



# HUST

**TRƯỜNG ĐẠI HỌC BÁCH KHOA HÀ NỘI**  
HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

ONE LOVE. ONE FUTURE.



TRƯỜNG ĐẠI HỌC  
BÁCH KHOA HÀ NỘI  
HANOI UNIVERSITY  
OF SCIENCE AND TECHNOLOGY

# TƯ DUY CÔNG NGHỆ VÀ THIẾT KẾ KỸ THUẬT

## Technology and Technical Design Thinking

**ET3262**

PGS. TS. Đỗ Trọng Tuấn

Trường Điện - Điện tử \* Đại học Bách Khoa Hà Nội

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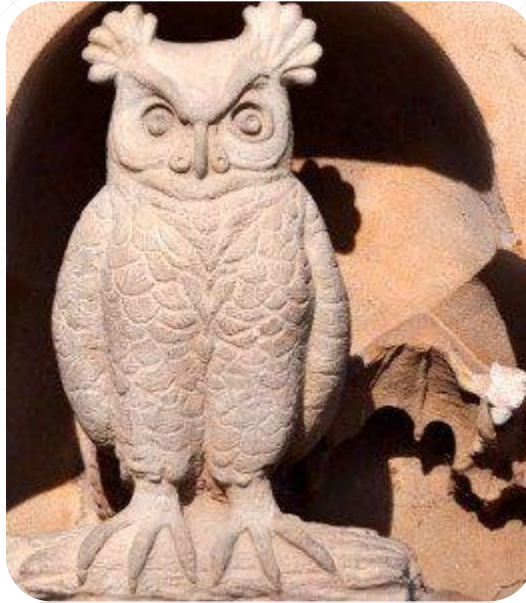
[fb.com/dhbkhn](https://fb.com/dhbkhn)

