

# In-home Support via Sensors, Big Data, IoT and AI

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Sensors + Big Data +  
IoT + AI = ?



# In-home Support

= ?



The power of

IoT + AI + ...

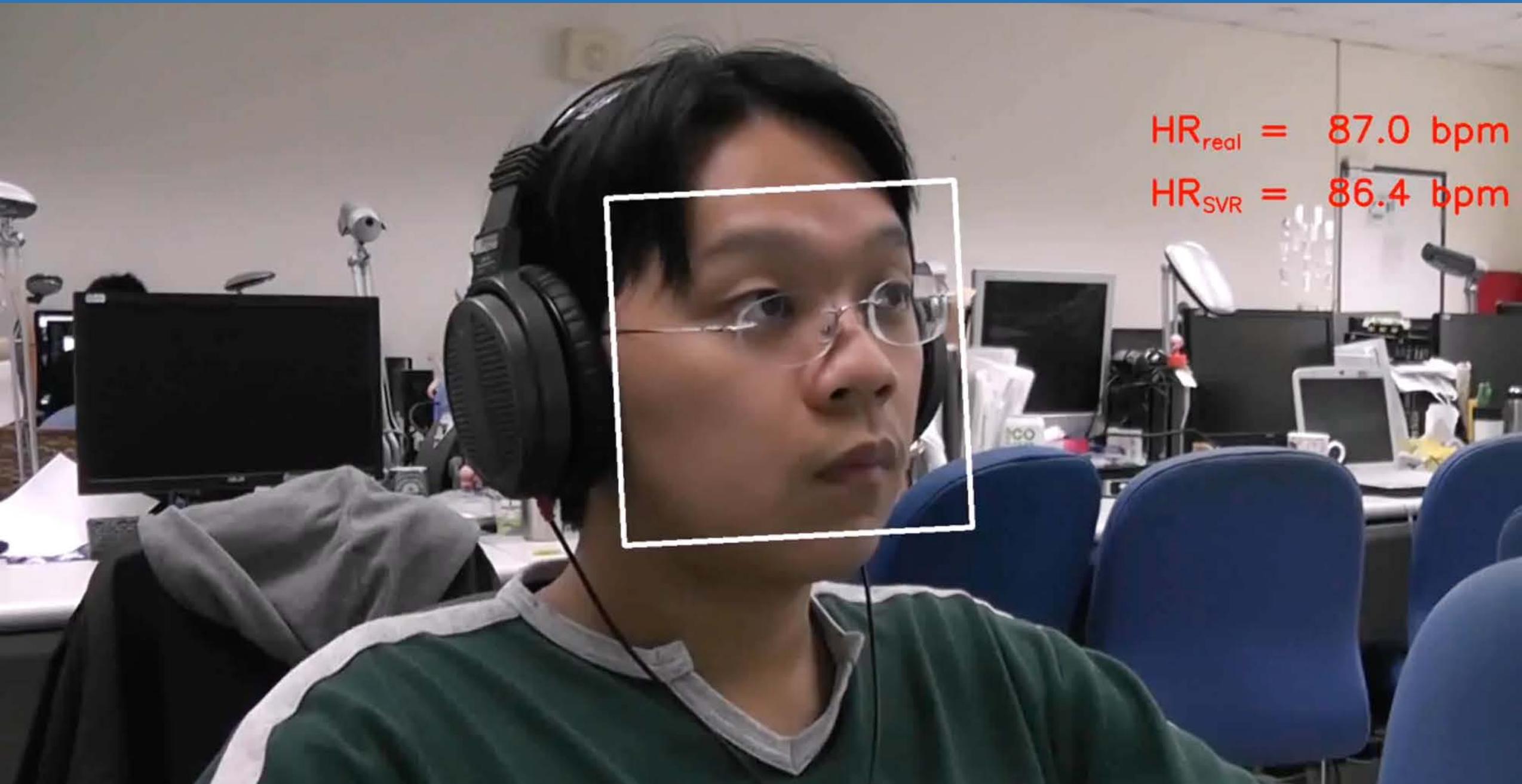
# A Glimpse of Latest Technologies



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$HR_{real} = 87.0 \text{ bpm}$

