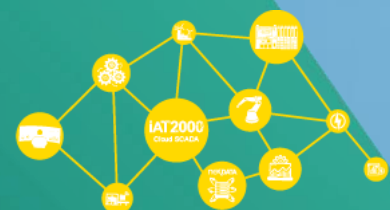




Your Partner in Smart Manufacturing

Future Factory In Today



2022

I4.0 Tech DAY

VIC7000 Series

NexAIoT Vision Intelligence Controller
Vision Gateway and RPA Solutions

V3.1

IoT Automation Product Div.

What are VIC and RPA?

Eyes

Vision Signals

- Capture Card
 - HDMI / VGA / DVI
- Camera
 - RTSP / Webcam
- Browser
 - Website / Local Desktop

Brain

Identify

- Vision Process
 - OCR / Color / Pattern

Think

- Condition
 - VIC-Flow / Python

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Body

Robotic Process Automation (RPA)

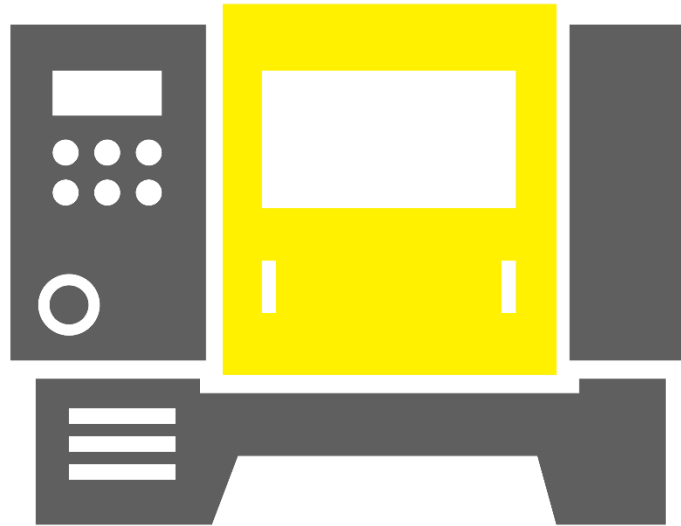
- It can build **soft Robots** and Inspectors that can **learn, imitate, and execute** rules-based business processes.

Why you need VIC and RPA



Data extraction is required

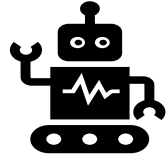
- When you have PC based and no Protocol devices need to data extraction, such as OCR, Color, Pattern
- The point is VIC and RPA do not need to install software and do break intrusion



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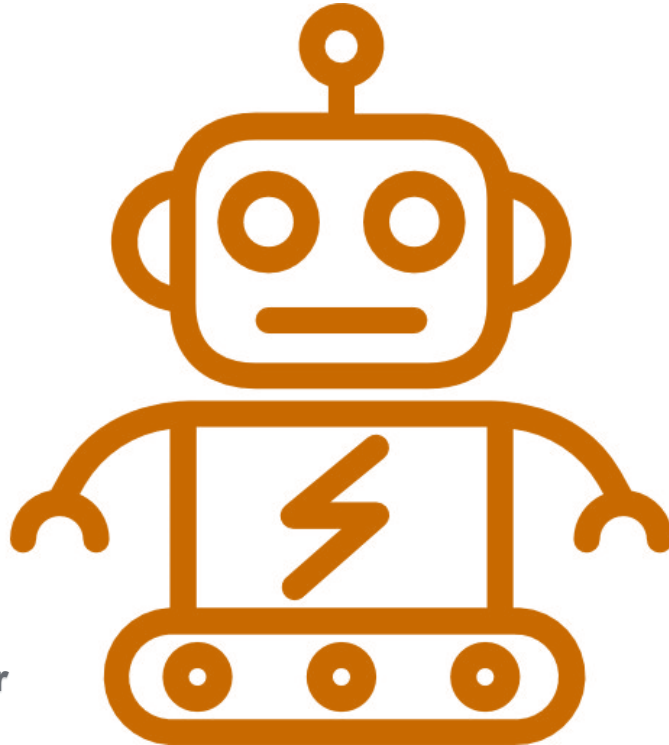
Why you need VIC and RPA



RPA

Process Automation is required

- When your data and process need to reduce manpower and procedures



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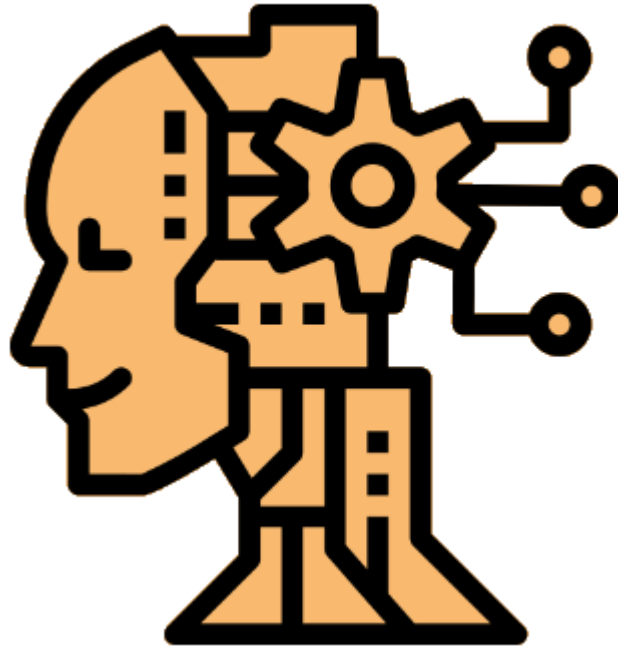
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Why you need VIC and RPA