# Design Thinking



DESIGN THINKING

# Technology and Technical Design Thinking

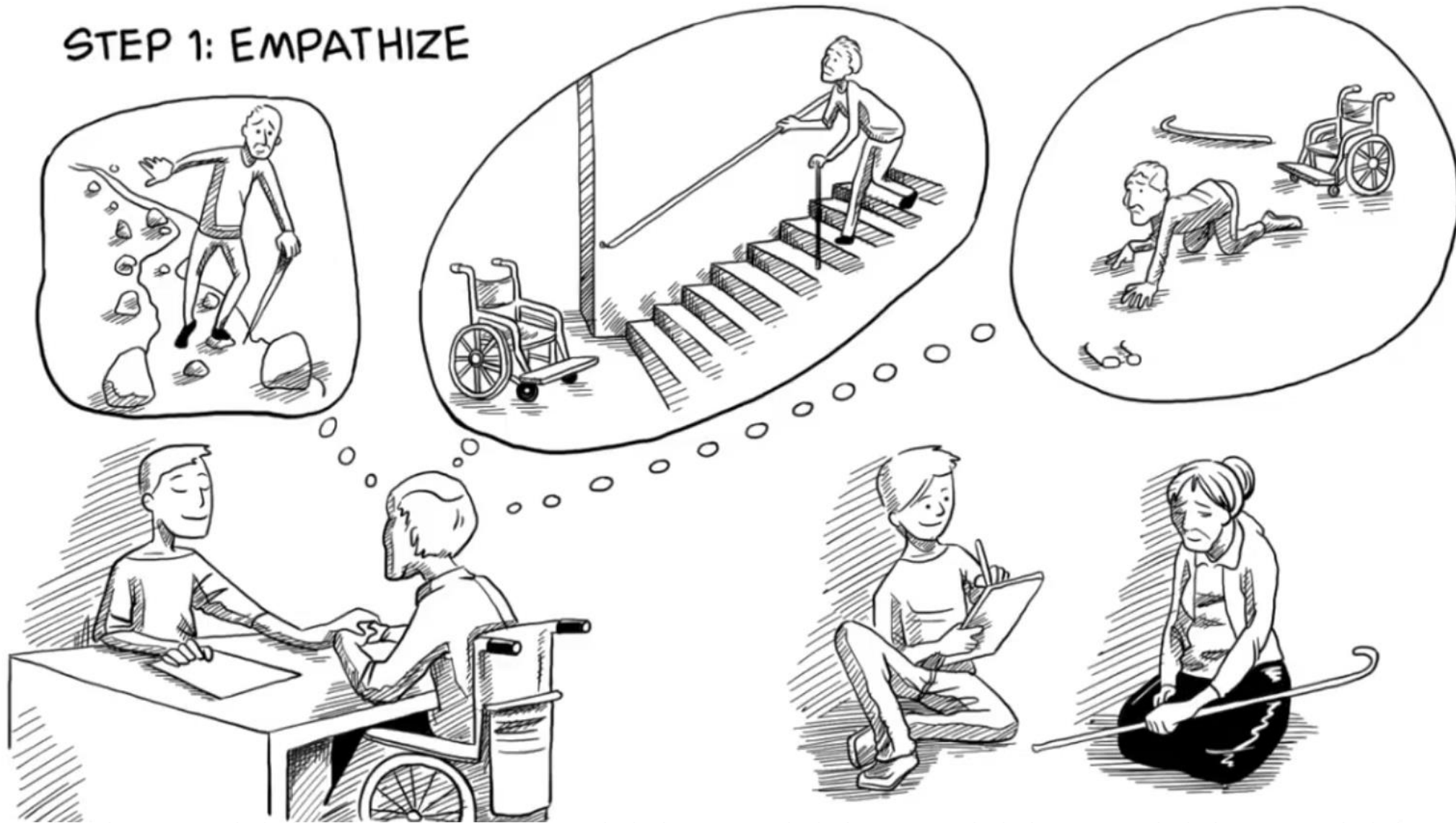


**Stories engage people