Working Group 1&3

Interim Report for AKAC 2021.

2021.08.26 Chair of WG 1&3 Mr. Hosni Belhadj, CETIME, Tunisia

Schedule of WG 1&3 in the half of the year 2021

Date	Ageda	Outcome
19/01/21	2 nd Meeting to share the current situations <u>focusing</u> on the certification system	Shared data and information
16/02/21	3 rd Meeting to share the current situations <u>focusing</u> <u>on KPIs</u>	Shared data and information
17/02/21- 16/03/21	 Implementing 3rd assignment Reviewing the findings reported in the previous 2 meetings (2nd and 3rd) Identifying the difficulties/existing problem to set up the certification system and to apply common KPIs in each country Brainstorm the way forward 	
17/03/21	4 th Meeting to discuss findings and challenges specified in the previous 2 meeting and discuss the	Consensus
20/04/2021	5 th Meeting to deepen the discussion of common KPIs, focusing on the current situation about KPI in each country	Idea to move forward was shared and agreed, while the current status of KPIs in each country is shared.
25/05/2021	6 th Meeting to discuss the methodology to express the Kaizen effect by financial figures	4 methodology was suggested and 2 among the four was selected.
17/06/2021 And 03/08/2021	7 th and 8 th Meeting to discuss the format to express Kaizen effect by financial figures	The formats to express Kaizen effect by financial figures was explained and agreed.

Theme (WG) 1: Certification System

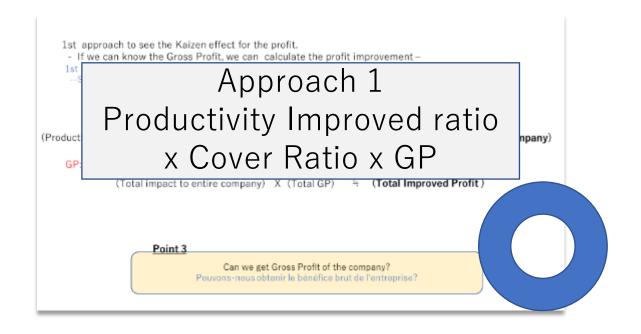
- 1. We have summarized the current status of Certification system in each country by making the chart and waiting for the several rest countries will reply.
- 2. Regarding the certification system, after the summarization, we need to decide the pilot country to be assisted for setting up the certification system by the scheme of JICA survey.
- 3. Based on the pilot activities in the selected pilot country, we will decide the contents of the "guideline" for AUDA-NEPAD.
- 4. However, it might be still difficult to start the pilot activities soon because of COVID-19. Maybe from autumn? Therefore, we agreed that we will concentrate more on the discussion about KPI for the time being.

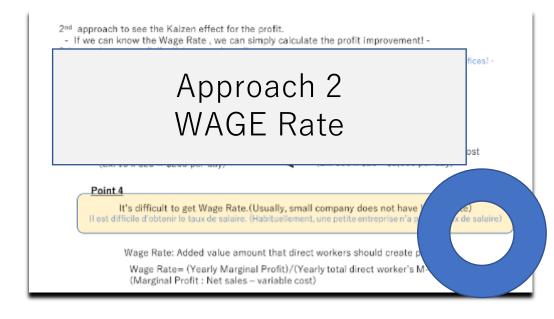
Expected Monitoring system of Common KPIs by JICA survery team

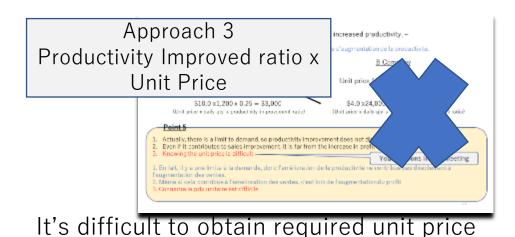
	In Companies	In Countries	Transcontinental		
Actor	Kaizen consultants of each country	Kaizen promotion organization officers of each country	AUDA-NEPAD officers		
Content of collected data	 Labor productivity (person-hours) in model area Defective rate Yield rate On-time delivery rate Waste reduction volume 	Aggregates the raw data for the five indicators at left and Kaizen rates for each by sector	Aggregates the data in a format that is easy to use for AUDA-NEPAD advocacy such as by sector, by regional economic communities (RECS), by SDG theme, etc.		
	 Monetary amounts directly linked to enhancing added value that can be converted into monetary value 	Aggregates the data at left by sector			
Frequency	Sequentially after completion of each company's Kaizen implementation	Once every six months (discussions necessary in the same span)	Once every year (discussions necessary in the same span)		
Method	Transition from submission of Excel files through individual emails to submission via a simple data base using G-Suite				
Recording/ reporting format	After compiling the Kaizen results sheets, enters data into Excel files for reporting (or into the database after its creation).	Aggregates and edits the Excel forms used for the reporting at left ⇒ Aggregates and edits through the database after its creation	⇒ Aggregates and edits through the		
Feedback method	Includes Kaizen results sheet in company reports	<u>Creates annual Kaizen reports</u>	Creates the African Kaizen White Paper		