AI and Data Integration are required

- When your devices data need to build an AI model



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Why you need VIC and RPA



Centralized
Remote Management

Remote insight and control device are required

- When your devices need to remote monitoring and control



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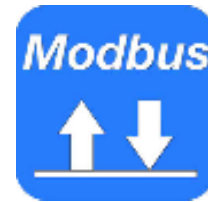
Why you need VIC and RPA



TCP/IP, REST API
Modbus TCP, SQL, OPCUA

Industrial Protocols are required

- When your industrial communications need to data exchange



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Why you need VIC and RPA



Email, Line
WeChat, Teams

Real-time data and status are required

- When your engineers need to handle processes



Microsoft Teams

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What VIC and RPA can offer you

Benefit 1

Remote monitoring and control based on HTML5

- VIC-RPA utilize cross-platform HTML5 web pages to allow users to monitor and operate devices remotely



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What VIC and RPA can offer you

Page Turning and RPA

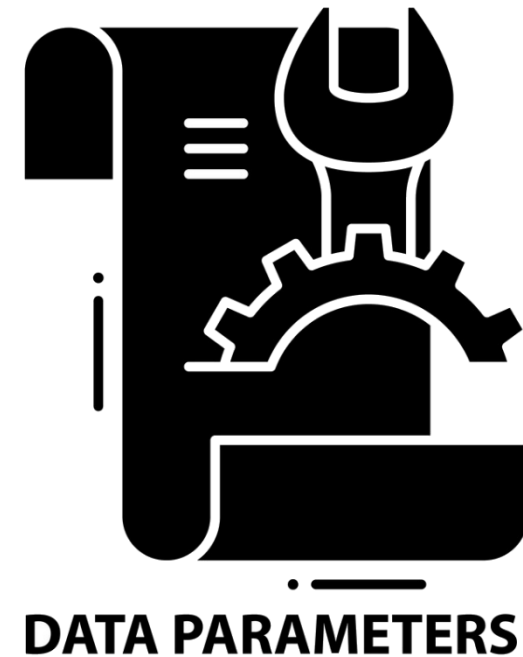
Benefit 2

- Because the data page is not only one page, VIC-RPA can remotely control the keyboard and mouse, and can switch pages automatically or manually to page turning and modify parameters



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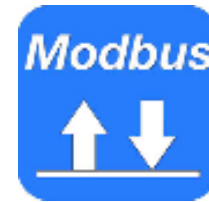
DATA PARAMETERS

What VIC and RPA can offer you

Benefit 3

Rich Protocols and communications support

- VIC-RPA provides common communication protocols such as IT, industry, consumer and semiconductor, which can provide different field needs



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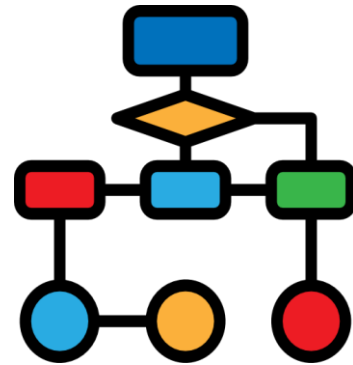
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What VIC and RPA can offer you

Benefit 4

Users can develop their own functions

- VIC-RPA provides flexible development tools such as **VIC-Flow** and **Python**, allowing users to easily develop unique functions **by themselves incl. AI model.**



VIC-Flow



Python

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What VIC and RPA can offer you



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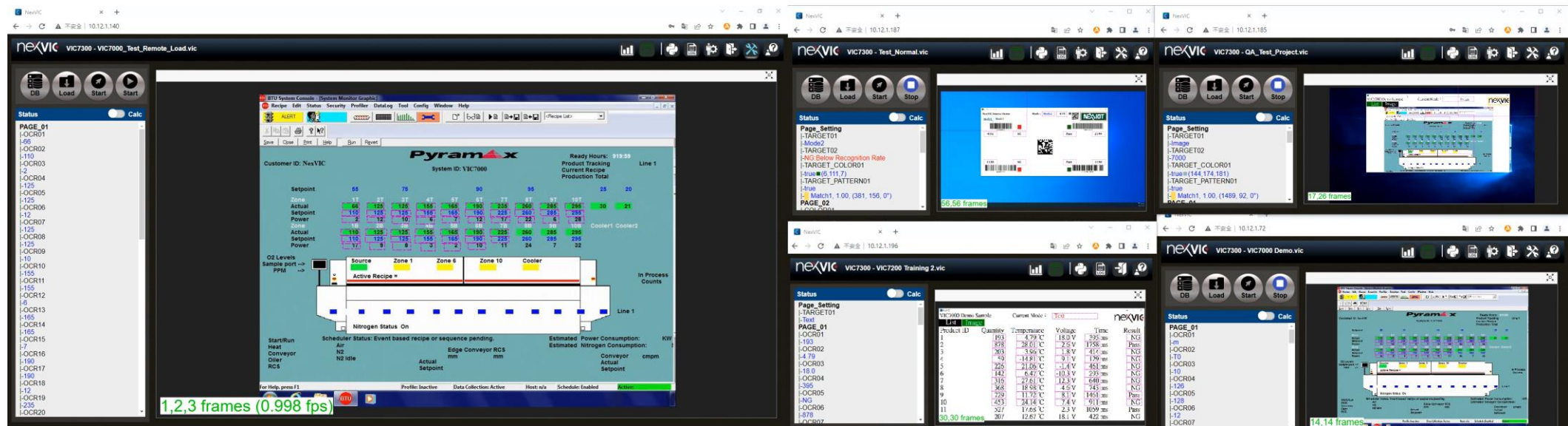
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What VIC and RPA can offer you

