

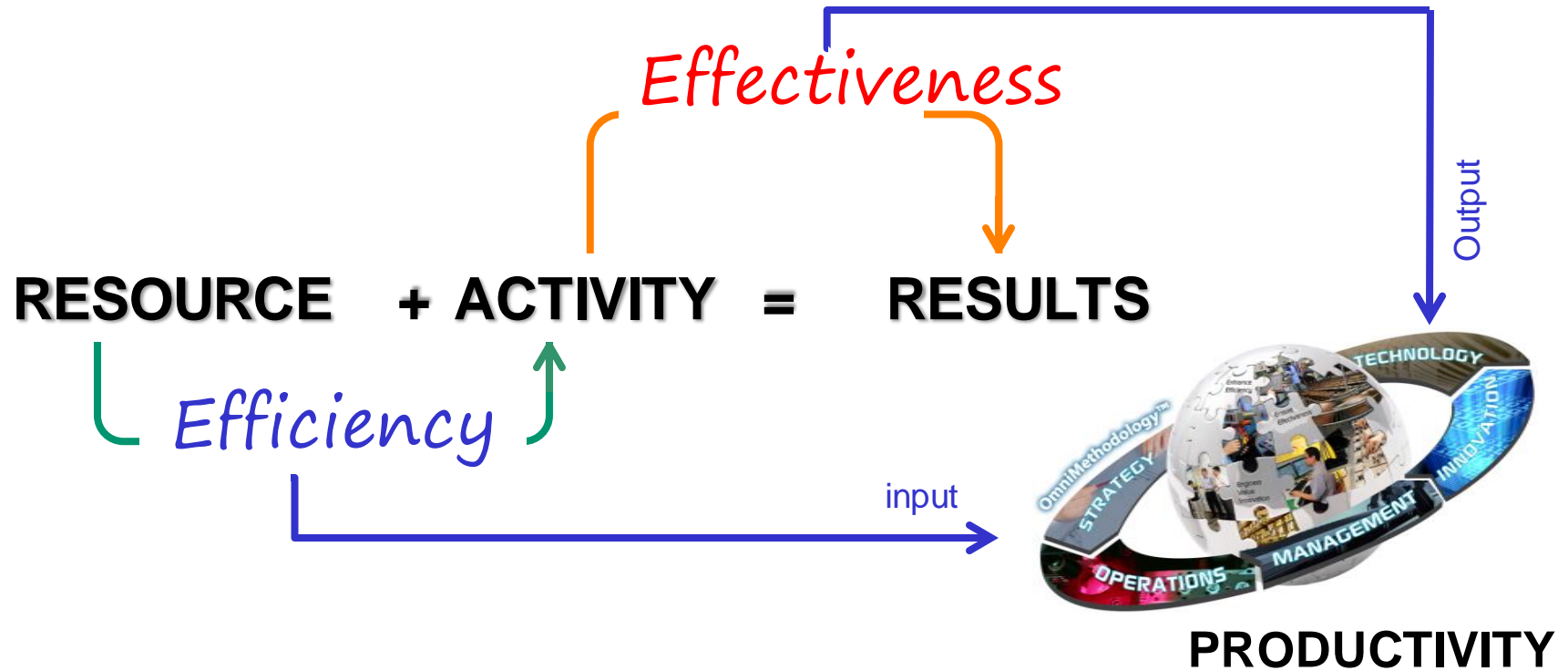
The OMNI Programme

Strategies for
Productivity Improvement
to Achieve Operational Excellence



Manufacturing Productivity Technology Centre

Productivity Concepts



Doing Things Right

Efficiency is a minimum condition
for survival after success achieved.