$HR_{SVR} = 86.4 \text{ bpm}$

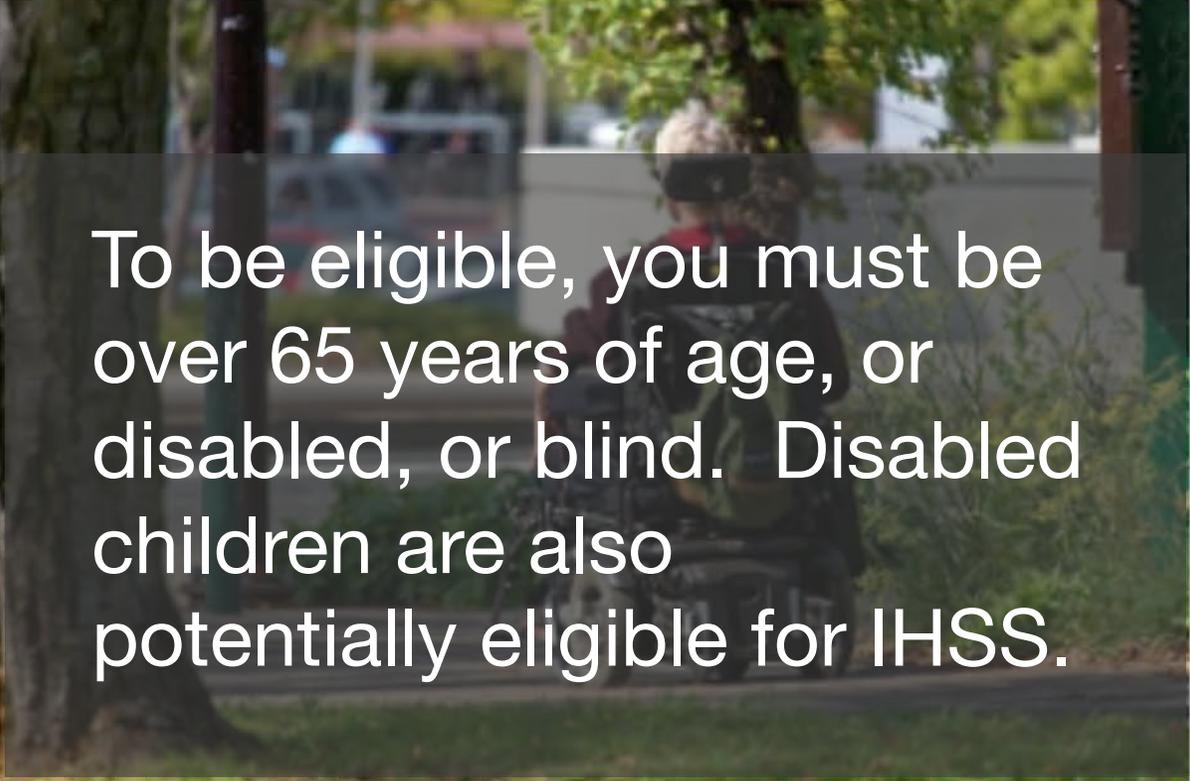
# A Glimpse of Latest Technologies



Who are we serving?

What do they need?

## In-Home Supportive Services (IHSS) Program

A photograph of a person in a wheelchair outdoors, with a semi-transparent text box overlaid on the image. The person is wearing a dark jacket and a hat, and is positioned in front of a building and trees.

To be eligible, you must be over 65 years of age, or disabled, or blind. Disabled children are also potentially eligible for IHSS.

