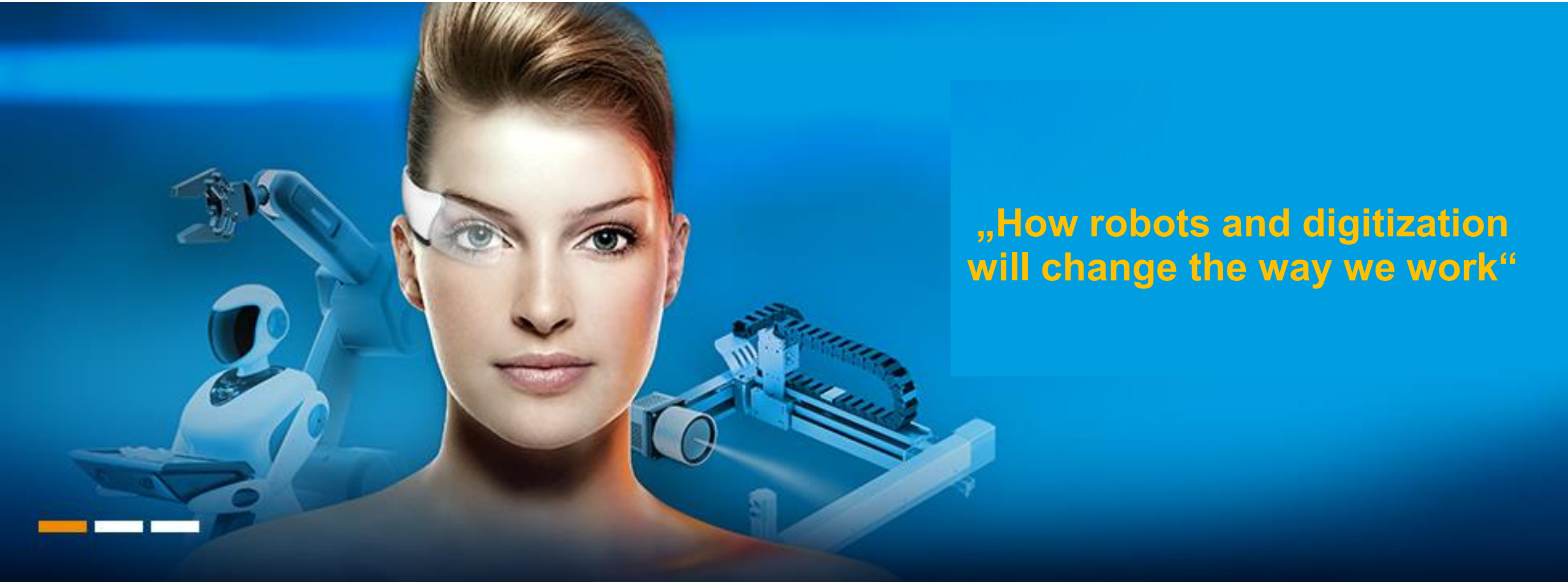


automatica trend index 2018



„How robots and digitization
will change the way we work“



automatica trend index 2018

„How robots and digitization will change the way we work“



- Survey setup

- International market research institute

- **7,000** employees

- **7** countries



- Samples

USA (N=1,000), **UK**: (N=1,000), **GER**: (N=1,000), **FRA**: (N=1,000),
ITA: (N=1,000), **JP**: (N=1,000), **CN**: (N=1,000)



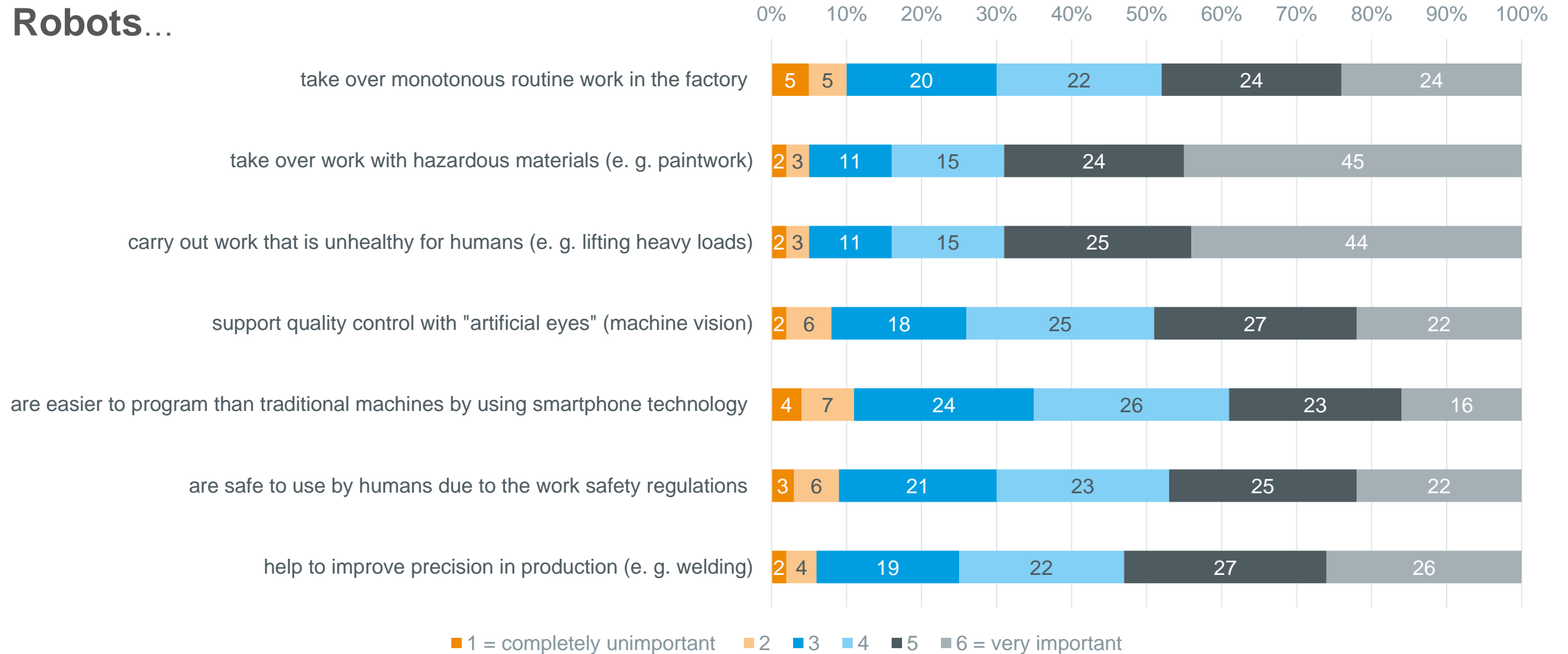
automatica trend index 2018

Germany

Question 1: When you think about the workplace of the future, how do you assess the use of robots?



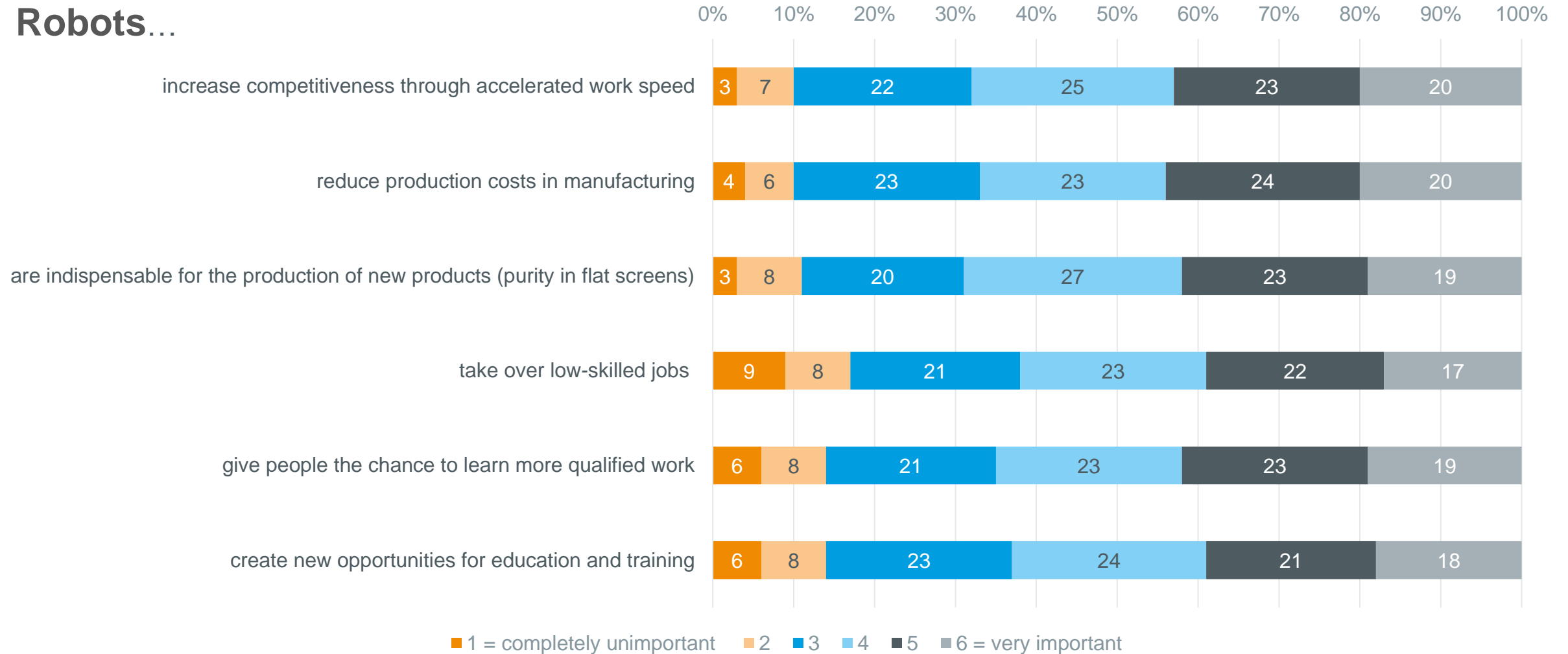
Robots...