Benefit 5

Broadcast Update

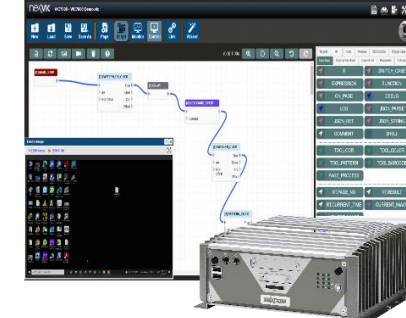
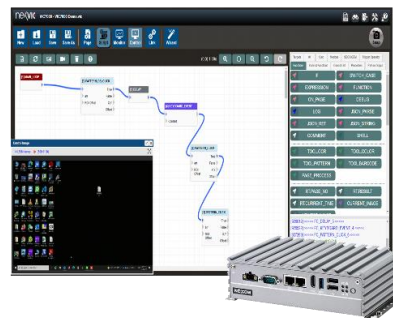
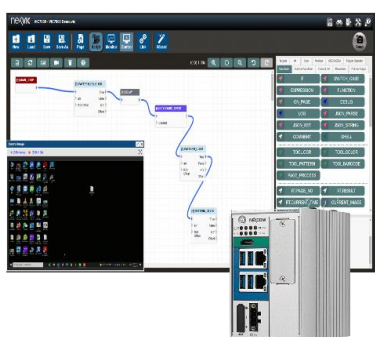
- Quickly update VIC settings



