

# MEMORANDUM OF UNDERSTANDING

Between

1. **SAMARA STATE TECHNICAL UNIVERSITY (SAMARA POLYTECH, SSTU), Russia**  
Represented by Prof. Dmitry Bykov, Rector

And

2. **Land Green & Technology, Taiwan**  
Represented by Mr. Fu Lid President

WHEREAS:

Parties are interested in collaboration on developing pioneering digital platforms and eco-systems, products and services for Smart Agriculture 5.0 with the focus on precise, organic, optimized and customized farming.

In this document Parties establish research, business and technology cooperation for digitalization of domain knowledge and development of artificial intelligence (AI) for Smart Agriculture 5.0, and agree on the following:

**Art. 1.**

Cooperation between parties shall be carried out, subject to availability of funds, the approval of both parties and on the basis of reciprocity, through such activities or programmes as:

1. Exchange of staff for discussing new ideas, products and businesses;
2. Joint research and design activities for developing new IT products and services;
3. Grant activities of jointed research and design of new products and services;
4. Commercial activities with clients, investors and other partners;
5. Participation in smart agriculture academic and business meetings;
6. Exchange of information and materials in smart agriculture;
7. Testing and validation of IT products and services;
8. Establishing new jointed businesses for local and global sales.

Parties consider research and development of digital twins of plants with the use of AI models and methods for smart agriculture as a first area to start cooperation.

All innovative developments will require signing non-disclosure agreements (NDA) and coordinated decisions on intelligent property rights (IRP).

**Art. 2.**

The cooperation described above will in every case be dependent upon the availability of necessary funds, either from within both parties or from external sources. Both parties, separately or jointly, will try to allocate sources.

**Art. 3.**

The areas of cooperation include, subject to mutual consent, any programme offered by either party and considered desirable and having potential to contribute to the mission and effectiveness of either party and/or contribute to fostering the cooperative relationship between parties.

The following subjects are considered as a proposal for cooperation in smart agriculture:

- The corporate ontologies and knowledge bases for plants cultivation, including formalised knowledge on sorts of plants, precise farming technologies, plants diseases and treatment, fertilisers, etc;
- The digital twins of plants for different crops, e.g. wheat and rice, vegetables, etc;
- The AI models, methods and tools for automated and coordinated decision making for smart agriculture;





- The digital platforms and eco-systems for improving farmers productivity and efficiency and minimizing transaction costs in agriculture supply chains;
- The smart farm resource management systems based on adaptive scheduling;
- The smart cyber-physical systems with digital twins of plants.

Parties intent to develop these new products and services in cooperation and integrate them with existing platforms, products and services for clients locally and globally.

**Art. 4.**

The terms and necessary budget for each programme and activity will be described in the Working and Financial Programmes, which will be prepared subsequent to this Memorandum of Understanding and signed by both parties prior to the initiation of a cooperative programme or activity. Each programme and activity will be negotiated on an annual basis. Each party will designate a contact person who will be responsible for the implementation of the Programmes.

**Art. 4.1.**

Concerning an exchange of staff and collaborative research and design, the following topics will be arranged with mutual consent:

- requirements concerning admittance of staff;
- number and duration of the exchanges;
- aim of the exchange or the collaborative research and design;
- facilities offered by each party.

**Art. 5.**

The present Memorandum of Understanding is signed for 5 years (five years), starting from the date of its signature by both parties, and is renewable by tacit agreement for equal periods. Either party may terminate this Memorandum of Understanding by means of a certified (registered) letter received by the other party six months prior to the end of any calendar year.

**Art. 6.**

In the event that one or several items of this agreement is deemed inapplicable due to certain prevailing judicial decisions or legislative acts, the parties will look for alternative agreements on this or these litigious points. However, all other applicable items of this agreement will remain in force, but only for the continuation of the current year.

**Art. 7.**

The present Memorandum of Understanding is written in the English language in two (2) identical copies, each copy will be signed by the representatives of the parties and legalised with an official stamp.

**POSTAL ADDRESS DETAILS AND SIGNATURES:**

Samara State Technical University  
443100, Molodogvardeyskaya Ul., 244  
Samara, Russia  
[rector@ssgtu.ru](mailto:rector@ssgtu.ru)  
+7(846)278-43-11  
Prof. Dmitry Bykov  
Rector  
Stamp of Institution **DATE**



Land Green Technology  
2F-1,65 Hsin Yi Rd., Sec., 3  
Taipei, Taiwan 10651  
[info@lgt.tw](mailto:info@lgt.tw)  
+886227845675  
Fu Lid  
President  
Stamp of Institution **DATE**