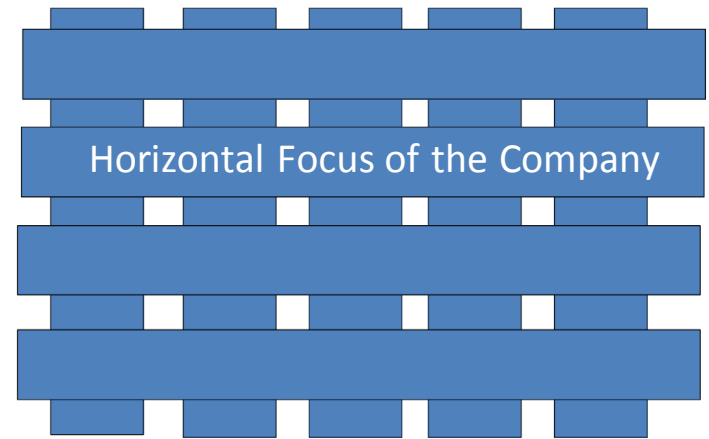
Doing the Right Things

Effectiveness is the
foundation of success

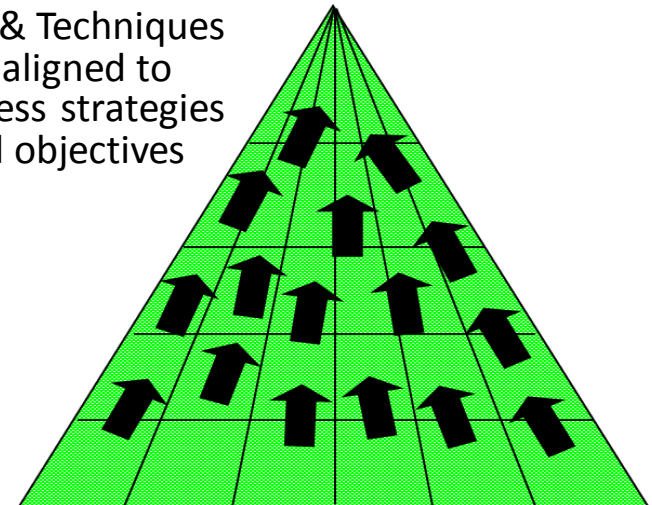
OMNI Approach

The challenge for companies who want to **achieve and sustain** their competitive position and deliver extraordinary levels of distinctive value to selected customers (*World Class Productivity*), is therefore to adopt a

