

SMIRI ENGINEERING LTD Presentation Digital transformation and industry 4.0 Consultancy CSA (SIRI ©) Assessor 17-12-2023







Legal Identity of SMIRI **ENGINEERING SARL Since 2011**

Office:

Av. Fattouma Bouguila, Lotissement Kobbi, N34, Imm. Soukra Garden A-5-6, LaSoukra 2036 ARIANA Tunisie

Mobile:

Email: Site Web: (+216) 99 22 86 79

Contact@smiri.com.tn http://www.smiriengineering.com



Legal IDs

SMIRI ENGINEERING SARL Capital: 120 kTND – 40 k\$ USD **Reg ID:** 1182431M Tax ID:1182431M/A/M/000

La SOUKRA ARIANA TUNISIA





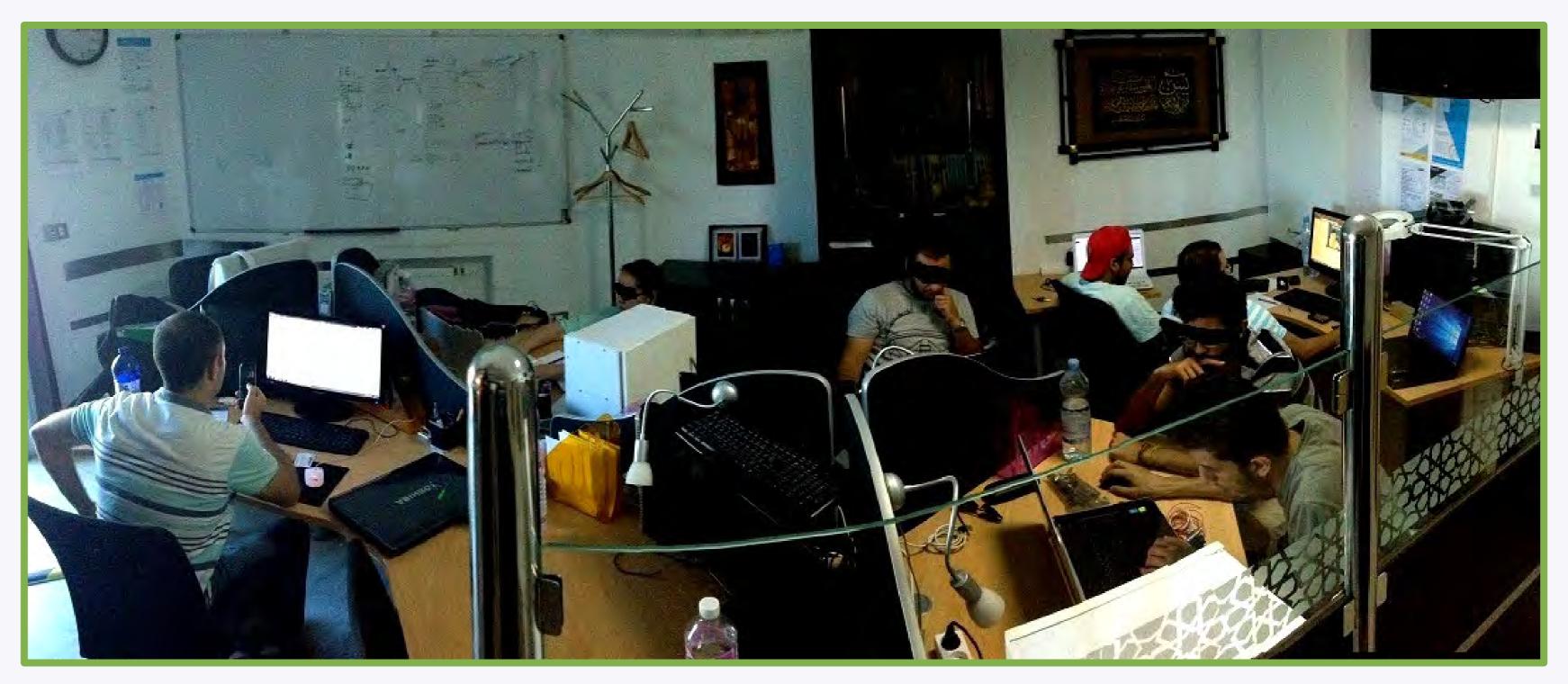






Team and Office Photos









Visit of Hannover Mess 2019 Germany – Update on Industry 4.0 technologies















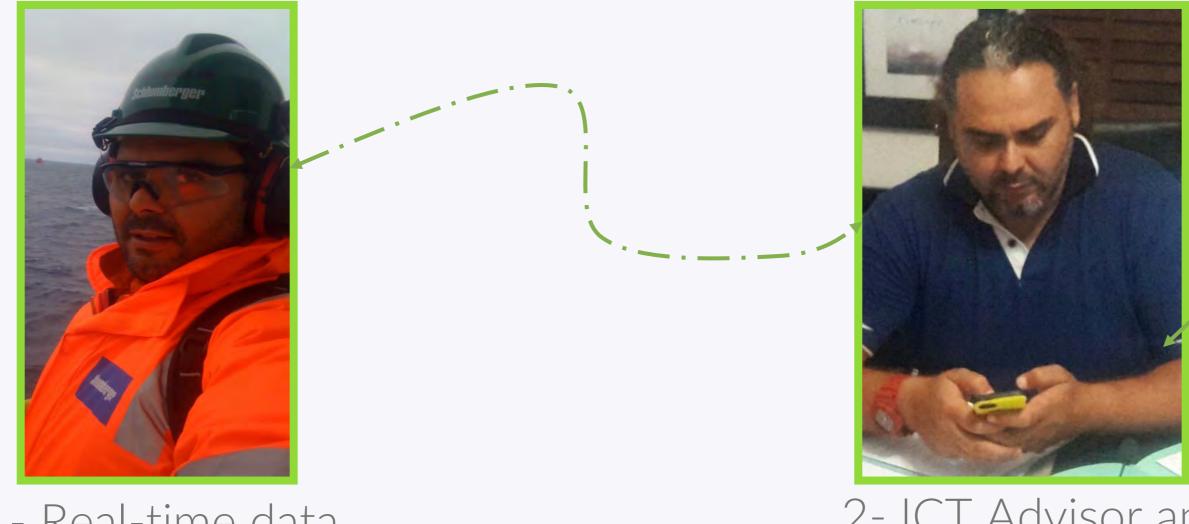




Wissem SMIRI – Introduction

- Industrial computer and electrical Engineer since 2001

- assessor)



1- Real-time data Data Acquisition Specialist in Oil & Gas 2001-2015

• 22 years experience, including 16 years in multi-national company in the oil and gas domain SCHLUMBERGER. Almost done 32 trainings around the word (in UK, US, UAE, TUN, ITA) for technical skills, soft skills, management and consultancy.

Manager of SMIRI ENGINEERING SARL <u>www.smiriengineering.com</u> since 2011 (Create services the sub brands <u>www.elibot.io</u> for industry 4.0 product | and <u>http://wissem.smiri.com.tn</u> for Oil and Gas QA-QC)

