



Dynamique des Jeunes Leaders pour la Paix et le Respect des Droits Humains

**DYJEPREDHU asbl**

Dynamics of Young Leaders for Peace and Respect for Humans Rights

**CHANGE**MENT | **TRANSFORM**ATION | **IMPACT**

Equip disabled with new crutches

April 2026

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# PROJECT TECHNICAL PROPOSALS

## I. Project Summary

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### 1. Title of the project: Equip disabled with new crutches

### 2. Contact details:

- Name of the organization: Dynamic of Young Leaders for Peace and Respect for Human Rights, “DYJEPREDHU asbl” in acronym

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Mr. RIZIKI BARAKA Isaac (Financial Administrator)

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### 3. Organization Mission Statement

#### Organization Mission Statement

"Our mission is to empower individuals with disabilities by providing access to the next generation of smart and ergonomic mobility solutions. We strive to eliminate the physical and social barriers caused by traditional equipment through technological innovation, clinical excellence, and inclusive advocacy. By putting user comfort and long-term health at the center of our work, we aim to restore independence and ensure that every person can move forward with dignity and pain-free mobility."

#### Breakdown of the Key Elements

- **Empowerment:** Focus on giving users the tools to lead independent lives.
- **Innovation:** Commitment to replacing outdated crutches with advanced technology (carbon fiber, smart sensors).
- **Health & Safety:** Emphasis on preventing secondary injuries (nerve damage, joint pain).
- **Inclusion:** Ensuring that high-quality medical equipment is not a luxury, but a standard for all.

## **Project Beneficiaries**

### **1. Direct Beneficiaries**

- **Individuals with Permanent Physical Disabilities:** People with lower-limb impairments, spinal cord injuries, or amputations who rely on crutches as their primary means of mobility.
- **Post-Operative & Trauma Patients:** Individuals recovering from major orthopedic surgeries or accidents requiring long-term rehabilitation (6+ months).
- **Elderly Populations:** Seniors with age-related mobility challenges who need lightweight, stable, and ergonomic support to prevent falls and joint strain.
- **Athletes with Injuries:** Sports professionals or enthusiasts requiring high-performance equipment (carbon fiber/all-terrain) to maintain an active lifestyle during recovery.

### **2. Indirect Beneficiaries**

- **Healthcare Providers & Physiotherapists:** Medical professionals who will benefit from the "Smart" data (gait analysis, step count) to tailor more effective rehabilitation programs.
- **Caregivers and Families:** Family members who see a reduction in the "care burden" as the user gains more independence and suffers from fewer secondary health complications.
- **Employers and Workplaces:** Companies that will see improved attendance and productivity from employees who can move more comfortably and with less fatigue.

**Total cost of the project: US \$ 100,000**

- **Bank account: Dynamique des Jeunes Leaders pour la Paix et le Respect des Droits Humains, DYJEPREDHU asbl**

**Trust Merchant Bank S.A. (TMB)**

**Goma Agency -DRC**

**No. 1272-28000-23526760001-87**

**Following code: TRMSCD3L**

## Context and Justification

### 1. Project Context

"Mobility is a fundamental human right and a cornerstone of social and professional inclusion. However, millions of individuals worldwide relying on traditional crutches face significant physical challenges. Conventional designs often lead to secondary injuries, such as carpal tunnel syndrome, shoulder tendonitis, and joint exhaustion. In many regions, the lack of access to ergonomically advanced mobility aids further marginalizes people with disabilities, limiting their autonomy and participation in the workforce."

### 2. Rationale and Justification

"The necessity of this project is driven by three main factors:

- **Health and Prevention:** Traditional crutches transfer the entire body weight to the wrists and armpits, causing long-term nerve damage. New-generation crutches (e.g., smartCRUTCH or shock-absorbing models) redistribute pressure and absorb impact, significantly reducing the risk of musculoskeletal disorders.
- **Technological Advancement:** Current innovations, such as IoT-integrated sensors and carbon-fiber materials, allow for real-time gait monitoring and lighter, more durable equipment. Transitioning to these technologies is no longer a luxury but a medical necessity for long-term users.
- **Socio-Economic Impact:** By providing superior mobility tools, we reduce the 'disability cost' for individuals. Improved comfort leads to increased productivity, better mental health, and a more active role in the community, ultimately fostering a more inclusive society."