Question 1: When you think about the workplace of the future, how do you assess the use of robots?



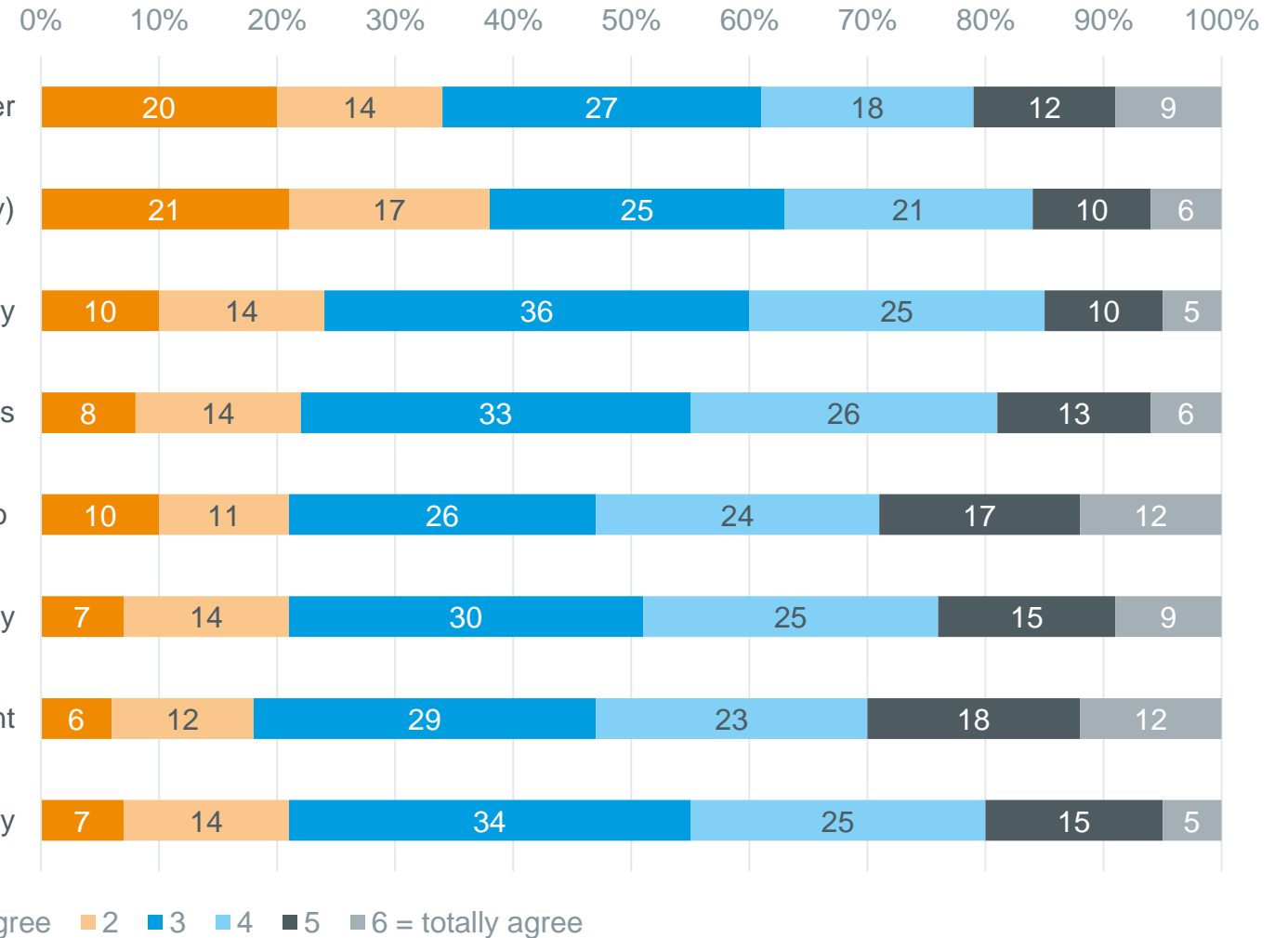
Robots...



Question 2: Let's take a look at education and training for the digital workplace of the future.



Education and training for the digital world...



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...

improve manufacturing by combining human talents (judgement, fine motor skills) with those of robots (force, precision)