Former member in CJD since 2016, Former CEEDer Generation 5 Grow in 2017, Certified from EJD school on 2017, registered in EEN data base as ICT consultant since 2017, trained in consultancy business with EBRD, member of Alumni of MTP GIZ Manager training program with GIZ in Berlin in 2019, member of Strategic studies center of Tunisia association CTRS in 2020, CONECT former member since 2017, Former of INTECH PG since 2018, former member of RB CONECT Ariana and former 1st VP of PG GPC (Consultants professional Group) since 2020. In 2023 Certified CSA (Certified Smart industry readiness Index



2- ICT Advisor and Consultant 2016 - 2021

3- Digital transformation & Industry 4.0 Specialist - CSA© 2019 - 2023







Certified Smart Industry Readiness Index Assessor

Wissem Smiri

for fulfilling all the necessary requirements prescribed for use of this designation subject to

fulfilling the ongoing obligations of a Certified Smart Industry Readiness Index (SIRI) Assessor.

This appointment is issued on 16 Nov 2023.

Assessor ID: SIRI161123SN007



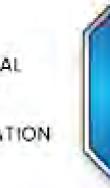
INTERNATIONAL CENTRE FOR NDUSTRIAL INSFORMATION

Mr Raimund Klein **Chief Executive Officer** International Centre for Industrial Transformation

SMART INDUSTRY READINESS

The SIRI Institute and approving Examination Body confer the right to use the

designation to



000

Manuer

Dr Andreas Hauser **CEO Digital Service** TUV SUD ASIA PACIFIC PTE. LTD.





ICT Consultancy – Company digital transformation

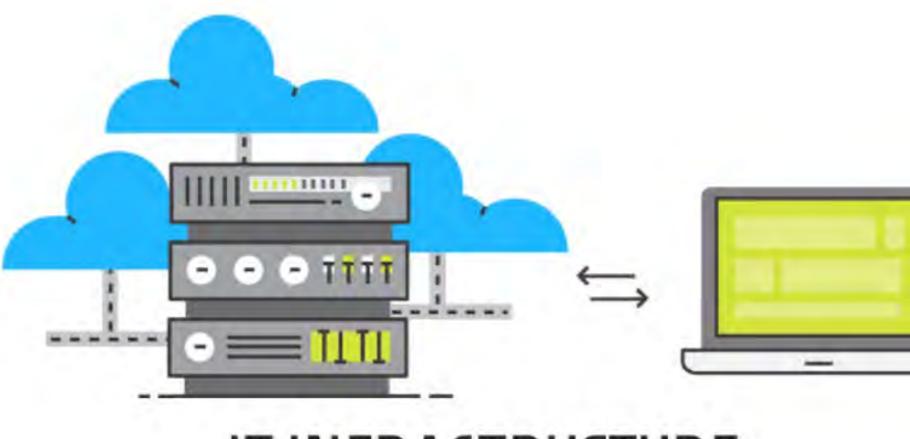
• We review your existing IT infrastructure and prepare a diagnostic and recommendation report in accordance with the industry standard.

