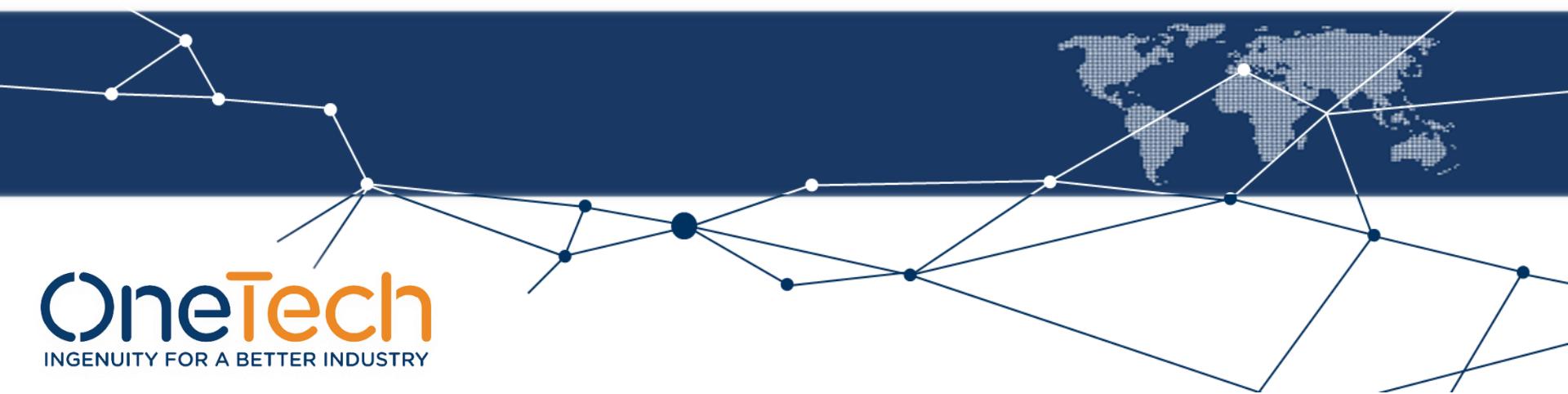


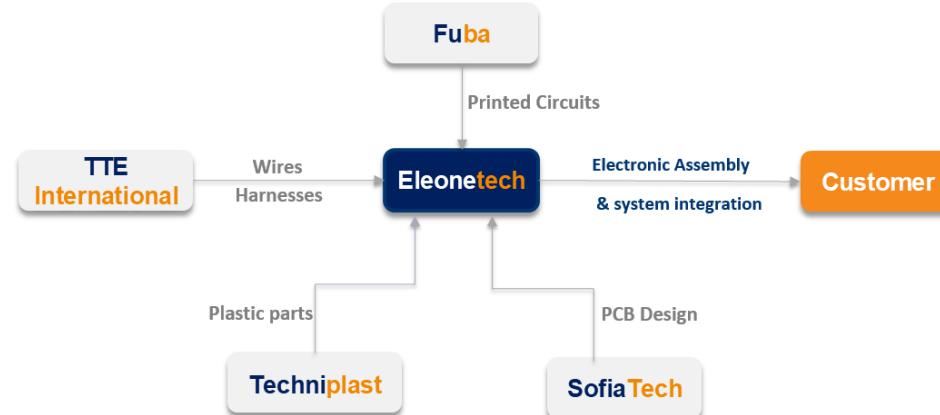


# WELCOME

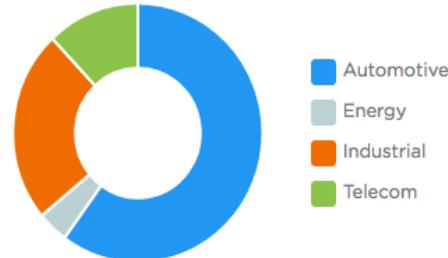
**OneTech**  
INGENUITY FOR A BETTER INDUSTRY



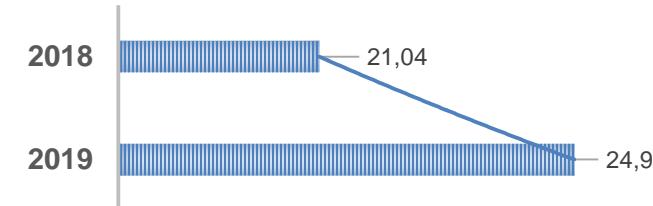
# AFRICA KAIZEN AWARD 2020 - Organization Presentation



## TURNOVER BY SECTOR



## ANNUAL TURNOVER (US M\$)



## CERTIFICATIONS

ISO9001

ISO14001

ISO45001

IATF16949

# Mechatronics Subsidiaries

A regional Supplier to tier-one of the Automotive Industry, of better performing systems at cost Leadership.  
Supply of Electronic, Electrical and Electromechanical components and modules :

Automotive, Telecommunications ,Industry, Energy, Aerospace...