improve the quality of manual work by enhancing precision

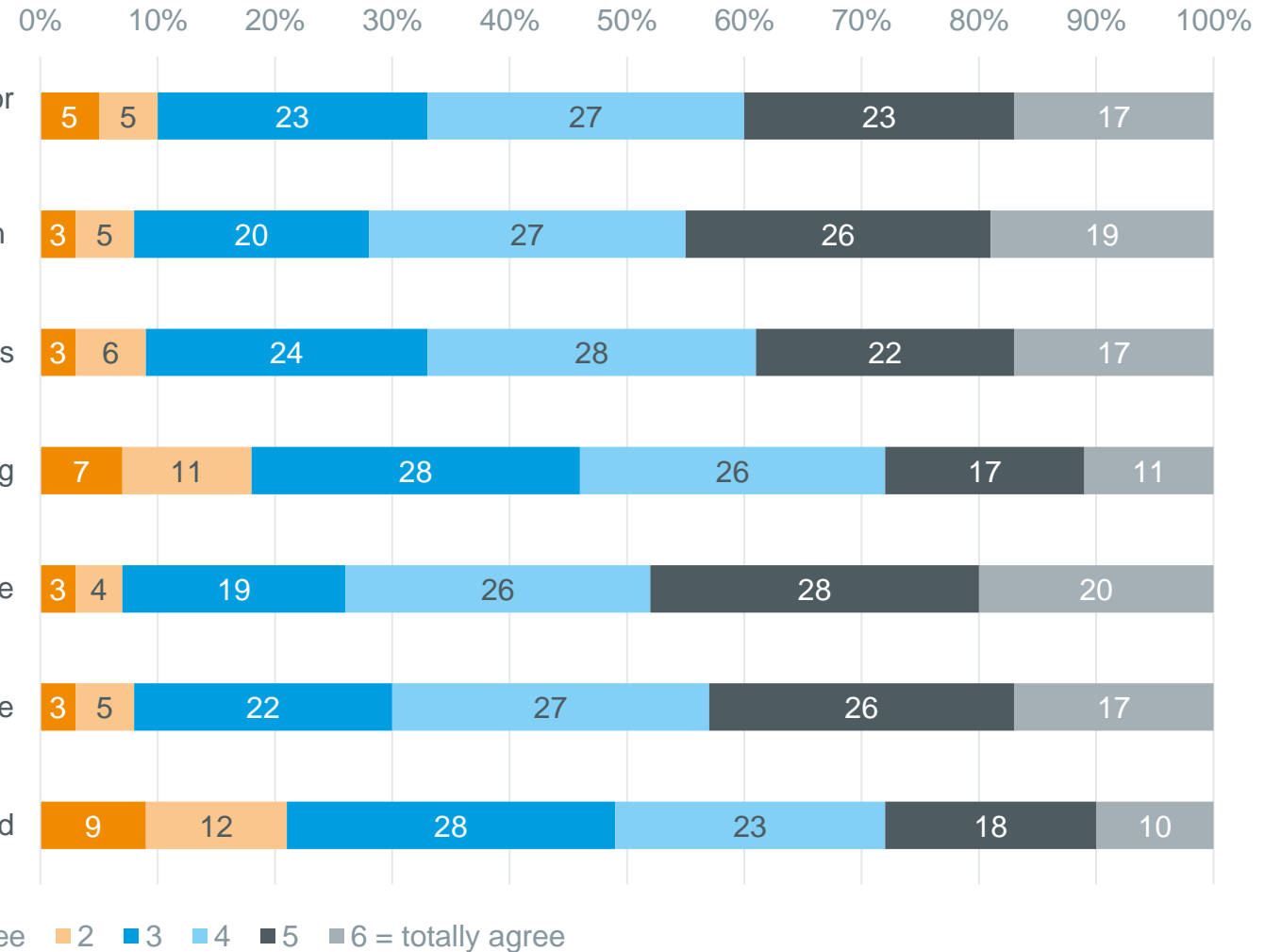
reduce costs

make the workplace more interesting

are becoming increasingly important at the workplace of the future

make companies more competitive

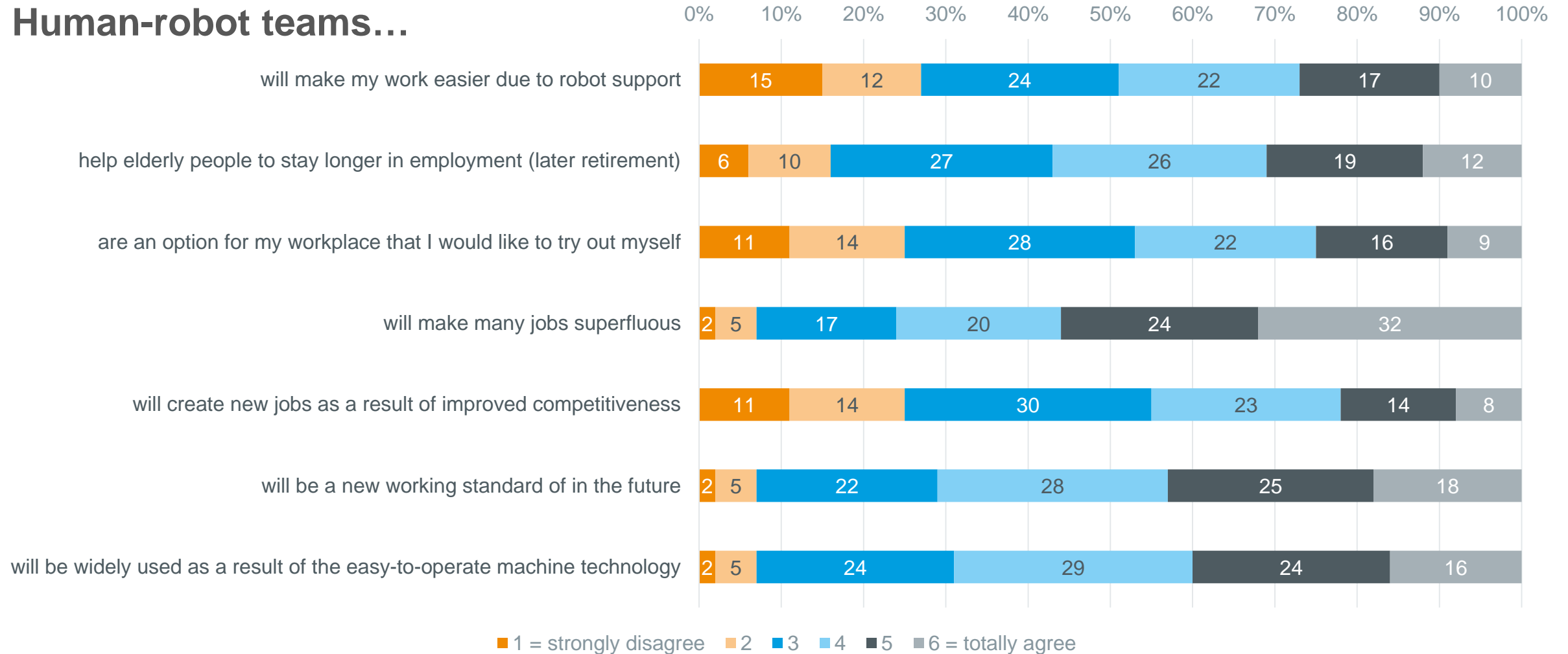
create more qualified jobs that are better paid



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...



Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

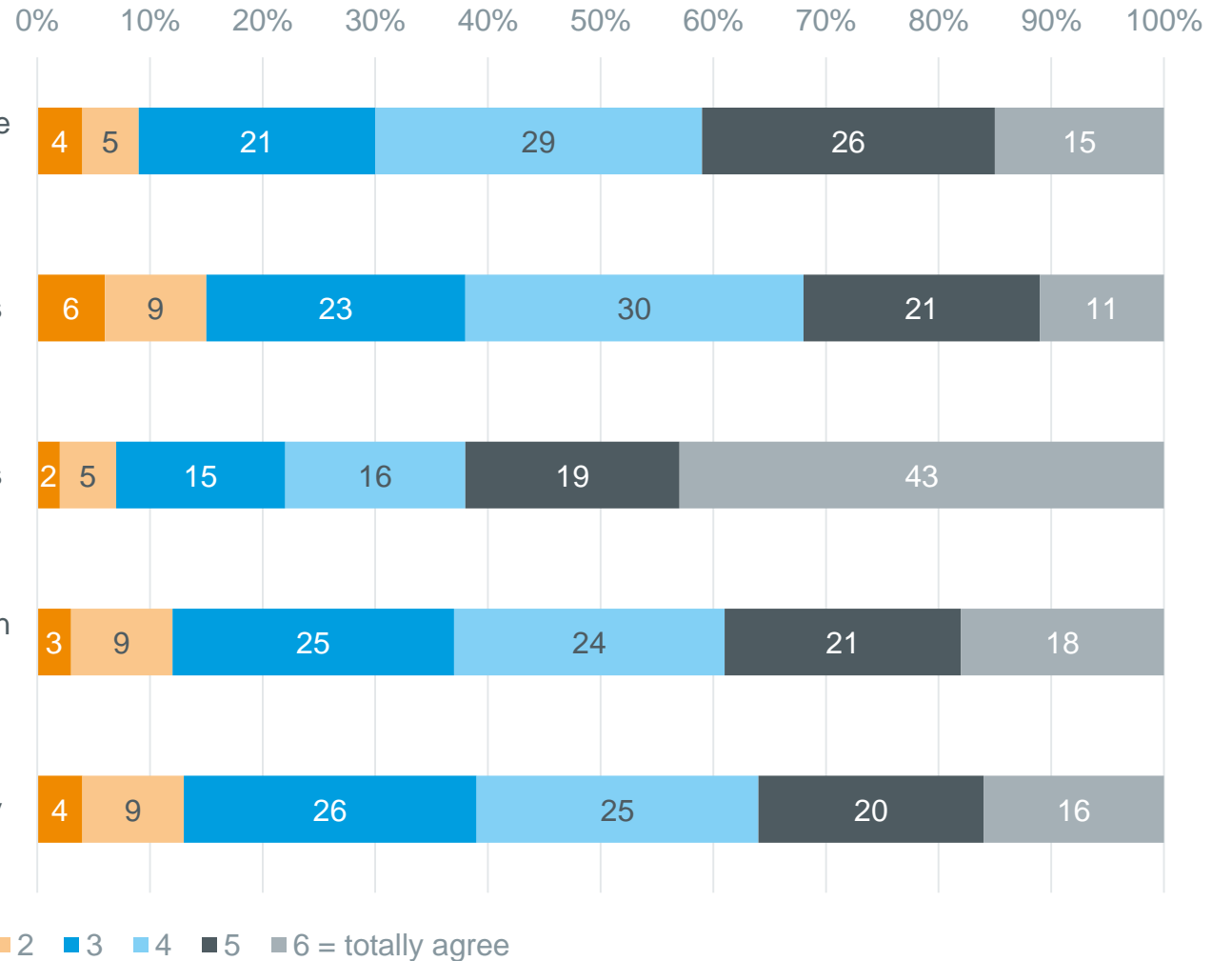
makes it easier for humans to set new tasks for a machine (touchpad or voice control)

enables machines to better assist human colleagues

will not replace people's social skills

is a misleading term, because a machine cannot learn intelligently like a human being

is a misleading term, because machines cannot act autonomously



Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

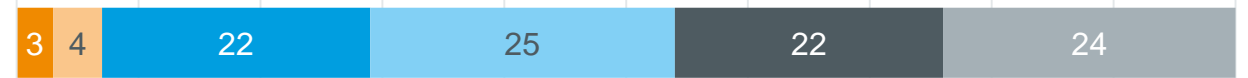
should be used by companies to support cooperation of man and machine



is a frightening technology



should be strictly controlled by law



is a technology of the future that will enrich people's workplaces



is a technology of the future that will not be controllable by humans anymore

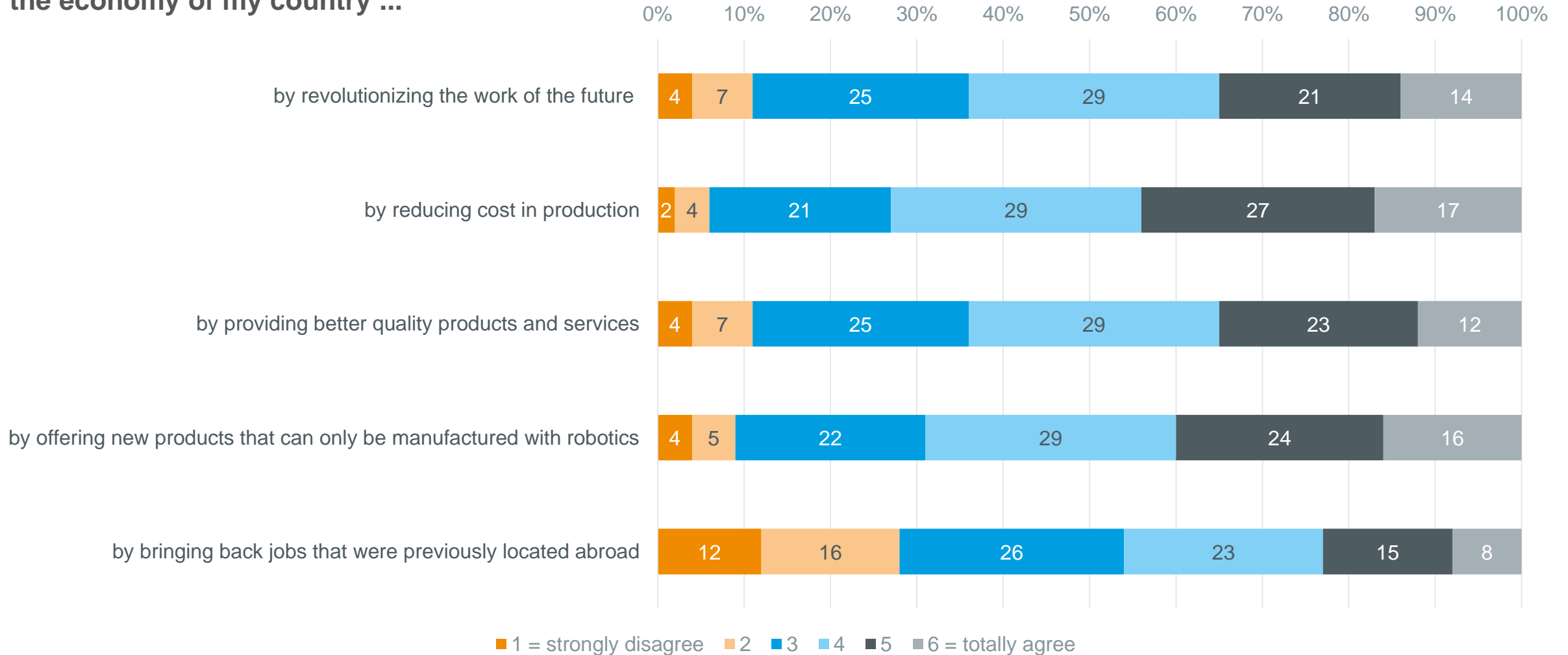


1 = strongly disagree 2 3 4 5 6 = totally agree

Question 5: What do you expect from digitization and robotics automation for the economy?