• Project management assistance (Project steering): drafting of requirements, specifications, validation of functional specifications, assistance with the choice of tools, choice of providers, highlighting the users experience, reviewing process and change management.

• The implementation of short- or medium-term action plans in order to enable the transformation plan to contribute effectively to the overall objectives of the enterprise (KPIs and Costs).

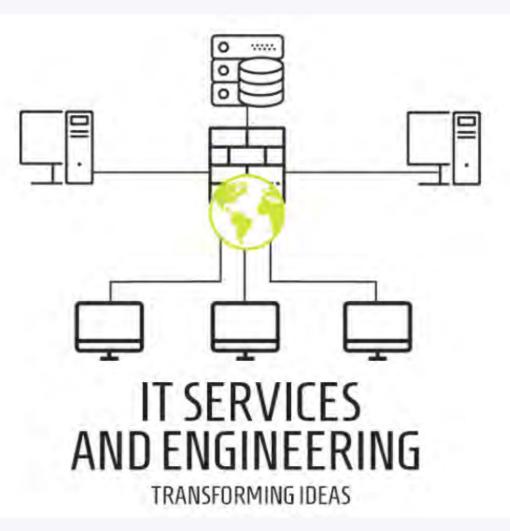
• Optimization of your human resources: preparation of job descriptions and plan to build competence (training, seminars or events, team coaching, communication ...).

• Optimization of your hardware resources: refers to the company's optimal IT architecture reallocation of equipment as required availability and cost of use.



IT INFRASTRUCTURE SOLUTION

THE RIGHT HARDWARE FOR YOUR NEEDS







DIA : Digital transformation In Action

A success Job is accomplished by

- Making a good relation ship with client's team members
- Making a detailed diagnostic if the IT infrastructure.
- Understanding of the client requirements
- Recommending the latest solution in the market
- Having good communication: Present and explain selected solutions
- Plan the transformation for four or three years ahead
- A good and smooth management of change













