

Ausili e strumenti per migliorare la qualità della vita

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Ageing research is an area of great social, political and economic importance for the European Union...

I want to re-focus research and innovation policies very clearly on developing a coherent strategic research agenda which will tackle the grand societal challenges, which include both the promotion of healthy living and healthy ageing...

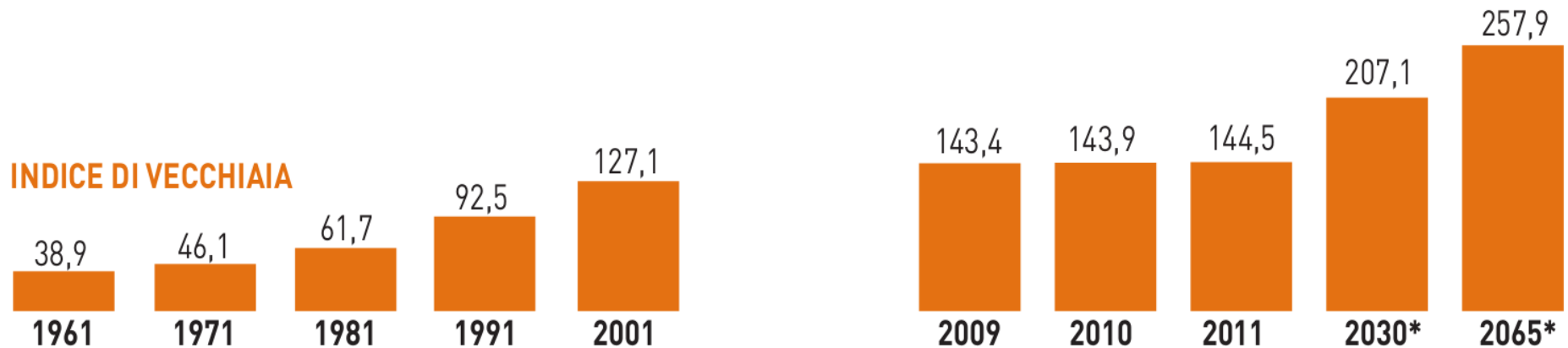
These challenges can only be confronted if innovative and multi-disciplinary approaches are taken.

*Maire Geoghegan-Quinn
Commissario Europeo per la Ricerca e l'Innovazione*



INDICATORI DEMOGRAFICI

Censimenti 1961-2001 e 1° gennaio 2009-2065



Indice di vecchiaia: rapporto tra la popolazione oltre i 65 anni e la popolazione fino a 14 anni di età per 100



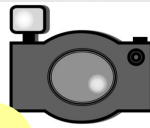
Live Longer

Live Better



**Inventare e tradurre
IDEE CREATIVE**
*in soluzioni
tecnologiche*
che permettano di
**migliorare la qualità
della vita delle persone**





Dispositivi analogici,
macchine foto e prime
telecamere

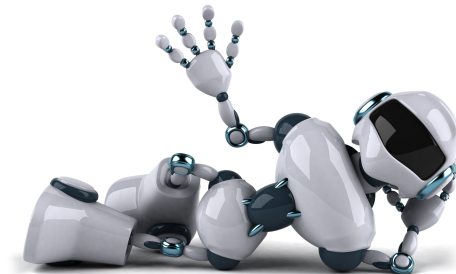


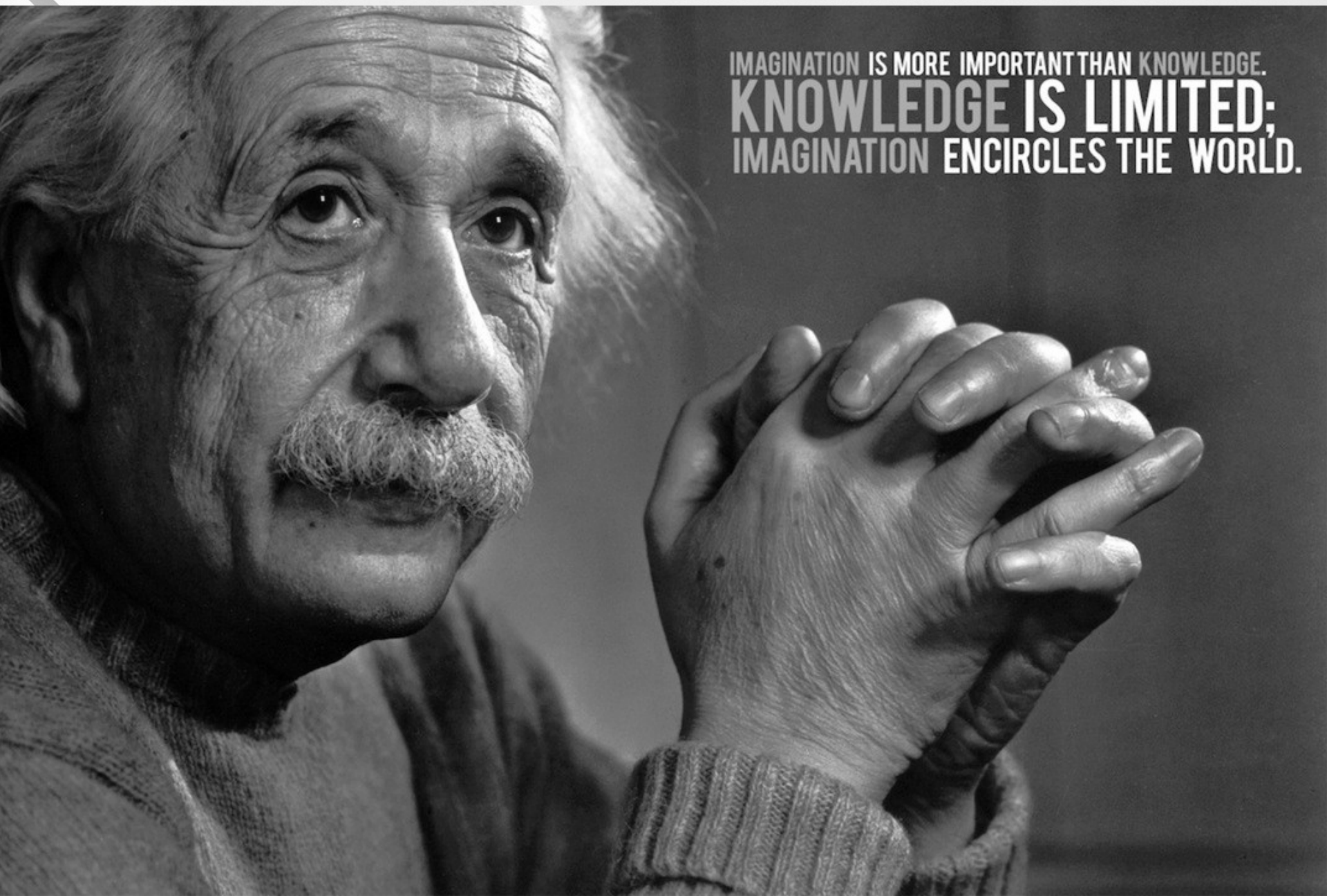
Dispositivi elettronici,
personal computer



Dispositivi digitali,
macchine foto e
cellulari

IV° Età : cosa
compreranno ?



