



# Rub-X: Request for United Nations Custodianship

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## Executive Summary

Rub-X is a field-verified automation system for rubber tapping in hilly and remote plantations. It offers a safe, low-cost, and terrain-adaptable solution to a decades-long global problem — the absence of scalable automation in natural rubber harvesting. Independently developed without any public or government funding, Rub-X is currently listed on the WIPO GREEN platform and protected by international patents. The inventor now formally appeals to UN institutions such as WIPO or UNDP to provide neutral custodianship to help bring this public-interest technology to the regions that need it most.

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## 1. About Rub-X

Rub-X is an innovative cable-driven automation system designed for safe and efficient rubber tapping in complex terrains. It allows plantations in Asia, Africa, and Latin America to overcome energy, control, and labor constraints.

### Key Features:

- Exceptionally low cost of production and operation

- No dependence on complex power systems
- Reliable, terrain-adaptable performance
- Precisely controllable cutting mechanism

#### **Achievements to Date:**

- Patents granted in China, USA, Thailand, Vietnam, Indonesia, Malaysia, and India
  - "Rub-X" trademark officially registered
  - Functional prototype successfully developed and tested
  - Listed on the WIPO GREEN sustainability platform
  - Public information website launched: <https://www.rub-x.org>
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## **2. A Global Crisis with No Existing Alternative**

The natural rubber industry remains one of the last major global sectors without safe and scalable automation. Millions of rubber farmers still rely on hazardous, low-paying manual labor. This leads to:

- Widespread poverty and economic vulnerability
- Health risks from repetitive motion and toxic exposure
- Declining productivity and sustainability

Rub-X directly addresses these challenges, offering the first known verified solution that is cost-effective, proven, and adaptable across diverse environments.

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## **3. Why Custodianship is Urgently Needed**

Rub-X has completed the invention and functional validation stages, but its inventor lacks institutional resources to scale, deploy, or defend it globally. Without custodianship:

- The technology may be suppressed, appropriated, or lost
  - Vulnerable regions may continue to suffer from outdated, harmful labor practices
  - The UN's commitment to equitable innovation risks being undermined
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#### **4. Proposed Custodianship Scope**

Rub-X seeks custodianship by a neutral, globally trusted, non-commercial institution under the United Nations framework.

##### **Custodianship May Include:**

- Secure access to patent assets and technical documents
  - Hosting of Rub-X brand and bilingual materials
  - Optional technical consultation from the inventor
  - Framework for equitable licensing and responsible deployment
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#### **5. Neutrality and Independence Statement**

Rub-X was independently developed by inventor Hanmin Hu, with international patent application PCT/US2017/047543. The project has no affiliation with any national government, military, or public funding source. All IP is privately held.

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#### **6. Institutional Criteria**

Rub-X is open only to custodianship by:

- UN agencies (e.g., WIPO, UNDP, UNEP)
  - Globally respected, non-profit institutions with no commercial, state, or military interest
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## 7. Alignment with UN Goals

Rub-X contributes directly to the following Sustainable Development Goals (SDGs):

- **SDG 8:** Decent Work and Economic Growth
  - **SDG 12:** Responsible Consumption and Production
  - **SDG 13:** Climate Action
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## 8. Call to Action

We respectfully urge the United Nations and affiliated institutions to consider Rub-X a benchmark case for inclusive custodianship — where institutional support follows innovation that originates outside traditional power structures. The system is ready. The need is global. The time is now.

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