ICT Consultancy – Digital Project Managment

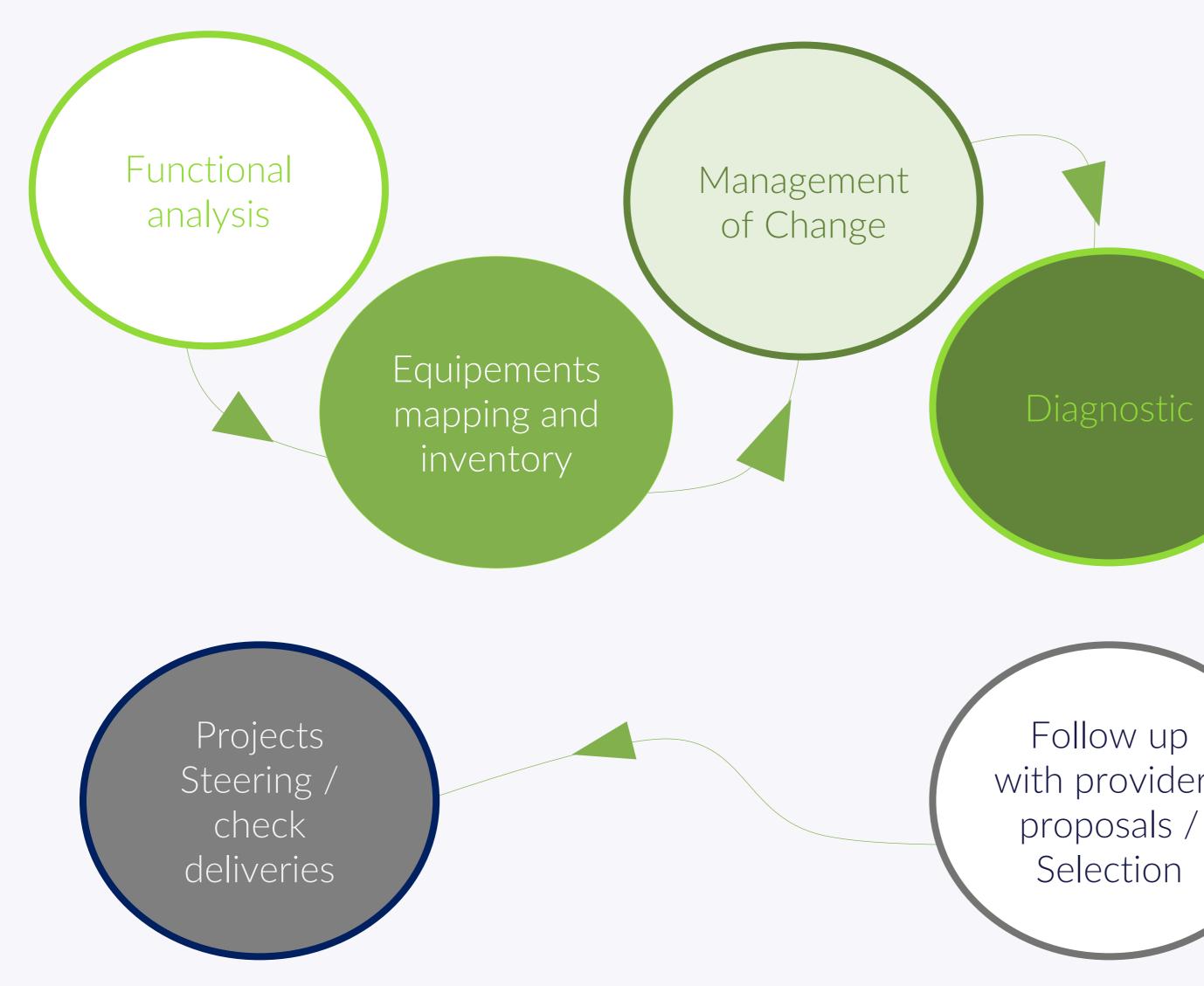
Client

objectifs

Zero paper

Workflow op

. . .



Financing, Budget and action plan

Recommandat ions

Follow up with providers proposals / Selection

Projects Specifications / Tenders













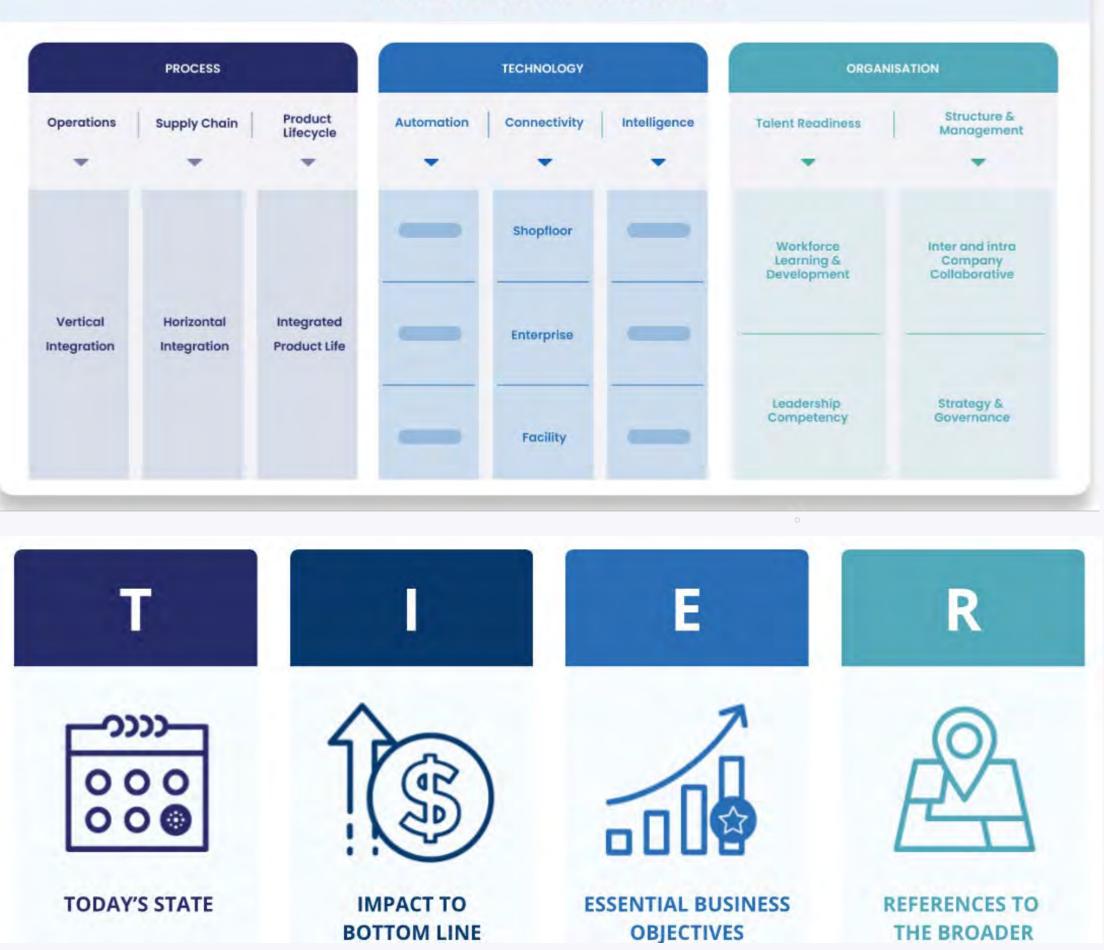


SIRI[©] ASSESSMENT, AN IMPORTANT STEP

We cannot make any improvement without measuring the actual situation.

- Planning and executing an Industry 4.0 transformation roadmap is no small undertaking. It requires companies to invest significant resources into various areas such as conducting research, engaging solution providers, running cost-benefit analyses, and monitoring progress of projects.
- We aim to help manufacturers along this journey by educating them on the Industry 4.0 keys and providing concepts that form a useful foundation for future action.

As with all things, knowledge is only useful when it is put into practice. We hope the suite of SIRI frameworks and tools will bolster companies' confidence, reduce their uncertainty, and encourage them to take the next step towards implementation.