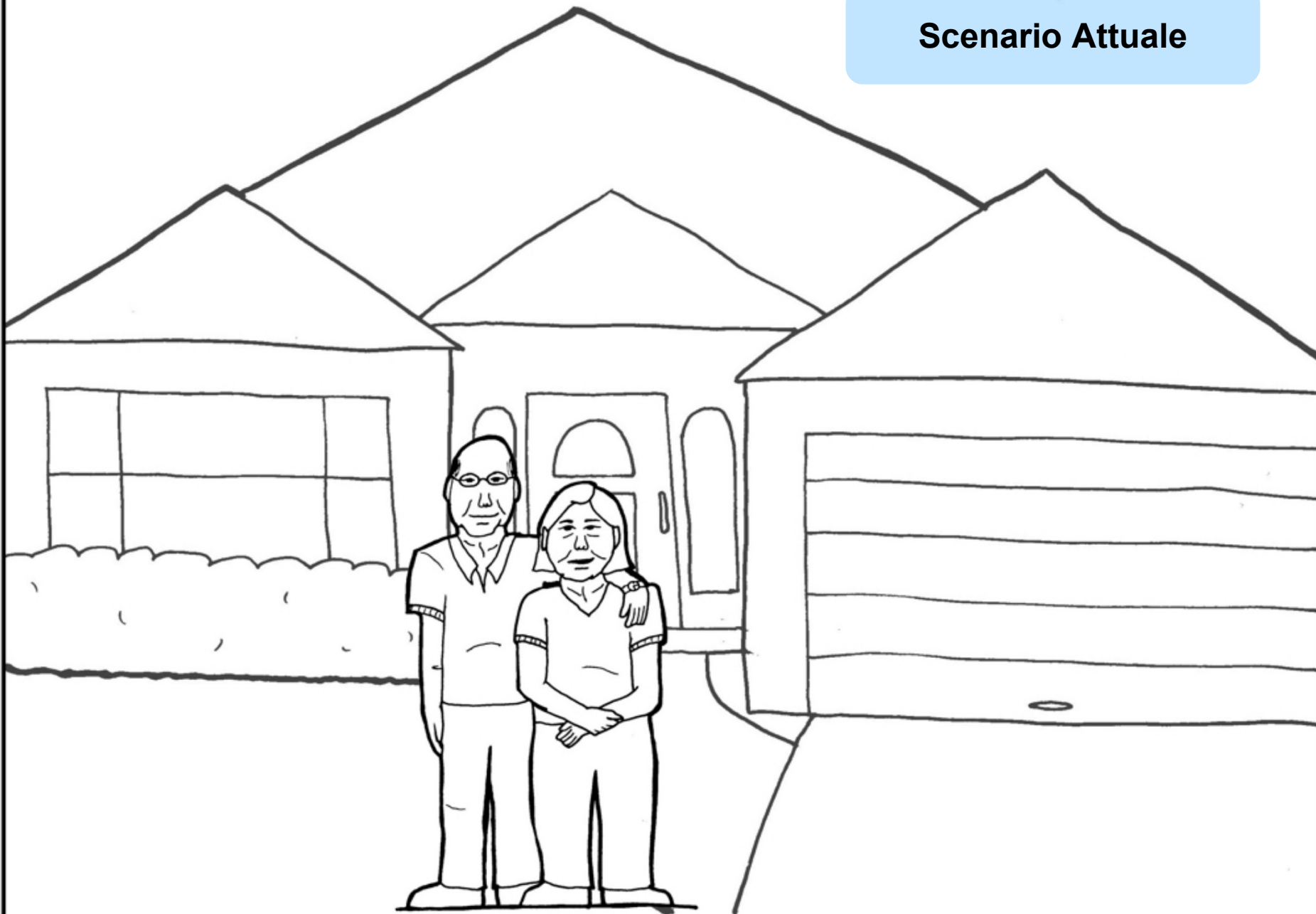


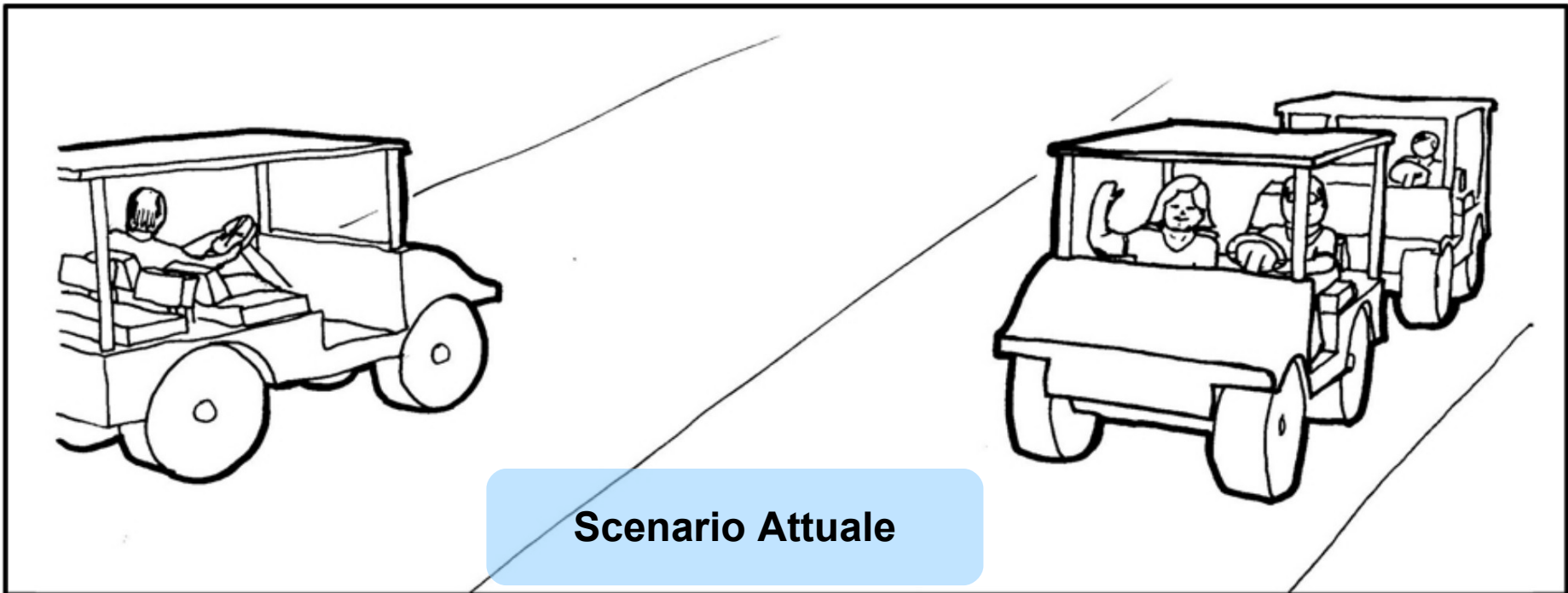
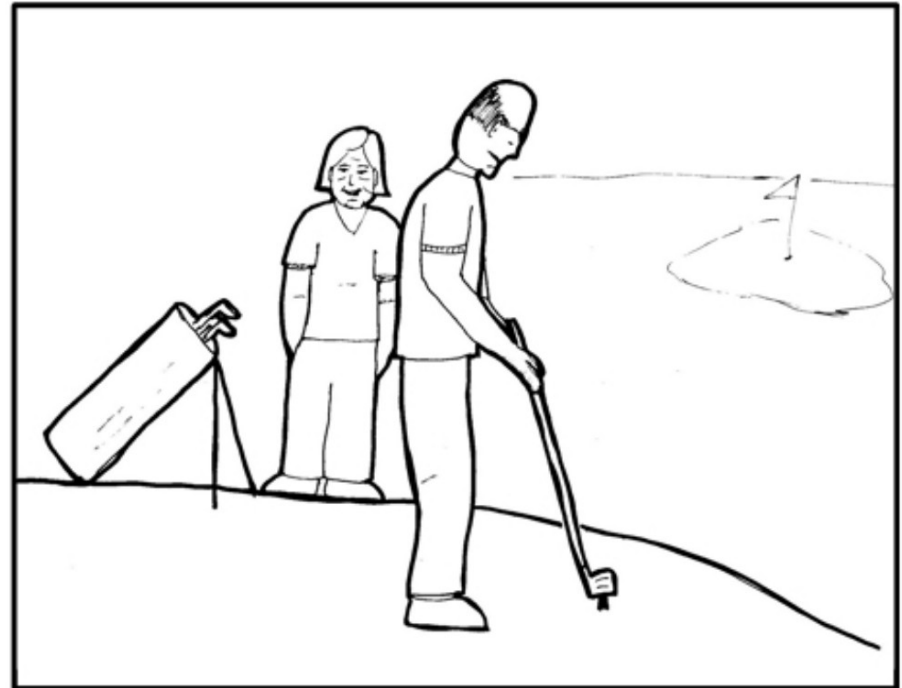
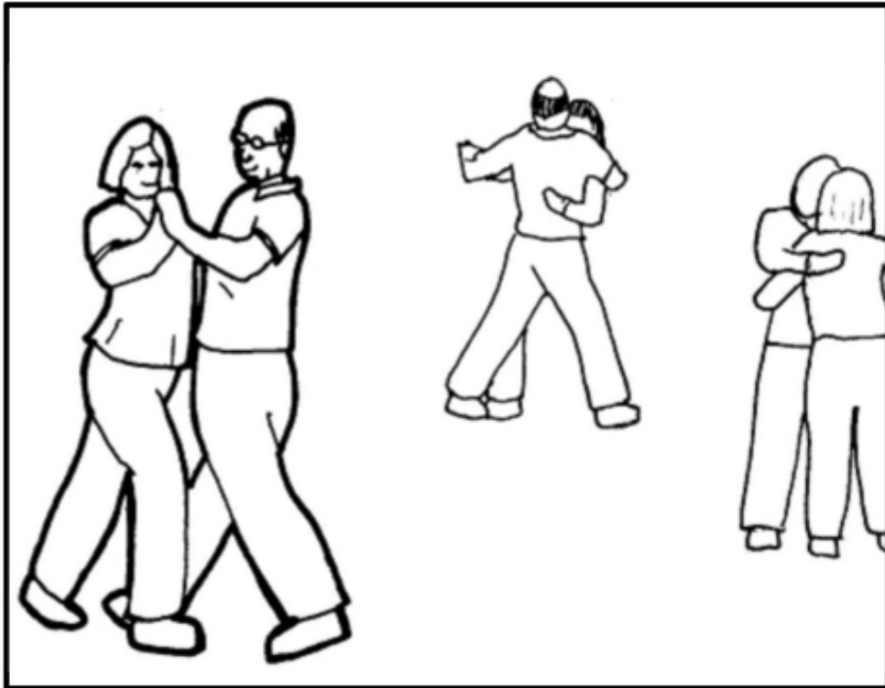
IMAGINATION IS MORE IMPORTANT THAN KNOWLEDGE.
KNOWLEDGE IS LIMITED;
IMAGINATION ENCIRCLES THE WORLD.



