

RINGKASAN EKSEKUTIF

TAJUK	:	Permohonan kelulusan untuk membangunkan Laporan <i>Baseline</i> Penilaian Kesediaan (<i>Readiness Assessment Industry4wrđ</i>) – Sampel kajian yang dicadangkan dalam Mesyuarat Technical RA/MITI adalah RA Industry4wrđ 2019).
TARIKH	:	Feb - April 2021
BAHAGIAN\UNIT	:	OED\PER
OBJEKTIF	:	Objektif penyediaan laporan adalah: 1. Melaporkan tahap kesediaan transformasi Perusahaan Kecil & Sederhana (PKS) ke arah industry4wrđ. 2. Mengenal pasti isu-isu dan cabaran-cabaran dalam proses transformasi tersebut. 3. Mengemukakan cadangan bagi menambahbaik proses pelaksanaan RA.
BAJET	:	Bajet Pembangunan MITI (RA 2021) Kos Perundingan ; RM 47,000.00 SST : RM 3000.00 Jumlah : RM50,000.00
BELANJAWAN YANG DITETAPKAN\ TANDATANGAN KETUA AKAUNTAN	:	
KOMEN\ TANDATANGAN PENGURUS PCT	:	

KERTAS CADANGAN UNTUK KELULUSAN LEMBAGA PENGURUSAN MPC

PERMOHONAN KELULUSAN UNTUK MEMBANGUNKAN LAPORAN BASELINE PENILAIAN KESEDIAAN (READINESS ASSESSMENT INDUSTRY4WRD)

1.0 TUJUAN

Tujuan kertas cadangan ini adalah untuk memohon kelulusan daripada Lembaga Pengurusan MPC membangunkan Laporan Baseline Penilaian Kesediaan (Readiness Assessment Industry4wrd). Berdasarkan Mesyuarat Jawatankuasa Teknikal RA/MITI, sampel yang dicadangkan adalah organisasi yang telah memperolehi kelulusan RA pada tahun 2019.➤

2.0 LATAR BELAKANG

- 2.1 Program Penilaian Kesediaan (Readiness Assessment) Industry4wrd adalah program yang diuruskan oleh MPC bertujuan mengukur tahap kesediaan Perusahaan Kecil & Sederhana (PKS) ke arah transformasi industry4wrd. Penyertaan PKS ke program ini bermula pada pertengahan tahun 2019. Sebanyak 508 PKS telah diluluskan bagi menyertai Program RA 2019. Salah satu daripada output program ini adalah Laporan Baseline Pelaksanaan RA.
- 2.2 Mesyuarat Jawatankuasa Teknikal (TC) Industry4wrd Bil.1\2021 pada 22 Januari 2021 telah meluluskan “Proposal Kerangka Laporan Pelaksanaan RA” yang dibentangkan oleh Sekretariat RA MPC.

3.0 OBJEKTIF LAPORAN

- 3.1 Objektif penyediaan Laporan Pelaksanaan RA adalah:

- i) Melaporkan tahap kesediaan transformasi Perusahaan Kecil & Sederhana (PKS) ke arah Industry4wrd.
- ii) Mengenal pasti isu-isu dan cabaran-cabaran proses transformasi tersebut; dan
- iii) Mengemukakan cadangan bagi menambahbaik proses pelaksanaan RA.

4.0 FORMAT LAPORAN

4.1 Laporan Pelaksanaan RA 2019 akan meliputi enam tajuk seperti berikut iaitu:

- i) Latar belakang.
- ii) Profil PKS yang menyertai RA 2019.
- iii) Tahap kesediaan PKS ke arah transformasi industry4wrld.
- iv) Isu-isu dan cabaran-cabaran dalam transformasi tersebut.
- v) Penambahbaikan proses RA.
- vi) Kesimpulan dan cadangan-cadangan.

4.2 Contoh format laporan adalah seperti di Lampiran 1.

5.0 KOS

5.1 Sejumlah RM50,000.00 telah diperuntukan dan diluluskan oleh Kementerian Perdagangan Antarabangsa dan Industri (MITI) bagi penyediaan Laporan *Baseline* Pelaksanaan RA 2019.