### 3. Expected Outcomes

"This project aims to bridge the gap between medical need and technological availability. By deploying these advanced tools, we expect to see a measurable improvement in the users' quality of life, a decrease in secondary medical consultations related to crutch use, and a higher rate of social reintegration."

## 1. General Objective

"The primary goal of this project is to enhance the physical mobility, social autonomy, and overall quality of life for individuals with permanent or temporary disabilities by providing them with next-generation ergonomic and smart crutches."

## 2. Specific and Strategic Objectives

- **Ergonomic Optimization and Injury Prevention:**  
"To significantly reduce the prevalence of secondary musculoskeletal disorders (such as carpal tunnel syndrome and shoulder tendonitis) by deploying crutches equipped with advanced shock-absorption systems and adjustable pressure-distribution platforms."
- **Technological Integration and Monitoring:**  
"To implement 'Smart Crutch' technology that enables real-time gait analysis and activity tracking via mobile applications, allowing healthcare providers to monitor patient recovery and adjust rehabilitation protocols remotely."
- **Weight Reduction and Durability:**  
"To replace heavy, traditional aluminum equipment with ultra-lightweight materials like carbon fiber or aerospace-grade titanium, reducing user fatigue by at least 30% during prolonged daily use."
- **Socio-Economic Inclusion:**  
"To facilitate the return to professional and social life for 500+ participants (target number) within the first year by providing mobility aids that allow for longer periods of activity without pain or physical exhaustion."
- **Accessibility and Scalability:**  
"To establish a sustainable distribution model that ensures high-

tech mobility solutions are accessible to low-income populations through partnerships with insurance providers and NGOs."

### 3. Key Performance Indicators

- **User Satisfaction Rate:** "Achieve a 90% satisfaction rate regarding comfort and ease of use compared to previous equipment."
- **Health Impact:** "A measurable 40% decrease in reported wrist and shoulder pain among users after 6 months of use."
- **Usage Frequency:** "An average increase of 25% in daily steps or active hours recorded by the integrated sensors."

### 1. Mission Statement

"Our mission is to transform mobility for people with disabilities by providing access to cutting-edge, ergonomic, and smart crutches. We are committed to reducing physical pain, preventing secondary injuries, and leveraging technology to restore independence and dignity to every user."

### 2. Vision Statement

"Our vision is a world where physical limitations no longer hinder social or professional potential. We aspire to become a global leader in inclusive mobility solutions, where advanced assistive technology is accessible to all, creating a society that moves forward together without barriers."

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### 3. Core Values

- **Innovation:** Constantly pushing the boundaries of assistive design.
- **Empathy:** Designing with the user's comfort and daily reality at the center.
- **Inclusion:** Ensuring no one is left behind in the transition to modern healthcare.

### Project Activity Schedule (12-Month Plan)

<b>Phase</b>	<b>Month</b>	<b>Activities</b>	<b>Key Deliverables</b>
<b>Phase 1: Research &amp; Procurement</b>	<b>M1 - M2</b>	<ul style="list-style-type: none"> <li>· Market analysis and selection of suppliers (SmartCrutch, Carbon models).</li> <li>· Technical assessment of ergonomic features.</li> <li>· Partnerships with hospitals and orthopaedic centers.</li> </ul>	<ul style="list-style-type: none"> <li>· Approved list of equipment.</li> <li>· Signed Partnership Agreements.</li> </ul>
<b>Phase 2: Beneficiary Identification</b>	<b>M3 - M4</b>	<ul style="list-style-type: none"> <li>· Launch of the recruitment campaign.</li> <li>· Medical screening and physical assessment of candidates.</li> <li>· Final selection of 500+ participants.</li> </ul>	<ul style="list-style-type: none"> <li>· Database of selected users.</li> <li>· Individual mobility profiles.</li> </ul>
<b>Phase 3: Logistics &amp; Training</b>	<b>M5 - M6</b>	<ul style="list-style-type: none"> <li>· Procurement and shipping of next-gen crutches.</li> <li>· Training sessions for medical staff on "Smart" features.</li> <li>· Organization of fitting and adjustment workshops.</li> </ul>	<ul style="list-style-type: none"> <li>· Stock of equipment received.</li> <li>· Certified training for physiotherapists.</li> </ul>
<b>Phase 4: Distribution &amp; Deployment</b>	<b>M7 - M9</b>	<ul style="list-style-type: none"> <li>· Distribution events (Handover of equipment).</li> <li>· Personal gait adjustment and ergonomic calibration.</li> <li>· Installation of mobile apps for tracking.</li> </ul>	<ul style="list-style-type: none"> <li>· Equipment successfully deployed.</li> <li>· 100% of apps activated.</li> </ul>