AGNES, Age Gain Now Empathy System, MIT Age Lab

Scenario Attuale



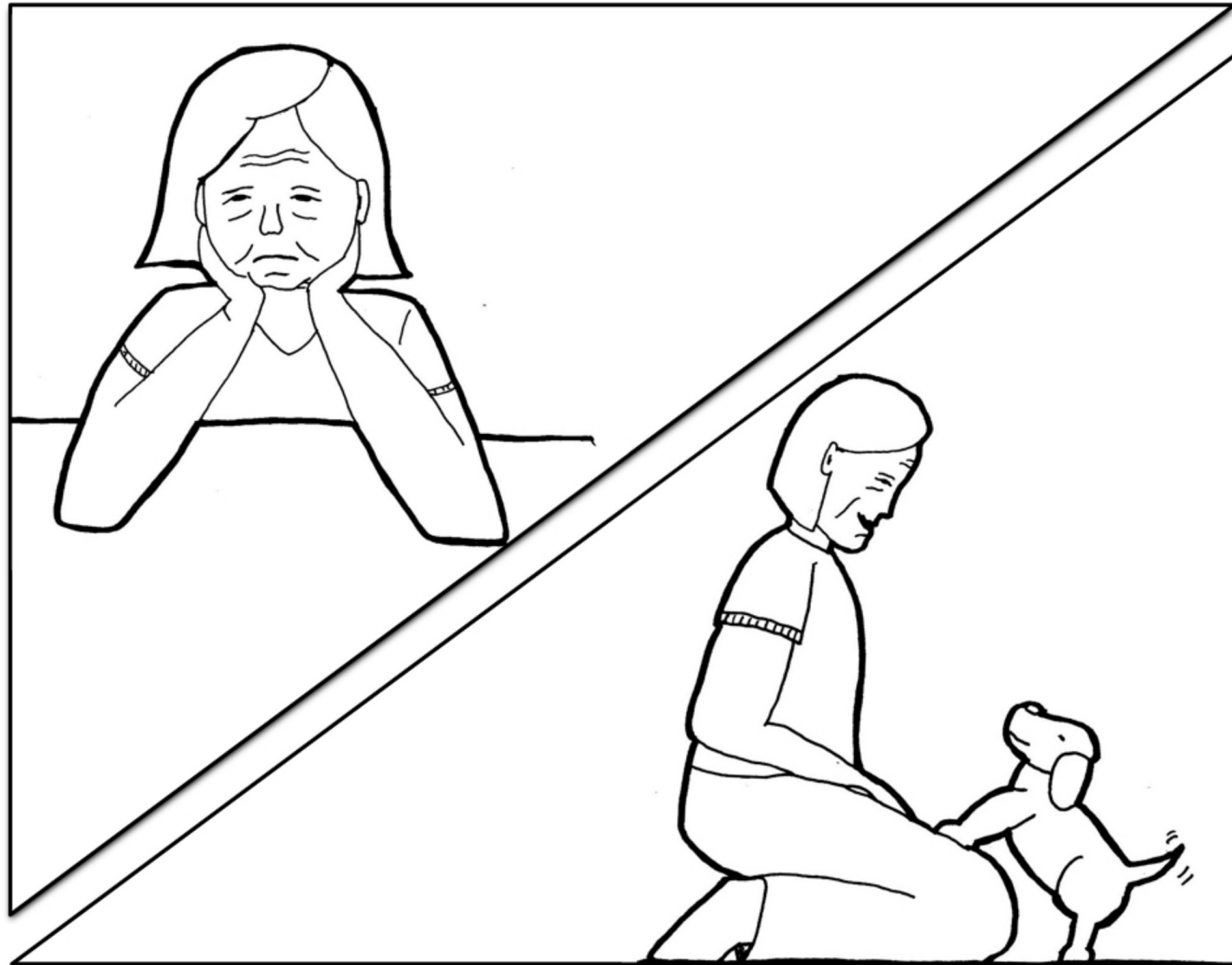


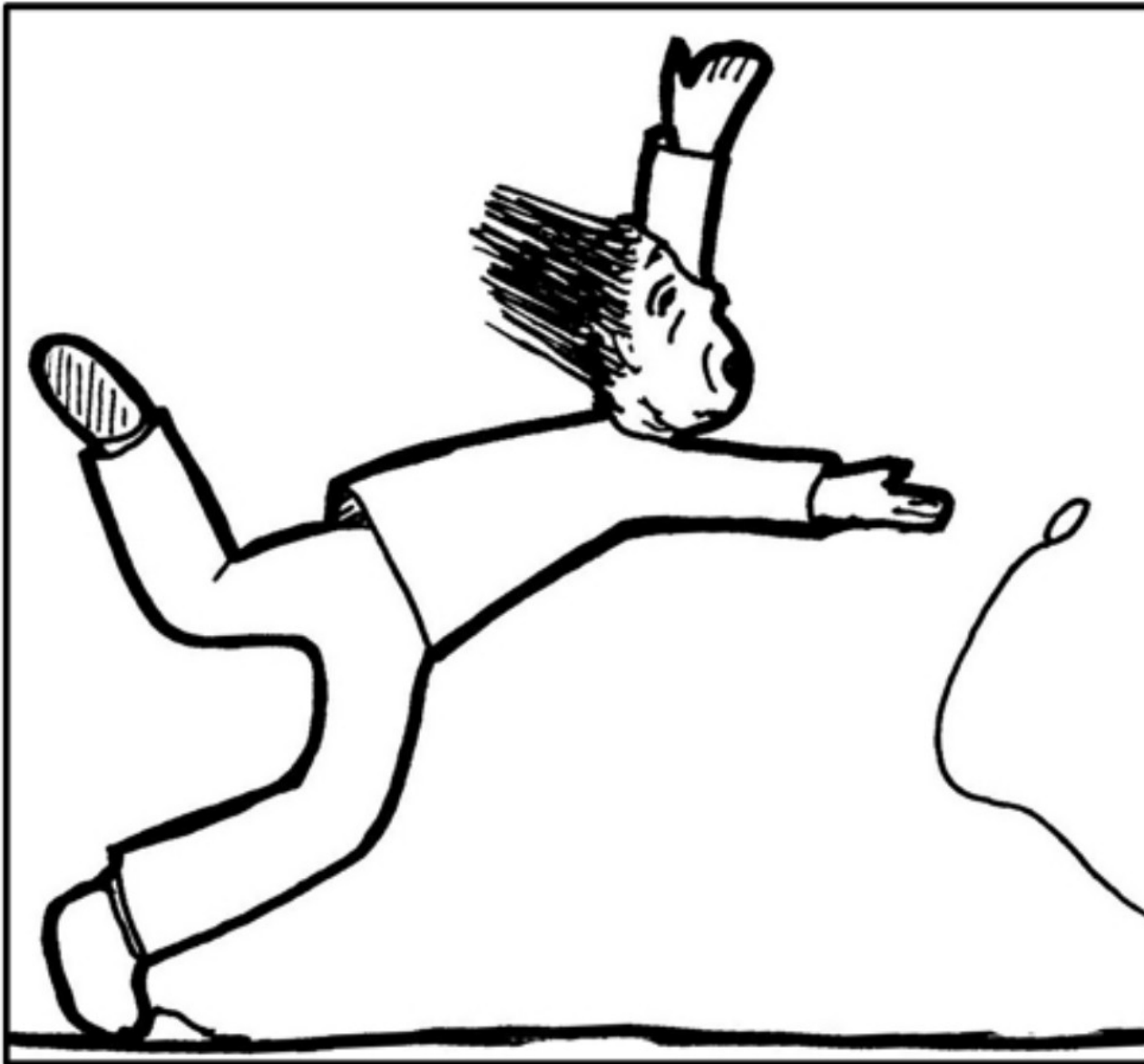
Scenario Attuale

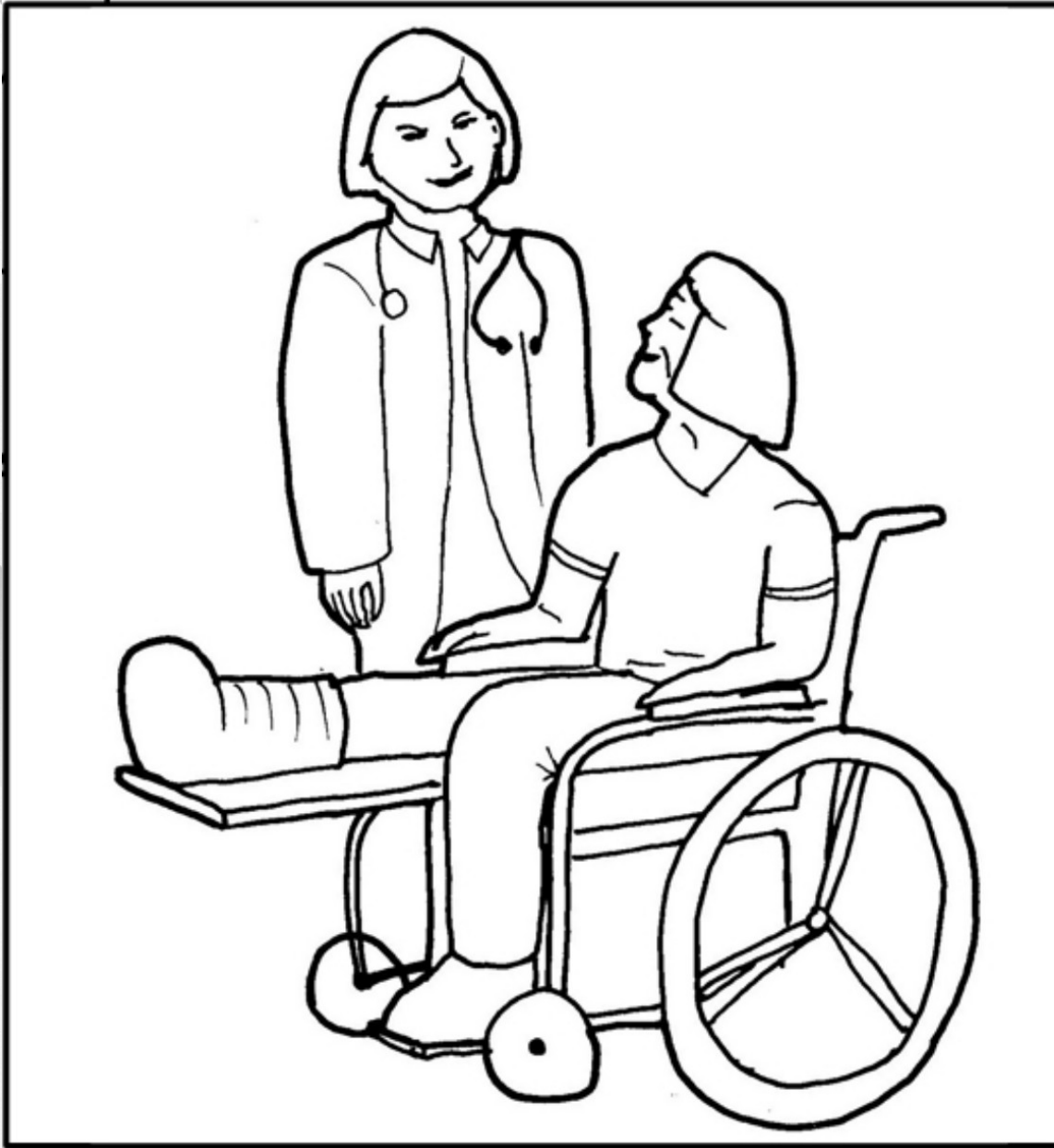
GEORGE PASSES AWAY...



