Robots, Society and Industry

a Survey

Survey: outcome in short

- 116 collected forms
- Mean age: 33.7 years
- Male: 66.4%
- Female: 9.5%
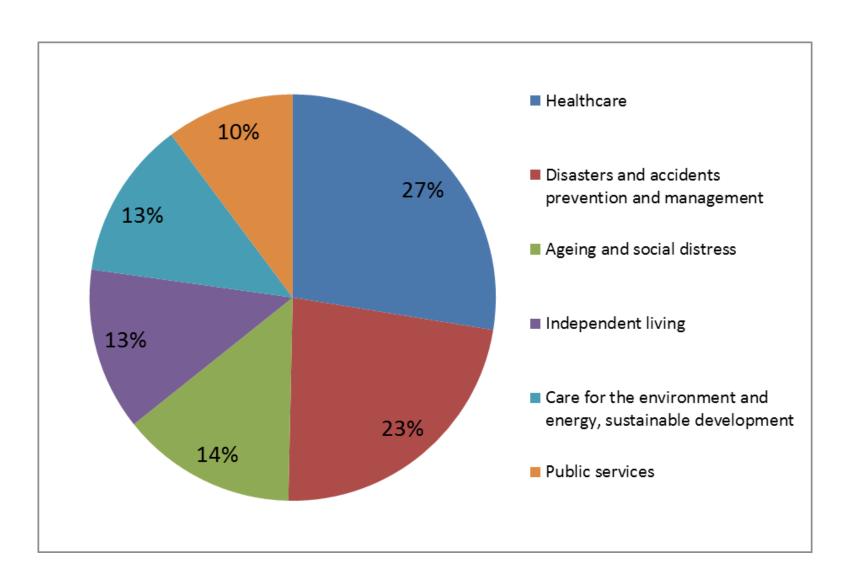- (unspecified: 24.1%)

Survey: outcome in short

- **Healthcare** and **Disasters and accidents prevention ad managements** are considered as the main grand societal challenges robotics might help tackling.

- For effectively tackling such challenges, research should mainly focus on:

  - **Improved control schemes and AI methods**

  - **New sensors and actuators**
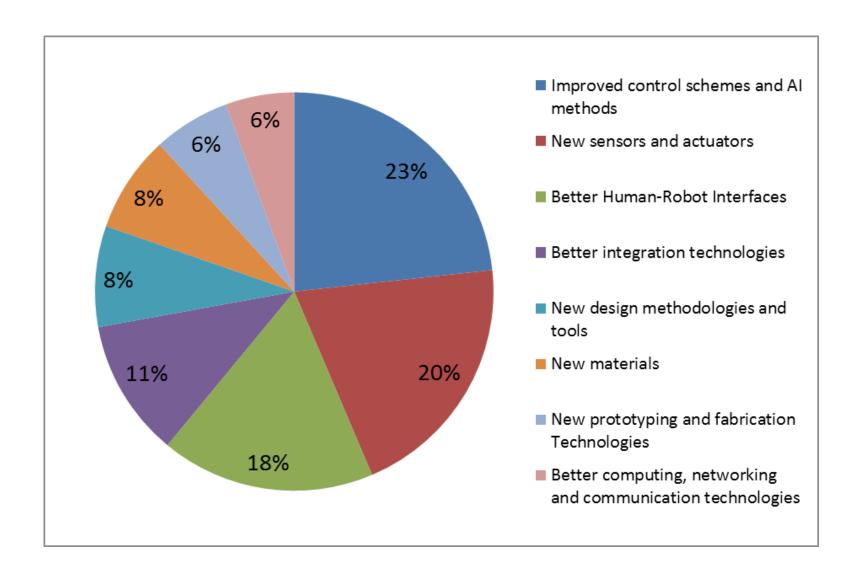
  - **better Human-robot interfaces**

Survey: outcome in short

- In the next decade robotics R&D shall focus mainly on the following grand research avenues:
  - **Medical robotics** and **Prosthetics**
  - **Cognitive robotics**
  - **Intelligent vehicles**
- The industrial sectors which will most benefit from robotics R&D achievements in terms of their competitiveness will be:
  - **Industrial automation, mechatronics**
  - **Services to citizens for quality of life**
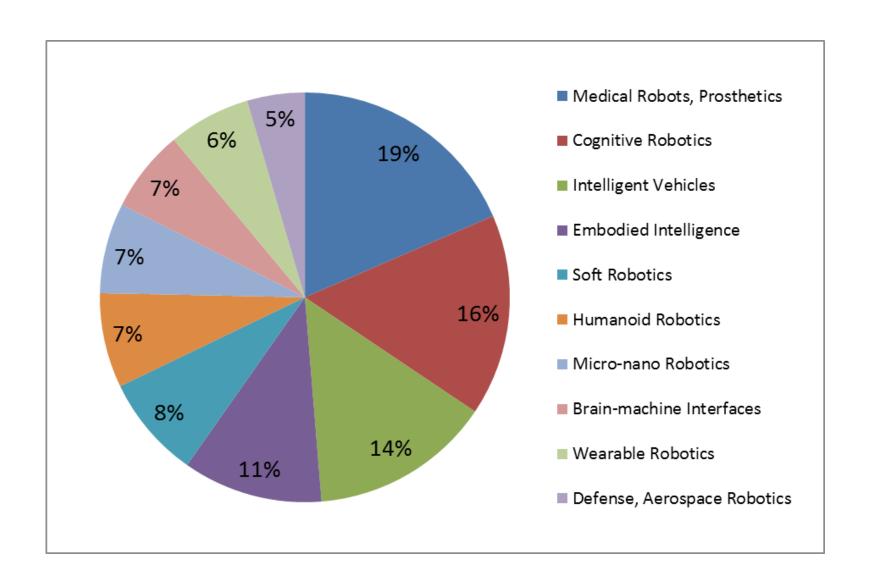 - **Automotive, transportation, personal mobility**

In tackling which grand societal challenge(s) might robotics play a leading role in the next decade?

For effectively tackling such challenge(s), robotics is mainly in need of which of the following enabling technologies:

Which main grand research avenues robotics R&D shall focus on in the next decade

Legend:
- Medical Robots, Prosthetics — 19%
- Cognitive Robotics — 16%
- Intelligent Vehicles — 14%
- Embodied Intelligence — 11%
- Soft Robotics — 8%
- Humanoid Robotics — 7%
- Micro-nano Robotics — 7%
- Brain-machine Interfaces — 7%
- Wearable Robotics — 6%
- Defense, Aerospace Robotics — 5%

Which industrial sector(s) will most benefit from robotics R&D achievements in terms of their competitiveness?

Pie chart with the following values:
- Industrial automation, mechatronics: 18%
- Services to citizens for Quality of Life: 17%
- Automotive, transportation, personal Mobility: 17%
- Biotech, pharma, medical: 13%
- Home automation, furniture, appliances: 12%
- New sectors: 7%
- Gaming, edutainment: 7%
- Consumer electronics, communication devices: 7%
- Other existing sectors: 1%
- Food: 1%