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VIC-RPA Function Table

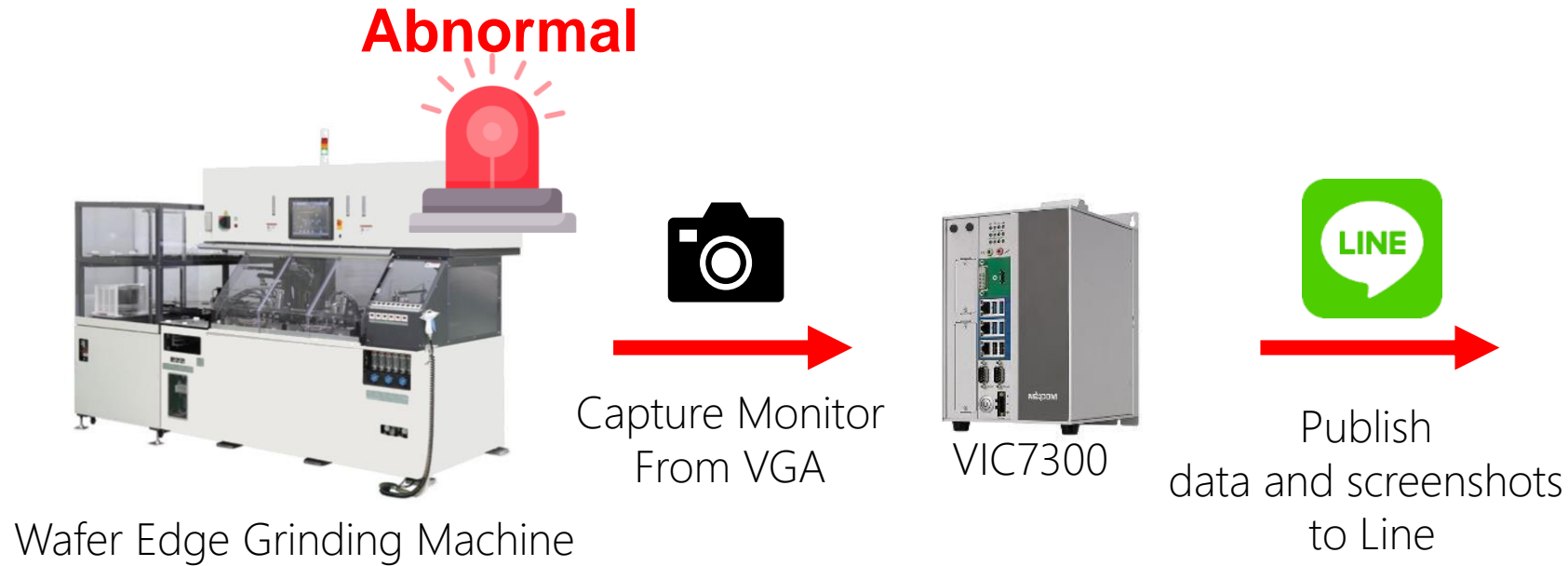


VIC7001	VIC7200W	VIC7200W-Webcam	VIC7310	VIC7500TMP
Palm-size compact RPA and Data Extracting System	High-Value Vision Record, RPA and Data Extracting System	High-Value Data Extracting System from Webcam	High-performance RPA and Data Extracting System	High-End Multi-CH Vision Record, RPA and Data Extracting System
<p>Key Features</p> <ul style="list-style-type: none"> Palm-size RPA and Data Extracting SQL-Lite 	<p>Key Feature</p> <ul style="list-style-type: none"> High-Value RPA and Data Extracting Vision-Record and Trend chart SQL-Lite 	<p>Key Feature</p> <ul style="list-style-type: none"> Supports USB UVC and IP Cam RTSP Detect OCR, QR code and other functions Pattern Location pattern matching 	<p>Key Features:</p> <ul style="list-style-type: none"> High-Performance RPA and Data Extracting MySQL 	<p>Key Features:</p> <ul style="list-style-type: none"> High-End Support 2-CH Data Extraction RPA and Data Extracting Vision-Record and Trend chart MySQL

VIC-RPA Function Table

	VIC7001-RPA	VIC7310	VIC7500TMP	VIC7200W	VIC7200W-webcam