and aid researchers  
in identifying patterns and trends**



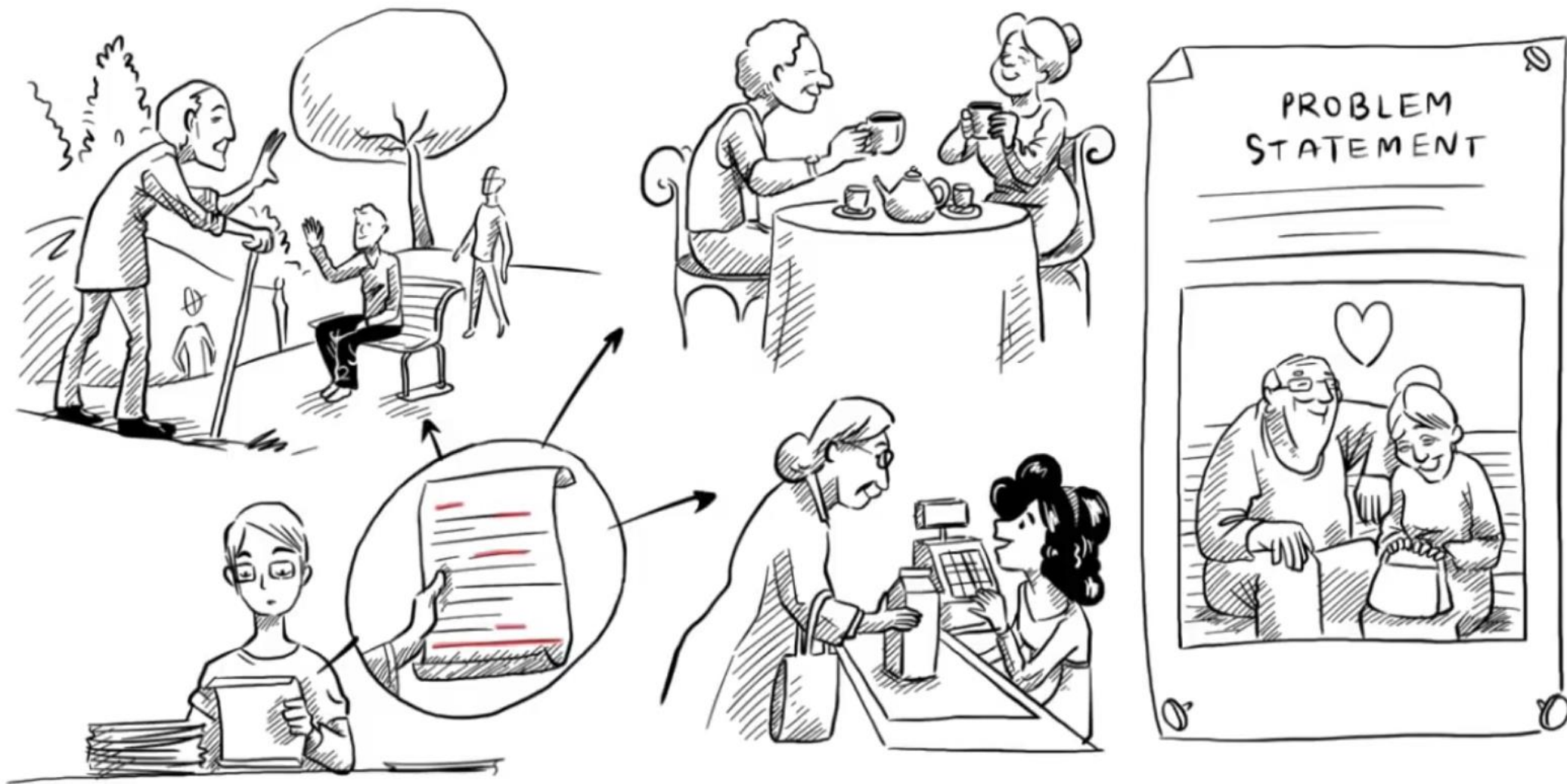
# Technology and Technical Design Thinking

