

Joint Agreement

Between

Labs Network Industrie 4.0 e.V., Berlin, Germany

and

Korea Smart Manufacturing Office, Daejeon, Korea

on cooperation to fasttrack the digital transformation of the industry (Industrie 4.0).

The pre-competitive and non-profit association Labs Network Industrie 4.0 e.V. of Germany and the KOSMO (Korea Smart Manufacturing Office, an affiliated organization of TIPA; Korea Technology and Information Promotion Agency for SMEs) ("the Sides"),

- recognise in particular that digitalization and linkage of the production processes along digitalized value chains, a process referred to as "Industrie 4.0", can boost the economies of both countries,
- emphasize that cooperation between the industry-driven initiatives, companies, universities, and research institutions in the field of digitalization and Industrie 4.0 might have a positive impact on the competitiveness of their industrial sectors, and
- confirm their mutual interest in promoting bilateral relations in the field of Industrie 4.0 and digitizing manufacturing.

Therefore, the sides have come to the following understanding:

1. International Cooperation

"The Sides" intend to exchange views, goals, strategies, recommendations and best practices regarding digitalization, in particular Industrie 4.0. The target of the cooperation is to make a sustained effort to promote, facilitate and support joint initiatives within their industry sectors, acknowledging the strength of the innovation capabilities in both countries. This includes the exploration of common interests and joint contribution to the promotion of activities in international organizations in the areas of cooperation mentioned previously.



2. Cooperation Framework

The Sides intended to set up regular consultations on Industrie 4.0 and Digitizing Manufacturing. The cooperation could include, but is not limited to:

- Promotion of joint research and technical support for Industry 4.0 related development
- Exchange of information and opinion
- Delegation visits to each country
- Invitation to specific international events as a speaker or panelist
- Invitation of Industrie 4.0 experts to (technical) workshops, in fields of common interest (decided by case)
- (Mutual) presence and presentation at important events related to Industry 4.0
- Regular Workshops

In the desire of both Sides to continually evaluate of the possible cooperation mechanisms and identify the areas where further collaboration is required. Therefore, an annual meeting, should be scheduled to look at progress, set specify goals and also measure the cooperation's success.

The Sides intend to invite relevant experts from the Plattform Industrie 4.0, the Standardization Council Industrie 4.0 (SCI 4.0), the Korean Agency for Technology and Standards (KATS) and the Korea Internet & Security Agency (KISA) as well as the Korea Electronics Technology Institute (KETI) and further experts from public and private sectors to contribute to the cooperation.

The sides can appoint third parties as specific technology and implementation experience advisors respectively and cooperate with them to do each task effectively.

3. Areas of Cooperation

The cooperation could include, but is not limited to the following topics:

- Asset administration shell (AAS) and OPC UA testing and implementation
- General Industrie 4.0 testing and testbeds
- Industrie 4.0 use cases
- Industrial cybersecurity
- Qualification and training
- Digital Business Models
- Artificial Intelligence (AI)
- GAIA-X specific testing
- Industrial communication (5G, Time Sensitive Network, etc.)

4. Financial Considerations

The cooperation within this Joint Agreement is subject to and dependent on available funding and resources from each side.

The sides will assume the costs incurred by themselves, unless otherwise jointly decided in writing.

5. Cooperation Period

It is the common understanding of the sides that this Joint Agreement will be honored up to the end of 2023 and may be extended for another period of the same length if the sides express an interest in writing in this regard.

Either of the Sides can decide to discontinue the cooperation on the basis of this Joint Agreement. In this case, notice should be given in writing at least ninety (90) days prior to the intended discontinuations.

This Joint Agreement has been exchanged between both sides, in the Korean, German, and English languages, all texts being equally valid. In case of any divergence of interpretation, the English text will be used.

4 December 2020



KOSMO
President

Han Ku, Park

A handwritten signature in black ink, appearing to be "한구박" (Han Ku, Park), written over a horizontal line.



LNI 4.0
Chairman

Thomas Hahn

A handwritten signature in black ink, appearing to be "Thomas Hahn", written over a horizontal line.

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