Components

## Plastic Modules



Technical Plastic  
Injection

**Techniplast OneTech**  
(Morocco) MSA



Modules &  
Assembly

## Electromechanical Modules



Modules and  
Harnesses

**TTE International**  
A Onetech company



Modules &  
Assembly

## Electronic Manufacturing services



Electronic Cards

**Eleonetech**  
A Onetech company

**Eleonetech**  
A Onetech company

**Techniplast**  
A Onetech company

**Fuba**  
A Onetech company

**Tunisie Cables**  
A Onetech company

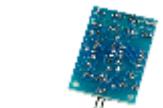
**TTE International**  
A Onetech company

**Sefiatech**  
A Onetech company

**OneTech**  
B.S

**OneTech**  
Mobile

**OneTech**  
M&A



Components

## Printed Circuit Boards

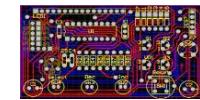


PCB double sided  
and multi-layer

**Fuba**  
A Onetech company



## Electronic Development Services



**Sefiatech**  
A Onetech company



## Our technical partners

# Electronic Manufacturing Services

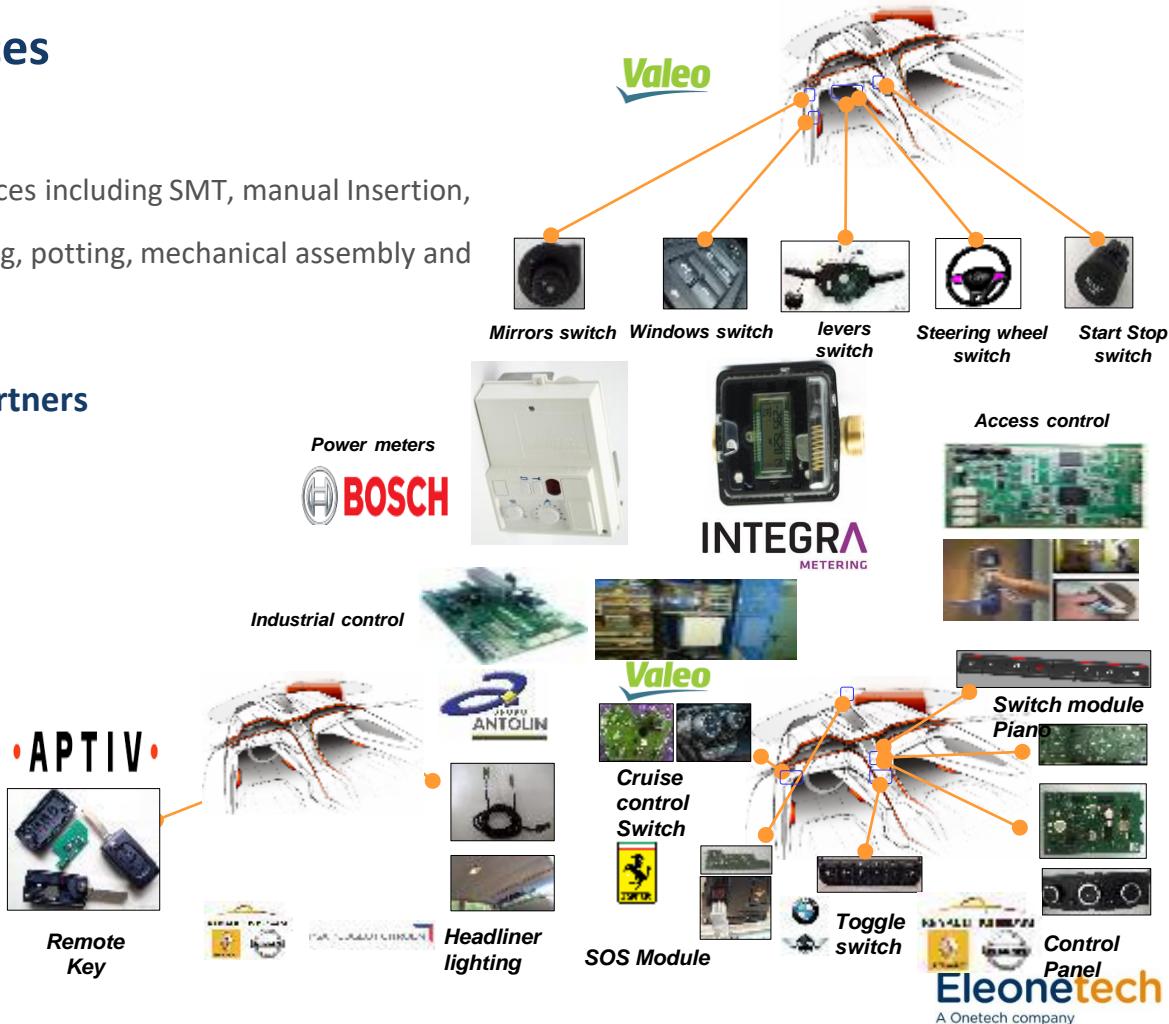
**Eleonetech** offers electronic manufacturing services including SMT, manual Insertion, leaded and lead free wave soldering as well as coating, potting, mechanical assembly and testing.

