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

**Aichi company**: CHUO MALLEABLE IRON CO., LTD.

**Relevant Sectors**: Additive manufacturing, AI, Industrial technologies, Enterprise, IT & Data Infrastructure

**Details:**

**Challenges:** Chuo Malleable Iron is trying to respond to the accelerating trends of sustainability needs such as environmental aspects for automotive and manufacturing industries. Therefore, Chuo Malleable Iron aims for establishing a new manufacturing process by additive manufacturing (AM) technology.   
 **New Business idea:** Chuo Malleable Iron aims to build *“One-Stop Prototyping Process”* using additive manufacturing (AM) technology that can meet a wide range of production needs with short delivery time.

**Scouting Technology:**

Looking for companies that have technology either Category 1 or 2.

* **Category1: Additive Manufacturing (AM) technology** 
  + Should be applicable for more than one material area for AM technology below.
    - Sand mold, gypsum mold or ceramic mold for high-mix & low-volume production process for manufacturing industry
    - Special copper alloys with high thermal conductivity and high strength for space Industry
    - High-precision materials: harmless materials including titanium/ceramics with low-cost process for healthcare Industry
  + Better to be applicable for variety of highly functional material development with low cost
  + Better to have knowledge of non-destructive inspection, quality assurance, and traceability
  + Should be easy to maintain and short time in material replacement
* **Category 2: Technology to analyze optimal manufacturing methods** 
  + Should have technology to analyze optimal manufacturing methods (e.g., AI)
  + Should be capable for accumulating data with non-destructive quality assurance
  + Should be capable for proposing manufacturing process based on the accumulated data

More details are here