6.0 PERUNDING

6.1 Penyediaan Laporan *Baseline* Pelaksanaan RA 2019 akan mengguna pakai perkhidmatan tenaga pakar luar yang berdaftar dengan Unit Pengurusan Perolehan (PCT) MPC. Kadar bayaran kepada tenaga pakar tersebut adalah mengikut kadar bayaran yang diluluskan oleh Jawatankuasa Pengurusan Perkhidmatan Kepakaran (JPPK) MPC.

6.2 Kandungan Laporan Baseline adalah seperti berikut :

BIL.	BIDANG TUGAS
1.	Laporan untuk Tajuk 1 mengikut butiran berikut: 1. Latar belakang (Background) 1.1 Penerangan ringkas mengenai 'National Policy on Industry4.0'. 1.2 Penerangan mengenai "Industry4wrld Readiness Assessment". 1.3 Proses RA. 1.4 Kriteria RA & 1.5 Objektif laporan.

BIL.	BIDANG TUGAS
2	Laporan untuk Tajuk 2 berdasarkan data permohonan RA 2019 , mengikut butiran berikut: 2. Latarbelakang Syarikat RA 2019 2.1 Penyertaan Kategori PKS dan Pembiayaan Sendiri (Self-Funded). 2.2 Penyertaan Syarikat Perkilangan mengikut Subsektor. 2.3 Penyertaan Syarikat mengikut Negeri.
3.	Analisa dan laporan bagi Tajuk 3 berdasarkan data permohonan RA dan data pemarkahan RA mengikut butiran berikut: 3. Status & tahap kesediaan syarikat pada 2019. 3.1 Keseluruhan penyertaan RA oleh PKS (menerima dana kerajaan) dan Syarikat (pembiayaan sendiri). 3.2 Penyertaan Syarikat Perkilangan mengikut Sub Sektor. 3.3 Penyertaan Syarikat mengikut Negeri.
4.	Rujukan kepada laporan-laporan RA yang disediakan oleh Badan-Badan Penilai (AB) dan menjalankan temu duga dengan AB serta PKS terpilih bagi melengkapkan penulisan Tajuk 4, mengikut butiran berikut: 4. Pain Points dan Cabaran RA berdasarkan <i>Shift Factors</i>.
5.	Kajian & mengenal pasti proses pelaksanaan Program RA semasa dan mencadangkan penambahbaikan proses bagi penulisan Tajuk 5: 5. Penambahbaikan proses RA
6.	Kesimpulan dan cadangan-cadangan untuk Tajuk 6 mengikut butiran berikut: 6. Rumusan dan Cadangan 6.1 Ringkasan penyertaan RA oleh PKS (menerima dana kerajaan) dan Syarikat (pembiayaan sendiri). 6.2 Peluang penambahbaikan untuk mengatasi cabaran dan pain points syarikat, 6.3 Polis baharu, panduan dan syor kepada RA.

7.0 TEMPOH PENYEDIAAN LAPORAN

7.1 Tempoh penyediaan laporan adalah selama Februari hingga April 2021 Carta Perancangan pelaksanaan projek seperti di Lampiran 2.

8.0 SYOR

8.1 Adalah dipohon agar pihak Lembaga Pengurusan MPC mempertimbang dan meluluskan permohonan bagi membangunkan Laporan Baseline Penilaian Kesediaan (Readiness Assessment Industry4wrdr).

Disediakan oleh:

Disemak oleh:

Disokong oleh:

(Izani bin Ishak)

(Saliza Saari)

(Datin Zainon Bakar)