**Full service provider for our customers & partners**

- ➔ CoDesign / routing with our partners
  - ➔ New Product Introduction (NPI)
  - ➔ Development of ICT and FCT tools

## Products

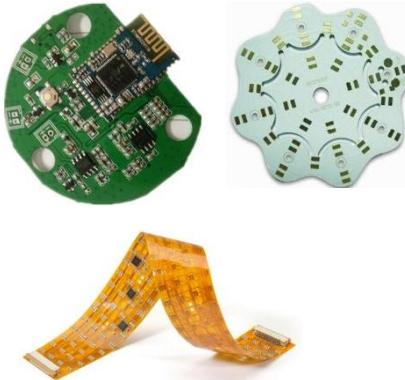
- ➔ Interior Switches & Controls:  
Control Panel, Door Control & Interior  
lighting, Car electronics
  - ➔ Industrial control boards:  
access control, power meters boards, HVAC  
control boards.



# SMT Process description



# Component Placement Capability



**FR4, IMS and  
Flex PCB**



**Standard SMT packages**

Chip shooter accuracy: 50um  
Multifunctional head: 30um



**Exotic SMT packages**

Connectors, Pin in paste, SIM  
holder, headers, battery holder...

## Traceability

### Full traceability deployment on SMT process

- Specifications definition with our partners
- Multi level tracking solutions
- Products in process unique identification
- Automatic process parameters records



**Material reception with  
unique ID**



**SMT Process**



**Scan and trace solutions  
on Final Test**

## References



ELEMMASTER GROUP  
TECHNOLOGIE ELECTRONIQUE



antenne  
CALEARO®  
Magister Antennae

BOSCH

Adeunis  
RF

• APTIV •  
ABB

Miele



Canon

ODW ELEKTRIK

Sagemcom

KROSMERG & SCHUBERT

SIAME

INTEGRA METERING

Amphenol Air LB

## Awards



Best Quality  
Supplier award  
2016



Valeo

VALEO logistics  
Award Best  
supplier 2017



Italian  
Business Oscars

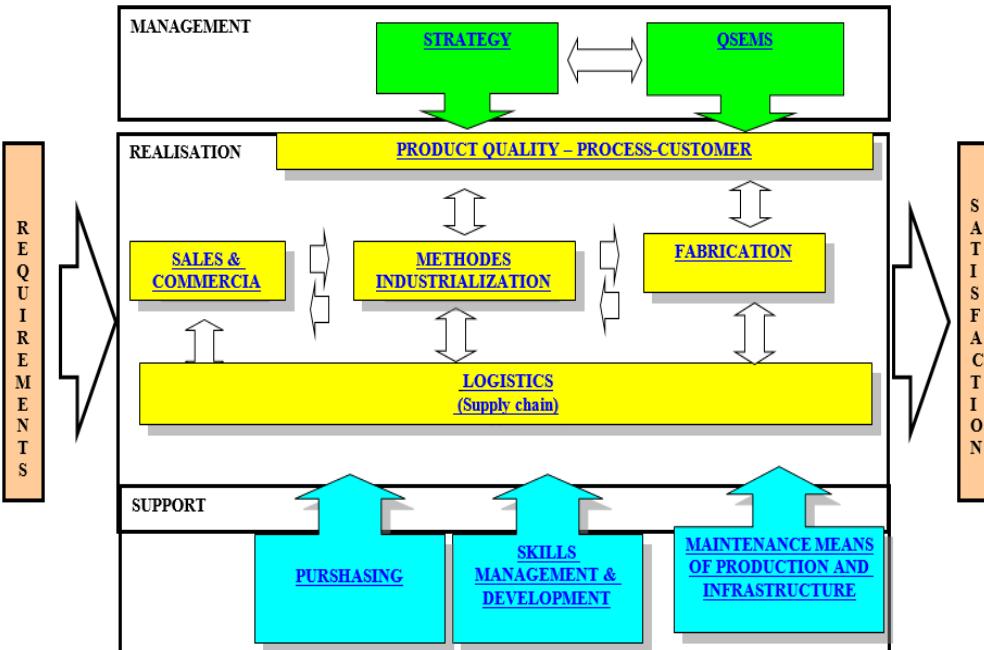


jica  
Japan International  
Cooperation Agency

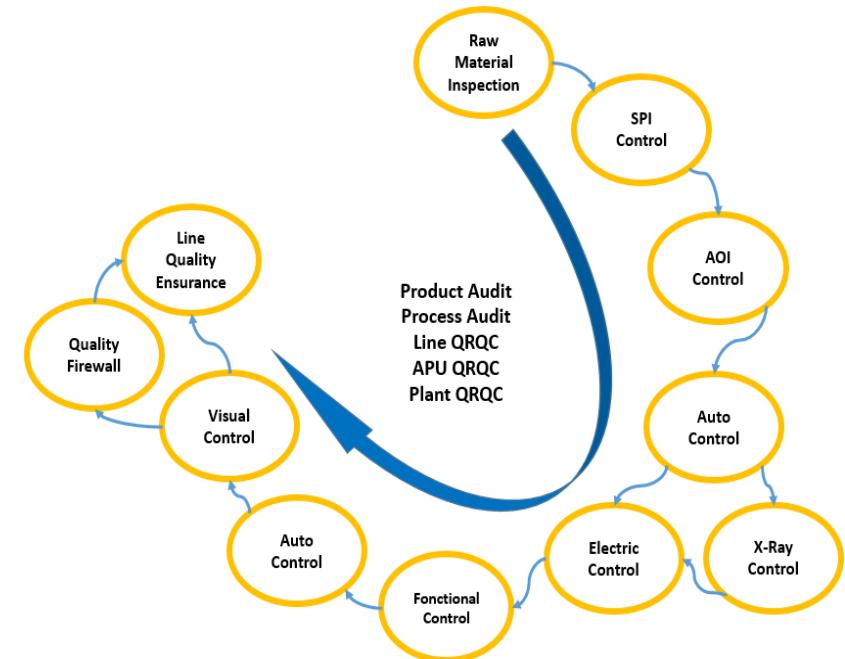
KAIZEN  
Tunisia Prize  
Eleonetech  
A Onetech company