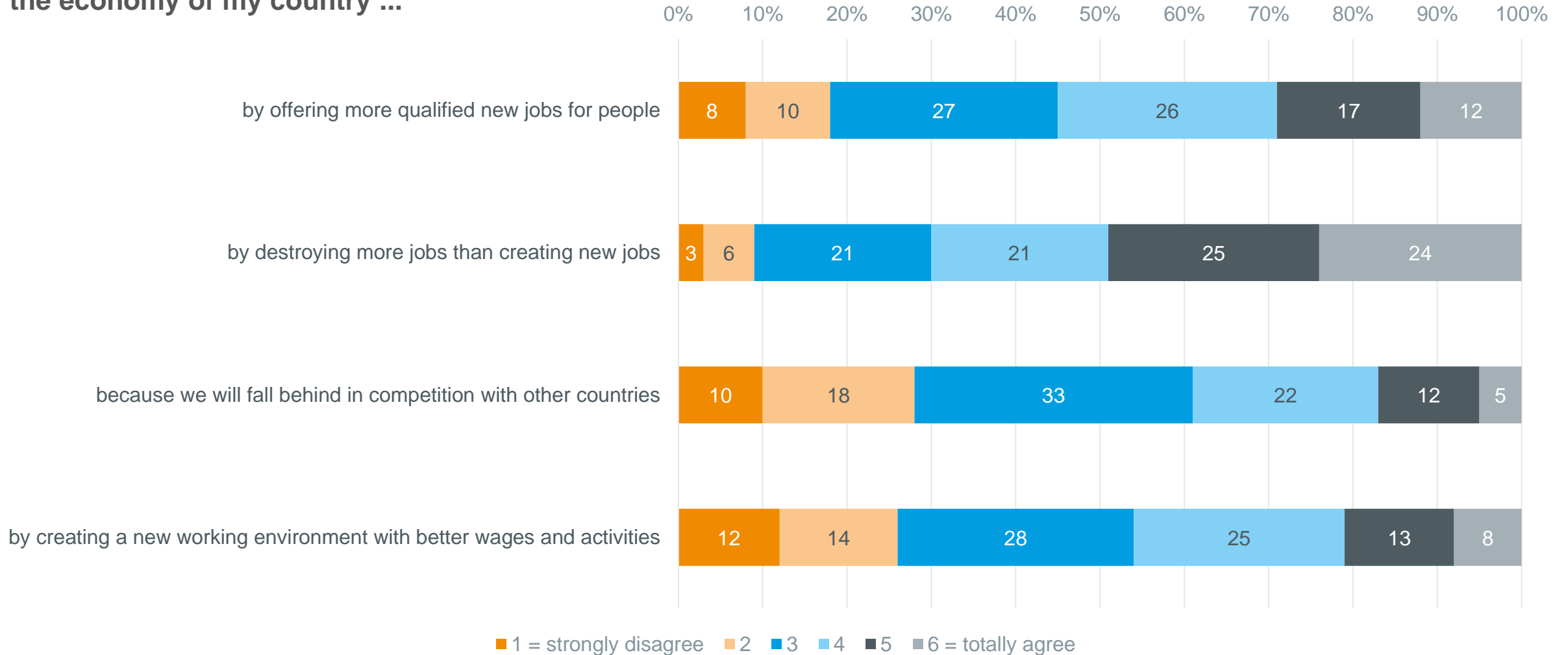
Digitization and robotics automation will transform the economy of my country ...

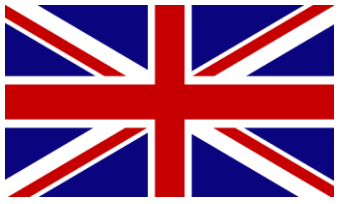


Question 5: What do you expect from digitization and robotics automation for the economy?



Digitization and robotics automation will transform the economy of my country ...





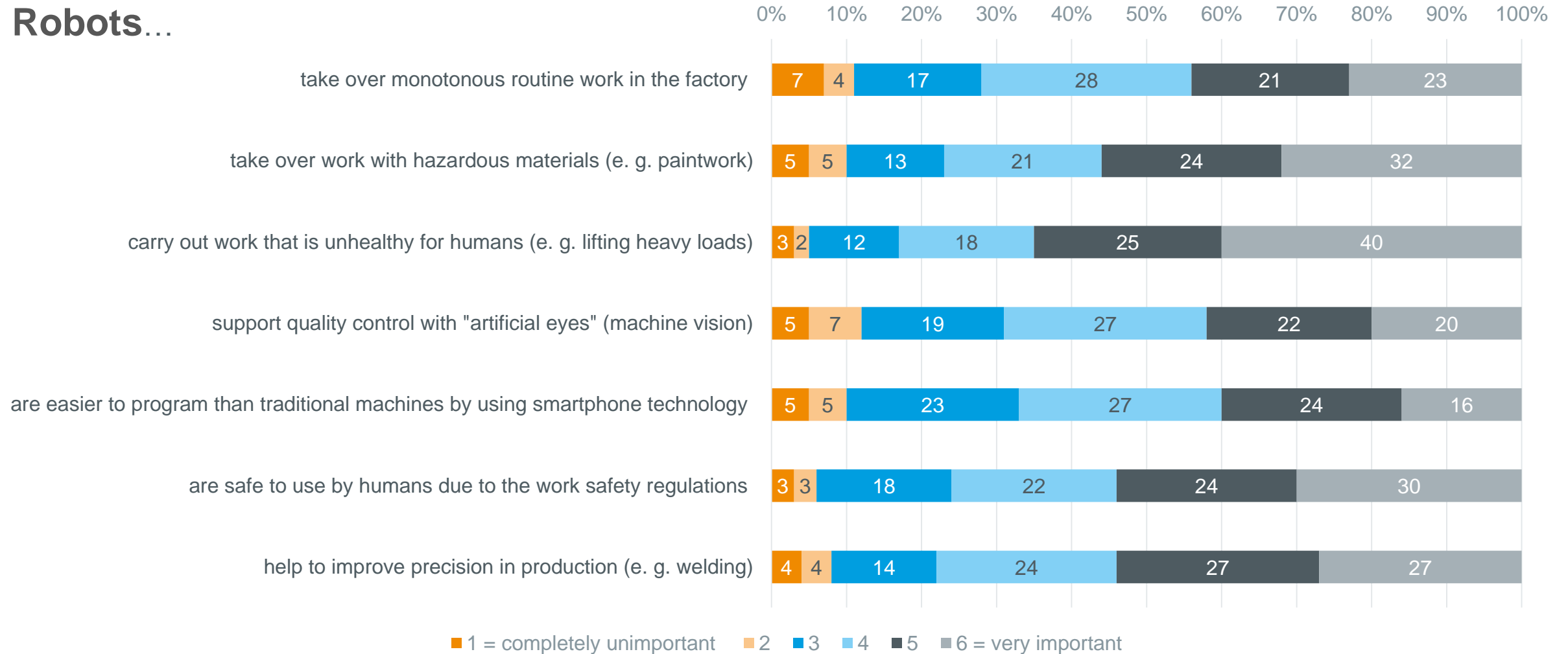
automatica trend index 2018

United Kingdom

Question 1: When you think about the workplace of the future, how do you assess the use of robots?



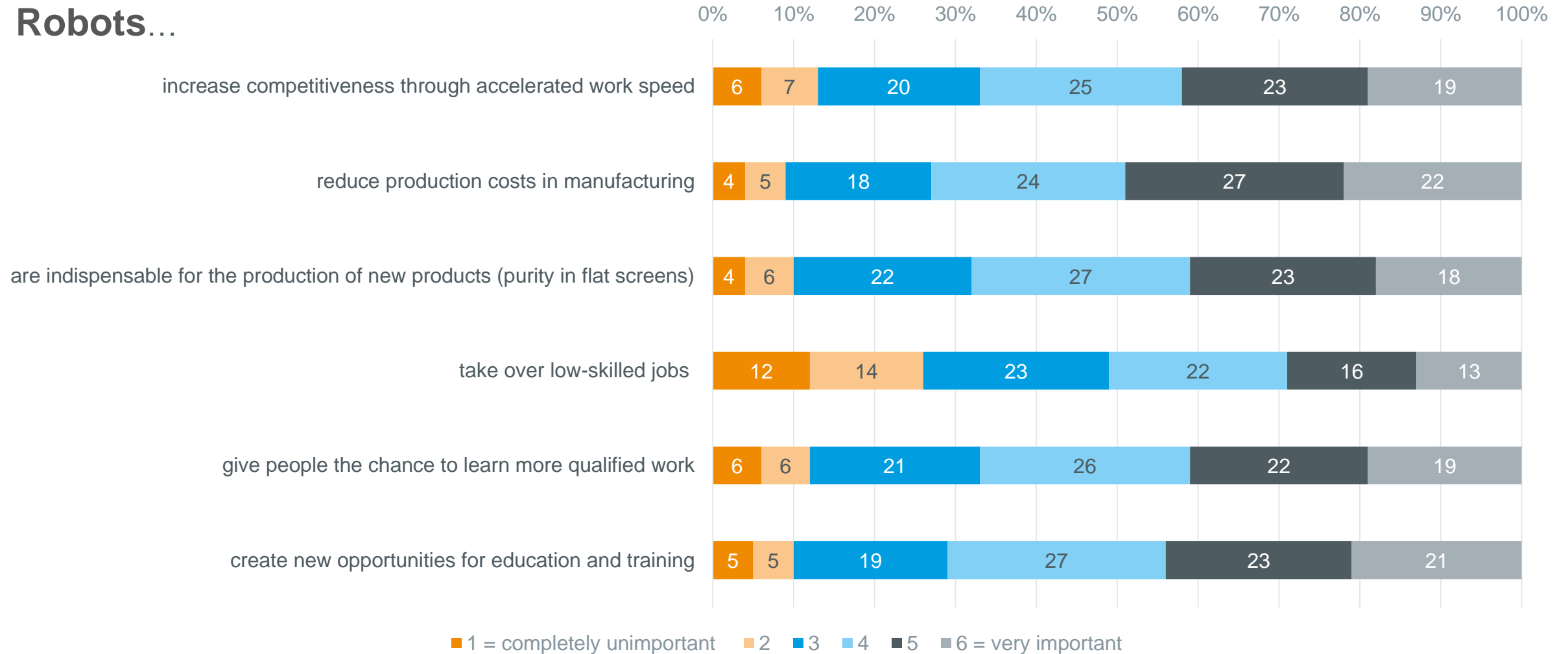
Robots...