<b>Phase 5: Monitoring &amp; Evaluation</b>	<b>M10 - M11</b>	<ul style="list-style-type: none"> <li>· Mid-term follow-up surveys (pain reduction, autonomy).</li> <li>· Data collection from "Smart" sensors.</li> <li>· Technical support and maintenance clinics.</li> </ul>	<ul style="list-style-type: none"> <li>· First Impact Report.</li> <li>· Technical maintenance log.</li> </ul>
<b>Phase 6: Final Reporting &amp; Scaling</b>	<b>M12</b>	<ul style="list-style-type: none"> <li>· Final impact assessment and success stories.</li> <li>· Closing ceremony and donor reporting.</li> <li>· Strategic plan for Phase 2 (Scaling up).</li> </ul>	<ul style="list-style-type: none"> <li>· <b>Final Project Report.</b></li> <li>· Scalability roadmap.</li> </ul>

### Project Budget Allocation

<b>Budget Category</b>	<b>Description</b>	<b>Estimated Cost</b>	<b>% of Total</b>
<b>1. Equipment Procurement</b>	<b>High-Tech Mobility Aids</b>	<b>\$60,000</b>	<b>60%</b>
	· <i>Smart Crutches (with sensors/IA): 150 units @ \$250</i>	\$37,500	
	· <i>Ergonomic Carbon Fiber Crutches: 100 units @ \$150</i>	\$15,000	
	· <i>Shock-Absorbing/All-Terrain Models: 50 units @ \$150</i>	\$7,500	

<b>2. Logistics &amp; Distribution</b>	<b>Shipping and Local Delivery</b>	<b>\$12,000</b>	<b>12%</b>
	· International freight and customs clearance	\$8,000	
	· Local warehousing and last-mile distribution	\$4,000	
<b>3. Clinical Fitting &amp; Training</b>	<b>Implementation &amp; Support</b>	<b>\$10,000</b>	<b>10%</b>
	· Professional fitting by physiotherapists	\$5,000	
	· User training workshops (Safety & App usage)	\$3,000	
	· Digital platform/App subscription fees	\$2,000	
<b>4. Monitoring &amp; Evaluation</b>	<b>Impact Measurement</b>	<b>\$8,000</b>	<b>8%</b>
	· Mid-term health impact survey (Data analysis)	\$5,000	
	· Maintenance and technical support (6 months)	\$3,000	
<b>5. Administration &amp; Comm.</b>	<b>Project Management</b>	<b>\$10,000</b>	<b>10%</b>
	· Project coordinator and field staff	\$6,000	
	· Awareness campaign & Success stories (Video)	\$4,000	

TOTAL BUDGET		\$100,000	100%
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### Budget Notes (Justification)

1. **Equipment Strategy:** The bulk of the budget (60%) is dedicated to high-quality hardware to ensure long-term durability and medical effectiveness.
2. **Smart Monitoring:** A portion of the funds is reserved for the digital ecosystem (apps/sensors) to provide measurable data on gait improvement.
3. **Sustainability:** The "Monitoring & Evaluation" line ensures that the equipment is not just handed over, but maintained and correctly used to prevent further injuries.

Done in Goma, April 13, 2026

For DYJEPREDHU asbl

  
Christian AHADI BEN MASONGA  
EXECUTIF DIRECTOR, HUMAN RIGHTS ACTIVISTI