SMART INDUSTRY READINESS INDEX







SIRI[©] THE UNIQUE SELLING POINT

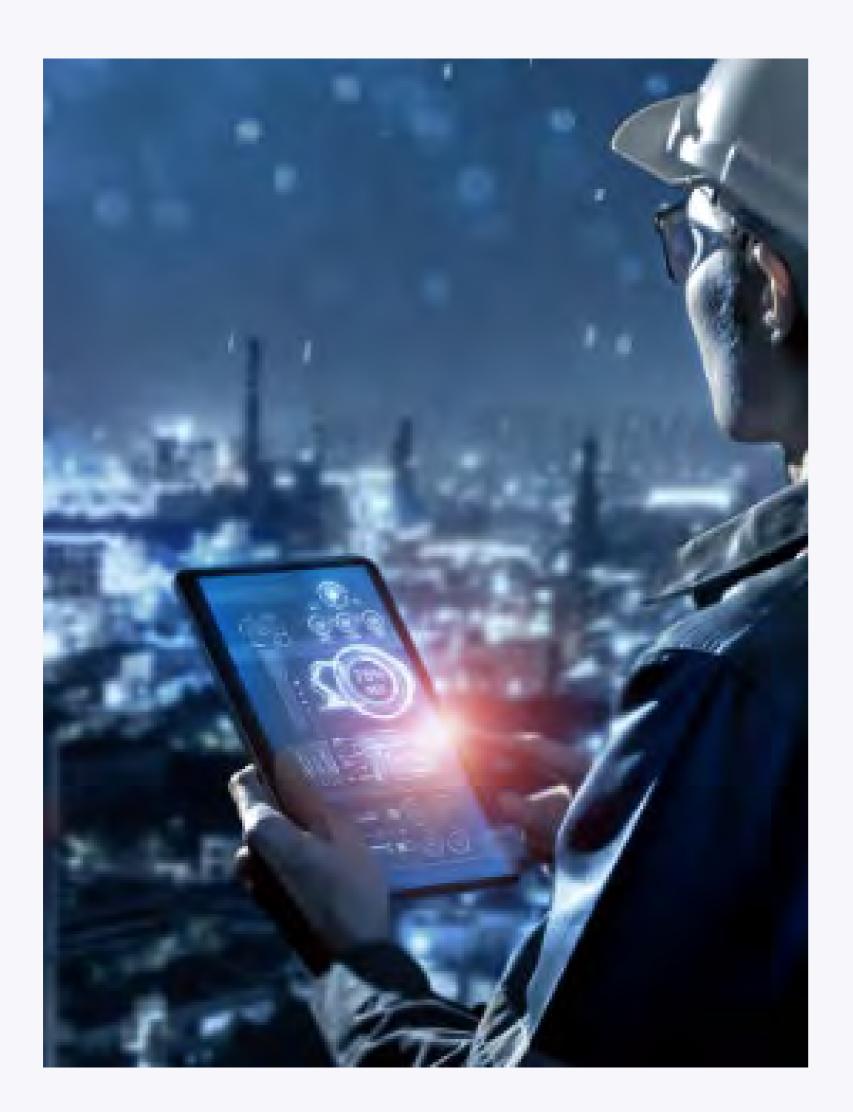




- Define your current state using assessment matrix (16 dimensions).
- Define the 4 important dimensions using the prioritization matrix to focus on.
- Benchmarking by comparing your results with 4000 companies in history in the SIRI platform.



SIRI[©] The 5 Principles of Assessment



• The SIRI Assessment provides a snapshot of a facility's current state but not its future potential.



• The SIRI Assessment uses Industry 4.0 concepts as the reference points. Future manufacturing and industrial concepts, as well as technologies, should also be taken into consideration, if relevant.

• All dimensions should be considered, though the importance and relevance of each will vary depending on the nature of the industry and the company's current and future needs.

• Companies should not feel compelled to achieve Band 5 across all dimensions. Instead, they should strive towards higher bandings based on specific business needs and aspirations.

• The SIRI Assessment is more than a one-off exercise — it should be used on an ongoing basis.





SIRI[©] the 16 dimensions to assess (1)

• **Dimension 1: Process** — Vertical Integration

is the integration of processes and systems across all hierarchical levels of the automation pyramid within a facility to establish a connected, end-to-end data thread.

• **Dimension 2: Process** — Horizontal Integration

is the integration of enterprise processes across the organization and with stakeholders along the value chain.

• Dimension 3: Process — Integrated Product Lifecycle

is the integration of people, processes and systems along the entire product lifecycle, encompassing the stages of design and development, engineering, production, customer use, service, and disposal.