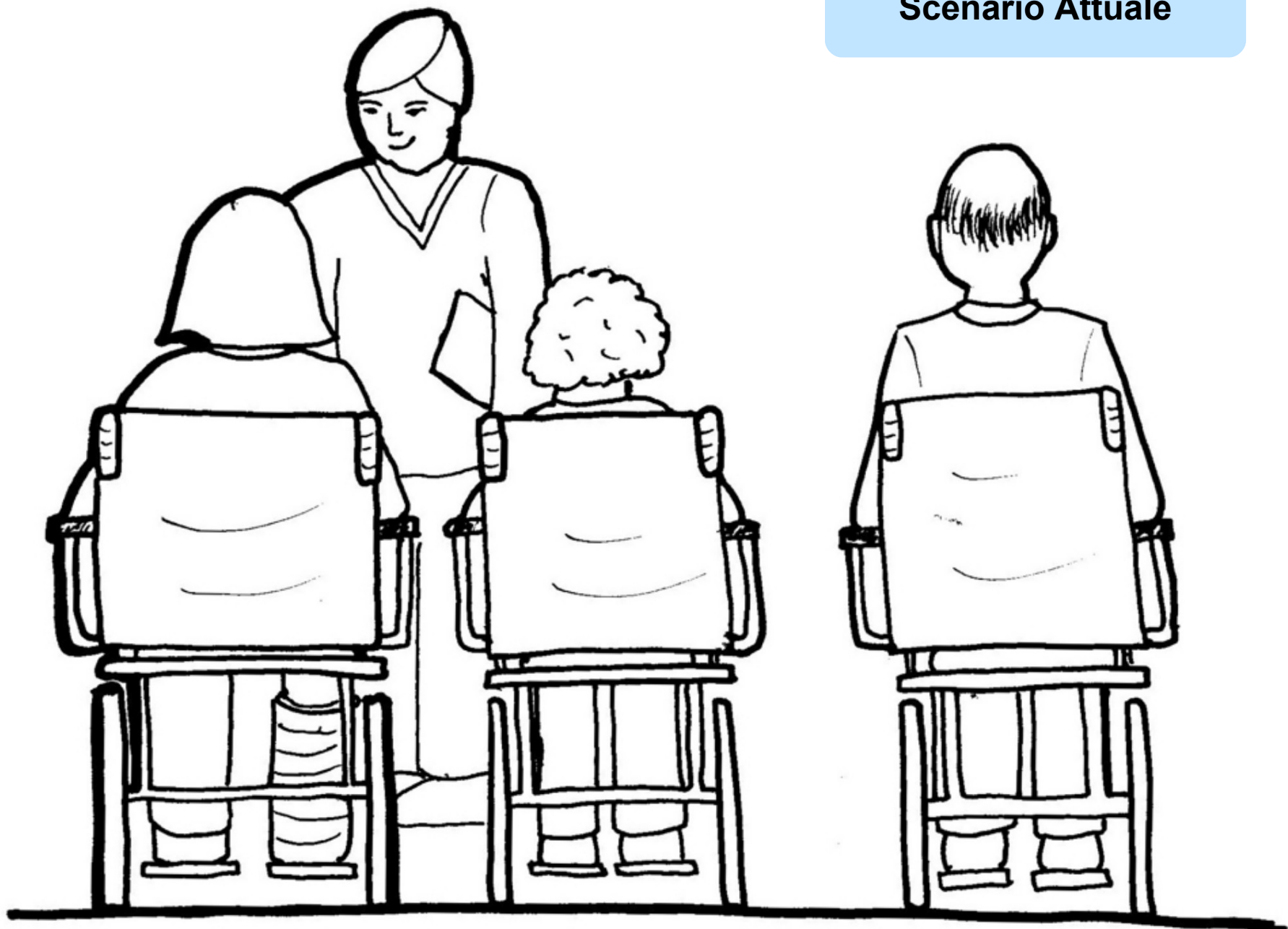
Scenario Attuale







Scenario Attuale





"The great secret that all old people share is that you really haven't changed in seventy or eighty years. Your body changes, but you don't change at all. And that, of course, causes great confusion."

Doris Lessing



il **73%** guarda la **tv**
almeno tre ore al giorno
un anziano su 4
almeno sei ore