# AFRICA KAIZEN AWARD 2020 – Work Structure & Quality Control

## Work Breakdown Structure

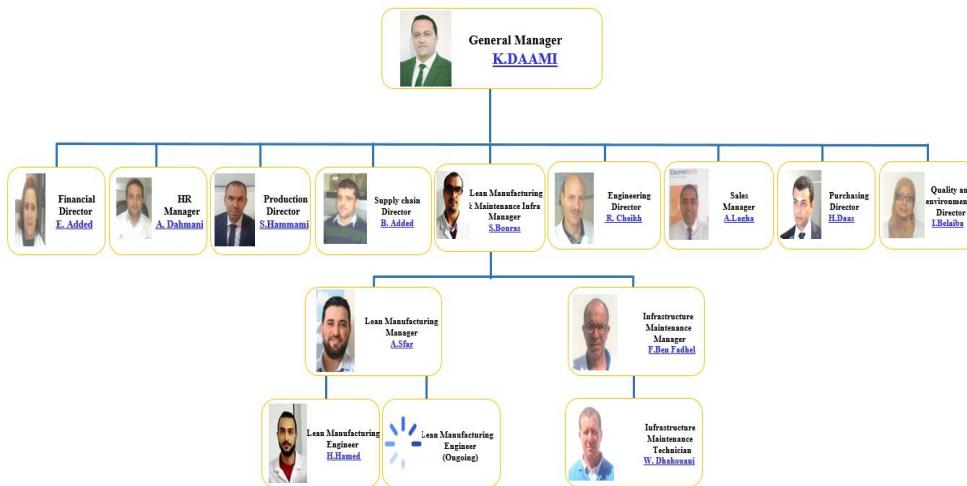


## Quality Control System



# AFRICA KAIZEN AWARD 2020 - Management commitment & staff Involvement

## Kaizen Activities Level



## Staff Involvement

- 1- Performance Report
- 2- Kaizen Training Plan
- 3- Kaizen improvement projects
- 4- Ideas Management System



## Management commitment

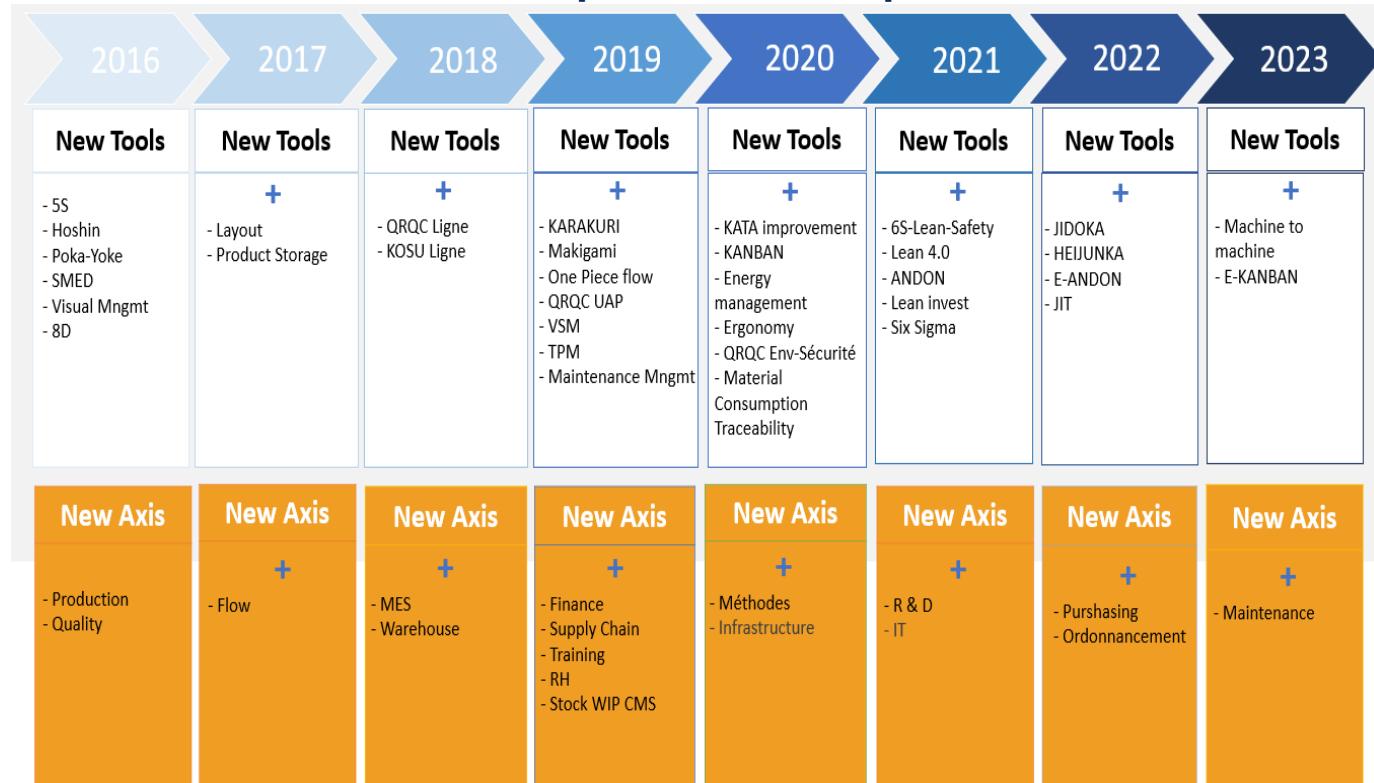
- Set aside an adequate budget for the realization of Kaizen activities;
- Kaizen training and awareness-raising for all staff;
- Participation in the Training of KAIZEN trainers organized by the UGPQ in partnership with JICA;
- Motivating staff by encouraging ideas for improvement and innovation ;
- Benchmark missions in several local companies to share know-how and possible collaborations ;

