

## TECH OFFER

### Universal Hardware And Platform For Real-Time Data Analysis



#### KEY INFORMATION

TECHNOLOGY CATEGORY:

**Electronics** - Sensors & Instrumentation

**Infocomm** - Big Data, Data Analytics, Data Mining & Data  
Visualisation

TECHNOLOGY READINESS LEVEL (TRL): **TRL7**

COUNTRY: **HUNGARY**

ID NUMBER: **TO174533**

#### OVERVIEW

Real-time manufacturing data can help to predict the condition of production machines and peripheral equipment. However, not every machine has the system to collect and analyse the condition of a machine. Furthermore, it is hard to gain data from non-networked devices, especially from old ones, as well as to integrate different types of manufacturing equipment.

This technology offer is a SaaS and hardware solution for real-time data collection and analysis. The modular hardware provides an interface for communication channels and protocols of all industrial equipment. Hence, it makes every type of new or old production and peripheral equipment integrable. Upon the data collection from the universal hardware, the platform will analyse the data using deep-learning algorithm, generating detailed production information.

The technology owner is keen to out-license its solution and looking for collaboration with partners in plastics manufacturing (especially for injection moulding), textile industry, and IHLs for further applications.

## TECHNOLOGY FEATURES & SPECIFICATIONS

The solution includes both hardware and platform:

- SaaS for:
  - universal dashboard
  - data collection from modern machines
  - communication with own hardware
  - management
  - analyzation of data
- Hardwares (as a Service):
  - plug&play hardware for injection molding
  - modular, universal HUB for retrofitting, for any industry

The solution can be further customised based on customers' requirements.

## POTENTIAL APPLICATIONS

This technology can be applied in various industries such as plastics, metal and food manufacturing companies to achieve cost reduction and better efficiency with collection and analysis of data from production machines and peripherals.

This solution can also be useful to the old machines, which do have in-built data collection solution. The universal hardware can be integrated to the old machines to extract the data without additional sensors.

## UNIQUE VALUE PROPOSITION

The benefits of the solution include:

- No extra sensors are needed
- Helps identify and eliminating the pain points of the production plant
- Detects errors and sends error notifications instantly
- Reduces productivity losses, waste, and energy usage
- Increases efficiency and revenue
- Comes with standard industrial KPI system
- Easy implementation