Scenario Attuale



Impegno familiare

Compagnia

Sostegno alla mobilità

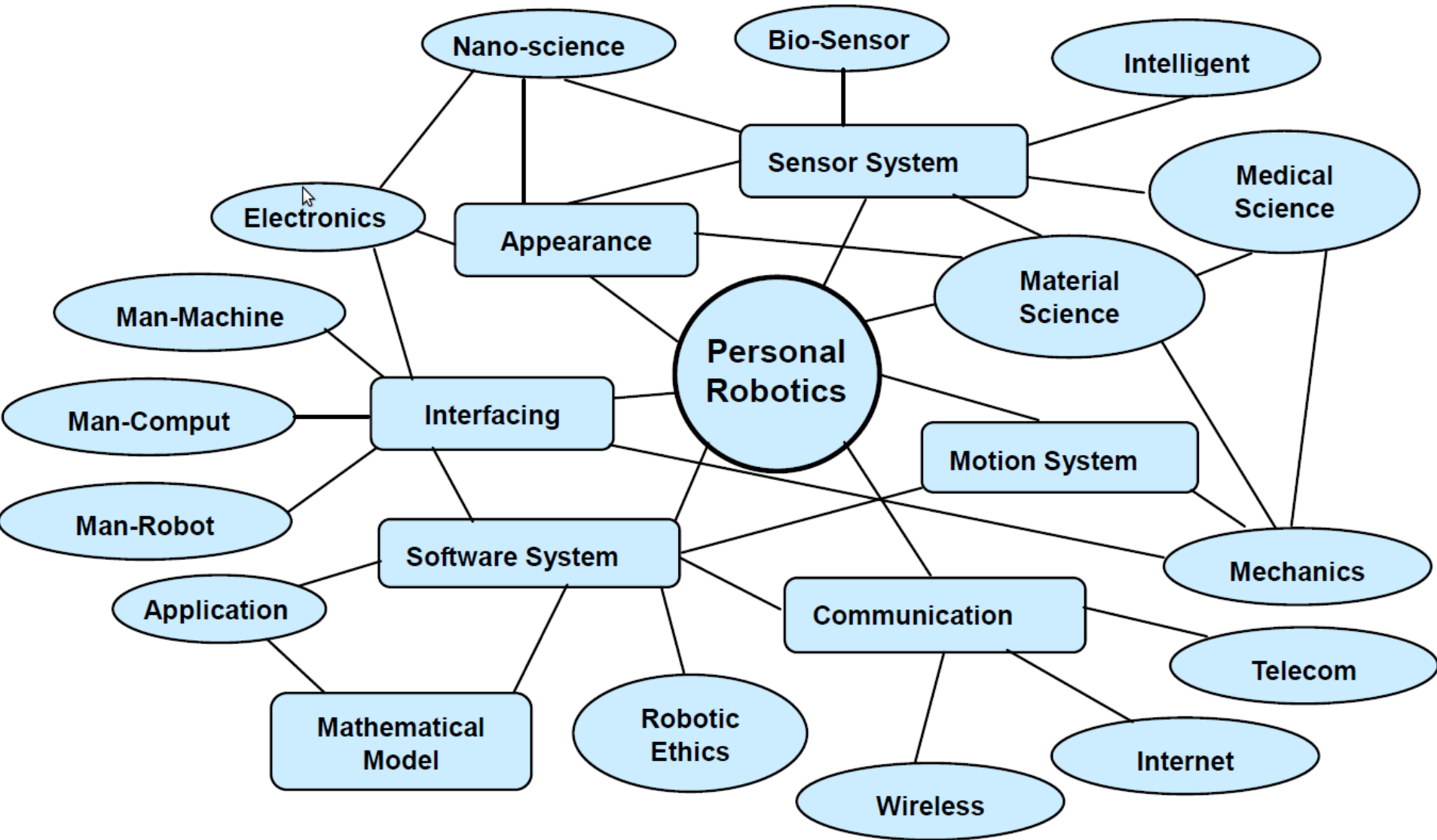
Sostegno mentale

Sostegno sanitario

Sostegno sociale

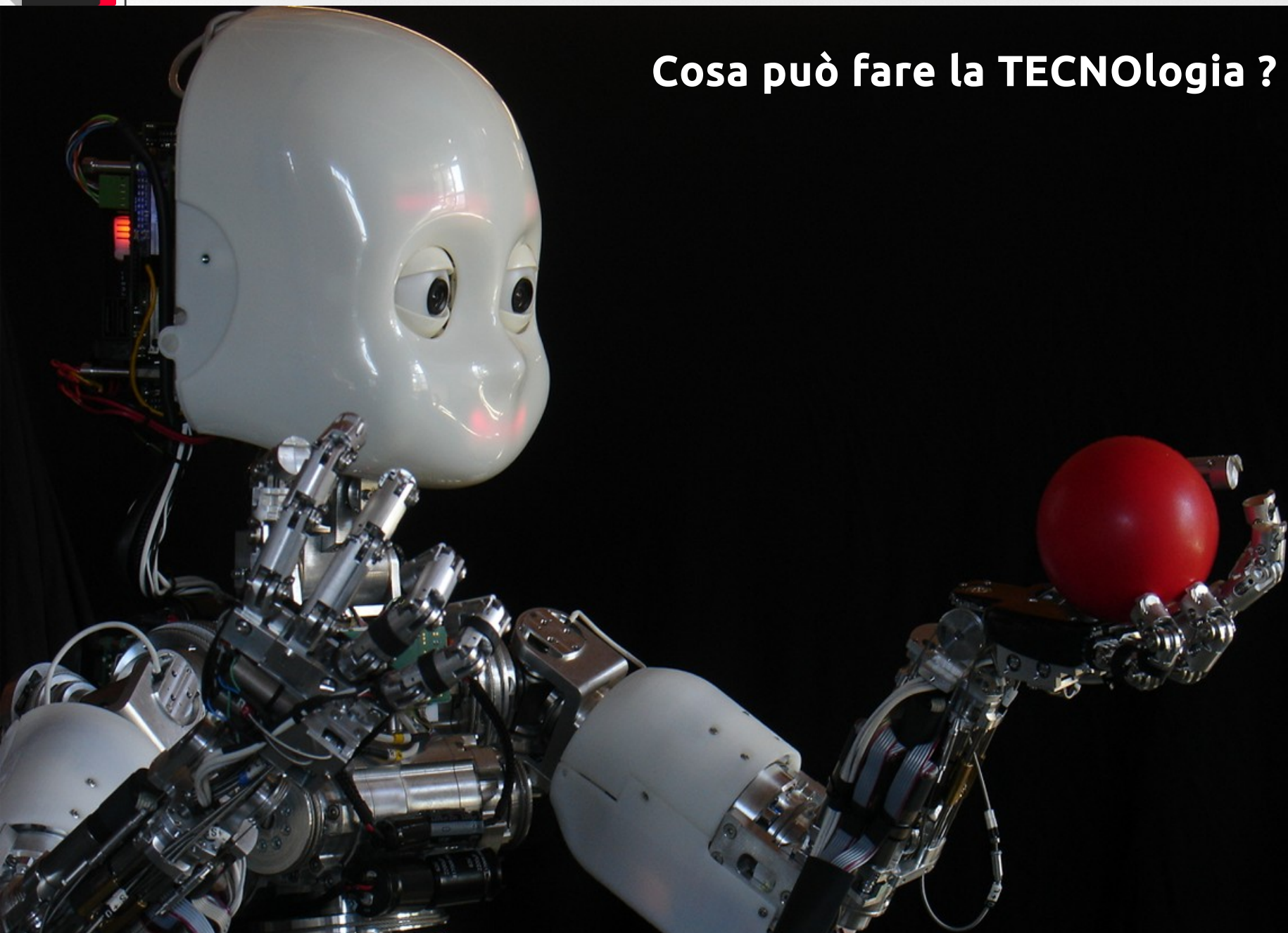
Sostegno fisico

Monitoraggio sanitario passivo continuo



Questo è solo la ToolBox per la TECNOlogia, e forse andrebbe completata ...

Cosa può fare la TECNOlogia ?



Potremmo immaginare insieme un Robot ...

... che sia di aiuto come una **badante**

... che serva da **occhi e orecchie**

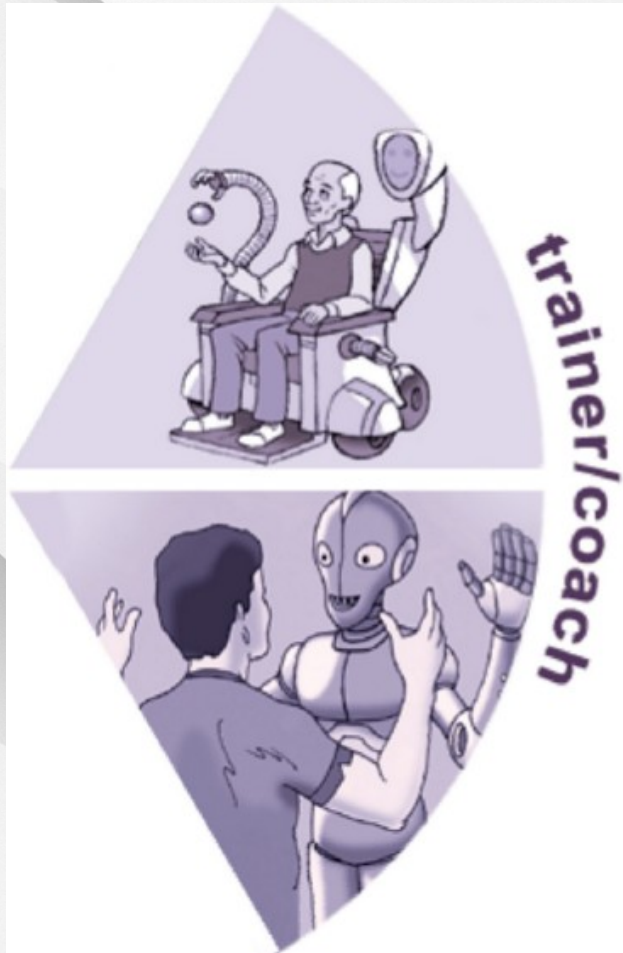
... che sia **facile da controllare** e con cui **interagire**

... che promuova la **socializzazione**

... che **migliori la qualità della vita dell'uomo**



Potremmo immaginare insieme un Robot ...



... che **aiuti il fisioterapista e/o l'allenatore**

... che sia **divertente nell'interazione**

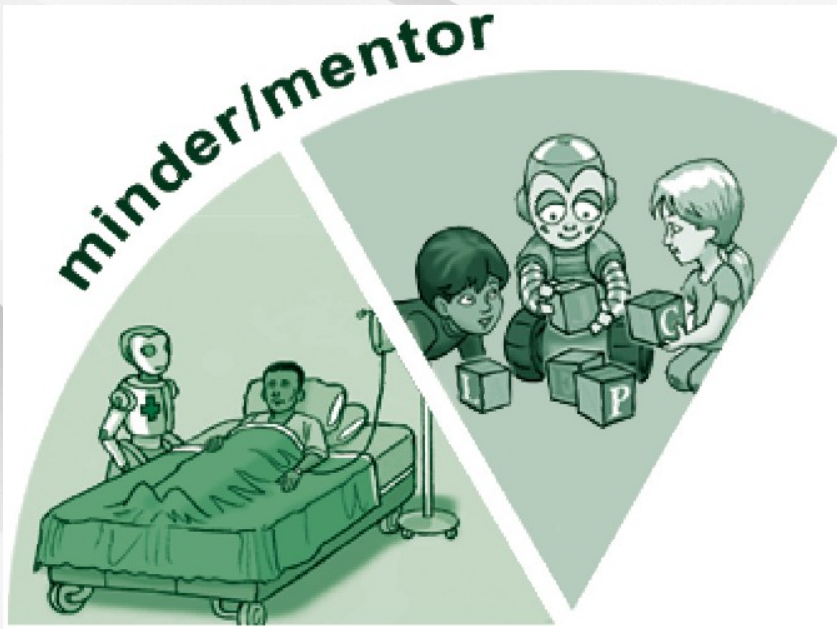
... che **riduca l'impaccio e/o il disagio**

