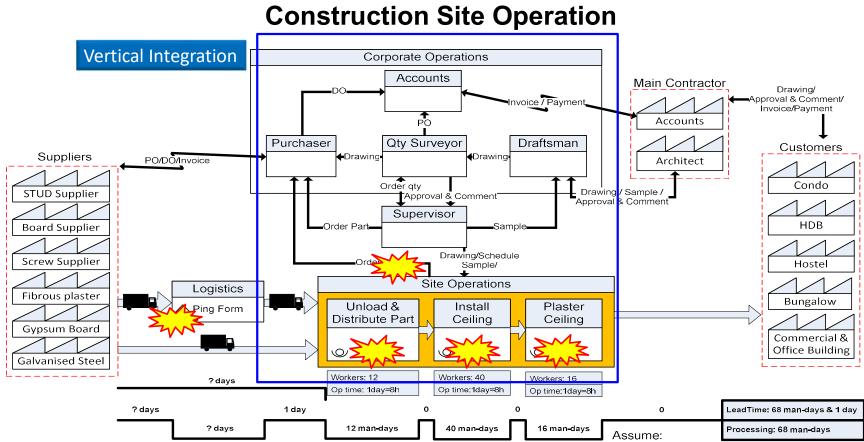


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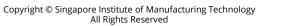




## **PROCESS Improvement**





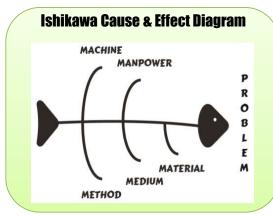


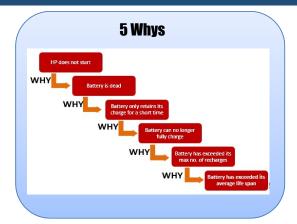


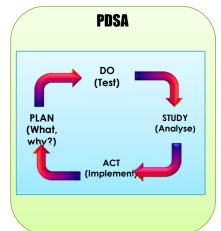
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## **Lean Tools**



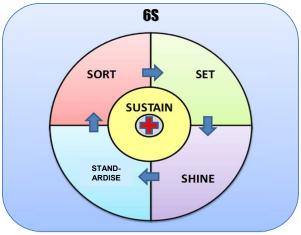






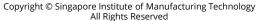
EXTRA-

**PROCESSING** 

















## **PDSA and SDSA Cycle**

#### **MAINTENANCE SDSA Cycle**

#### **IMPROVEMENT PDSA Cycle**

P: Plan

D: Do

S: Study

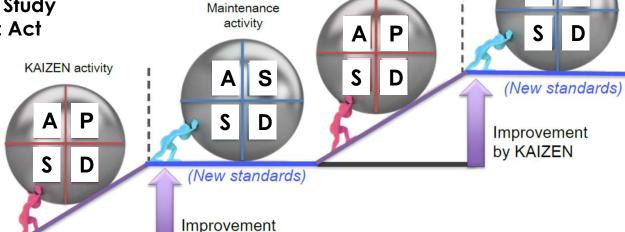
A: Act



S: Study

A: Act

by KAIZEN



KAIZEN activity





Maintenance

activity

S

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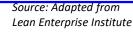
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DIGITAL Technology Deployment
Horizontal and vertical integration of processes







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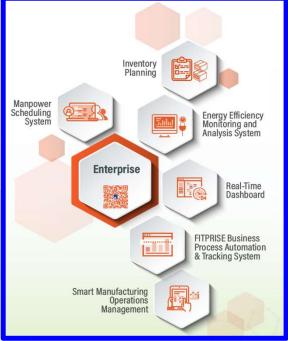


## SIMTech DIGITAL Technologies





## SIMTech Model Factory













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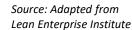
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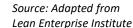
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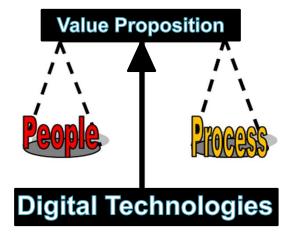


PEOPLE Development

Sustainable improvement in the capability of the people

## 先学做人,后学做事 Make Your People before You Make Your Process/Product

Digital Technologies
Deployment is Process
Improvement and
People Development







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## **PEOPLE Development**

先学做人, 后学做事

Make Your People before You Make Your Process/Product

<u>People</u> <u>Point of View</u>

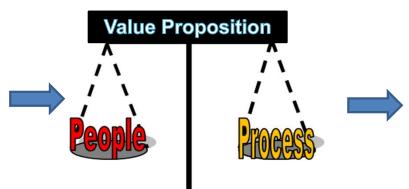
> INPUT Mind-Set

Well-Being Motivation

**Engagement** 

BEING

Digital Technologies
Deployment is Process
Improvement and
People Development



**Digital Technologies** 

Company Point of View

**OUTPUT** 

New Products
Quality

Quantity

**Time** 

**DOING** 





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## PEOPLE Development – Job Redesign