Timbalan Pengarah

Pengarah

Timbalan Ketua Pengarah

Bahagian OED

Bahagian OED

Bahagian OED

Tarikh: 28 Jan. 2021

Tarikh: 30 Jan. 2021

Tarikh: 3 Feb 2021

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SAMPLE REPORT

INDUSTRY4WRD READINESS ASSESSMENT (RA) IMPLEMENTATION REPORT

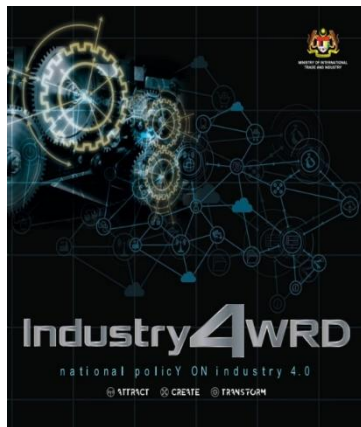
2019

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1 BACKGROUND

1.1 Overall Small & Medium Enterprise (SME) And Self Funded



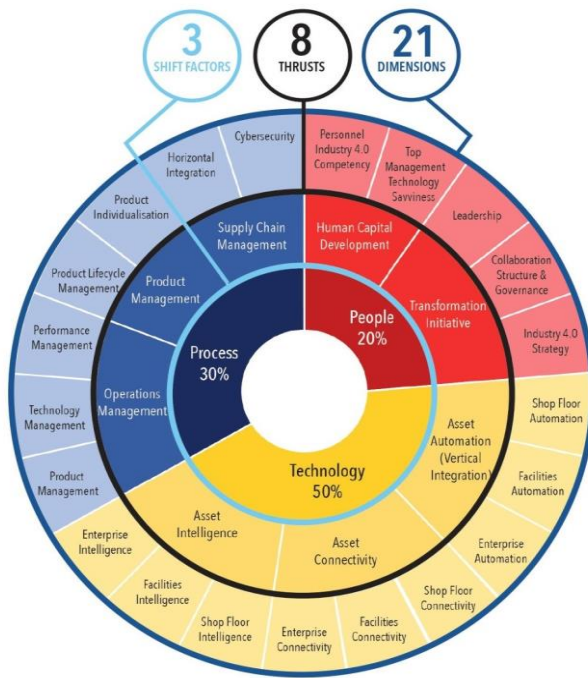
1.2 Brief Explanation On “Industry4wrD Readiness Assessment”.



1.3 Readiness Assessment (RA) Process.



1.4 Readiness Assessment (RA) Criteria



1.5 Objectives of the report

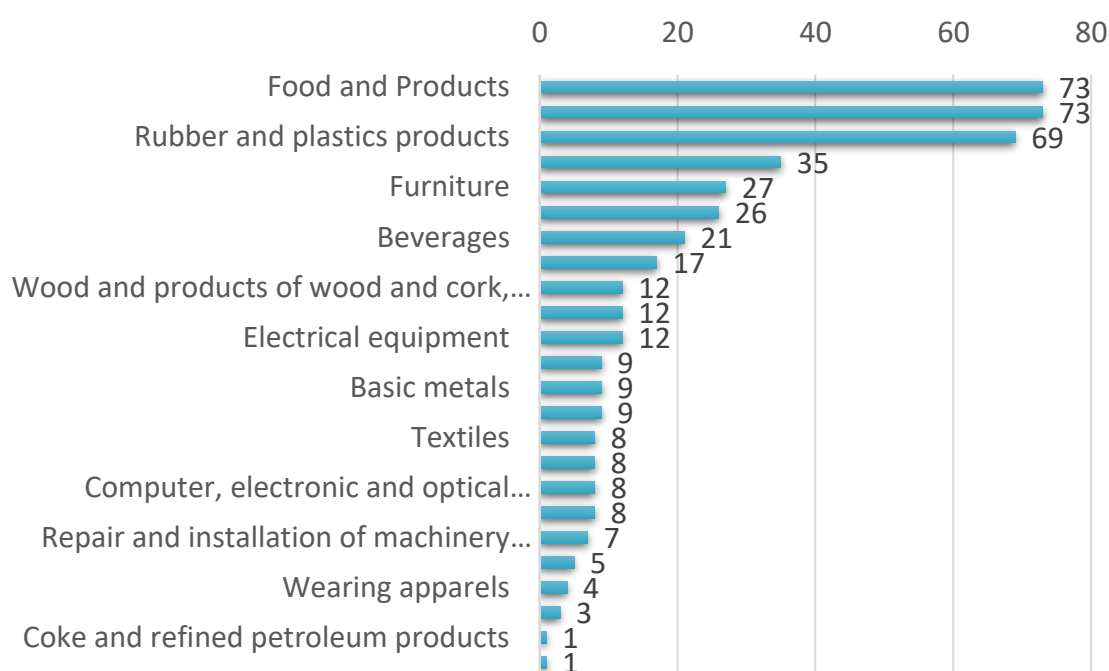
- To find out the current level of SMEs readiness towards the transformation of Industry4WRD
- To identify pain points and challenges face by the SMEs towards industry4WRD transition
- To improve the implementation of Readiness Assessment (RA) process.