## STEP 1: EMPATHIZE



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## STEP 2: DEFINE THE PROBLEM



# Technology and Technical Design Thinking

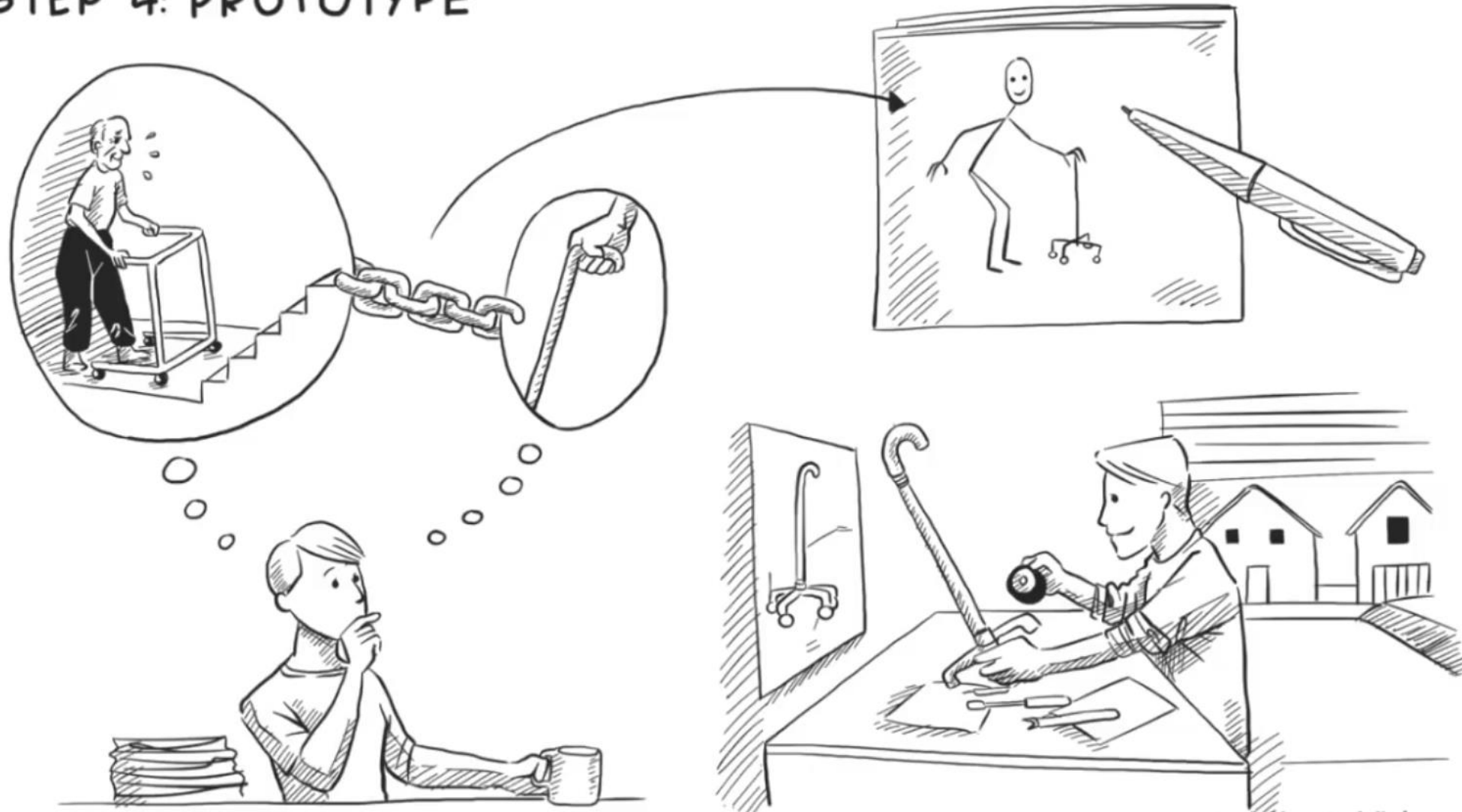
## STEP 3: IDEATE





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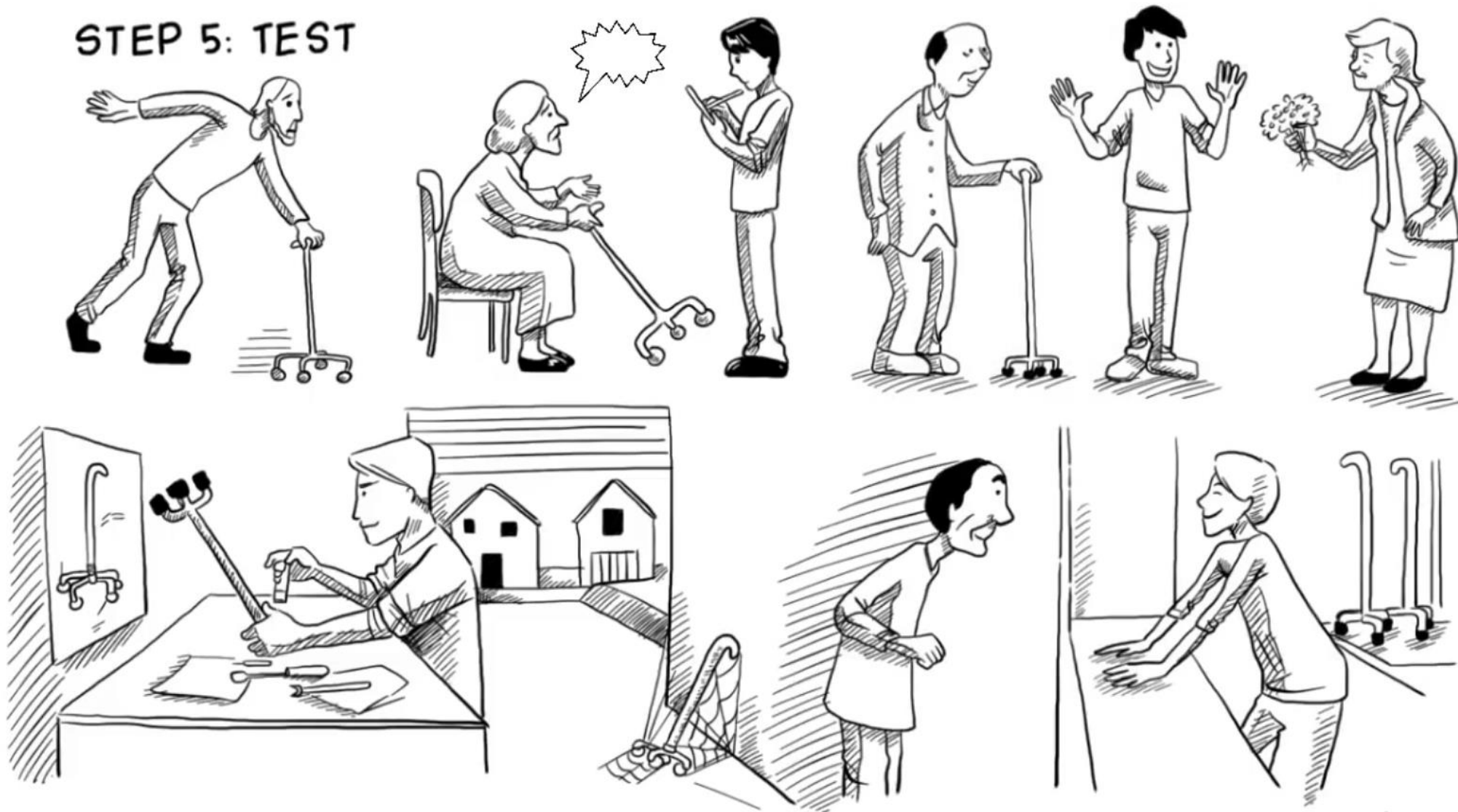
## STEP 4: PROTOTYPE





