

## **Abstracts for the Video on an invention or innovation in IT**

### **English**

The remotely accessible greenhouse represents a significant innovation in agricultural technology. This video explores how this technology allows farmers to monitor and control their greenhouses from anywhere in the world using internet-connected devices. By utilizing sensors and automated systems, the greenhouse maintains optimal growing conditions, ensuring better crop yields and resource efficiency. For example, temperature, humidity, and soil moisture levels can be adjusted remotely to create the perfect environment for plant growth. This innovation not only enhances productivity but also supports sustainable farming practices by reducing water and energy consumption. The remotely accessible greenhouse is a transformative solution that addresses the challenges of modern agriculture.

### **Kiswahili**

Jumba la kijani linalopatikana kwa mbali linaonyesha uvumbuzi mkubwa katika teknolojia ya kilimo. Video hii inaelezea jinsi teknolojia hii inavyowaruhusu wakulima kufuatilia na kudhibiti majumba yao ya kijani kutoka popote duniani kwa kutumia vifaa vilivyounghanishwa na intaneti. Kwa kutumia sensa na mifumo ya kiotomatiki, jumba la kijani linadumisha hali bora za ukuaji, kuhakikisha mazao bora na ufanisi wa rasilimali. Kwa mfano, joto, unyevu, na viwango vya unyevunyevu wa udongo vinaweza kurekebishwa kwa mbali ili kuunda mazingira bora kwa ukuaji wa mimea. Uvumbuzi huu sio tu unaongeza uzalishaji bali pia unaunga mkono mbinu za kilimo endelevu kwa kupunguza matumizi ya maji na nishati. Jumba la kijani linalopatikana kwa mbali ni suluhisho la mabadiliko linaloshughulikia changamoto za kilimo cha kisasa.

### **Kikuyu**

Gĩciaro kĩa gĩthima kĩa kĩa kũndũmĩrĩrwo nĩ kũmenyithia wega wa mũnyũmba wa marigũ ya rũthiomi ndetoshi nĩ kĩa kĩa mĩciiryo ya thirikari. Iĩ video yĩonagia ũndũ wa mĩciiryo ĩno ĩrĩhaitha athĩĩ cĩa gũthondeka na gũthimĩra mĩnyũmba yotha ya marigũ ma acio tondũ ya mbea ya mbangĩko. ĩthondekithithania wega wa mahinda, gĩcamo, na ũme wa gĩthima, mũnyũmba wa marigũ ũtũraga wega wa gũcoka kũbithũka na kũrĩa mawega kũrĩa kũna na kũndũ gwa wega wa kuoya. Kũrĩa ĩcio, ũrĩa wĩra wĩrĩa na ũme wa gĩthima gĩcoka kũgũtha kũrĩa wega na mũnyũmba wa marigũ ũtũraga na gũcoka kũũrũra ũgĩko wa ithũri na mbea wa kũoya mĩtĩ. Gĩciaro kĩa kĩa kũndũmĩrĩrwo nĩ gĩkĩĩ ciuma na mĩciiryo ya kĩmuĩrĩrĩ nĩ gũthondeka mũnyũmba wa marigũ ũũndũ kĩa ciuma na mahinda na mbea.