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



Tools & Techniques
all aligned to
business strategies
and objectives



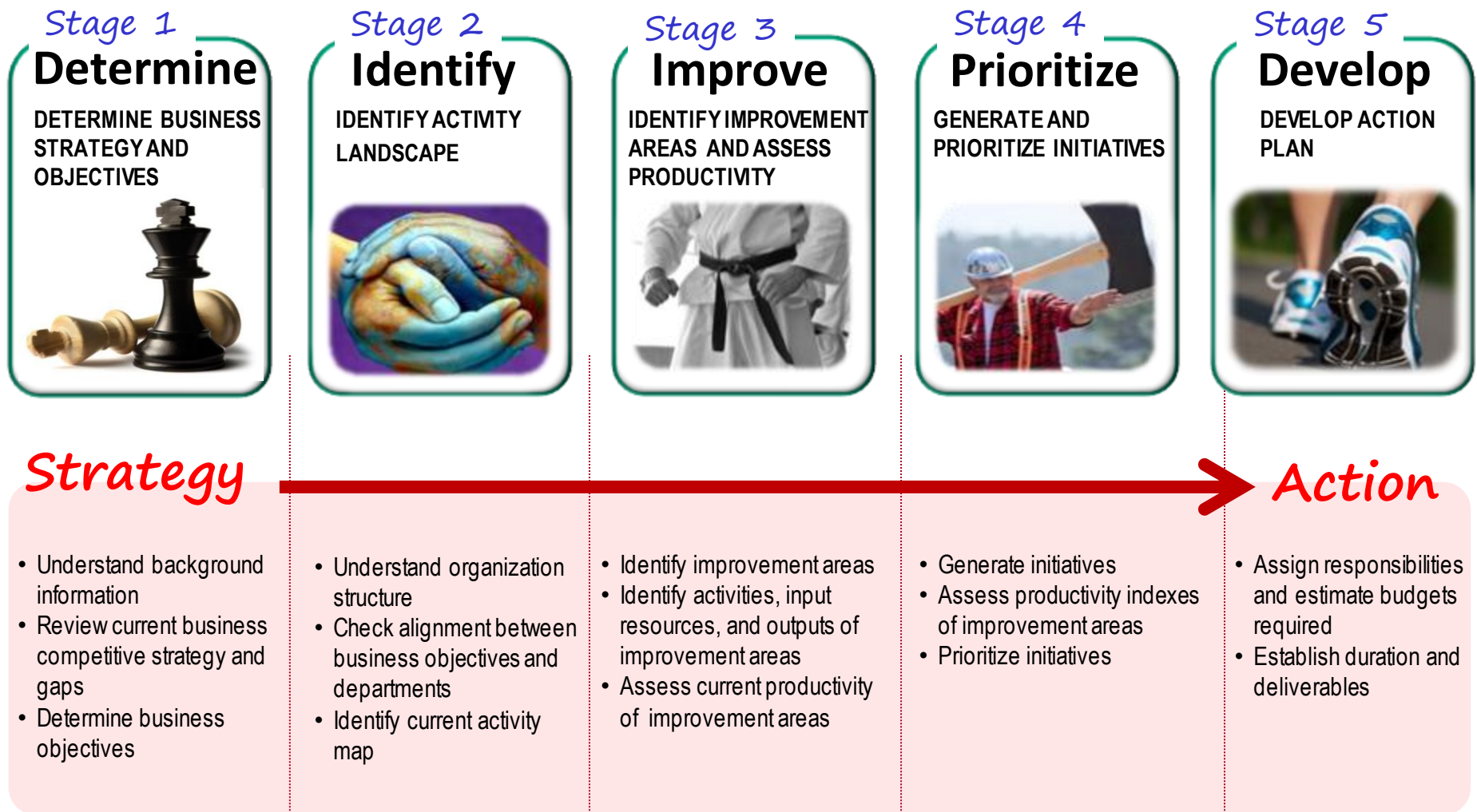
5 stages

OMNI

*Strategic
Methodology*



OMNI approach *(OmniMethodology™)*



Stage 1

Determine

DETERMINE BUSINESS
STRATEGY AND
OBJECTIVES



Operational Excellence

you have your
processes so
under control
that you deliver
best total cost
to your
customers

OMNI Toolbox

Customer Intimacy

the customer has turned over
an entire process to you.

You are creating the

best total solution

for the
customer

Performance Threshold

Product Leadership you sell the **best product** on
the market

Source: The Discipline of Market Leaders (Treacy & Wiersema)