MODE	Single Channel		Multi-Channel / page	Single Channel	
Page	5	50	2Channel / 50 Page	20	
OCR	250	500			
COLOR	25	50			
PATTERN	5	10			
BARCODE	X				7200W webcam(20)
TARGET_OCR	5	50		20	
TARGET_COLOR					
TARGET_PATTERN		10			
TARGET_BARCODE	X				7200W webcam(10)
OCR CHAR	100				
All of Module	400	2000	10000	800	
Database	SQL-lite	MYSQL		SQL-lite	
Capture source	mPCIe Capture	PCIe Capture	PCIe multi-capture	mPCIe Capture	Webcam
Max Frame Rate	30				
Vision Source					
browser					
RTSP	V				
Host capture					
Sub-Function					
Barcode	X				7200W webcam(V)
RPA Control	V	V	V		V
DB-trigger	X		V	X	X
Vision Record	X		V		
Trend Chart					
Script	Python				
Python-module					
Python-tool-module					
VIC-Flow	V				
SECS/GEM					
Chinese Inspection					

Case Study– Wafer Edge Grinding Machine-Step1



- Scenario 1
 - When an abnormal signal occurs in the process, VIC-RPA will take the initiative to take screenshots and send Line to inform the process engineer

Case Study– Wafer Edge Grinding Machine-Step1

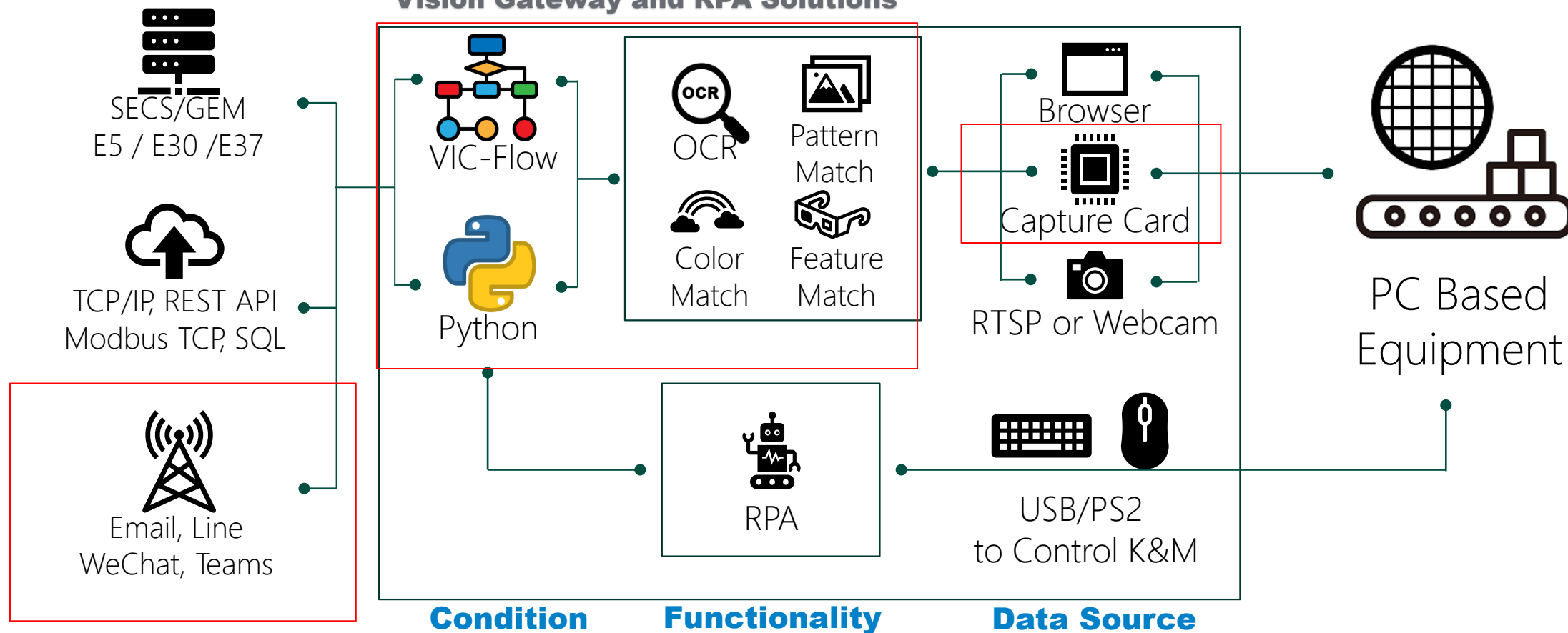


- Scenario 1
 - When an abnormal signal occurs in the process, VIC-RPA will take the initiative to take screenshots and send Line to inform the process engineer

