EXPERIOR
SYSTEM
AUTOMATION

experior

A fully integrated,
modular and flexible
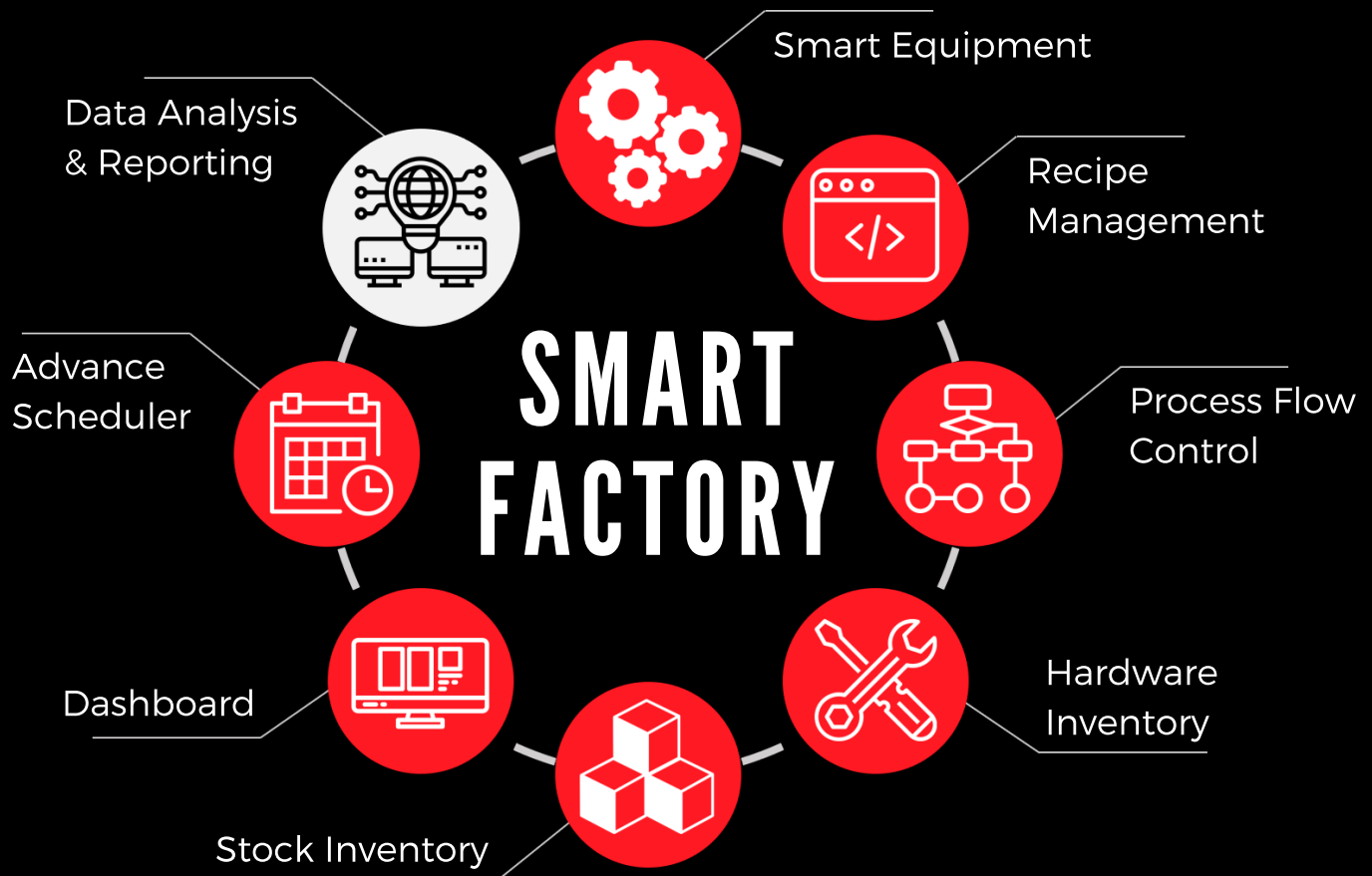**smart factory system**

WHAT IS **EXSA?**

EXPERIOR **S**YSTEM **A**UTOMATION

ExSA is a fully integrated, modular and flexible smart factory system, specifically **designed for factories, by engineers who run factories**

From low-hanging fruit type solutions to a fully automated smart factory, ExSA is

- Modular and can be customised for use of one module or all modules and anything in between
- Scalable over time to reach the optimal level of automation

- Data Analysis & Reporting
- Smart Equipment
- Recipe Management
- Process Flow Control
- Hardware Inventory
- Stock Inventory
- Dashboard
- Advance Scheduler

SMART FACTORY

To be deployed in Q2/2020

MODULES

Smart Equipment

- Universal and customisable User Interfaces (UI) for both testers and handlers
- Equipment networked with all data transferred to servers/cloud
- Linkable to the Recipe Management System

Recipe Management

- Web-based customer request portal
- Test program/recipe auto-check and server management (controlled transfer with restricted access)
- Handshake with Smart Equipment Module to auto-load and guarantee correct tester and handler recipes (production parameters/bin settings) verification at lot level
- Linkable to the Smart Equipment Module

Process Flow Control

- Manufacturing flow customisation
- Process routing configurability and flexibility for error-free execution

Hardware Inventory

- Auto-linked to MES for error-free hardware to equipment assignment and setup
- Live tracking and monitoring of all hardware (loadboard, probe card, tester card, socket, pins and any other component) status, lifespan and location

Stock Inventory

- Inventory tracking and control of material for test with auto-triggering for reordering
- Automated matching of BOM with material forecast for on-time purchase
- Link BOM with MES to eliminate wrong use of material in production

Dashboard

- Production line control centre for equipment status monitoring (web-based and live)
- Live status monitoring of equipment - utilisation, downtime, retest, OEE (linkable to Smart Equipment Module)
- User Interface that enables customisable reporting by 5 levels - by business unit-product-equipment-time-performance

Advance Scheduler

- Equipment PM calibration system with integrated alert, auto-shutdown (linked to MES) and built-in request for extension with approval
- Automated KPI report

Data Analysis & Reporting

- Auto-reporting of production and product health indicators
- Configurable data query system for data by lot, by product, by business division, etc.
- End process analysis with linkage to MES to auto-hold lots with non-conforming characteristics

*All modules are electronic and accessible via web browser with user access control
*Deployed on Advantest, Teradyne, Epson and JHT equipment with more equipment brands in development

ABOUT US

Experior is based in Penang, Malaysia, We provide one-stop services in test development, validation and volume testing from hardware and software for new semiconductor products to optimisations and system automation for existing products.

Our customers include Integrated Device Manufacturers (IDMs), tech startups, Design Houses, Fabs and Equipment Providers some of which are Fortune 500 multinational corporations.

We have built and deployed a fully integrated, modular, customizable, and scalable factory automation system that will work with any existing, Shopfloor Control System (SCS) or Manufacturing Execution System (MES).

TRACK RECORD

We strive to complement the global tech ecosystem with a deep system automation capability.

The experience profile of our team of development engineers ranges from 6-22 years' experience each gained mainly from our time in various international technology giants.

To date, we have a perfect track record with every project successfully delivered to our customers, despite some very challenging and complex requirements.

CONTACT US

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