2 Overview Of 2019 RA Companies

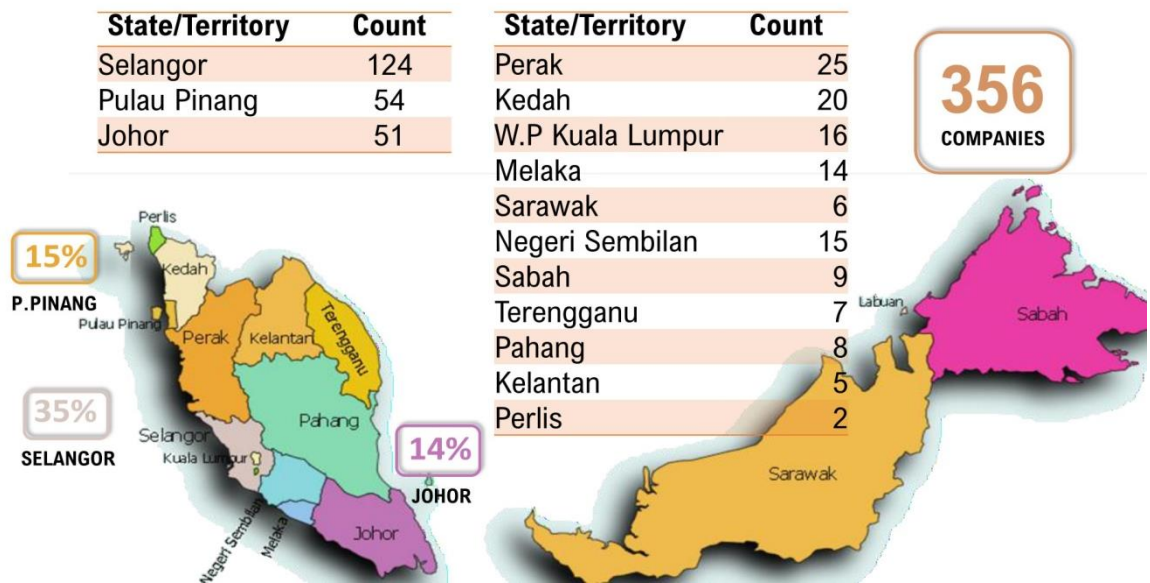
2.1 Overall Small & Medium Enterprise (SME) And Self Funded.

AB	RA Conducted	Withdraw	RA to be conducted	Report Submitted	Report Pending	Total
SIRIM	209	20	11	209	0	240
MIMOS	189	12	9	182	7	210
MARii	53	3	2	53	0	58
Total	451	35	23	444	7	508