Question 1: When you think about the workplace of the future, how do you assess the use of robots?



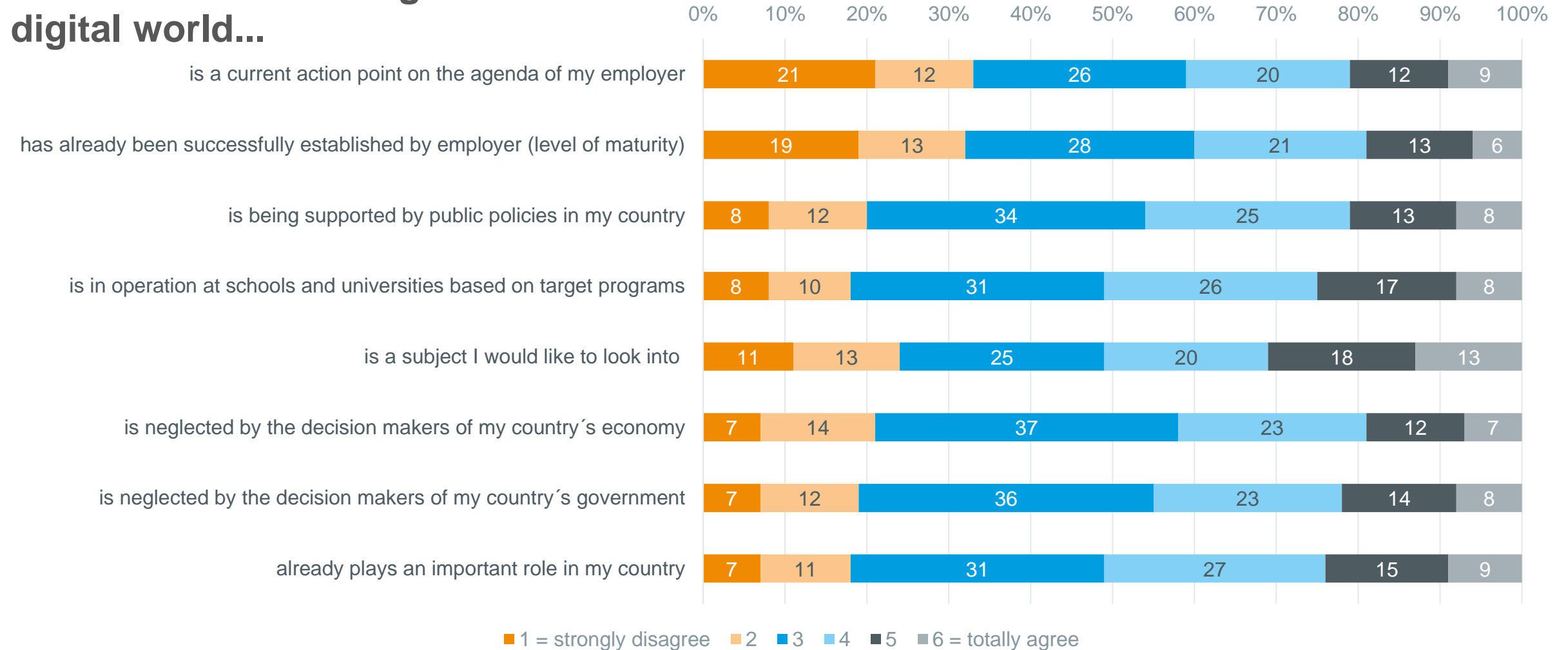
Robots...



Question 2: Let's take a look at education and training for the digital workplace of the future.



Education and training for the digital world...



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...

improve manufacturing by combining human talents (judgement, fine motor skills) with those of robots (force, precision)

