

# Team 3

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**3 million**

**new amputations**  
each year

# Artificial limb with haptic feedback

## TEAM SUPERHUMANS

Aaron Vaquero, Estela Álvarez, Gabriel Marí, Miguel  
Tarancón

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# Who?

Many causes

- Wars
- Accidents
- Malformations
- Diseases



# Why?

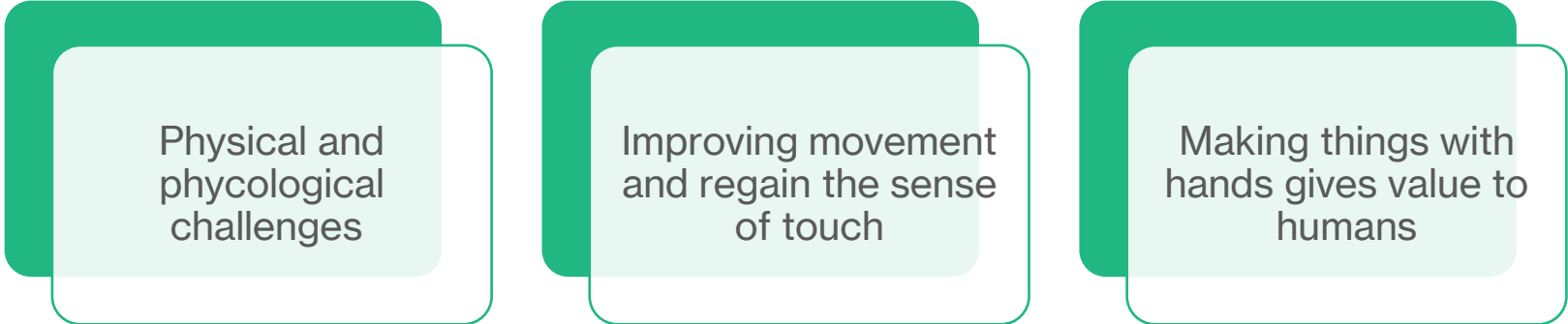


Where are they

- All social classes
- Around the world



# What are we trying to solve



Physical and  
psychological  
challenges

Improving movement  
and regain the sense  
of touch

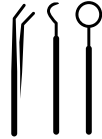
Making things with  
hands gives value to  
humans

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# Limitations of current prosthesis



Limited  
movements



Intrusive  
cases



Low  
precision



No sense  
of touch

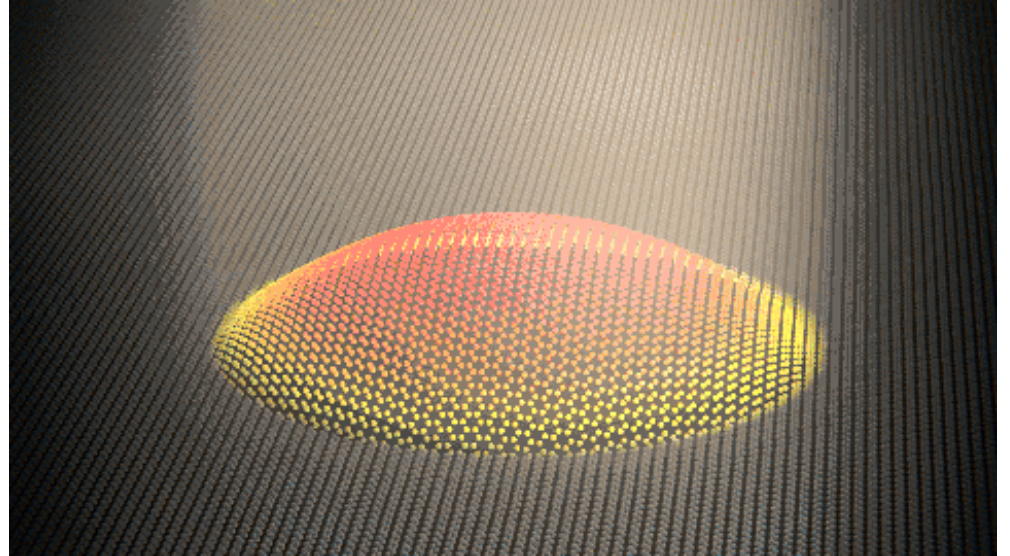
MEGAMORPH could solve all these problems

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# What is Megamorph and how it works?

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What comes up to your  
mind when you think of a  
functional arm?

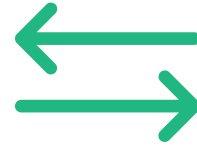
**MOVEMENT**



Scan muscle  
activity.



Neural networks.

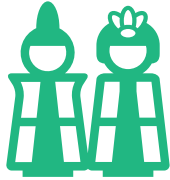


Desired  
movement.

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What comes up to your  
mind when you think of a  
functional arm?

**SENSATIONS**



"Artificial skin"



Map the contact



Detect the  
pressure applied







# Simplify Daily Tasks





THANK YOU!