... che sia instancabilmente **in servizio 24-7**

... che sia in grado di **richiedere l'aiuto di una dottoressa o un infermiere**

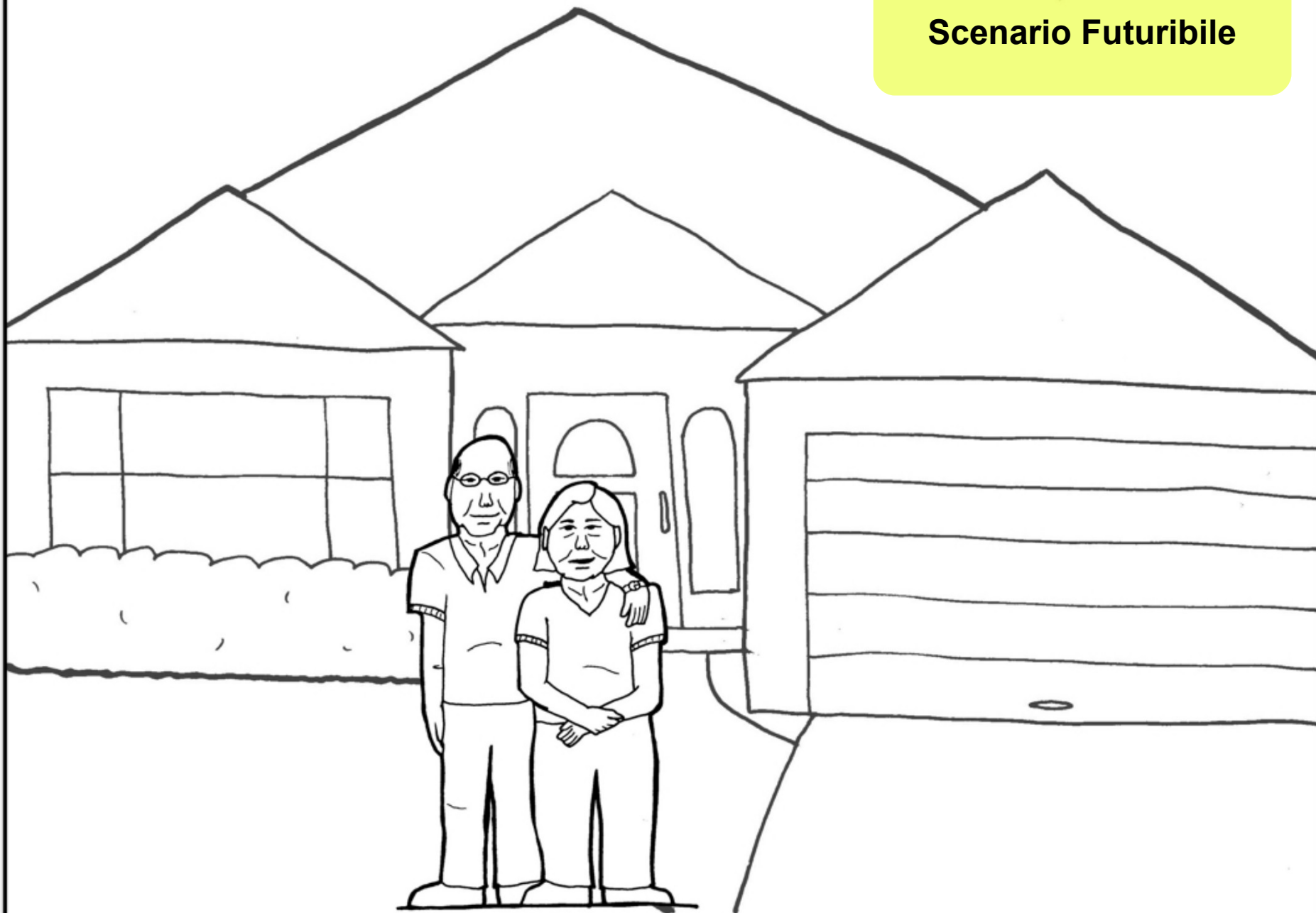
... che **aiuti molte persone a riguadagnare la propria indipendenza**

Potremmo immaginare insieme un Robot ...

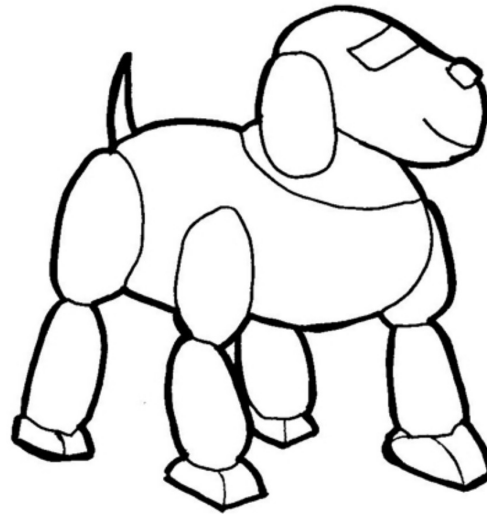


- ... che possa aiutare a **svelare i primi sintomi di disordini mentali**
- ... che possa dare un **supporto illimitato**
- ... che sia **personalizzabile**
- ... che sia **in grado di motivare**
- ... che **aiuti molte persone a condurre una vita che le soddisfi**

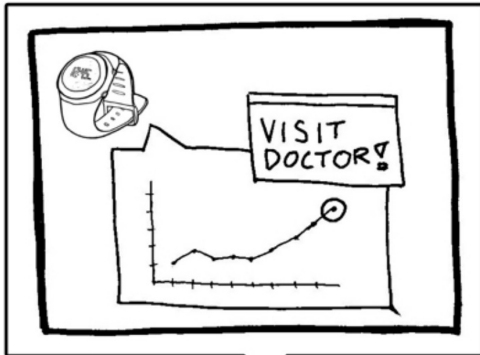
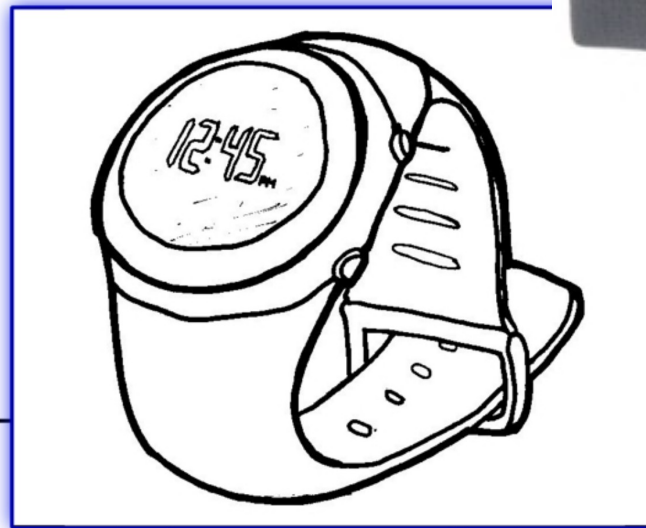
Scenario Futuribile



Scenario Futuribile



Scenario Futuribile

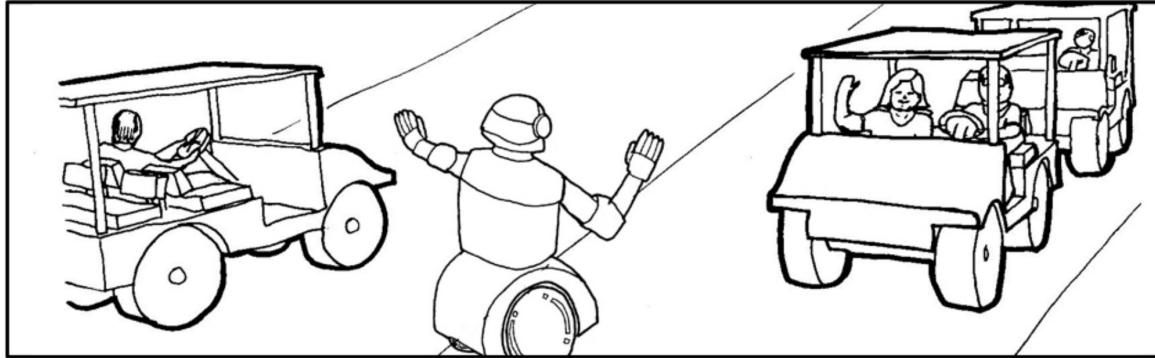




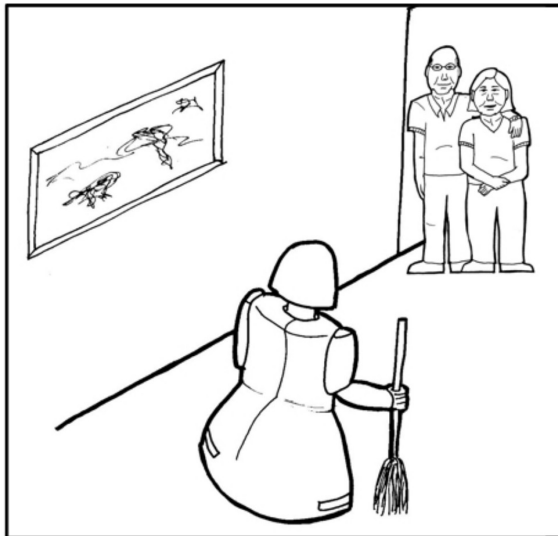
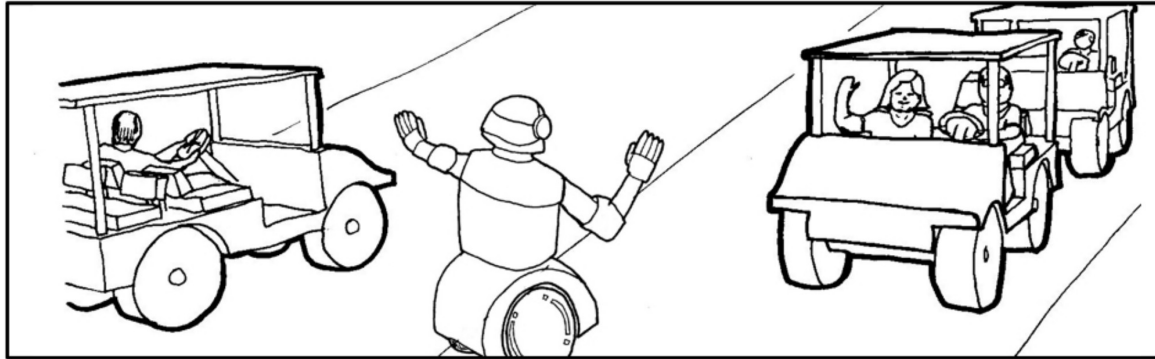
**SCOPRI LA DISTANZA
CHE HAI PERCORSO IN UN GIORNO.**

