

# Danish SME seeks engineering partner for AI vision and robotic integration of autonomous weed-control garden robot

## Summary

Profile type

**Technology request**

Company's country

**Denmark**

POD reference

**TRDK20260513022**

Profile status

**PUBLISHED**

Type of partnership

**Commercial agreement with  
technical assistance**

Targeted countries

• **All countries**

Contact Person

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Term of validity

**13 May 2026**

**13 May 2027**

Last update

**13 May 2026**

## General Information

### Short summary

A Danish SME developing an autonomous garden robot for non-chemical weed control seeks a technology partner with expertise in AI vision, robotic navigation, electronics, enclosure design, battery management and system integration. The aim is to define and build a functional prototype by integrating vision, safety, laser and robotic platform components.

#### Full description

A Danish SME is developing an autonomous consumer robot for weed control in private lawns. The company has previously developed a functioning prototype based on mechanical weed removal and has verified the general feasibility of automated weed control in grass areas. Based on technical and product-related learnings, the company is now developing a new version using laser technology and artificial intelligence.

The new concept requires a complete technical architecture around a compact weed-control module. The robot should be able to navigate a lawn, use cameras and computer vision to distinguish grass from unwanted plants, identify the position of the weed root and activate a targeted treatment module. The company has identified possible standard/OEM robotic platforms, but the system architecture, integration and prototype development still need to be defined.

The company is therefore looking for a technology partner that can support the broader engineering work needed to turn the concept into a prototype. The partner should be able to assist with system design, AI/computer vision, sensor integration, mechanical engineering, electrical engineering, enclosure design, battery management and safety-related circuitry.

The cooperation should lead to a clear technical specification, a prototype architecture and preferably a first working prototype. The partner may work together with a separate laser specialist or help integrate a laser module developed through a parallel R&D cooperation.

The requested cooperation is not a request for direct product sales. The company is seeking a technical development partner able to contribute know-how and engineering capacity to a new consumer-oriented robotic solution.

## Advantages and innovations

### Technical specification or expertise sought

The partner should be able to contribute expertise in several of the following areas:

- Computer vision and AI models for distinguishing grass from non-grass
- Image-based identification of weed position and root area
- Camera and sensor integration
- Robotic navigation for lawn environments
- Integration with modular or OEM robotic platforms
- Mechanical engineering and enclosure design
- Electrical engineering and wiring architecture
- Battery management
- Safety circuits and component placement
- System integration of laser, vision, navigation and power components
- Prototype design and testing
- Cost estimation for prototype and small-series production

The partner does not necessarily need to cover all competences in-house, but should be able to take responsibility for a substantial part of the system integration and prototype development.

### Stage of development

**Concept stage**

### IPR Status

**Secret know-how**

### IPR Notes

### Sustainable Development goals

• **Goal 11: Sustainable Cities and Communities**

## Partner Sought

### Expected role of the partner

The company is looking for an engineering company, robotics SME, technology SME or applied research organisation with experience in mobile robotics, embedded systems, AI vision or mechatronic product development.

The partner's role would be to help define the technical architecture, select components, integrate the relevant subsystems and support prototype development. The partner should be able to work in an iterative development

process and collaborate with other specialist partners if needed.

Partners from across the EU are relevant. There is particular interest in Poland, Germany, Eastern Europe, the Baltic countries and the Netherlands, but the profile is open to suitable partners from other countries.

#### Type of partnership

**Commercial agreement with technical assistance**

#### Type and size of the partner

- **SME 50 - 249**
- **SME <=10**
- **SME 11-49**

## Dissemination

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#### Technology keywords

- **01001001 - Automation, Robotics Control Systems**

#### Market keywords

- **09003001 - Engineering services**
- **08002004 - Robotics**

#### Targeted countries

- **All countries**

#### Sector groups involved