# Technology and Technical Design Thinking

## STEP 5: TEST



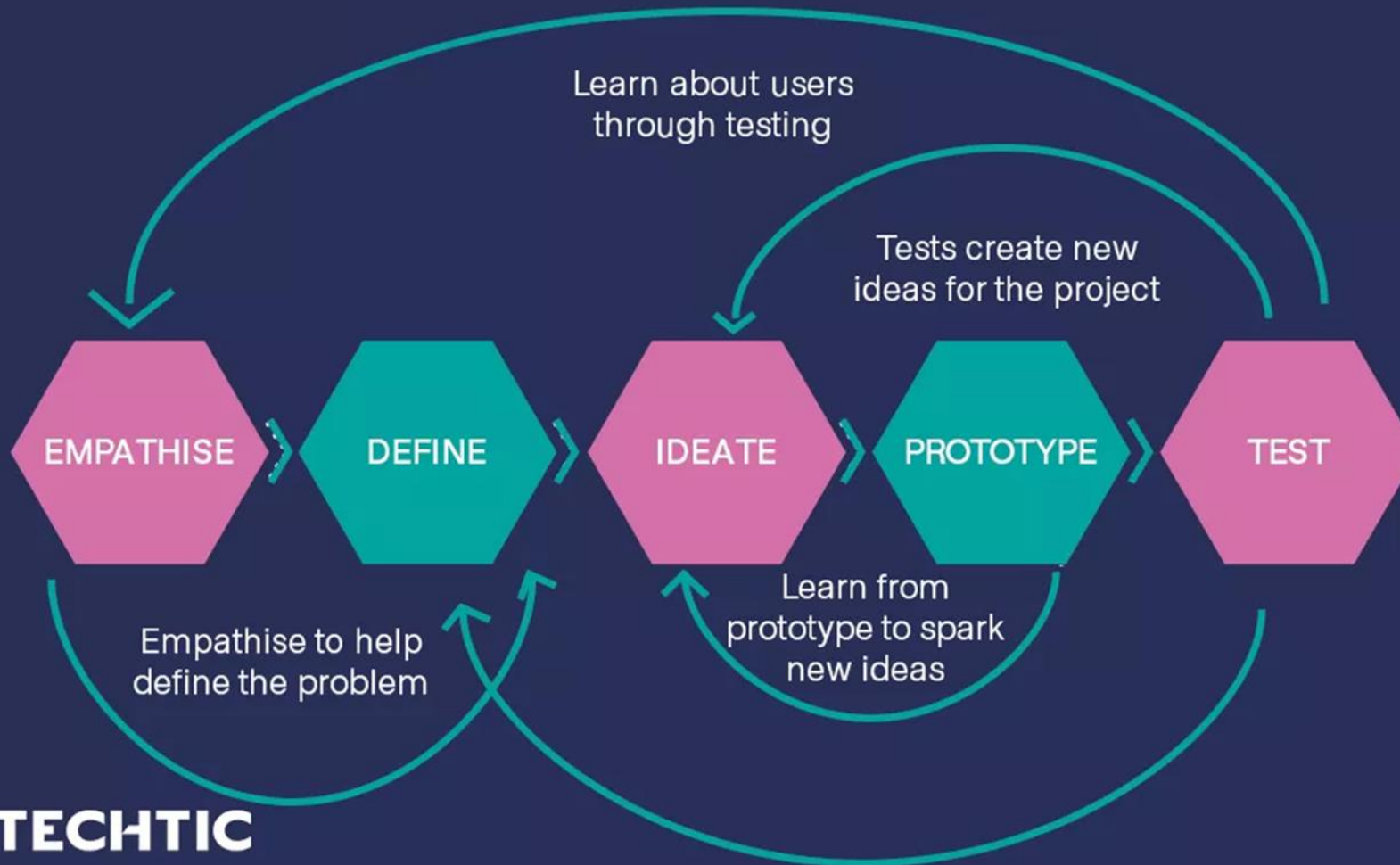
## learning by failing

**F**IRST  
**A**TTEMPT  
**I**N  
**L**EARNING



# Technology and Technical Design Thinking

## DESIGN THINKING: A NON-LINEAR PROCESS



**TECHTIC**



# Technology and Technical Design Thinking



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