improve the quality of manual work by enhancing precision

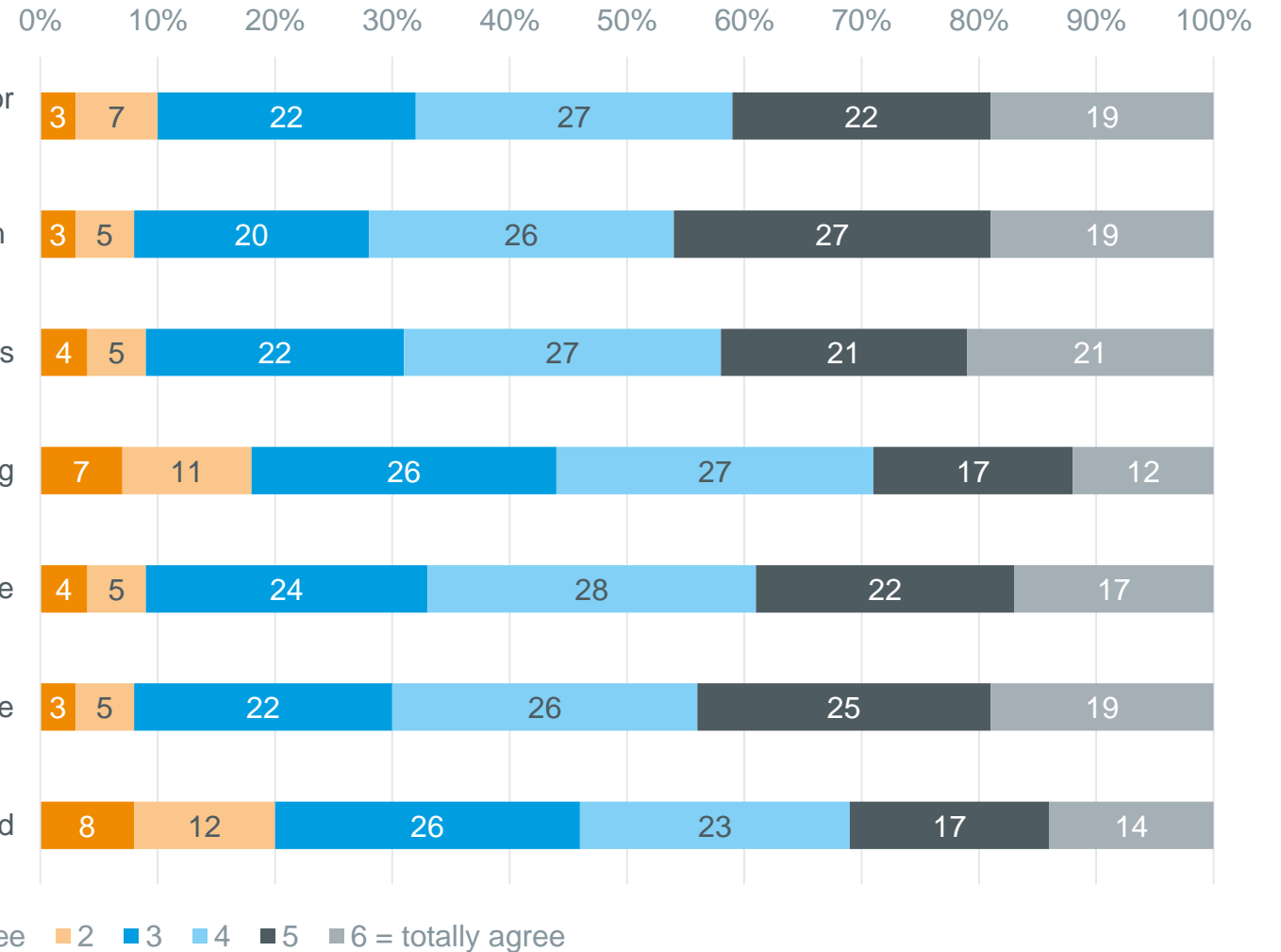
reduce costs

make the workplace more interesting

are becoming increasingly important at the workplace of the future

make companies more competitive

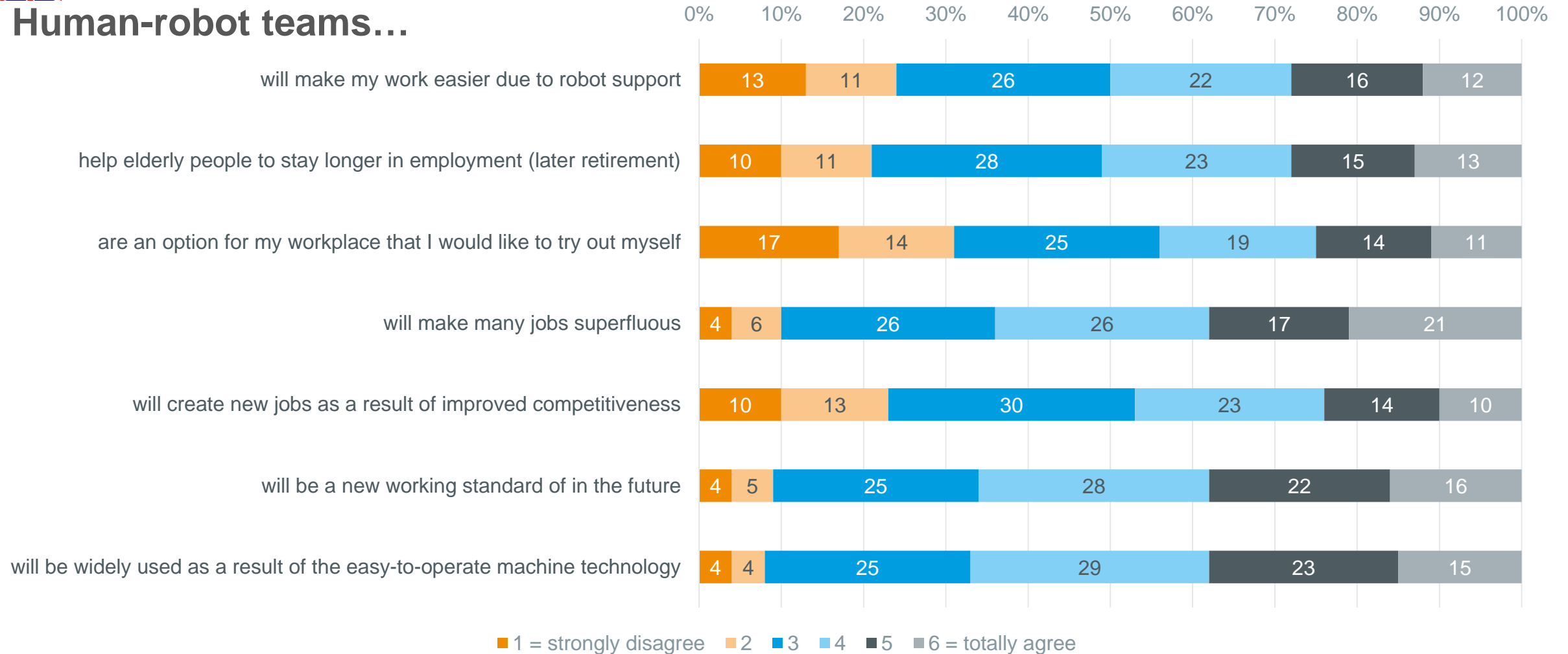
create more qualified jobs that are better paid



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...



Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

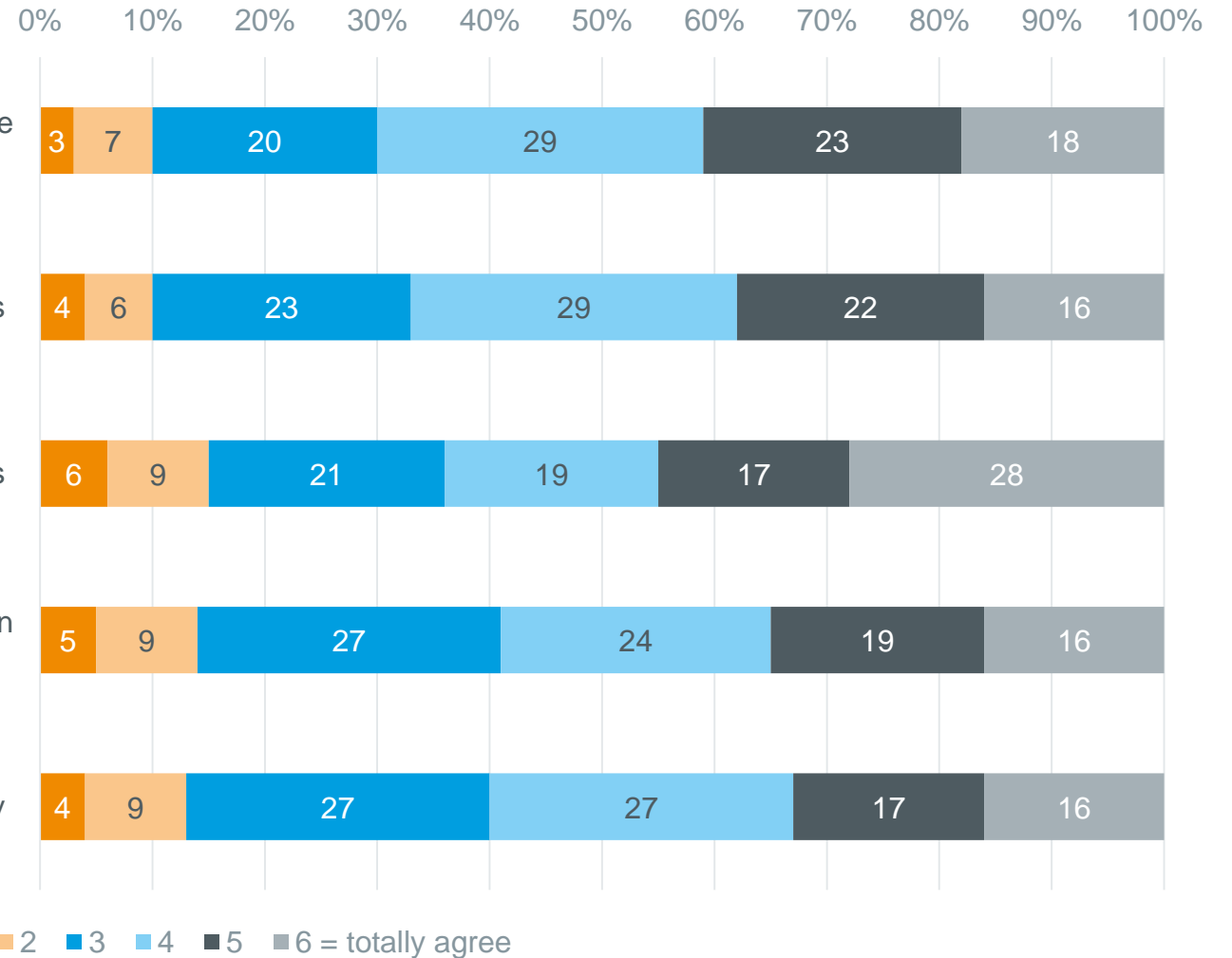
makes it easier for humans to set new tasks for a machine (touchpad or voice control)

enables machines to better assist human colleagues

will not replace people's social skills

is a misleading term, because a machine cannot learn intelligently like a human being

is a misleading term, because machines cannot act autonomously



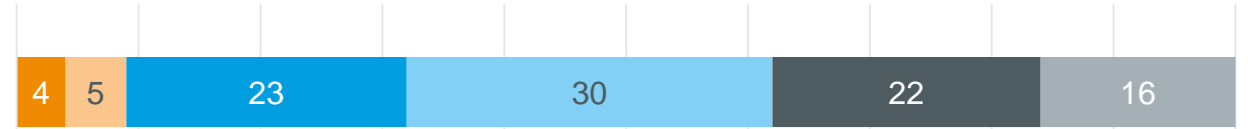
Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



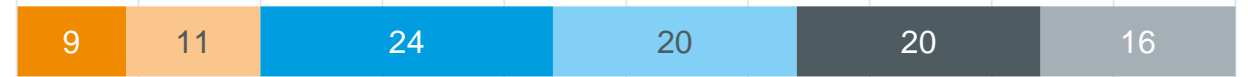
Artificial intelligence...

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

should be used by companies to support cooperation of man and machine



is a frightening technology



should be strictly controlled by law



is a technology of the future that will enrich people's workplaces



is a technology of the future that will not be controllable by humans anymore

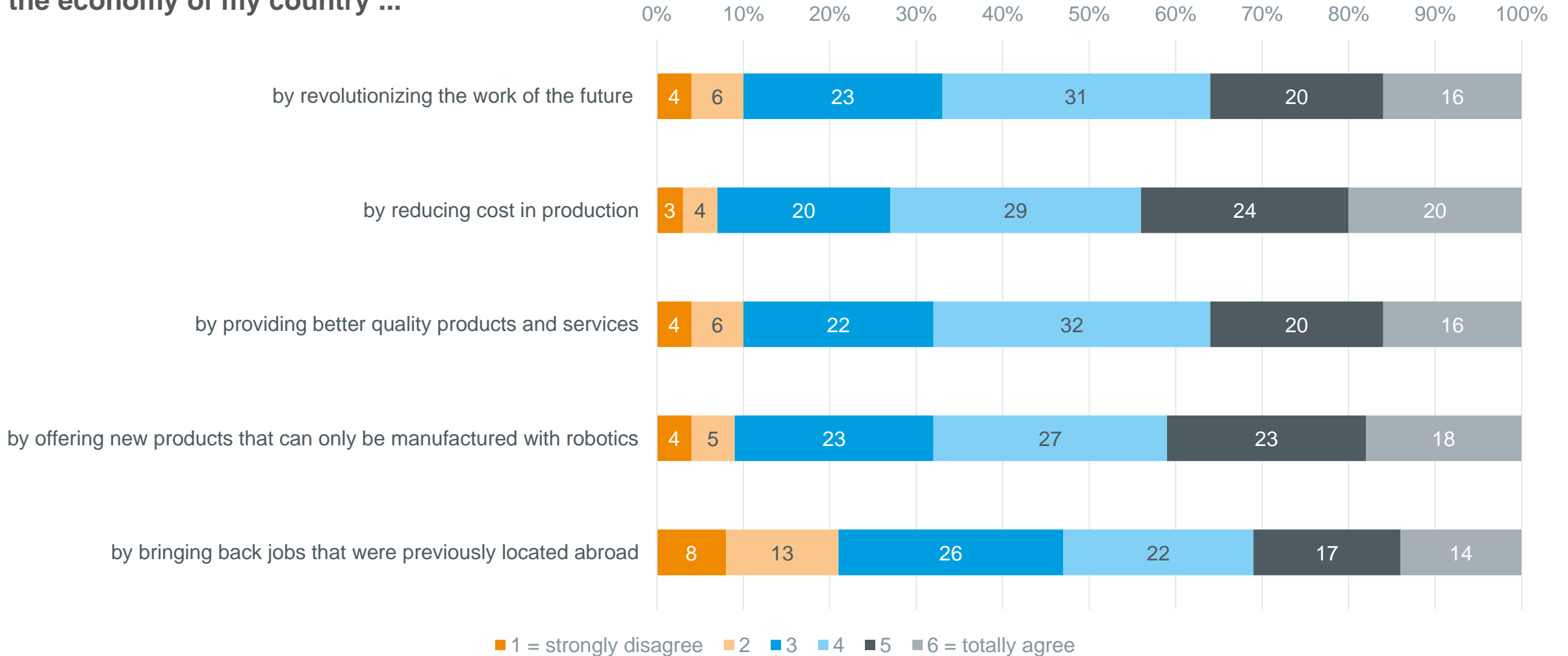


1 = strongly disagree 2 3 4 5 6 = totally agree

Question 5: What do you expect from digitization and robotics automation for the economy?