# AFRICA KAIZEN AWARD 2020 - Objectives of the *Kaizen* activities

## Vision and strategies

- 1- Customer satisfaction by achieving Quality / Cost / Delivery objectives**
- 2- Mudas elimination and cost reduction**
- 3- Changing the workers mindset and improving their working conditions**
- 4- The evolution of the market position in new sectors (medical, home automation, communication, railways)**

## Roadmap for Kaizen Implementation



# AFRICA KAIZEN AWARD 2020 - Continuity of the Kaizen process

## KAIZEN projects in collaboration with CETIME & JICA 2018-2019



Japanese Expert

- Mr Katsutoshi IKEDA

Interpreter

- Mrs Sophia BEN ROMDHANE

CETIME Consultants Team

- Mr Hatem AMOR – CETIME (Team Leader)
- Mr Akram TOUITI – CETIME
- Mr Nadhem HANNACHI – MIPME
- Mrs Nouha KHALED – PACKTEC

### KAIZEN Project: Hoshin for automotive product

**Productivity:** Total Improvement rate  
**543,3%**

### KAIZEN Project: Dandori Time Reduction

Total Improvement rate  
**81,4%**

### KAIZEN Project: Hoshin for industrial product

**Productivity:** Total Improvement rate  
**442,6%**

### KAIZEN Project: Warehouse Flow Optimization

**Productivity:** Total Improvement rate  
**158,2%**

### KAIZEN Project: 5S in the Shop-Floor and the Office

Total Improvement rate **21%**

## **AFRICA KAIZEN AWARD 2020 - Continuity of the Kaizen process**

## KAIZEN weekly committee



## 5S weekly Audit



# KAIZEN Workshops Follow-up

Continuous improvement workshops followup-2018									
Zone	W	Title of workshop/Project	Projected Start Date	Planned/Effected closing date	Plan	Estimated Sales	Actual/Reduced Gain	Notes	Attachments
Manufacturing	3	Excellence Product Launch	2018/01/01	2018/01/15	Sales Review	100K	98K		Report_001.pdf
	4	Supplier Quality Control Audit	2018/01/01	2018/01/15	New Process	100K	98K		Report_002.pdf
	5	Innovation Project - New Product	2018/01/01	2018/01/15	Field Survey	20K	-		Report_003.pdf
	6	Employee Training Program	2018/01/01	2018/01/15	R&D Review	10K	10K		Report_004.pdf
	7	Quality Control System Upgrade	2018/01/01	2018/01/15	Headline Sales	10K	10K	QA System Upgraded	Report_005.pdf
Sales	8	Market Analysis & Strategy PPT Q1Q2	2018/01/01	2018/01/15	Market Review	100K	98K	QA System Upgraded	Report_006.pdf
	9	New Product Launch Preparation	2018/01/01	2018/01/15	New Product	100K	98K		Report_007.pdf
	10	Customer Retention Program	2018/01/01	2018/01/15	Market Share	50K	50K		Report_008.pdf
	11	Microservices Architecture Review	2018/01/01	2018/01/15	Market Share	50K	50K	QA System Upgraded	Report_009.pdf
	12	Product Line Expansion Strategy	2018/01/01	2018/01/15	Market Share	50K	50K	QA System Upgraded	Report_010.pdf
Marketing	13	Brand Awareness Campaign	2018/01/01	2018/01/15	Sales Review	10K	10K		Report_011.pdf
	14	Product Launch Marketing Plan	2018/01/01	2018/01/15	Sales Review	10K	10K		Report_012.pdf
	15	Digital Marketing Strategy	2018/01/01	2018/01/15	Sales Review	10K	10K		Report_013.pdf
	16	Social Media Content Calendar	2018/01/01	2018/01/15	Sales Review	10K	10K		Report_014.pdf
	17	Customer Acquisition Initiatives	2018/01/01	2018/01/15	Future Sales Forecast	10K	10K		Report_015.pdf
Research & Development	18	Internal Product Review	2018/01/01	2018/01/15	R&D Review	10K	10K	QA System Upgraded	Report_016.pdf
	19	External Optimization Initiatives	2018/01/01	2018/01/15	R&D Review	10K	10K	QA System Upgraded	Report_017.pdf
	20	Market Analysis & Trends	2018/01/01	2018/01/15	R&D Review	10K	10K	QA System Upgraded	Report_018.pdf
	21	Future Research Focus	2018/01/01	2018/01/15	R&D Review	10K	10K	QA System Upgraded	Report_019.pdf
	22	Microservices Architecture Update	2018/01/01	2018/01/15	R&D Review	10K	10K	QA System Upgraded	Report_020.pdf
Logistics	23	Supplier Performance Review	2018/01/01	2018/01/15	Supply Chain	10K	10K		Report_021.pdf
	24	Delivery Route Optimization	2018/01/01	2018/01/15	Supply Chain	10K	10K		Report_022.pdf
	25	Carrier Selection Process	2018/01/01	2018/01/15	Supply Chain	10K	10K		Report_023.pdf
	26	Warehouse Automation Setup	2018/01/01	2018/01/15	Supply Chain	10K	10K		Report_024.pdf
	27	Final Inventory Management	2018/01/01	2018/01/15	Supply Chain	10K	10K		Report_025.pdf