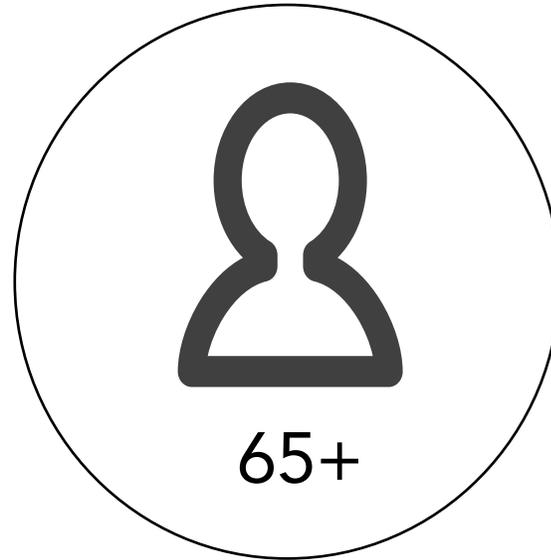
- housecleaning
- meal preparation
- laundry
- grocery shopping
- personal care services (bowel & bladder care, bathing, grooming and paramedical services)
- accompaniment to medical appointments
- protective supervision for the mentally impaired

## In-Home Supportive Services (IHSS) Program

- 
- A photograph of an elderly person with white hair, wearing a dark jacket, sitting in a wheelchair on a paved path. The person is facing away from the camera, looking towards a building and trees in the background. The image is slightly blurred, suggesting motion or a shallow depth of field.
- old-age
  - physically impaired

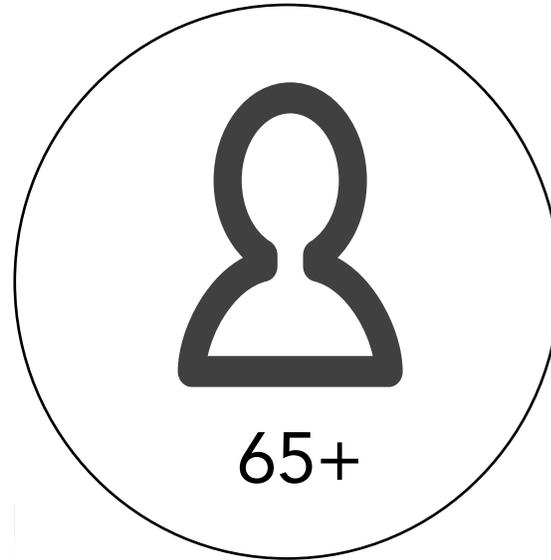
- daily chores
- physical healthcare
- logistics
- protective supervision
- **social-emotional needs**