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Stage 2 Identify

IDENTIFY ACTIVITY
LANDSCAPE

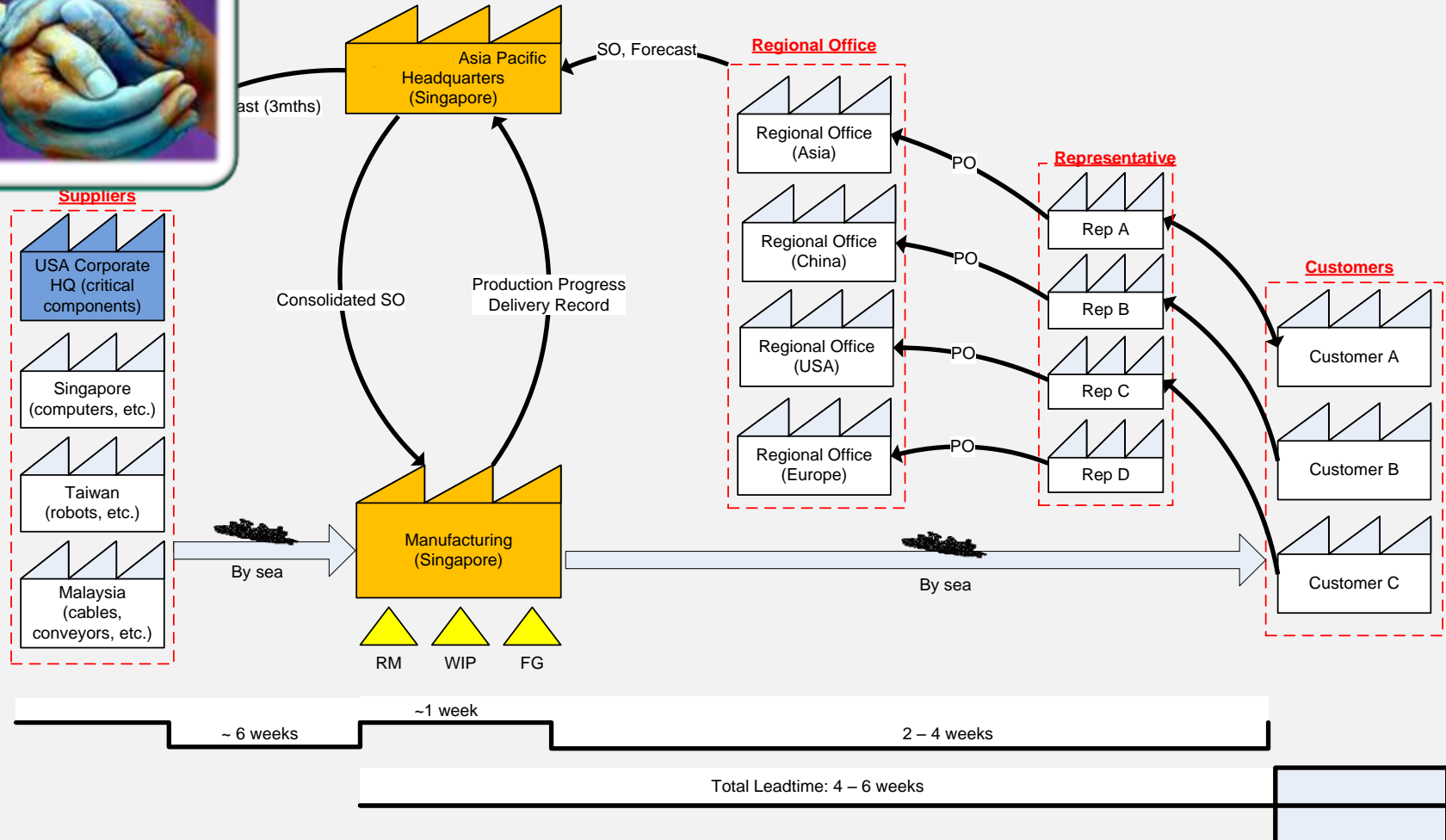


OMNI Toolbox

Supply Chain

Functional Level

Process Level



Stage 3

Improve

IDENTIFY IMPROVEMENT AREAS AND ASSESS PRODUCTIVITY



OMNI Toolbox

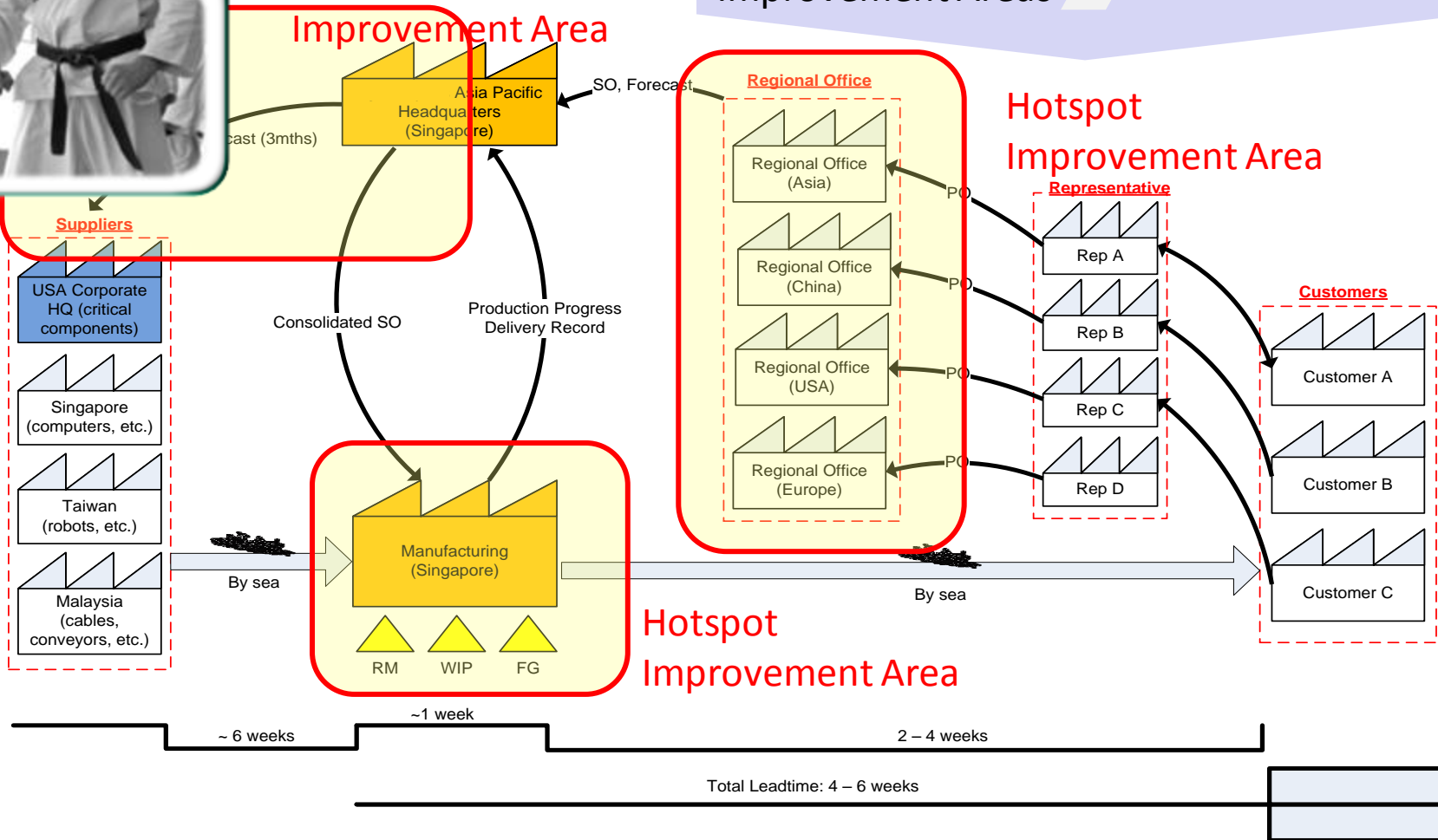
Identify Activities, Input Resources and Outputs of Improvement Areas

Assess Current Productivity of Improvement Areas

Hotspot Improvement Area

Hotspot Improvement Area

Hotspot Improvement Area



Stage 4

Generate

GENERATE AND
PRIORITIZE INITIATIVES



OMNI Toolbox

Improvement area #1	Current period			Future period			
	Quantity	Price	Value	Quantity	Price	Value	Index
Output:							
Product 1	1000	30.00	\$30,000	1100	30.00	\$33,000	
Product 2	100	190.00	\$19,000	80	190.00	\$15,200	
Total Output			\$49,000			\$48,200	0.98
Input:							
Labor							
Activity 1	3000	5.00	\$15,000	2500	5.00	\$12,500	
Activity 2	600	6.00	\$3,600	500	6.00	\$3,000	
			\$18,600			\$15,500	0.83
Material							
			\$6,000	7000	1.00	\$7,000	
			\$1,200	150	6.00	\$900	
			\$600	300	2.00	\$600	
			\$7,800			\$8,500	1.09
			\$1,500	8000	0.15	\$1,200	
			\$200	250	1.00	\$250	
			\$1,700			\$1,450	0.85
			\$10,000	\$100,000	0.100	\$10,000	
			\$10,900	\$180,000	0.073	\$13,080	
			\$20,900			\$23,080	1.10
			\$9,000			\$48,530	0.99
			2.63			3.11	1.18
			6.28			5.67	0.90
			2			33.24	1.15
			4			2.09	0.89
			0			0.99	0.99