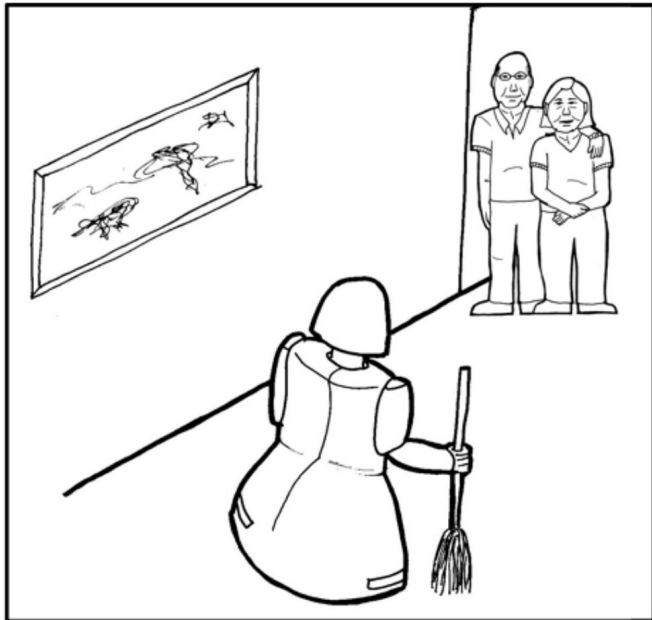
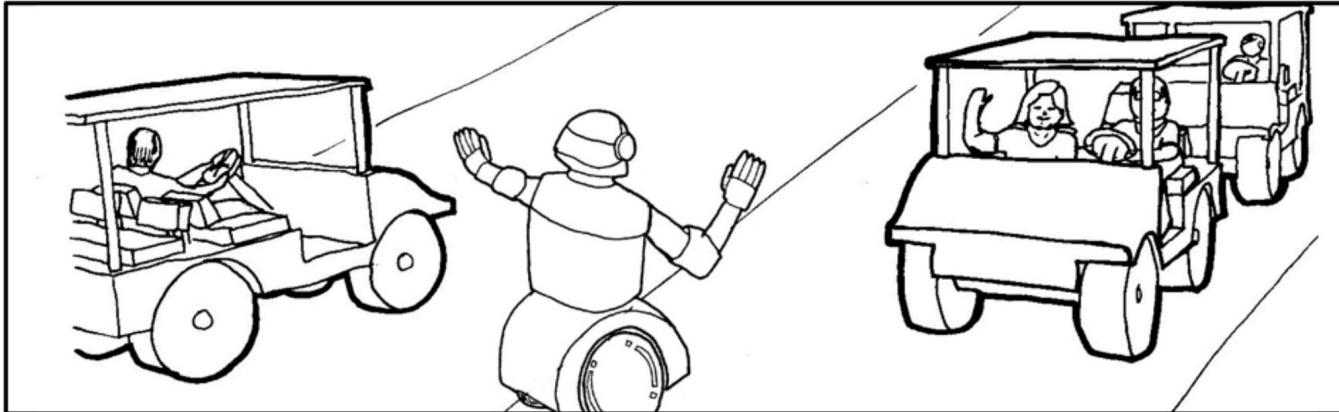


Scenario Futuribile



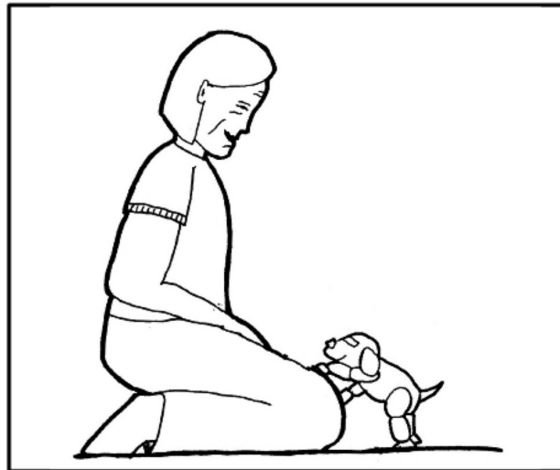
Scenario Futuribile



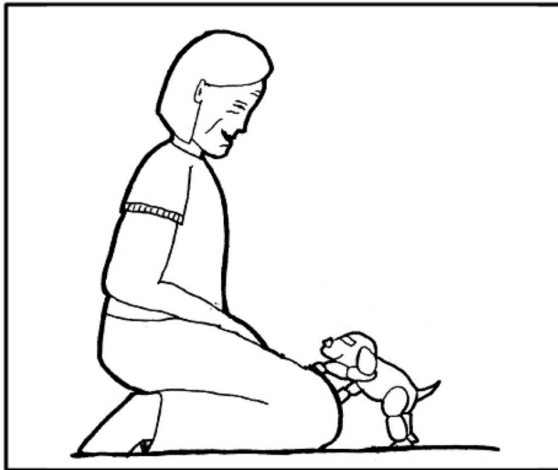
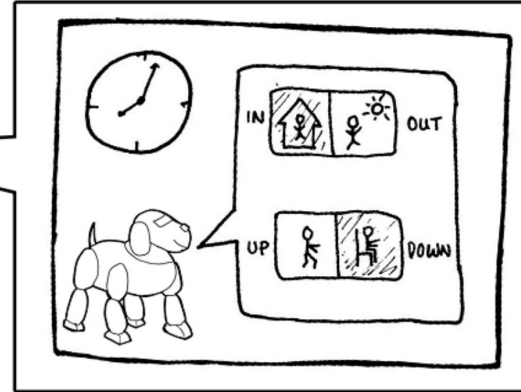


GEORGE PASSES AWAY...

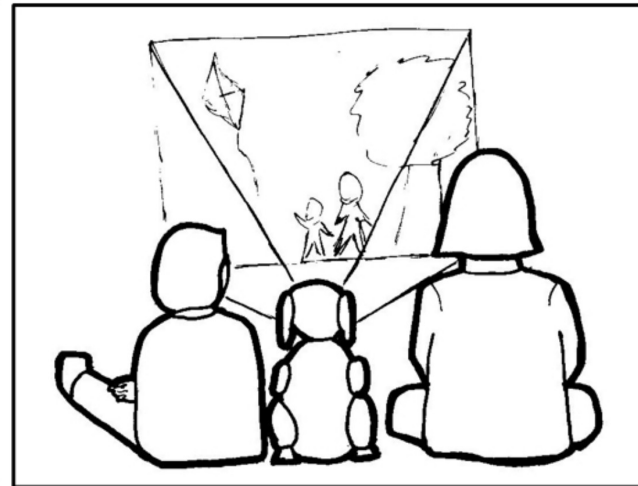
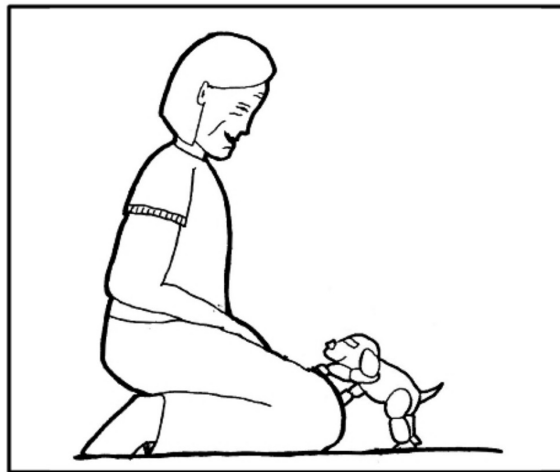
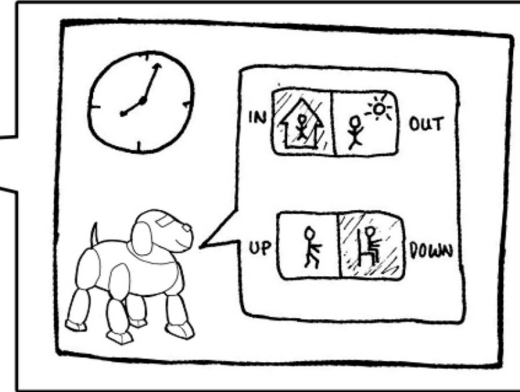