# What can AI + IoT + Sensors + Big Data offer?



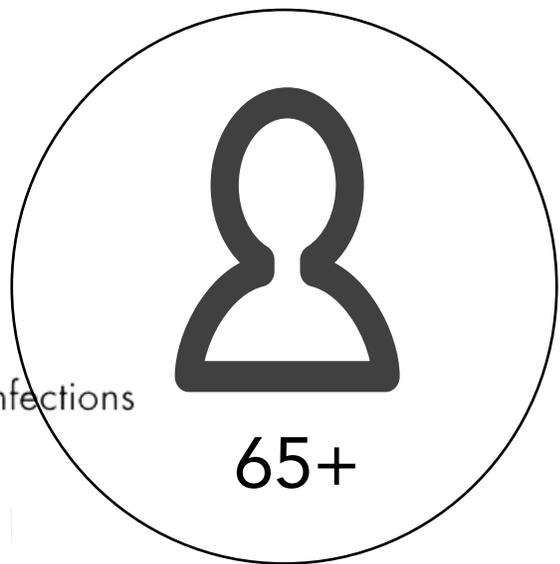
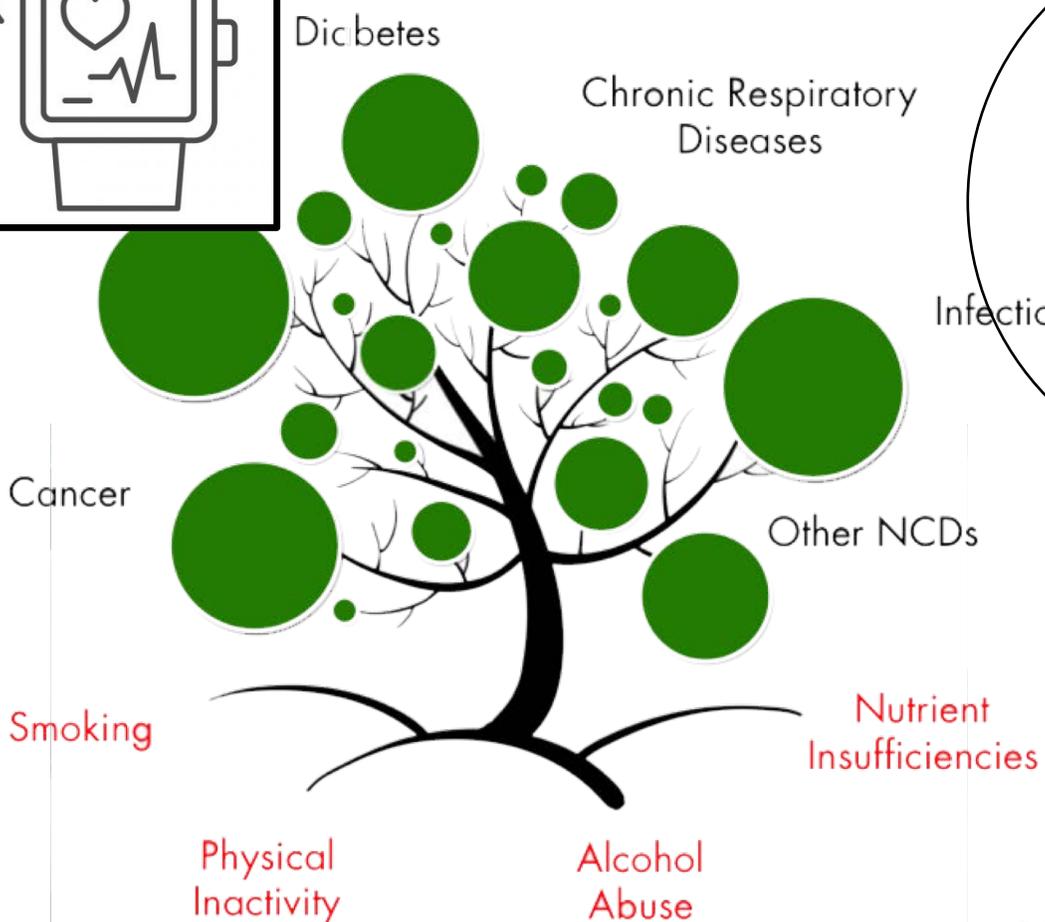
# The Trivial Ones