Tools and Techniques

Categories	Tools/Techniques
Technology based	<ul style="list-style-type: none"> Computer Integrated Manufacturing CAD/CAM Robotics Maintenance Management
Process based	<ul style="list-style-type: none"> Supply Chain Management Business Process Re-engineering Value Stream Mapping Flow Principle and Layout
Material based	<ul style="list-style-type: none"> Material Requirements Planning Materials Management Material Recycling Material Handling System Improvement
Product based	<ul style="list-style-type: none"> Value Engineering Product Variety
Employee based	<ul style="list-style-type: none"> Financial Incentives Fringe Benefits Employee Promotion Job Enrichment Job Enlargement Training/Education Job Rotation Learning Curve Communication Working Condition Improvement

Stage 5

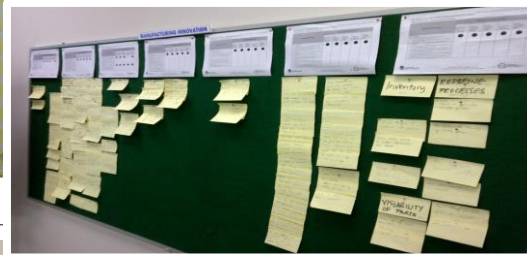
Develop

DEVELOP ACTION PLAN

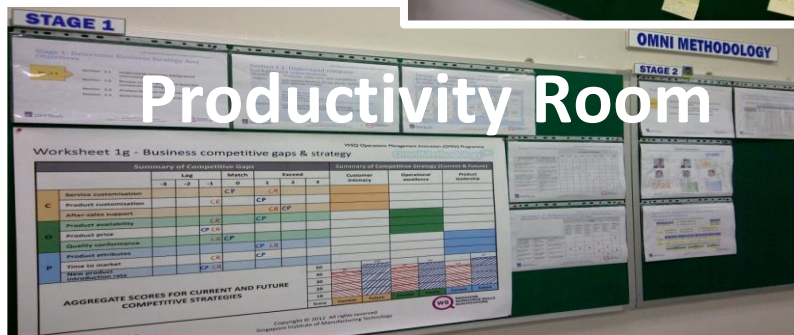
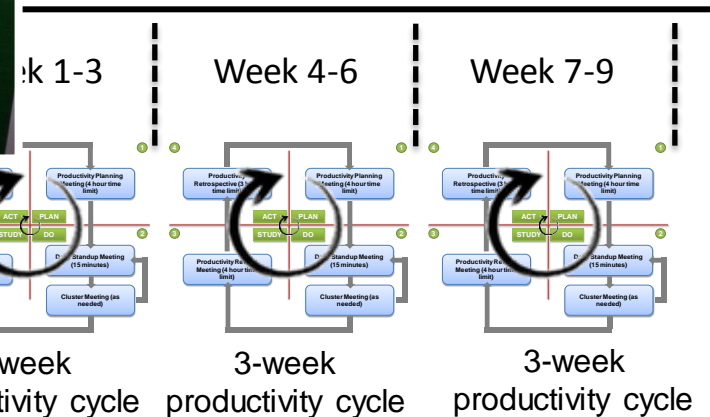


OMNI Toolbox

Improvement Areas	Initiatives	Responsibilities	Budget	Duration (time required to complete initiative)	Start Date (project kick off)	Deliverables*
Order Processing Process	Re-design the Pre-press process between Program and Pre-press functions	Roland	\$25,000	4 months	June 2011	<ul style="list-style-type: none"> Improve customer response time by <u>25%</u> Labour productivity gain by <u>10%</u>
Material Ordering Process	Re-design the Paper Ordering Process between Material Planning and Program functions	Goh	S\$30,000	6 months	June 2011	<ul style="list-style-type: none"> Reduce labour cost by <u>23%</u> Reduce material holding cost by <u>5%</u>
RM Allocation	Simplify / Automate the Paper	Amrik	S\$4,000	3 months	Sep 2011	Reduce Labour cost by <u>60%</u>
	luring	Roland	S\$2,000	3 months	June 2011	<ul style="list-style-type: none"> Improve labour productivity by <u>10%</u> Improve material productivity by <u>20%</u>
						Reduce ROG cost, sorting



PDSA Cycle Discipline



Productivity Room

Understand Operations

Improve Operations

Develop Action Plan

Thank You



**Thank you for your attention
Any Questions?**