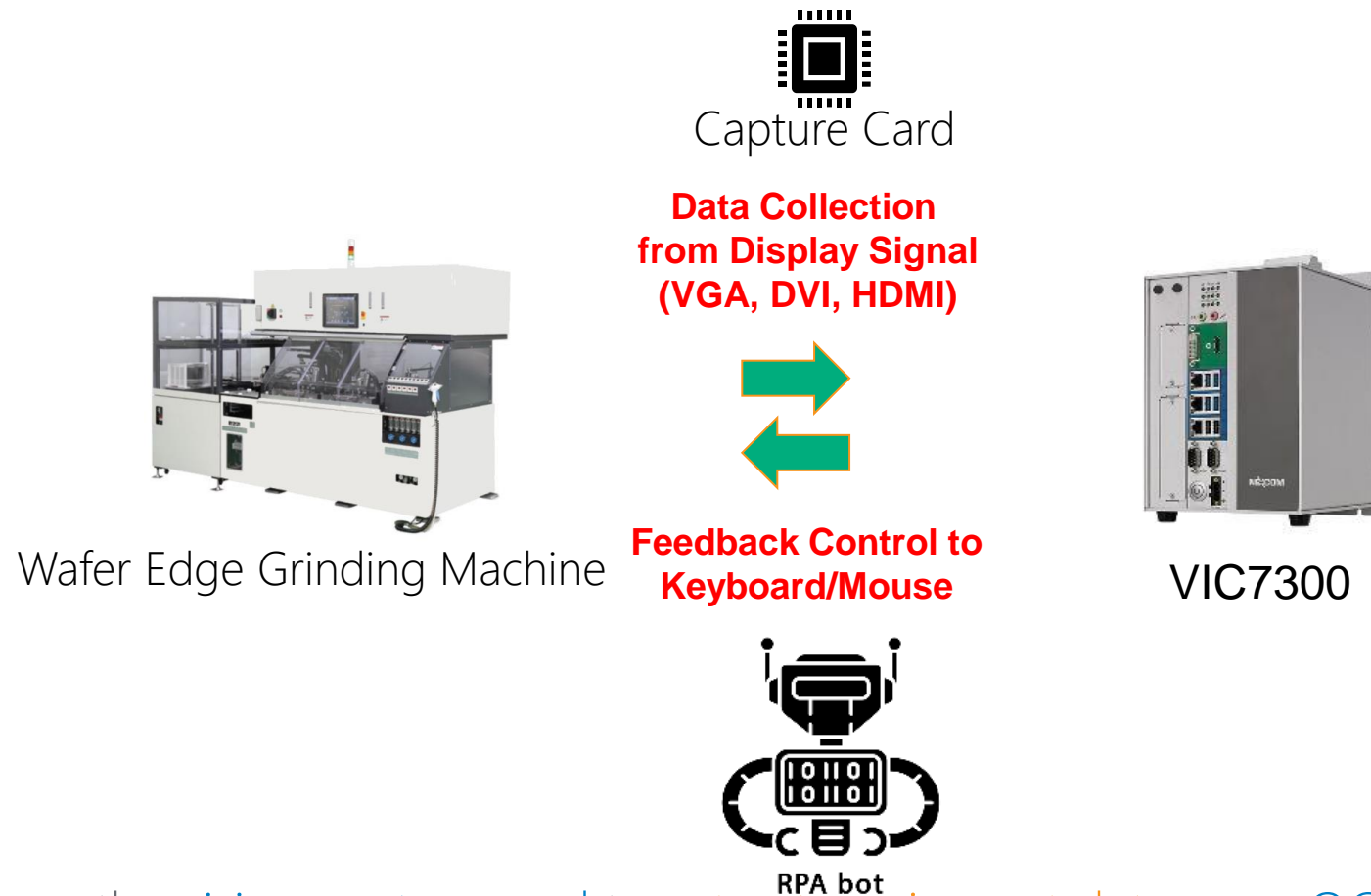
VIC and RPA Architecture-Step1

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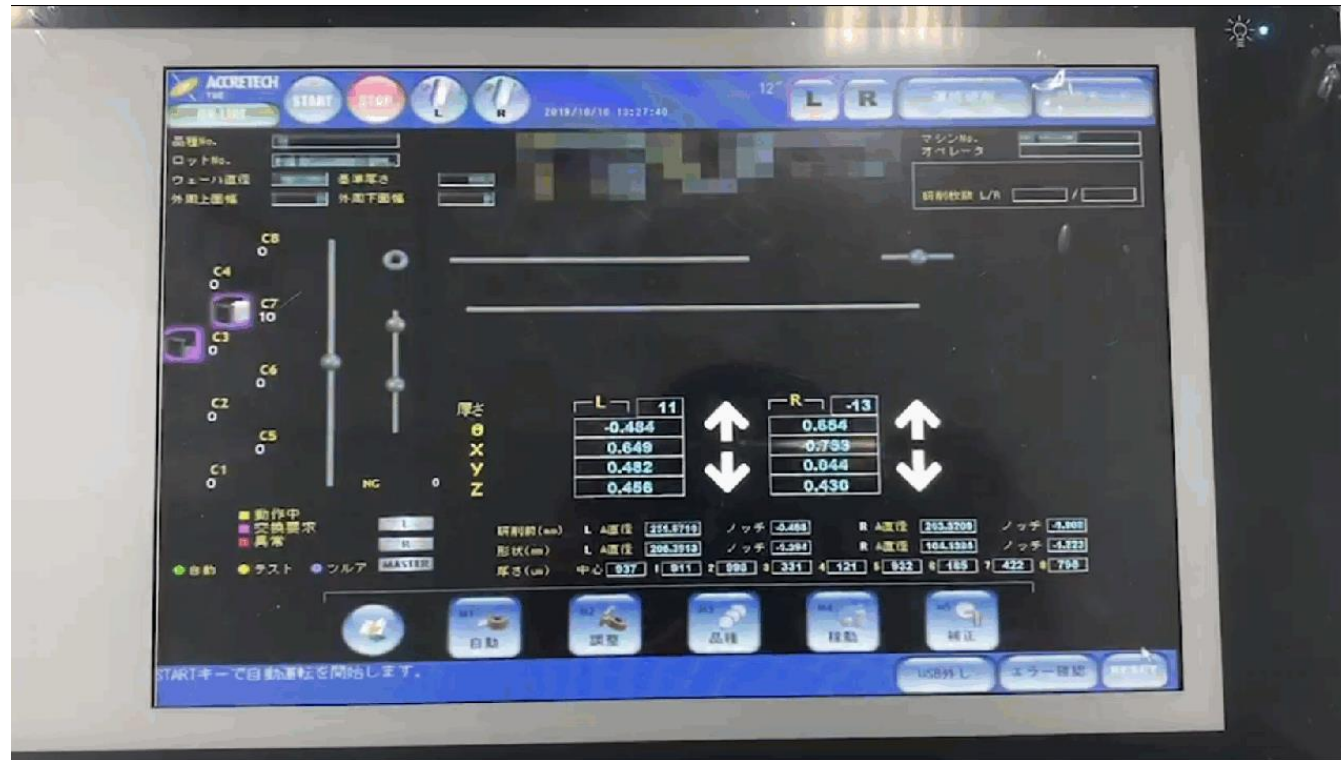


Case Study– Wafer Edge Grinding Machine-Step2

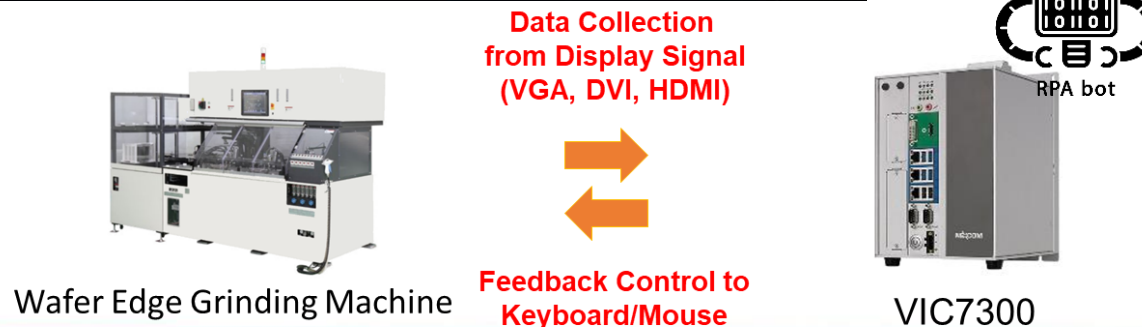


- Scenario 2
 - VIC-RPA uses the **vision capture card** to **extract equipment data**, uses **OCR technology** to **digitize equipment parameters**, and then uses VIC-RPA's **RPA technology** to **operate and modify equipment parameters**.