Eleonetech

Continuous improvement & Kaizen workshops followup-2019

N	Workshop Title	Pilot	Priority	Launch date	Initial closing / final closing	Closed	Ongoing	Status	
								Notes	Estimated Gain / Real gain
1	Charter Heimat SAVI	Hand Date	Priority 1	01/01/2018	30/01/2018 - 10/01/2018	100%		Effort charter, suivi qualité, ergonomie cette solution	40% - 40%
2	Charter Heimat GE-ES-AB	Hand Date	Priority 1	15/01/2018	30/01/2018 - 10/01/2018	100%			18% - 18%
3	Charter Heimat FI-FR-DE	Hand Date	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			45% - 45%
4	Charter Heimat MG	Alternatif Heimat	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%		Vérité en toutes lieux, la qualité pour chronométrage de relation par	20% - 20%
5	Charter Heimat NL	Hand Date	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			20% - 20%
6	Charter Heimat DE	Hand Date	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			0% - 0%
	Heimat 2018	Hand Date	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%		Objectif de l'IA représentation partenaire	40% - 40%
7	Gestion du flux d'US-CR - Satisfaction client (Achat)	Hand Date	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			75% - 75%
8	Prise en charge des erreurs (Achat)	Hand Date	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			100% - 100%
9	Mise à jour de l'ordre d'achat	Priseur Ben Priseur	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			100% - 100%
10	Local compensation - Priseur Ben Priseur	Priseur Ben Priseur	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			100% - 100%
11	Local compensation - Priseur Ben Priseur	Priseur Ben Priseur	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			100% - 100%
12	Local compensation - Priseur Ben Priseur	Priseur Ben Priseur	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			100% - 100%
13	Charter Economy	Priseur Ben Priseur	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%		Surveillance sur fonctionnalité	100% - 100%
14	Charter PMU - Performance enjeux	Priseur Ben Priseur	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%		Autres fonctionnalités	75% - 75%
15	Gestion des erreurs viales - Rec. client ?	AS 29	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			100% - 100%
16	Système de déclencheur	Ass.Demande	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%		Promotion du système et les avantages de référence - Changement des usages	30% - 30%
17	EMIS CHS	Rest-Demande	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			100% - 100%
18	IS Magazine	rest-Demande	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%		Separation des deux éditeurs - IS/CHS Décentralisé	20% - 20%
19	IS Magazines	rest-Demande	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%		Décentralisation sur les deux sites	20% - 20%
20	IS Magazine	rest-Demande	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%		Décentralisation sur les deux sites	20% - 20%
21	Charter Heimat CHS	Hand Date	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			20% - 20%
22	Charter Heimat CHS	Hand Date	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			20% - 20%
23	Analyse/gestion flux magasin et installation n°	rest-Demande	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%			20% - 20%
24	Charter Heimat CHS	amis Beta	Priority 1	01/02/2018	30/01/2018 - 10/01/2018	100%		VALIDATION ACTIVITE SAISON PEST	12% - 12%
								75% - 75%	
								30% - 30%	
								60% - 60%	
								65% - 65%	

# MAKIGAMI KAIZEN Workshop



# KAIZEN Team Genba



**Eleonetech**  
A Onetech company

# AFRICA KAIZEN AWARD 2020 - Continuity of the Kaizen process

## SAN GEN SHUGI Attitude & QRQC Daily Management

### LINE QRQC

1



2



3



4



5



### Daily APU QRQC



### Daily PLANT QRQC



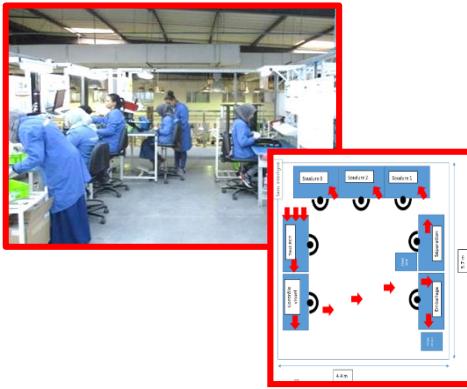
### Global PPM Evolution



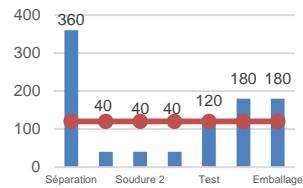
# AFRICA KAIZEN AWARD 2020 - Continuity of the Kaizen process