- Motivate employees and enhance jobs
- e.g. bored at job, doing repetitive tasks, job dissatisfaction



#### Mechanistic

- Improve Performance
- Improve efficiency
- Increase productivity

#### **Biological**

- Growth in number of Seniors at workplace
- Address employees stress, fatigue, physical strains
- e.g. Ageing workforce

## Perceptual/Motor

- Address limitations, auto cruise or auto pilot
- New implementations (e.g. upgrade of equipment, systems)

#### **Value Creation**

- Change in business expectation
- Address evolving & changing needs in the business environment (e.g. disruption in technology, industry, economy)











# BUSINESS VALUE Proposition Mission and Vision

PROCESS IMPROVEMENT

**LEADERSHIP Philosophy** 

The Critical Skill of this Century is not what you know.

It is how you access what other people know.

- CK Prahalad

PEOPLE DEVELOPMENT

DIGITAL Technology Deployment Horizontal and vertical integration of processes











## **LEADERSHIP Philosophy**

When Leaders Transform, the Organization Transforms

If you want to have more, you have to become more.

For things to change, you have to change.

For things to get better, you have to get better.

For things to improve, you have to improve.

If you grow, everything grows with you.











## **5 Pillars of Operational Excellence**

**VALUE Proposition Mission and Vision** 

**PROCESS Improvement** 

**Continuous** improvement to the way the work is done

**LEADERSHIP Philosophy** 

Management **System** 

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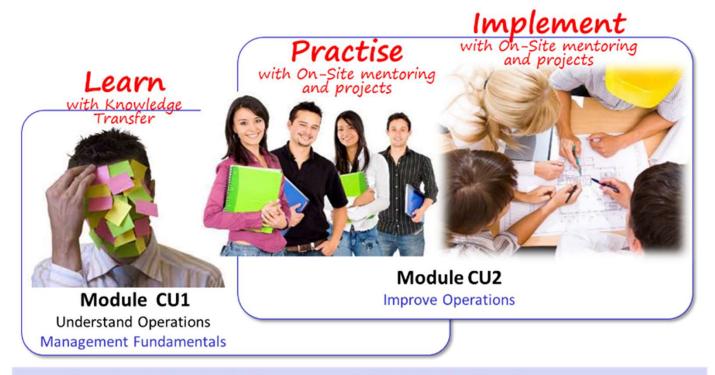


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# **OMNI Programme**



SIMTech and SSG (previously known as WDA) jointly developed this programme to improve productivity of companies by transferring knowledge and developing <u>productivity champions</u> to sustain productivity improvements and achieve operational excellence. (consisting of 2 modules with 20 sessions)

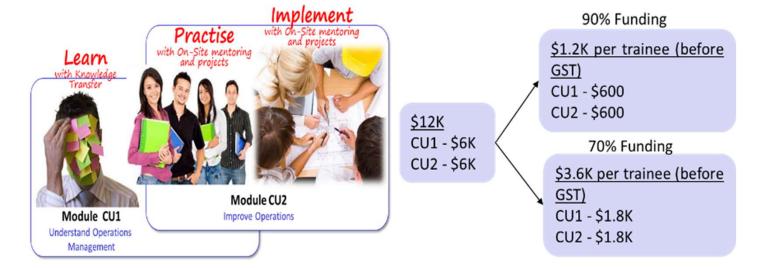




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**OMNI Programme** 

- Singaporean or Permanent Resident employees fully sponsored by SMEs can enjoy course fee
  funding support of up to 90% of the course fee under the Enhanced Training Support for Small
  & Medium Enterprises (SMEs) scheme, subject to eligibility criteria.
- Singaporeans aged 40 years and above can enjoy course fee funding of up to 90% of the course fee under the SkillsFuture Mid-career Enhanced Subsidy (MCES).



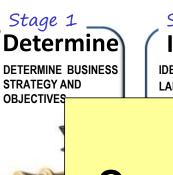








## Operations Management Innovation (OMNI) Methodology



Stage 2 \_\_\_\_\_
Identify
IDENTIFY ACTIVITY
LANDSCAPE

Stage 3 Improve

IDENTIFY IMPROVEMENT AREAS AND ASSESS Stage 4 \_\_ Prioritize

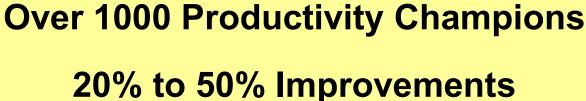
GENERATE AND PRIORITIZE INITIATIVES

Develop

Stage 5

DEVELOP ACTION PLAN

**Over 300 Companies** 





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# Dream Big Start Small Act Now

**Transformation starts NOW from me** 