Case Study– Wafer Edge Grinding Machine-Step2



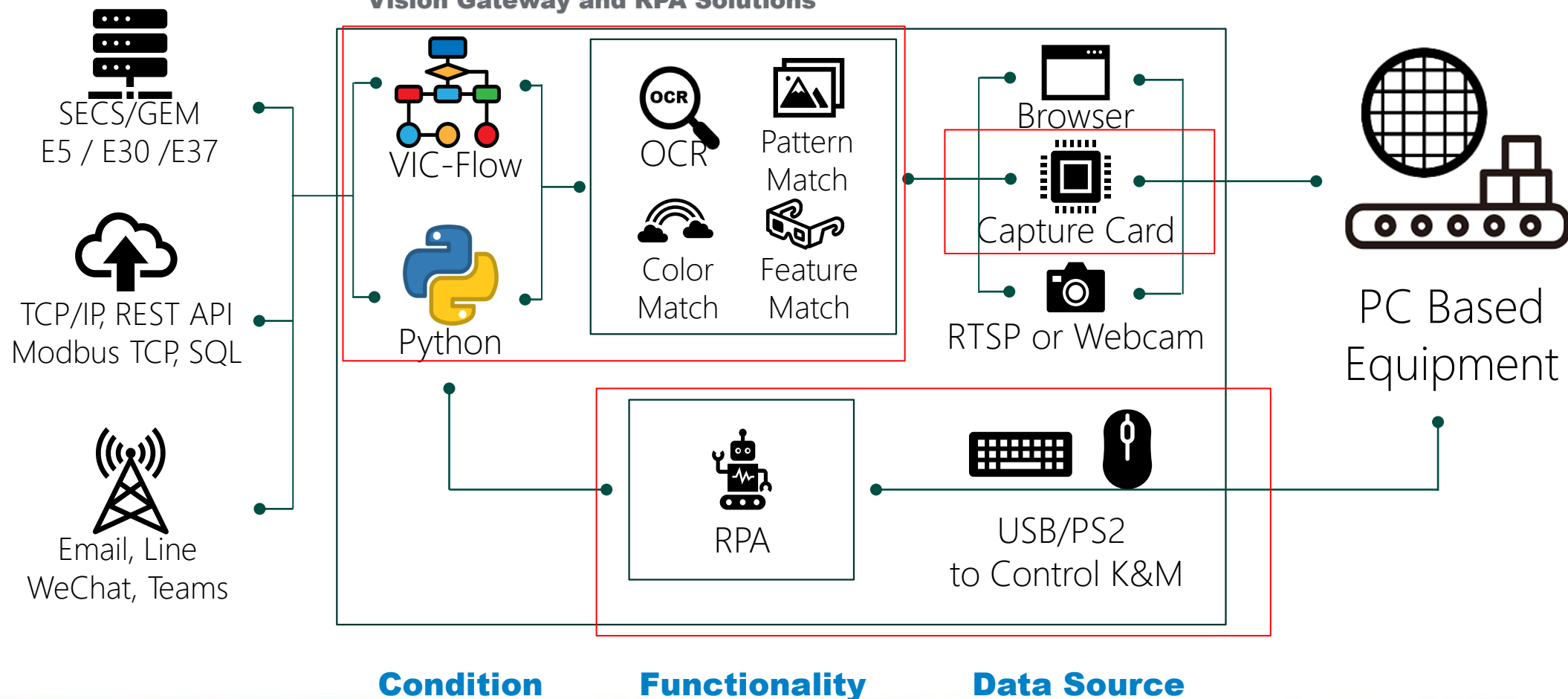
- Scenario 2
 - VIC-RPA uses the vision capture card to extract equipment data, uses OCR technology to digitize equipment parameters, and then uses VIC-RPA's RPA technology to operate and modify equipment parameters.



VIC and RPA Architecture-Step2

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Case Study– Wafer Edge Grinding Machine-Step3

- Scenario 3
 - Statistical Process Control (SPC) uses SQL as a medium to exchange data with VIC-RPA



Statistical Process
Control (SPC)