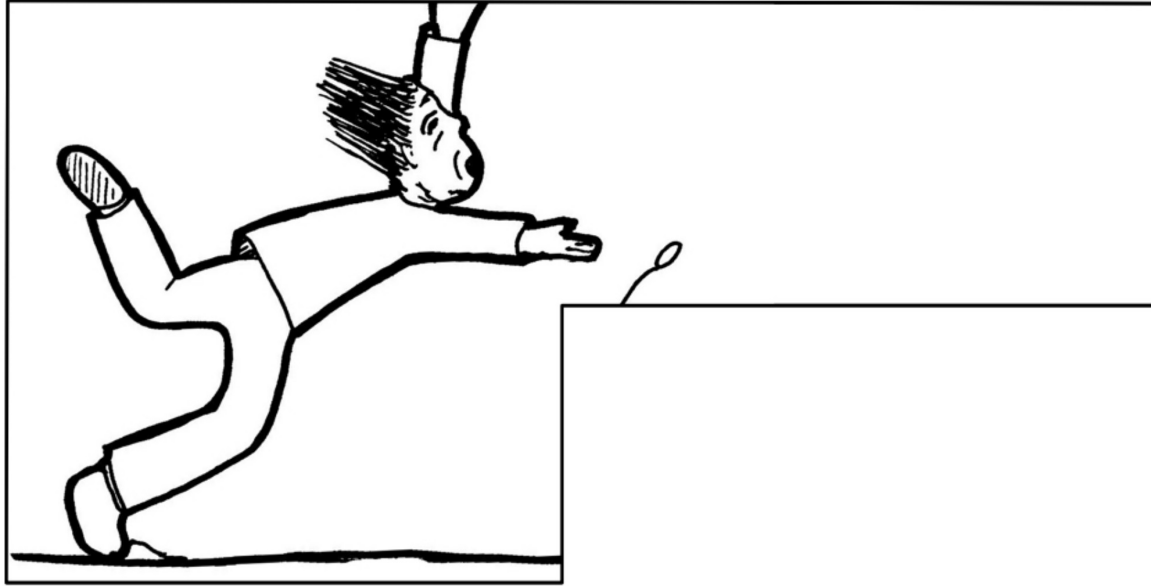
Scenario Futuribile

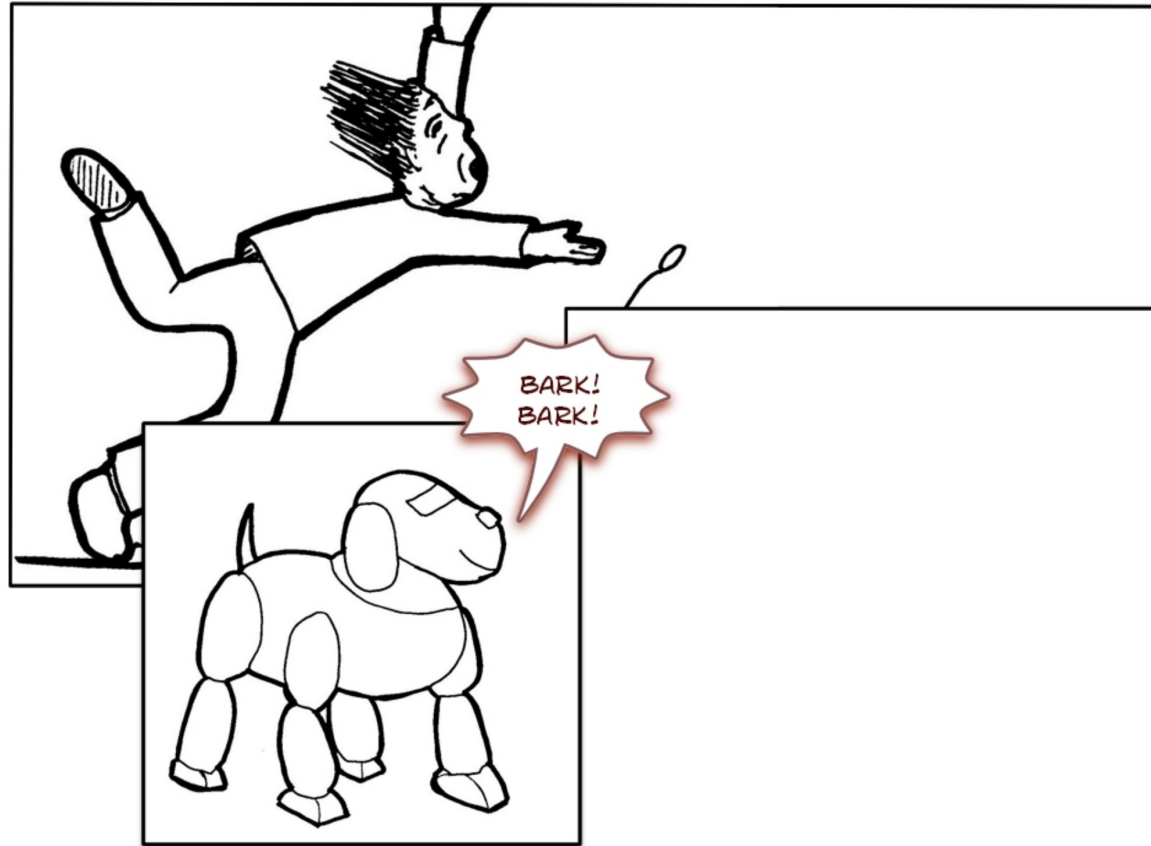


Scenario Futuribile

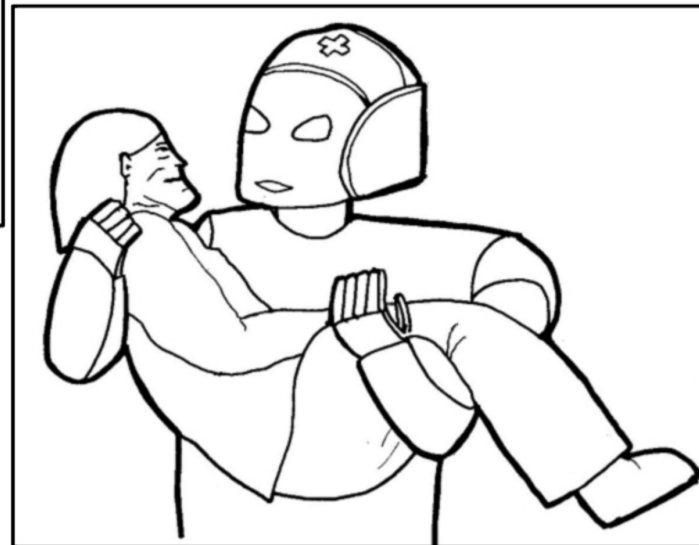
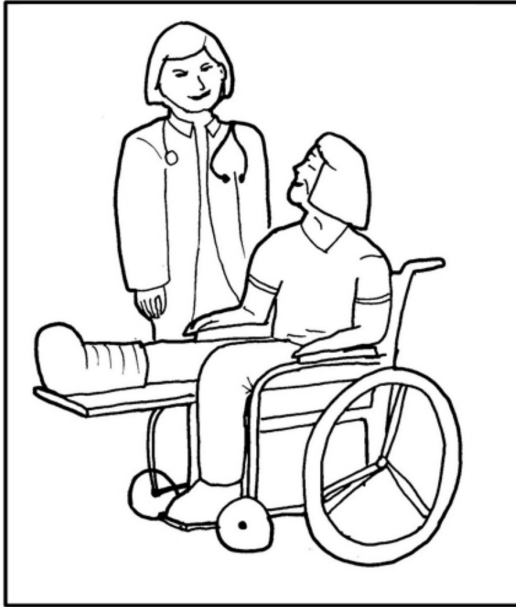


Scenario Futuribile









Scenario Futuribile



Quanto è credibile su larga scala ?



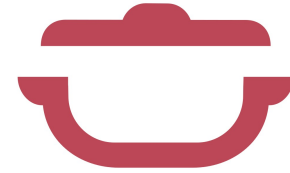








Community Matters



casserole

REIGATE & BANSTEAD

Casserole is a unique food sharing network, bringing local communities together around delicious home-cooked food.

Why it matters

Lots of people are keen to volunteer in their local community but lack time and aren't able to make the regular time commitment that more traditional volunteering opportunities often require.

Casserole provides a new way for people to 'micro volunteer' as well as promoting connections between people of all ages in a local community.

However, many people cook at home regularly and are happy to cook an extra portion of food and deliver it to someone close by who needs it.

Cosa sta facendo **iit@Polito** ?

Human Hand eXoskelton Emg Controlled

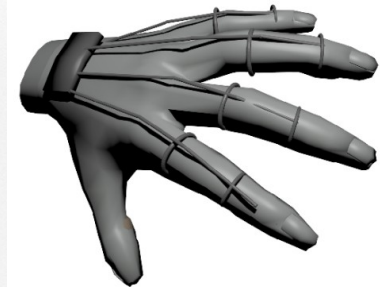
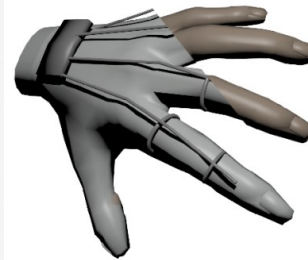
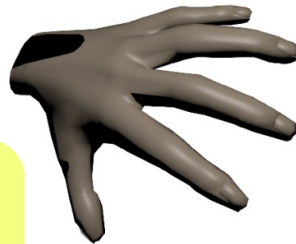
**Sviluppo di
Sensori e
Attuatori: MEMS
e NEMS**

**Studio di nuovi
materiali: compositi,
metallici e polimerici**

**Caratterizzazione
dei materiali**

**Studio di
sistemi flessibili
per l'accumulo
energetico**

**Fisiologia
Artificiale**



**Design
meccanico e
funzionale dei
dispositivi**

~~PROBLEM~~

OPPORTUNITY