2.2 By Manufacturing Sub-Sectors

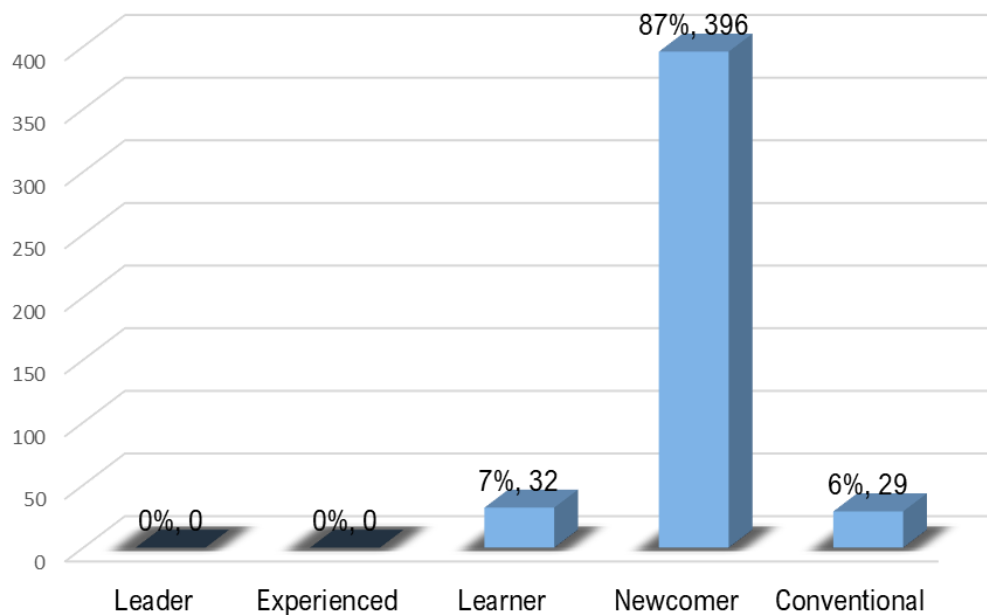


2.3 By States



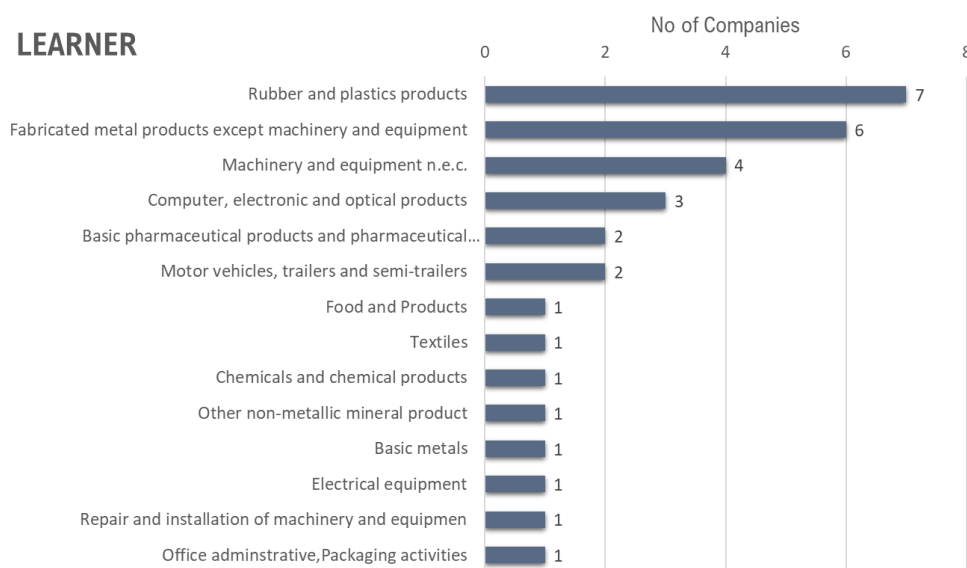
3 The State Of 2019 Industry4wrđ Transformation