## KAIZEN Project: Hoshin for automotive product

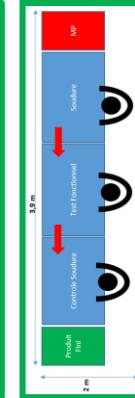
BEFORE



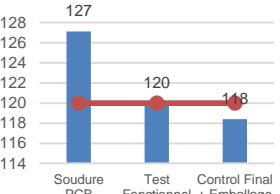
Total Productivity  
(pc/p/h/m<sup>2</sup>) : 1,1



AFTER



Total Productivity  
(pc/p/h/m<sup>2</sup>) : 10,65



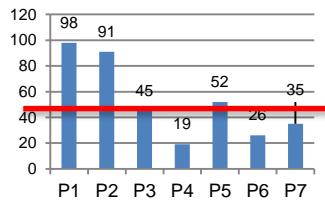
543.3 %

## KAIZEN Project: Hoshin for industrial product

BEFORE



Total Productivity  
(pc/p/h/m<sup>2</sup>) : 0,67



AFTER



Total Productivity  
(pc/p/h/m<sup>2</sup>) : 1,78

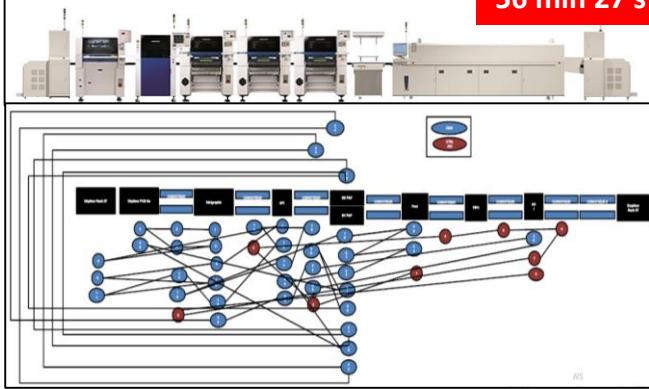


442.6 %

# AFRICA KAIZEN AWARD 2020 - Continuity of the Kaizen process

## DANDORI Time Reduction

**BEFORE**



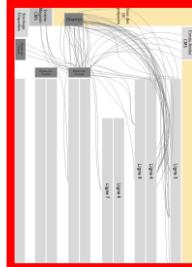
56 min 27 s

**AFTER**

Liste des tâches à faire par le chargeur machine lors du changement de série:	
Action	Machine
Prendre un filat de réglage	Emplie à Rack
Préparer l'arbre Flash X7	Emplie à Rack
<b>*Les tâches à faire en cours de chargement série:</b>	
Action	Machine
prendre minuterie et faire réglage manuelle	Convoque Entrée PS/P
tester le réglage en trait sur filat	Convoque Entrée PS/P
Passer en mode automatique	Convoque Entrée Four
passer au programme de four stabilisation	Four
prendre minuterie et faire réglage manuelle	Convoque Entrée Four
tester le réglage en trait sur filat	Convoque Entrée Four
Passer en mode automatique	Convoque Entrée Four
prendre minuterie et faire réglage manuelle	Convoque Entrée F0F
tester le réglage en trait sur filat	Convoque Entrée F0F
Passer en mode automatique	Convoque Entrée F0F
prendre minuterie et faire réglage manuelle	Convoque Entrée ADI
tester le réglage en trait sur filat	Convoque Entrée ADI
Passer en mode automatique	Convoque Entrée ADI
prendre minuterie et faire réglage manuelle	Convoque Entrée Empileur
tester le réglage en trait sur filat	Convoque Entrée Empileur
Passer en mode automatique	Convoque Entrée Empileur
prendre minuterie et faire réglage manuelle	Convoque Entrée Empileur
tester le réglage en trait sur filat	Convoque Entrée Empileur
Passer en mode automatique	Convoque Entrée Empileur
Installation rack X7 dans empileur	Emplie à Rack
selection mode automatique	Emplie à Rack

10 min 30 s

## KAIZEN Project: Warehouse Flow optimization



### WO Preparation Time

160 min

↓ 88%

20 min

### WO Preparation traveled Distance

1000 m

↓ 85%

150 m

### Space occupation palets/ m<sup>2</sup>

0,53  
palets/m<sup>2</sup>

↑ 68%

0,89  
palets/m<sup>2</sup>

# AFRICA KAIZEN AWARD 2020 - Continuity of the Kaizen process

## KAIZEN Project: 5S Activity Management in the shop-floor & Office

**Shopfloor 5S Team**



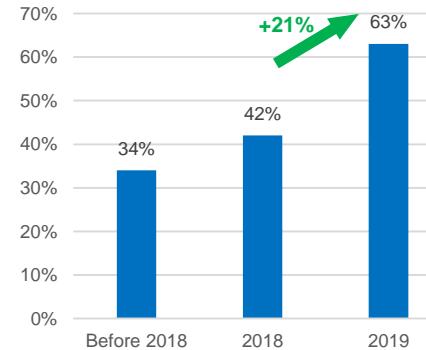
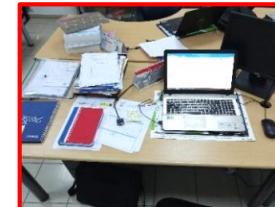
**5S Visual Management**