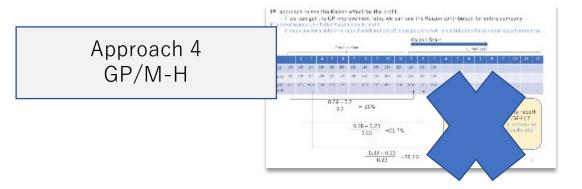
Theme (WG) 3: Common KPIs

-How to express the Kaizen effect by financial figure-









There are factors other than Kaizen effect

Format to calculate automatically into the Kaizen effect by financial figure

	Company Informat	tion				
	Name	CODE				
Country	Republic of Tunisia	33				
Company	AAA company	33-00001				
Sector code	Manufacturing	1				
Manufacturing Subsector Code	Electronics	16				
Service Subscetor Code	Service Subscetor Code	Code				
	Item	Difinition				
	Minumum Wage/Hour	legal minimum wage	100	TND		
Basic Condition			3,934.00	JPY		
Dasic Condition	Pilot Line coverge ratio	Gross profit base or Sales base	30%			
	Yearly Gross Profit	last year actual	1,000,000	TND		
Field	lt	Difinition	Condition Before Kaizen	Condition After Kaizen	I	0.1.1/1111.71
rieid	Item	Diffinition	Condition before Naizen	Condition After Naizen	Improvement ratio	Output/Input Units
	Output	Qty',Number of Customer,CS,Sales etc.	800	1,200		Daily
Key Indicators	Input (M-H)	Man-Hour(M-H)	200	180		Daily
of Pilot Line	Productivity(Output/M-H)		4.000	6.667	66.7%	
	Defect(%)	(Number of defect product/ Products Quantity)	5.50%	1.40%	-74.55%	
	Used Space	M ²	300	250	-51)
	Space-Productivity		2.67	4.00	133.39	
	opado i roddotinty		2101	1100	1999	Time unit
Sub indicaor	Lead Time(Factory-in to Factory-out)	Second,Minite,Hour,Day	7,200	2,880	609	
of Pilot Line	Lead Time(Line-in to Line-out)	Second,Minite,Hour,Day	80			6 PLS INPUT
	WIP(Qty')	The average number in the line	100	50	509	6
720	O OEE	AvilabilityxPerformance xQuality	68.00%	83.00%	22.069	6
	Inventory (from B/S)	Inventory Amount in B/S	500,000	230,000		
Company -wise	Yearly Net Sales	Net sales	2,000,000	2,000,000		
	Inventory Turnover(D/S)		91.3	42.0	54.09	6
Sub indicators	- 60					
	Return ratio(%)	The number of return product/shipped Qty'	8.50%	2.30%	72.949	
	ES score(point)		45			
	Yearly Incident	The number of insident in work site	10	2	809	6

Pilot implementation of the format in the 3rd quarter

	KPI & Sub Indicator list				
	name	Code	Sector Code	Subsector Code	
Country	Republic of Tunisia	33			
Company	AAA company	33-00001	1	16	
	Category	Item	Figure		
KPI A-1		Financial Improvement by Kaizen	472,080	JPY	
	KPI A-2	Financial Improvement by Kaizen	7,868,000	JPY	
			Improvement ratio		
Key Indicator of Pilot Line		Productivity Improvemen(per M-H)	66.7%		
		Defect ratio improvement	74.5%		
Sub indicaor of Pilot Line		Productivity improvement(per Sapce)	60.0%		
		Lead time Reduction-1(F-in to F-out)	56.3%		
		Lead time Reduction-2(L-in to L-out)	50.0%		
		WIP Reduction			
		OEE improvement	22.1%		
		Inventry Reduction	54.0%		
Company -wise		Return Ratio	72.9%		
	Sub indicators	Employee Satisfaction	44.4%		
		Incident(safety)	80.0%		

Financial effect of Kaizen

GEMBA KPI