Data
Exchange



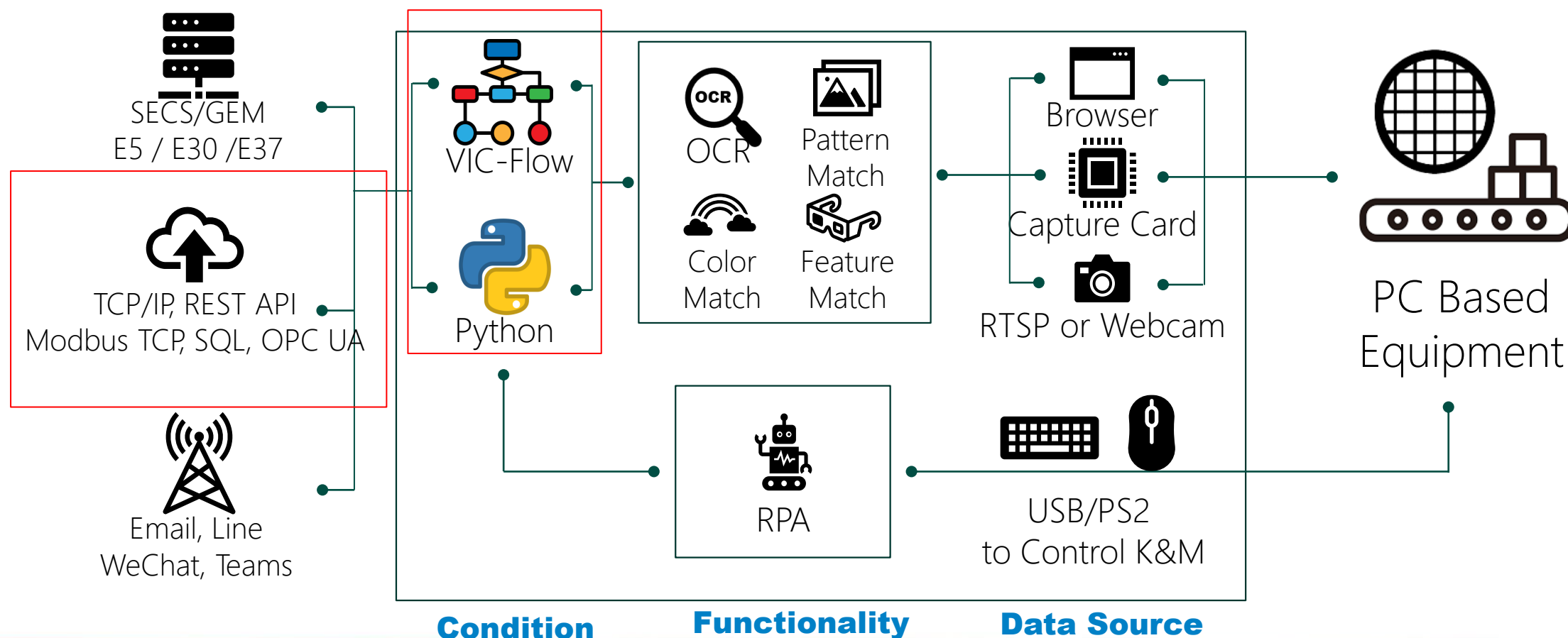
VIC7300

- Benefit
 - VIC-RPA successfully imported Fab 4.0 and SPC with complete RPA application
 - Auto-Tuning and Optimization
 - Reduce filed engineer loading
 - Avoid human key-in mistake

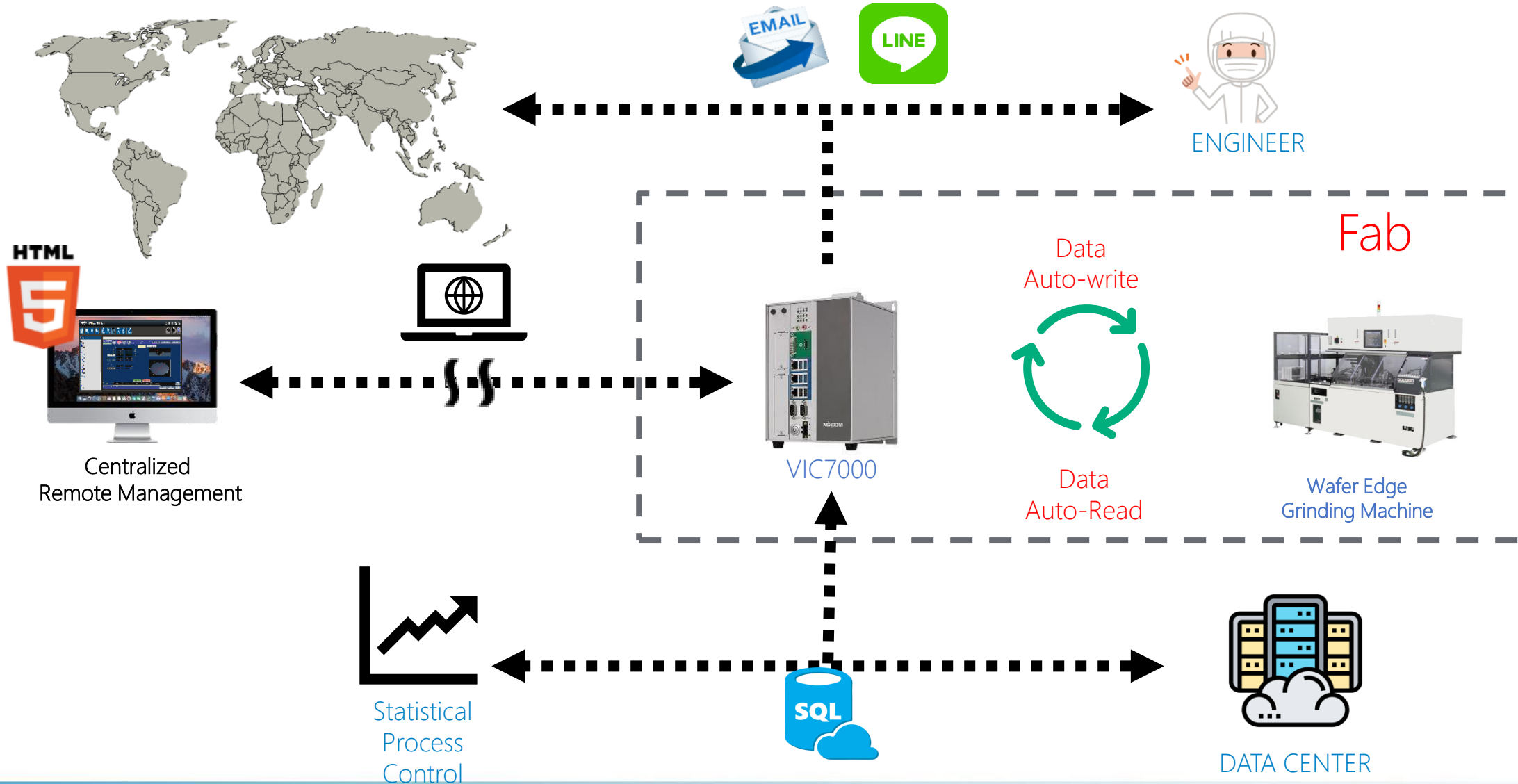
VIC and RPA Architecture-Step3

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Case Study– Wafer Edge Grinding Machine





 **NexAIoT IoT Automation**
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已建立的播放清單

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iAutomation CH



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Your attention

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