**Aichi-Israel Matching Program**

**Israel Innovation Authority New Business Building Program (2023-25)**

**Aichi Company:** YADA INDUSTRY Co., Ltd.

**Relevant Sectors:** Production Management System

**Details:**

* **Challenges:**

Many small and medium-sized manufacturing companies in Japan encounter a common challenge - **excessively long lead times**. This issue can be attributed to two key factors:

**1st issue – Premature Initiation**: The fear of missing delivery deadlines often prompts them to start the production process too early. This ironically results in longer lead times.

**2nd issue – Lack of Inter-factory Visibility**: Executives and managers tend to proactively set longer delivery times due to uncertainties stemming from a lack of visibility into both upstream and downstream processes in the supply chain.

* **New business idea:
Digital System Connected to Physical Production Management Rack**

Yada aims to develop a production management system to significantly shorten lead times. Currently, addressing the 1st issue, Yada has already achieved notable success by creating an in-house physical production management rack, effectively reducing lead times in various factories. This rack allows workers to monitor production progress continuously, preventing premature initiation. Therefore, Yada's next step involves the development of a digital system that complements the physical production rack. This digital system aims to streamline inter-factory progress and facilitate inter-factory communication, ultimately leading to the achievement of supply chain visualization.

**Scouting Technologies:**

Yada is seeking innovative technologies to complement its solution. Interested applicants should have expertise in two key categories:

* **Category 1: Digitizing Work Orders**
	+ This involves the technology required to digitize work orders within the physical rack, such as QR codes, barcodes, or RFID tag scanning, to streamline the work instruction process.
* **Category 2: Visualizing Inter-factory Progress**
	+ A system that enables related factories to monitor each other's progress and provide instructions in cases of inefficient progress. This technology aims to enhance the visibility of the entire supply chain.

More details are here