3.1 Overall SMEs And Self Funded.

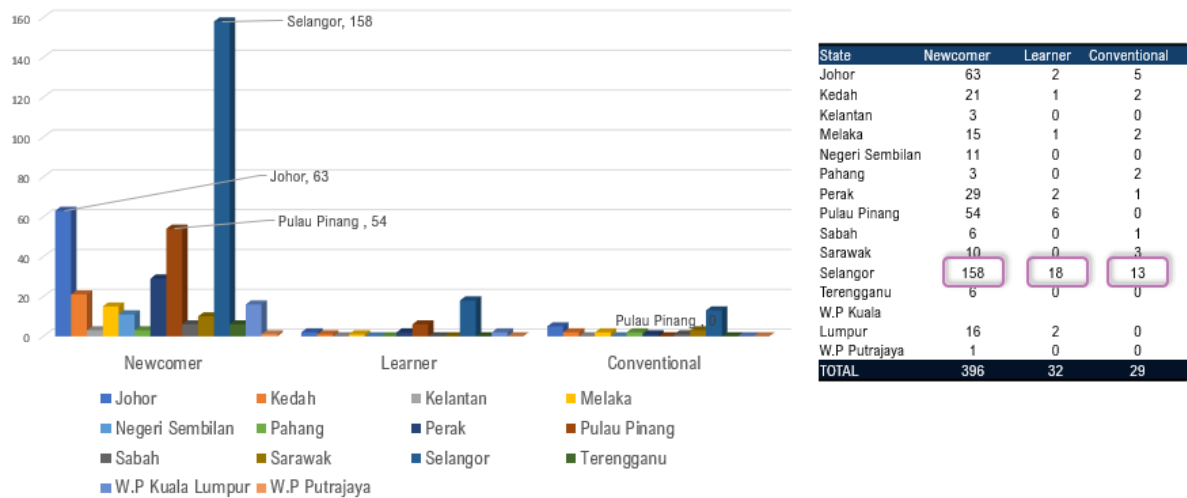


Readiness profile	Percentage scored	General descriptions
Conventional	0 % to 20 %	Operation remains “as is” with no intention or initiative to embark on Industry 4.0 initiative.
Newcomer	21 % to 40%	Have interest to pursue Industry 4.0 but with none or very minimal efforts.
Learner	41 % to 60 %	Have interest to pursue pilot project for Industry 4.0 in operation. Planning and strategies, efforts either simple or scattered initiatives exists. Ready for minor system adoption.
Experienced	61 % to 90 %	Have undertaken small to medium scale Industry 4.0 initiatives in operation as well as horizontal integration. Ready for major system adoption.
Leader	91 % to 100 %	Have implemented large scale Industry 4.0 initiatives (company-wide) and system integration.

3.2 By Manufacturing Sub-Sectors.



3.3 By States



4 Pain Points And Challenges According To RA Shift Factors

People	Process	Technology
Operations and administrative staff may not be aware of the direction/initiatives being planned for I4.0 transformation by Management	Do not have a comprehensive Industry 4.0 strategy , never established its technology roadmap or master plan to adopt Industry 4.0 into their operation	Lack of resources, to access the technological maturity of the relevant solutions and their business uses. Management lacks a methodical approach to implementation
Lacking of Training Needs Analysis (TNA) and competency gap analysis for the employees, with regards to the requirement and expectation for Industry 4.0 transformation	Overall supply chain process from customer demand to vendor supplying material is manual and current system yet to enhance efficiency on material, machine and resources planning	LAN network has been established in the office / administrative areas. File sharing is allowed within certain functional groups only and saved in Google Drive and Dropbox
Labor-intensive process that is 20% automation and 80% manual. Employees in the production are largely made up of foreign and low skilled employees	The company is monitoring and measuring the performance of business operation (OEE, OTD and Quality Indicator) in production floor using Excel sheet template with human intervention	The machine/systems are standalone and have no connectivity diagnostics. All the injection machines and assembly equipment are standalone and managed individually
Difficulties in obtaining grant from government agencies for the transformation of manual machines to automated machines with IoT and connectivity	Production system allows product customisation and customer's cocreation according to needs but still requires human intervention on machine setup	No Real-Time Data. Most data are manually recorded. Unable to monitor OEE in real time. Production data are recorded manually. Some data are manually compiled and analysed for decision making

5 RA Improvement Process

5.1 Application improvement process

- a) Outreach programs
- b) Application guideline
- c) Application feedback

5.2 Verification improvement process

- a) MPC level
- b) TC and SC level
- c) Approval status feedback

6 Conclusion And Recommendations

6.1 Summary of SMEs and Self Funded performance towards industry4wrd transformation

6.2 Opportunities to overcome pain points and challenges .

6.3 New policies, guidelines and recommendations for RA.

LAMPIRAN 2

CARTA PERBATUAN PELAKSANAAN PROJEK

Task		2021			
		Jan	Feb	March	April
1	Proposal Preparation				
	Develop a base line report plan				
2	Proposal Acceptance				
	TC and BOM				
3	Data Collection				
	Overview and Background				
4	Project Implementation				
	Write-up: Topic 1 & 2				
	Write-up: Topic 3 & 4				
	Write-up: Topic 5 & 6				
5	Presentation to Management (TC, SC & TWG-R Meeting)				

 Plan

 Actual

 Plan

 Actual