**Office 5S Team**

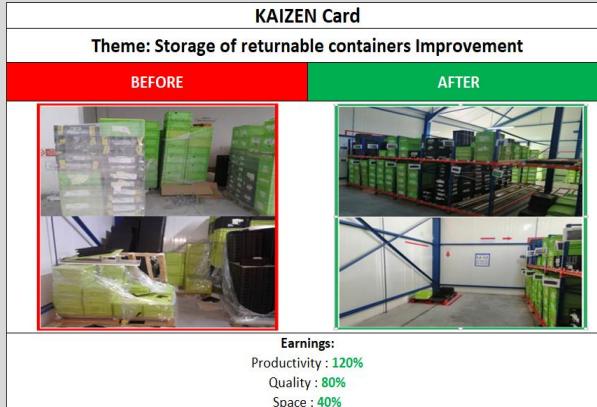
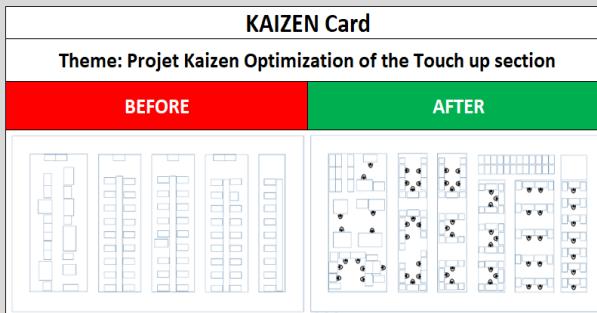


**5S Visual Management**

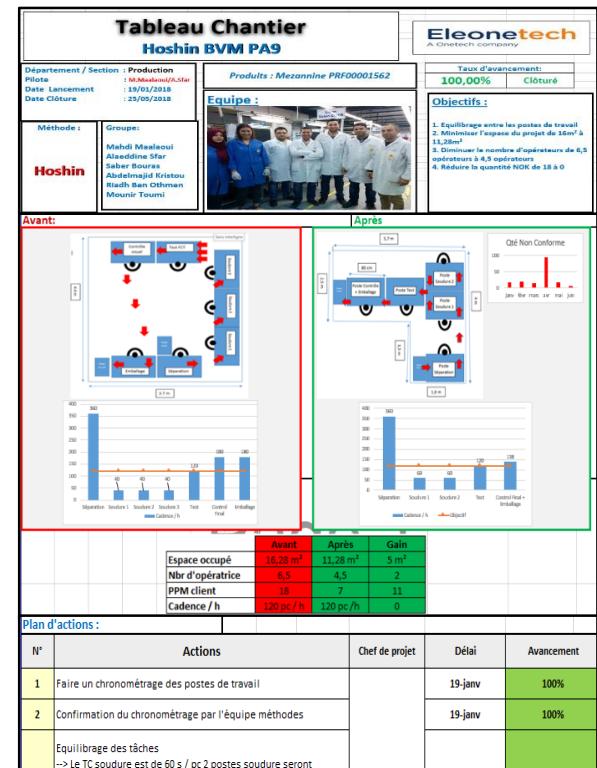


# AFRICA KAIZEN AWARD 2020 - Continuity of the Kaizen process

## Workshops Output

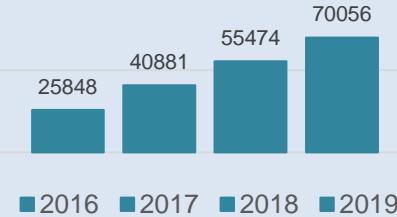


## Workshops PDCA Management



# AFRICA KAIZEN AWARD 2020 - Overall result of all Kaizen activities

## TurnOver Evolution in KDT



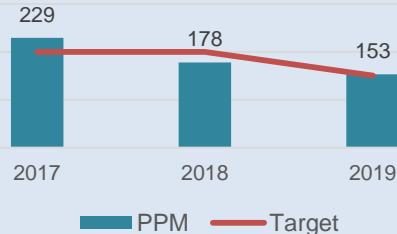
## Productivity Evolution



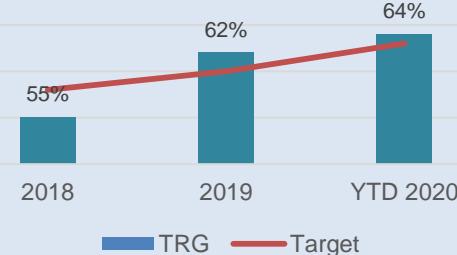
## Absenteeism



## Global PPM Evolution



## OEE Evolution



## Number of Accidents



# AFRICA KAIZEN AWARD 2020 - Changing the motivation of workers

## Change in the work environment



## Promotion of Kaizen Culture



## Spillover effects of Kaizen activities

- 1- Kaizen-Man in each APU to reinforce the Kaizen concept throughout the organization
- 2- Found a Kaizen school to strengthen Kaizen knowledge sharing towards a change of culture
- 3- Partnership with CETIME and JICA



THANK YOU FOR YOUR  
ATTENTION!