## Chores



# The Trivial Ones

## Preventive Healthcare



## Telemedicine



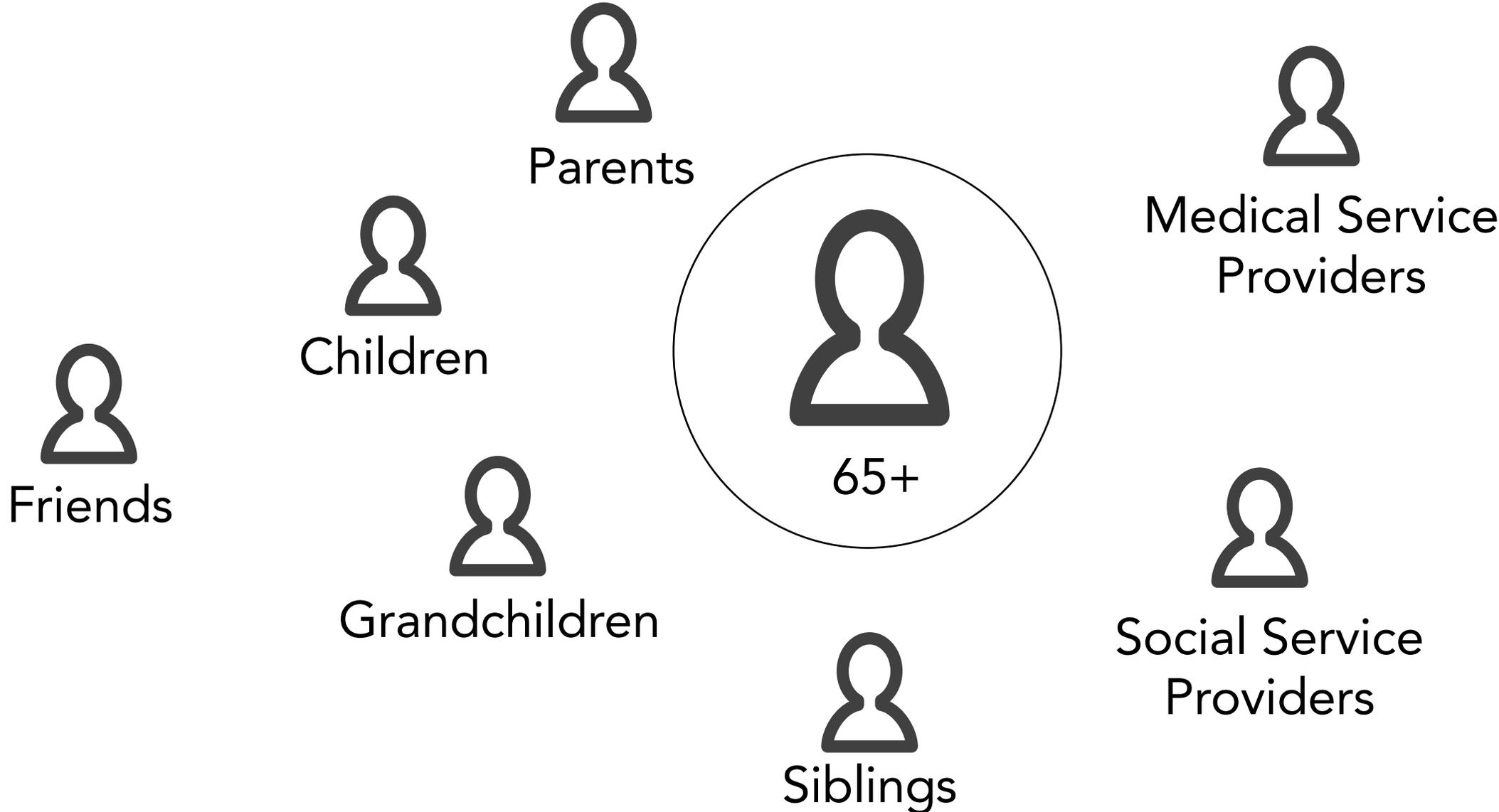
## Alerts



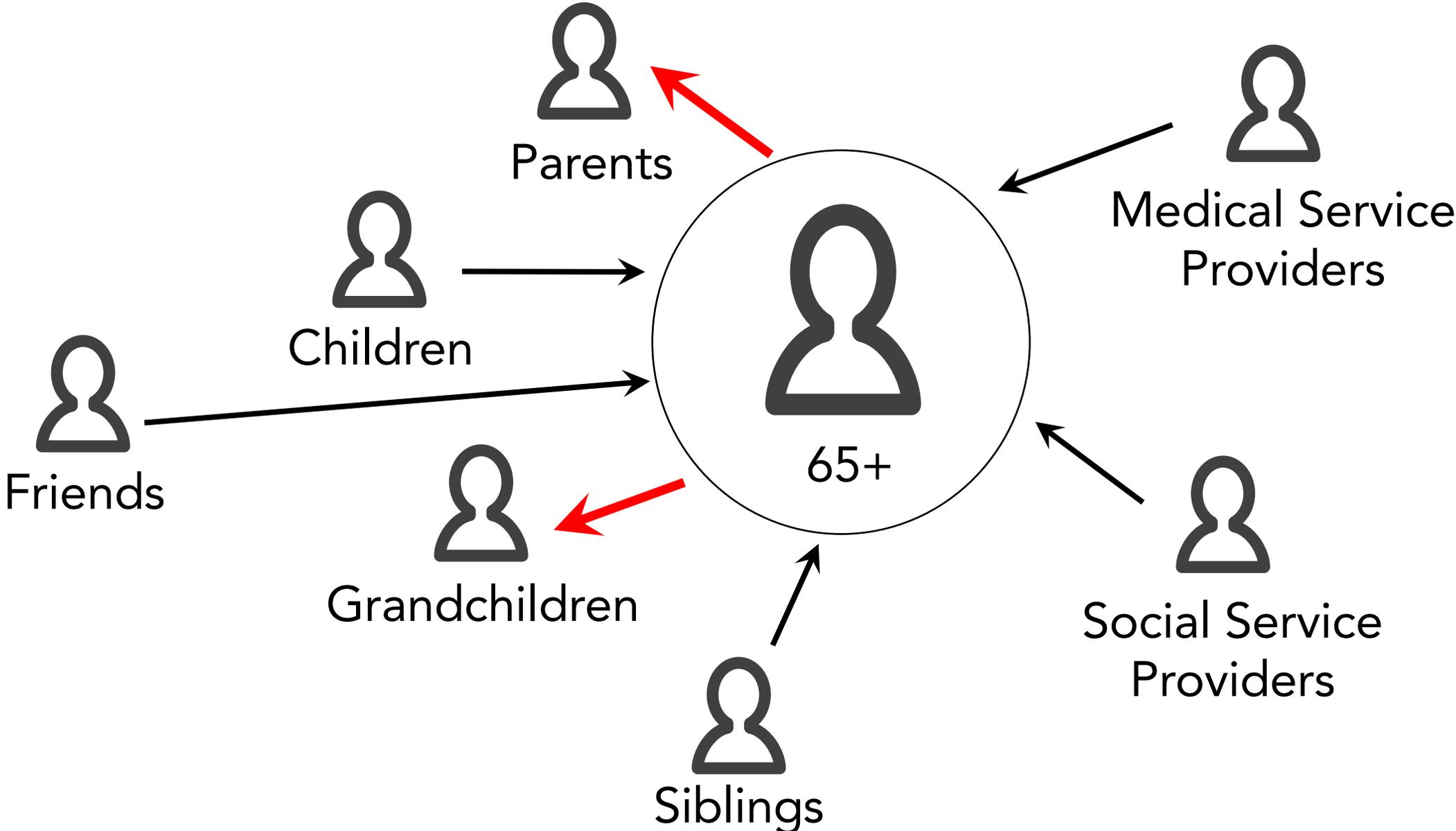
That's it ?