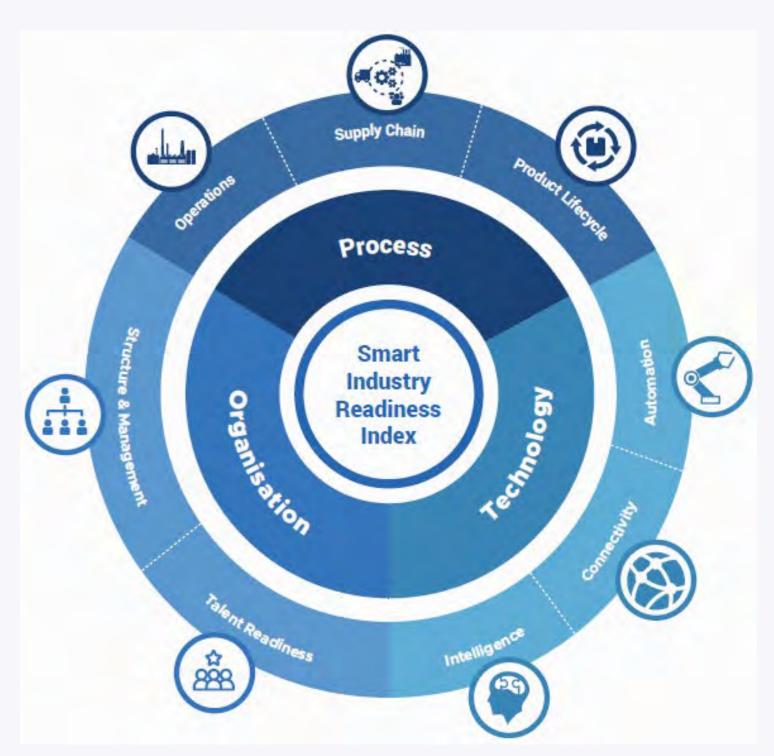
• Dimensions 4–6: Technology - Automation – Shop Floor, Enterprise, and Facility Shop Floor

is the application of technology to monitor, control and execute the production and delivery of products and services, within the location where the production and management of goods is carried out.

Enterprise

is the application of technology to monitor, control and execute processes, within the location where the administrative work is carried out. These processes include, but are not limited to, sales and marketing, demand planning, procurement, and human resource management and planning.







SIRI[©] the 16 dimensions to assess (2)

Facility

is the application of technology to monitor, control and execute processes within the physical building and/or premises where the production area is located. These processes include but are not limited to the management of HVAC, chiller, security, and lighting systems.

• Dimensions 7–9: Technology - Connectivity — Shop Floor, Enterprise, and Facility Shop Floor

Is the interconnection of equipment, machines and computer-based systems, to enable communication and seamless data exchange, within the location where the production and management of goods is carried out.

Enterprise

Is the interconnection of equipment, machines and computer-based systems, to enable communication and seamless data exchange, within the location where the administrative work is carried out.

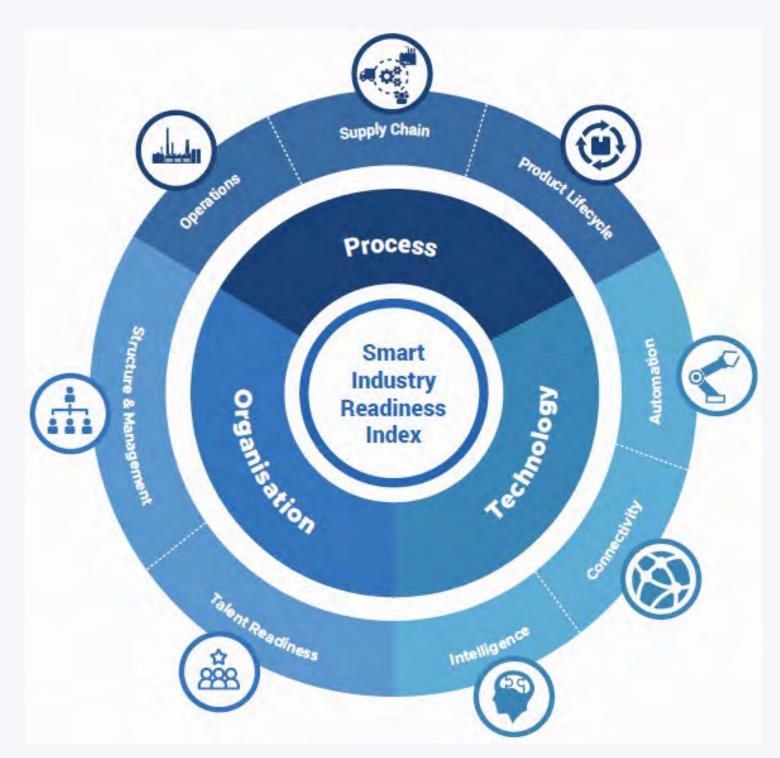
Facility

Is the interconnection of equipment, machines and computer-based systems, to enable communication and seamless data exchange, within the physical building and/or land plot where the production area is located.

• Dimensions 10–12: Technology - Intelligence — Shop Floor, Enterprise, and Facility Shop Floor

Is the processing and analysis of data to optimize existing processes and create new applications, products, and services, within the location where the production and management of goods is carried out.









SIRI[©] the 16 dimensions to assess (3)

Enterprise

Is the processing and analysis of data to optimize existing administrative processes and create new applications, products and services.

