

Enabling Accessible Prosthetic Hands





















Did you know that 80% of disabled persons live in low/middle income countries, some below the poverty line and without access to adequate medical care?



are in need of a prosthetic/orthotic



live in low/middle income countries

80% ~ 32 million persons







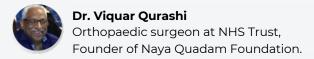
Social Exclusion

Economic Exclusion

Difficult Living Conditions



PATIENTS STRUGGLE TO REACH CLINICS, SOLUTIONS STRUGGLE TO REACH PATIENTS.





Challenge

Despite efforts of government and aid organizations – technological and infrastructure problems remain.

Prosthetic Hands lack robustness, affordability, local manufacturing, and customization.





Otto Bock >50.000 €

Jaipur Hand < 300 €

EnHands Prosthetics



Cosmetic <10 € *



Functional < 50 €*

Tailored for low income regions

Adaptable to gender and age

User Feedback through local partners

Sustainable design with local manufacturing

Who are we?

EnHands E.V. A Non-profit Initiative consisting of ~20 students, graduates and researchers from engineering biomechanics, and economics situated at Technical University of Munich.









































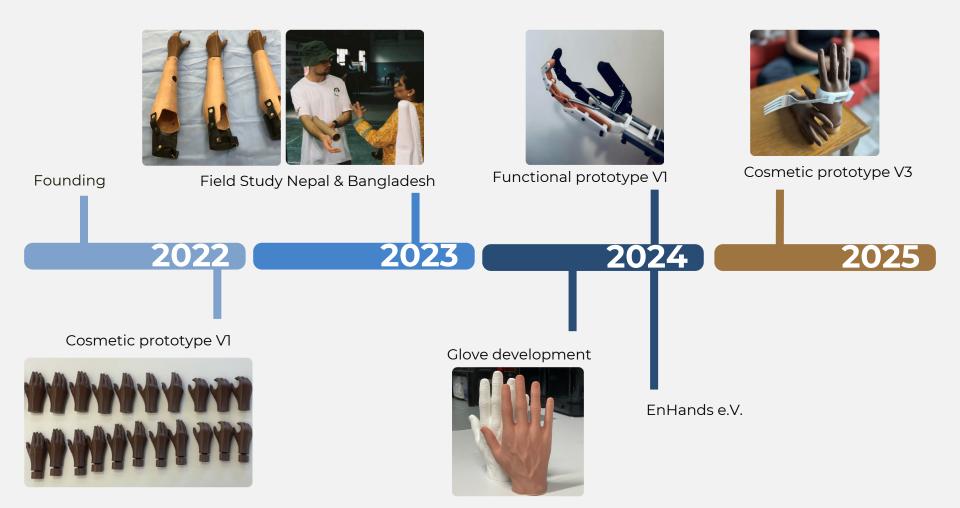


Our Mission

develop **accessible**, cost-effective, robust, and functional **prostheses** for people in economically disadvantaged regions, utilizing sustainable, locally available materials and manufacturing methods.

> We develop innovative solutions for the 80%





Cosmetic Prototype

Our **3D printed**Prototypes were
modeled after a 3D
scan of a child's hand.

20 prosthesis were given to amputees free of charge.

Our local collaborators
Naya Qadam helped us
distribute them in
Nepal and Bangladesh
to assess the user
acceptance.



Cosmetic Prototype

Based on this **user feedback** we developed the next iteration.

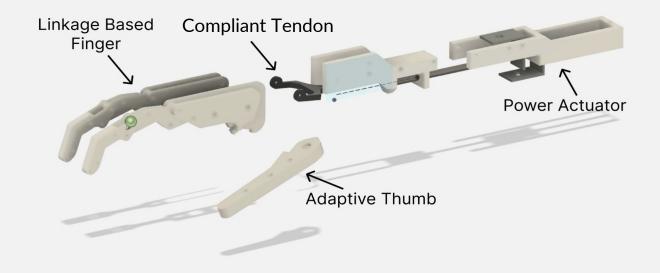
The new design utilizes a **skin-like** structure using silicone, with a PU foam core capable of **local manufacturing.**



Functional Prototype

The mechanism uses a **simple but smart** design with a compliant tendon and an adaptive thumb.

Let's get functional!



Functional Prototype

This enables three different grasping types and local manufacturing with sheet metal, while the outside gets a skin-like appearance via a silicone glove.



What's Next?

Prototyping

Constant advancements of the functional and cosmetic prototype.

Manufacturing

Of 50 functional prototypes for Pakistan Camp 2025.

Field Studies

To enable a User-centered design.

Lab Tests

To evaluate the robustness of materials and mechanisms.

Collaborations

Increase our network of local Partners.

THAT'S WHERE WE NEED YOUR HELP!

Give a hand, make an impact!





How to help?

DONATE - SPONSOR - BECOME AN ENHANDER

You can help fund our prototyping by donating to our bank account — any amount is appreciated.

EnHands e.V.

IBAN: DE74 8306 5408 0005 4605 90

BIC: GENODEFISLR



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EMBRACE Sponsor

donation 50 € (1 hand)

benefits

 Regular development updates on our projects and initiatives donation 1000 € or more

benefits

- Regular development updates on our projects and initiatives
- Promotion on our website

donation 2500 € or more

benefits

- Regular development updates on our projects and initiatives
- Prominent promotion on our website
- Social media presence
- Dedicated blog post
- Sponsor logo prominently featured at all EnHands events

Thank You!

















