Is it Sustainable?

# Other Stakeholders in the Whole Picture



# Offering values TO or VIA other stakeholders?



# How Might We

- empower everyone in the community to be a caregiver (with rewards)?

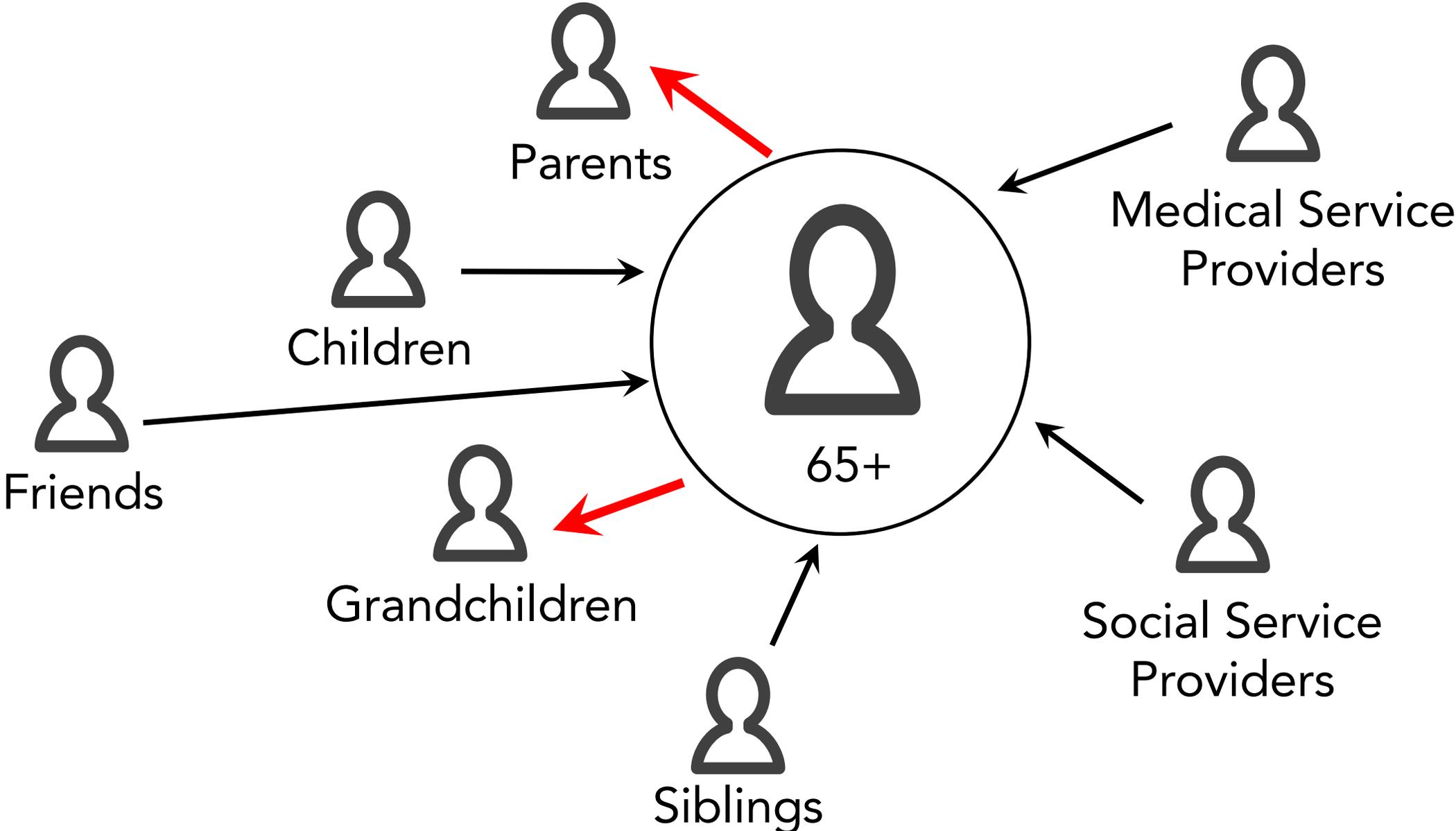
# How Might We

- enable an Uber-like  
in-home supporting service?

# How Might We

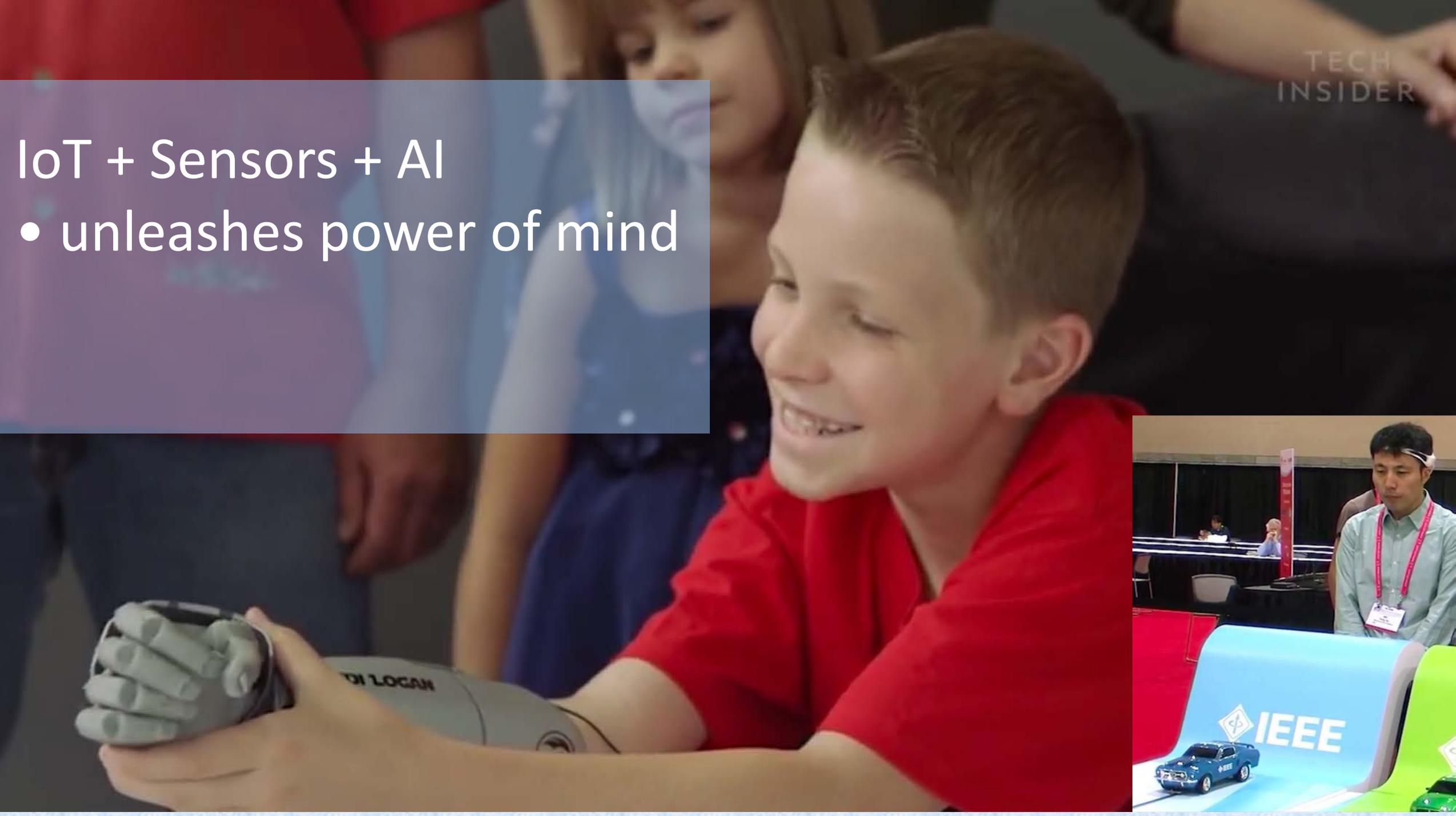
- transform the person being looked after into a caregiver as well?