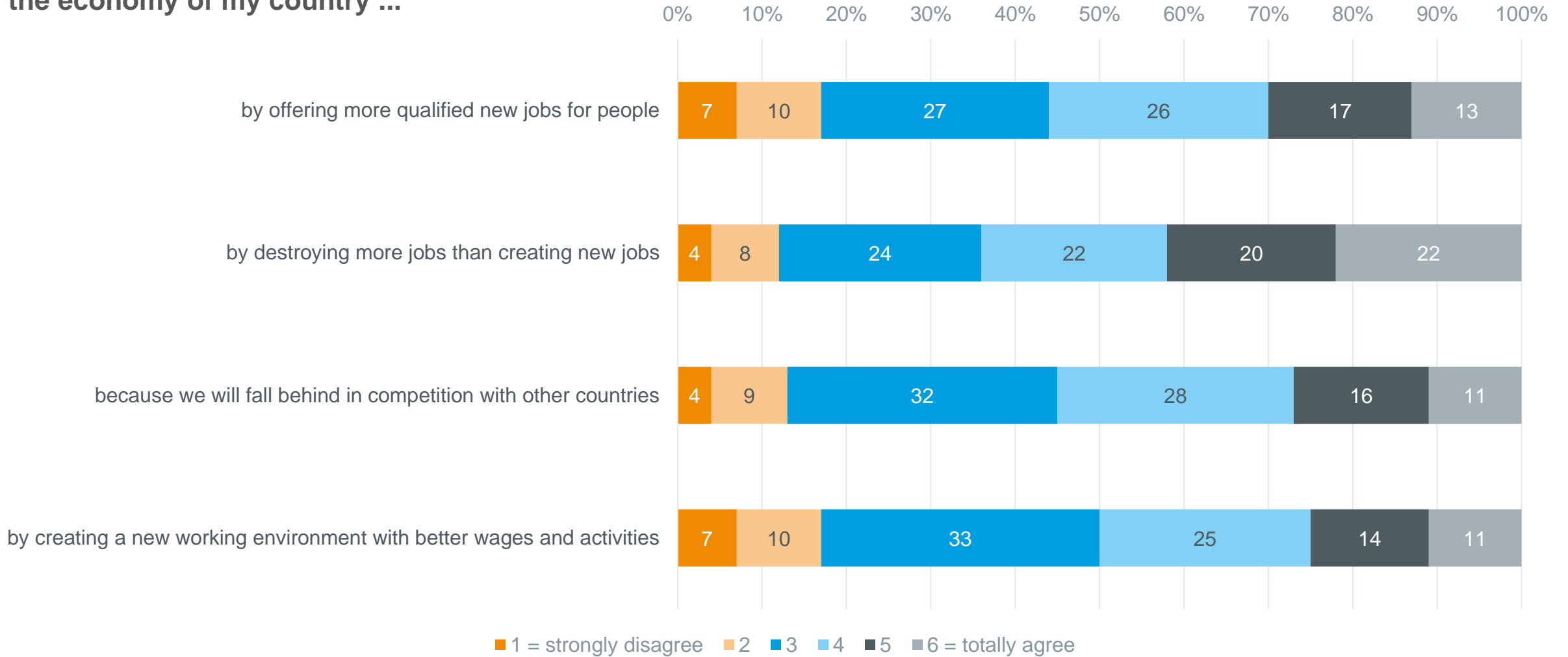
Digitization and robotics automation will transform the economy of my country ...

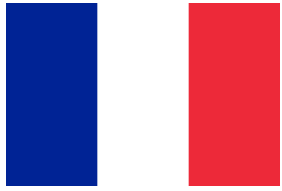


Question 5: What do you expect from digitization and robotics automation for the economy?



Digitization and robotics automation will transform the economy of my country ...





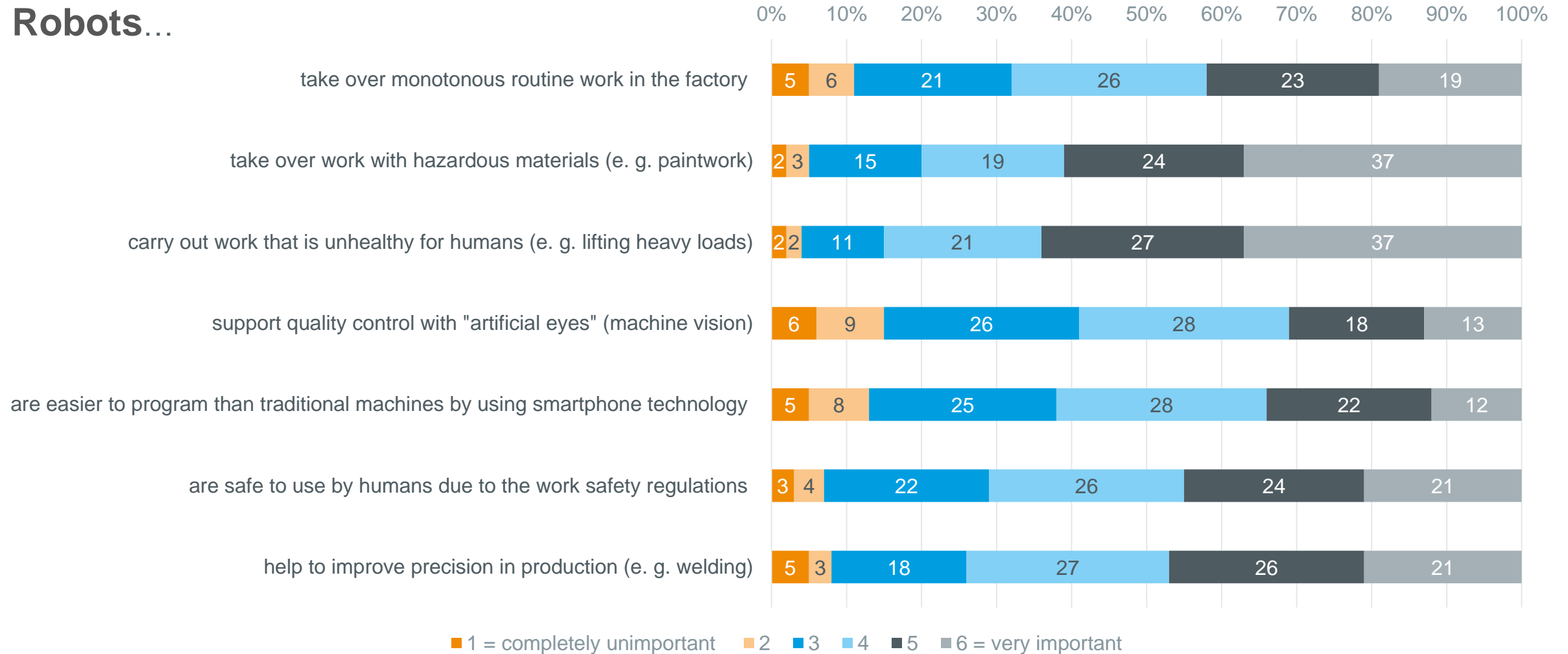
automatica trend index 2018

France

Question 1: When you think about the workplace of the future, how do you assess the use of robots?



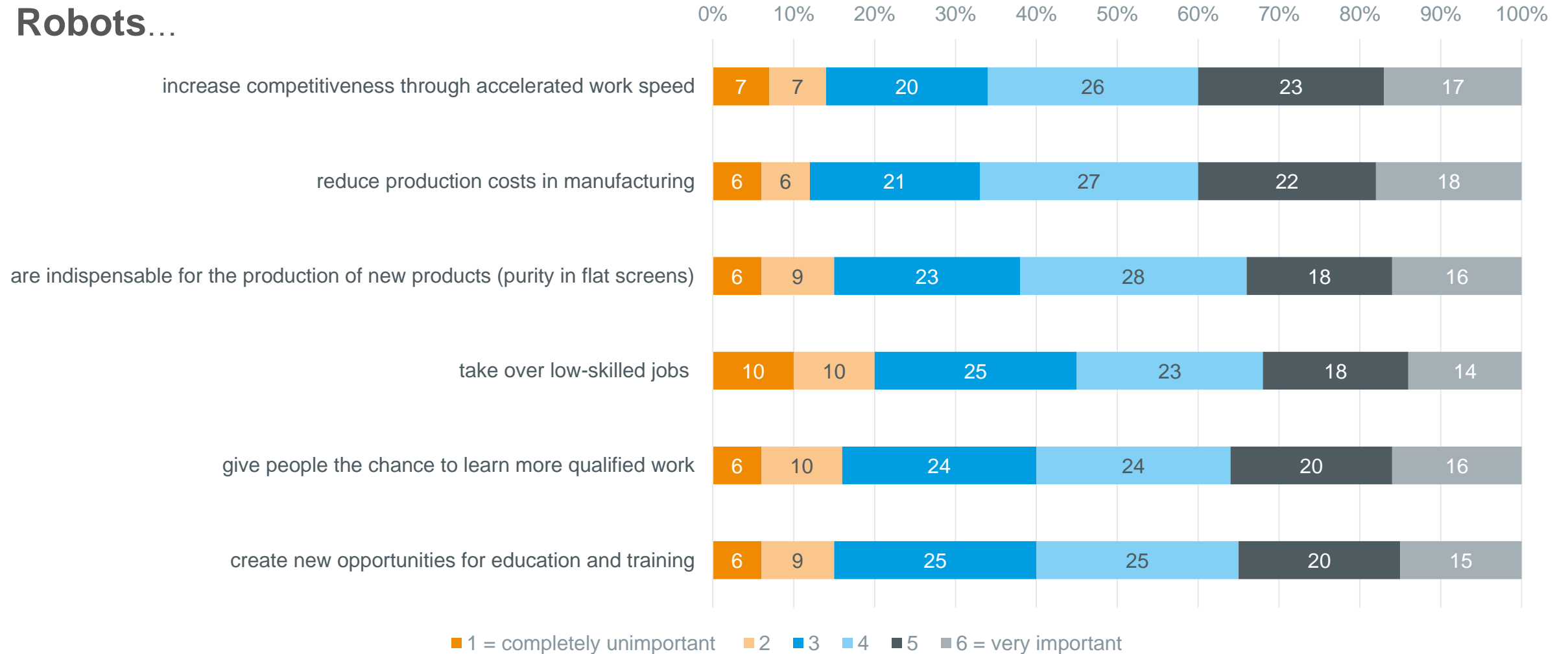
Robots...