Facility

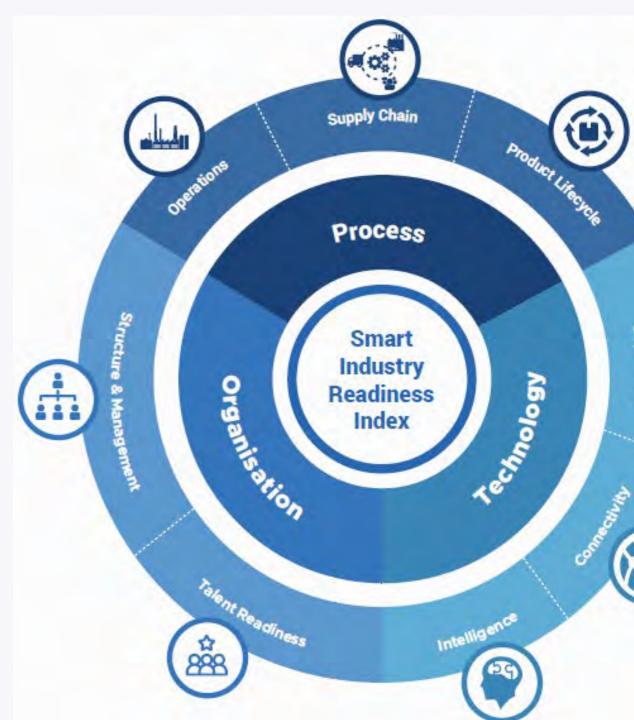
Is the processing and analysis of data to optimize existing processes and create new applications, products and services, within the physical building and premises where the production area is located.

• Dimension 13: Organization — Workforce Learning and Development is a system of processes and programs that aims to develop the workforce's capabilities, skills and competencies to achieve organizational excellence.

• Dimension 14: Organization — Leadership Competency refers to the readiness of the management core to leverage the latest trends and technologies for the continued relevance and competitiveness of the organization.

• Dimension 15: Organization — Inter- and Intra- Company Collaboration is the process of working together, through cross functional teams and with external partners, to achieve a shared vision and purpose.

• Dimension 16: Organization — Strategy and Governance is the design and execution of a plan of action to achieve a set of long-term goals. It includes identifying priorities, formulating a roadmap, and developing a system of rules, practices and processes to translate a vision into business value.