# IoT + AI preserves the most valuable in human beings



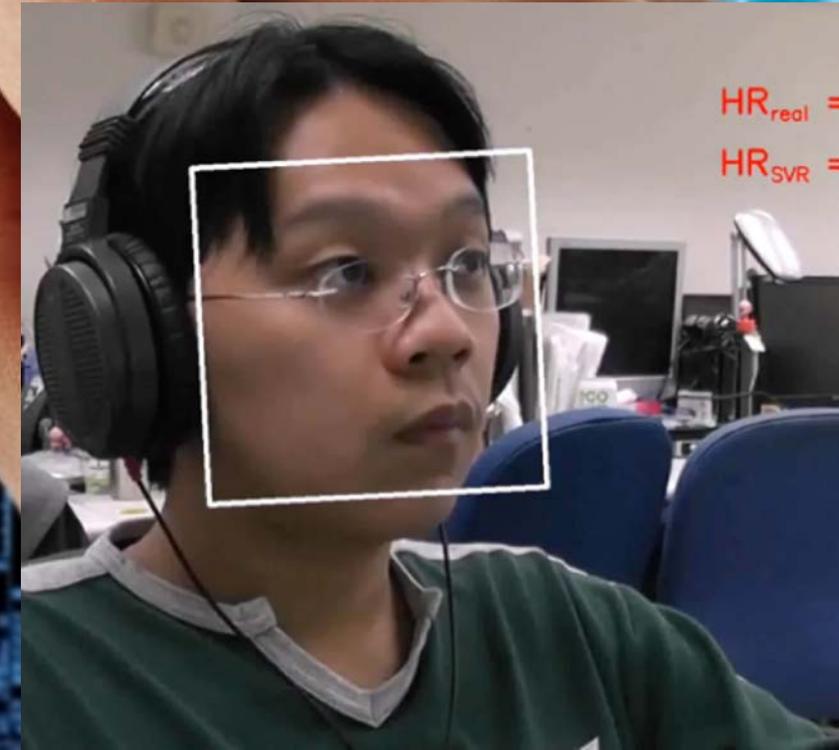
# IoT + Sensors + AI

- unleashes power of mind



IoT + Sensors + Big Data + AI

- transforms normal people into specialists / professionals





Hong Kong Internet of Things Alliance

**Thank you very much**

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