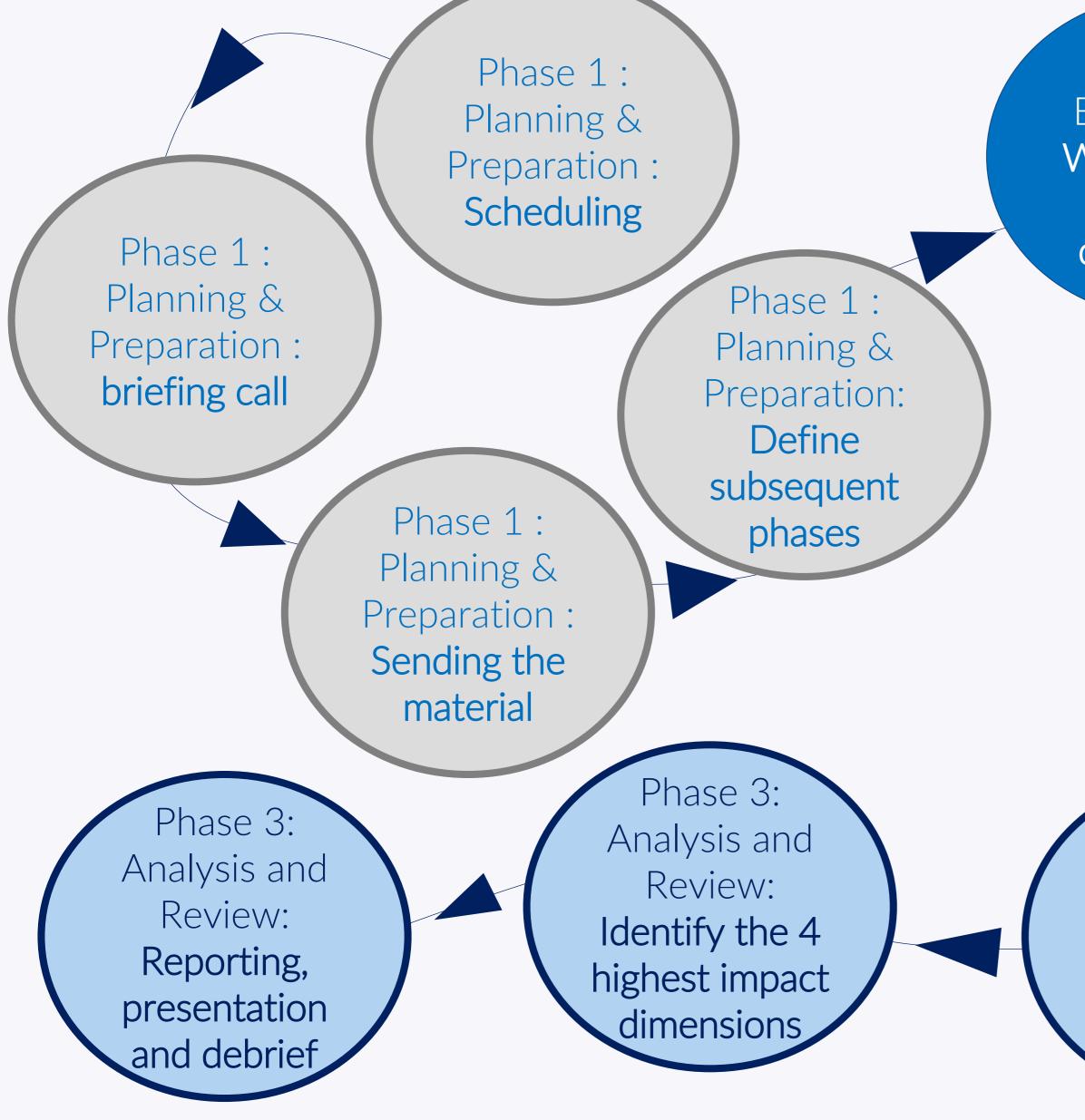








SIRI[©] - Assessment Phases



Phase 2 : Evaluation : Workshop to score dimensions

Phase 2 : Evaluation : Factory/Plant Tour

> Phase 2 : Evaluation : Collecting & refining PM inputs- Costs

Phase 2 : Evaluation : Collecting & refining PM inputs: KPIs

Phase 2 : Evaluation : Validation of the AM and banding

> Phase 2 : Evaluation : Validating PM inputs

Phase 2 : Evaluation : Strategy

Phase 3: Analysis and Review : **review of the information**







OSR : Official SIRI[©] Report (Some pages)



The LEAD Framework

Transforming and upgrading a manufacturing facility is not a one-off exercise. Rather, I is a continuous and iterative process. This is encapsulated in the LEAD framework - a circular, continuous four-step process that all manufacturers can adopt in their approach towards industry 4.0 transformation



The SIRI Framework

The SIRI Framework comprises three layers. The toppoost layer identifies three fundamental building blocks of Industry 4.9: Technology, Prepass, and Organisation. The second layer underpinning the building blocks comprises eight key pillars which represent critical aspects that companies must focus on to become future-ready organisations. Finally, the third layer consists of 16 dimensions, which are areas of assessment that companies can use to evaluate the current Industry 4.0 readiness of their factories or plants.

PROCESS			TECHNOLOGY			OREANISATION	
Operation:	Supply Chain	Products Uterprise	Automotion	Commenter	legal i genera	(Qant facilitant)	STREAM OF STREAM
	*		*			*	

Industry Group Comparison



The TIER Framework

Prioritisation is the next crucial exercise in formulating effective industry 4.0 roadmaps, as it helps companies identify business areas where improvements will generate the most value. The TIER Framework outlines four principles for companies to consider as part of a holistic prioritisation exercise. By evaluating these four principles, manufacturers can better focus their energies and resources on activities that bring the greatest benefits



The Assessment Matrix

The Assessment Matrix is the world's first self-diagnostic Industry 4.0 tool. Validated by a global advisory panel of industry experts, the Assessment Matrix is designed to strike a balance among lechnical rigour, usability, and relevance. Within the Assessment Matrix, there are six bands, in ascending order, tied to each of the 16 SIRI Dimensions. Each band describes a specific state within that dimension. Identifying a manufacturing facility's bands across all 16 dimensions therefore presents a snapshot of the manufacturing facility's current industry 4.0 maturity level. This is referred to as the Assessment Matrix Score

Assessor Comments

- Company A was established in 1980 with the objectives to manufacture powder detergent and shampoo in Singapore.
- · Company's A top management has the vision to improve the productivity and competitiveness for The factory through implementing Industry 4.0 concepts. · There are 4 main processes producing detergents; powder detergent-mixing, powder detergent
- packaging, liquid detergent mixing and liquid detergent packaging. The factory is fully equipped with automation and has an integrated system for the production processes such as from raw material uploading, mixing and packaging processes
- The company has started to implement some Industry 4.0 use cases to enable the full scale up of Industry 4.0 concepts in the factory //
- · Enhancing Vertical Integration and Shop Pitor Intelligence will improve Company A's ability to uphold the quality of its manufacturing processes through processing and alwaysing data. Working on these two dimensions will consequency strengthen Company As Asset & Equipment Efficiency, Workforce Efficiency and Process Quality both of which were highlighted as the company's top K.PI salegories.
- · Furthermore, as improvement in Enterprise Intel Igence, dimension will increase the inventory Efficiency and Planning & Scheduling Effectiveness which help to This will help the company columise the management of its Ray Materials & Consumables, which currently make up more than a third (42 per cent) of the company's annual revenue.
- · Assessment Matrix Score of Company A is higher than Industry Benchmarks for most of the dimensions with only Integrated Product Lifecycle is below the industry Benchmarks.

Official SIRI Assessment Report



18

Welcome for more information.



111 111

Contact@smiri.com.tn

10.00

-

A DE REAL PARTY OF THE OWNER