Question 1: When you think about the workplace of the future, how do you assess the use of robots?

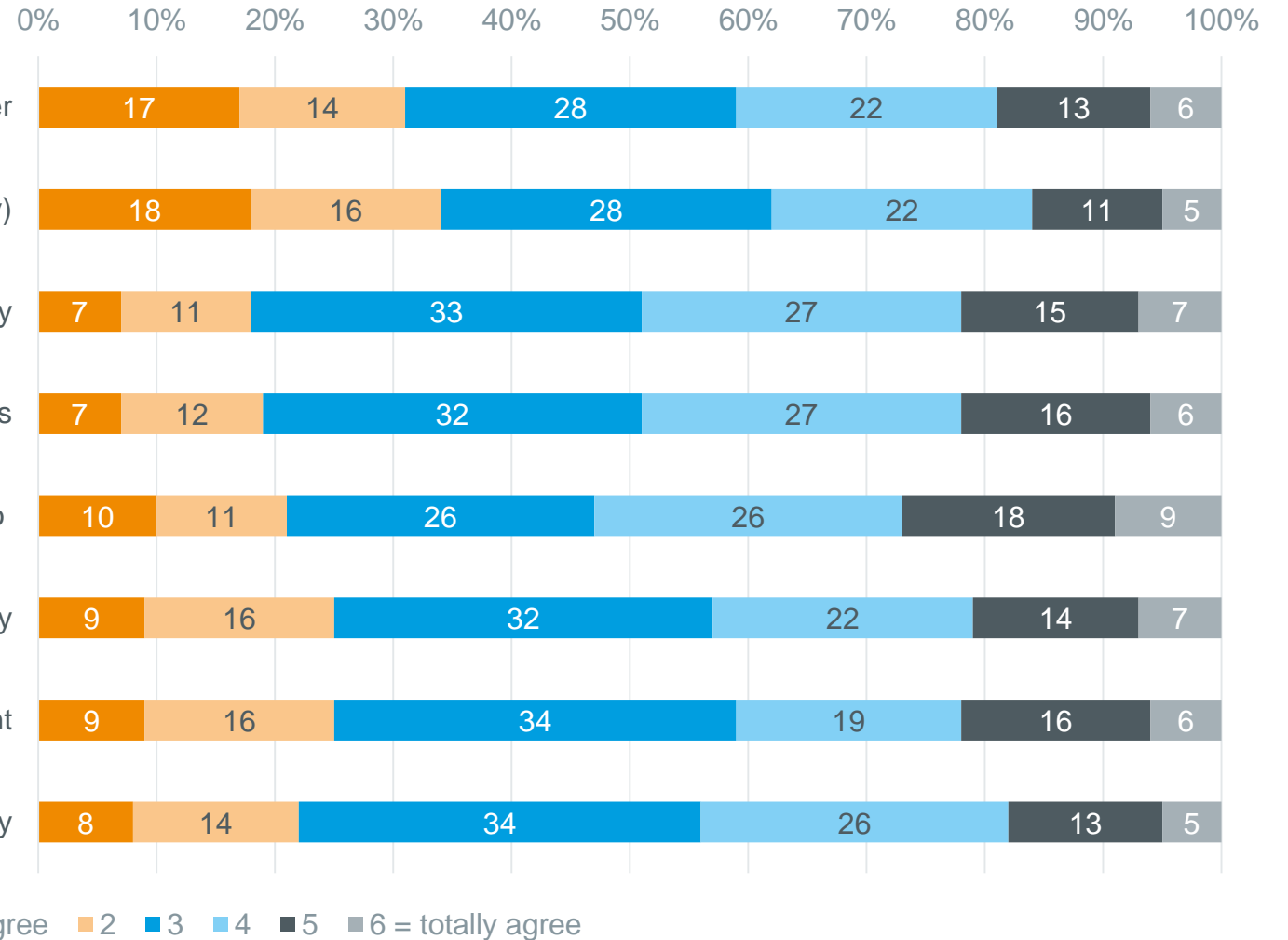


Robots...



Question 2: Let's take a look at education and training for the digital workplace of the future.

Education and training for the digital world...



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...

improve manufacturing by combining human talents (judgement, fine motor skills) with those of robots (force, precision)

improve the quality of manual work by enhancing precision

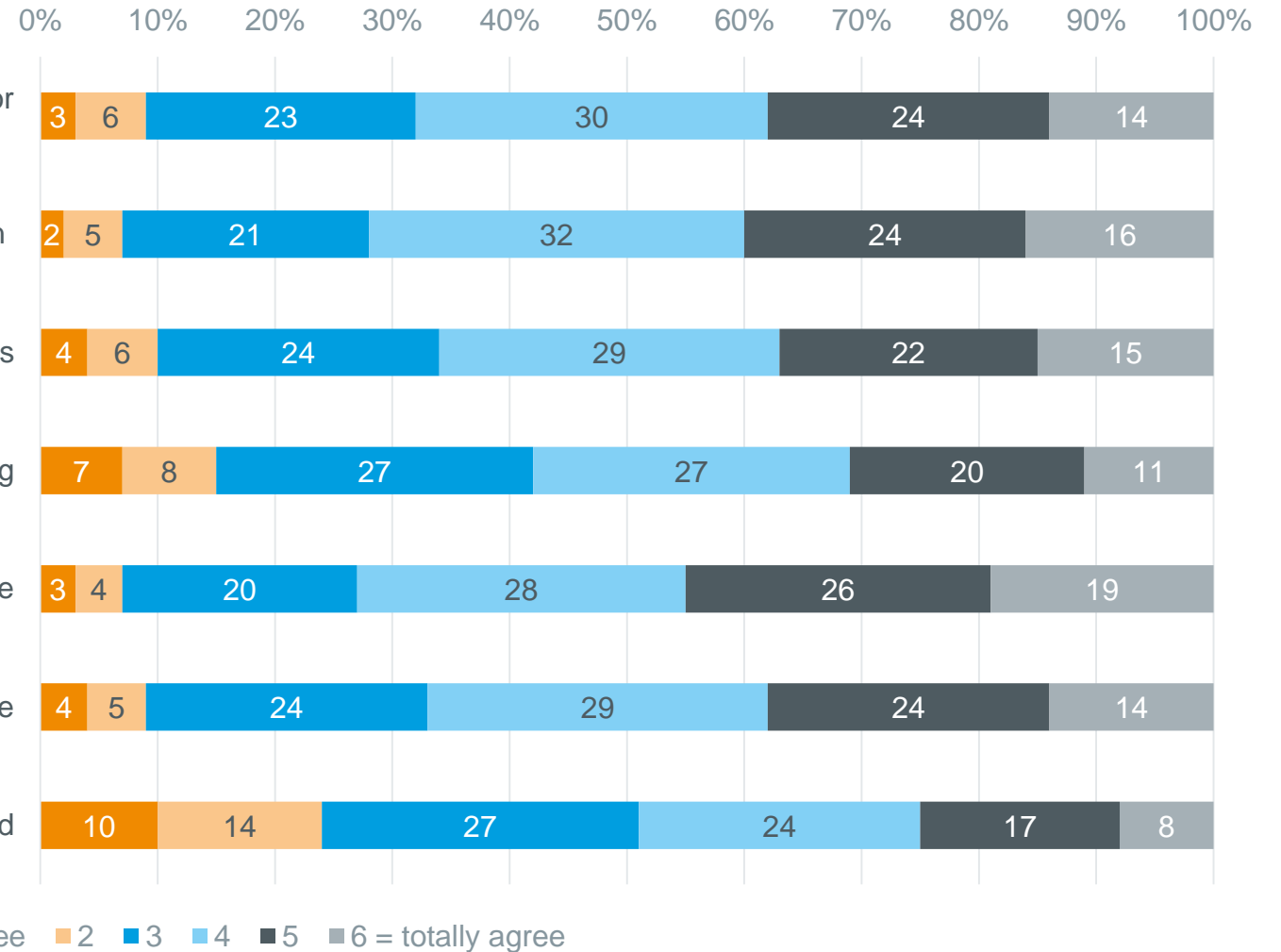
reduce costs

make the workplace more interesting

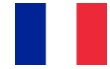
are becoming increasingly important at the workplace of the future

make companies more competitive

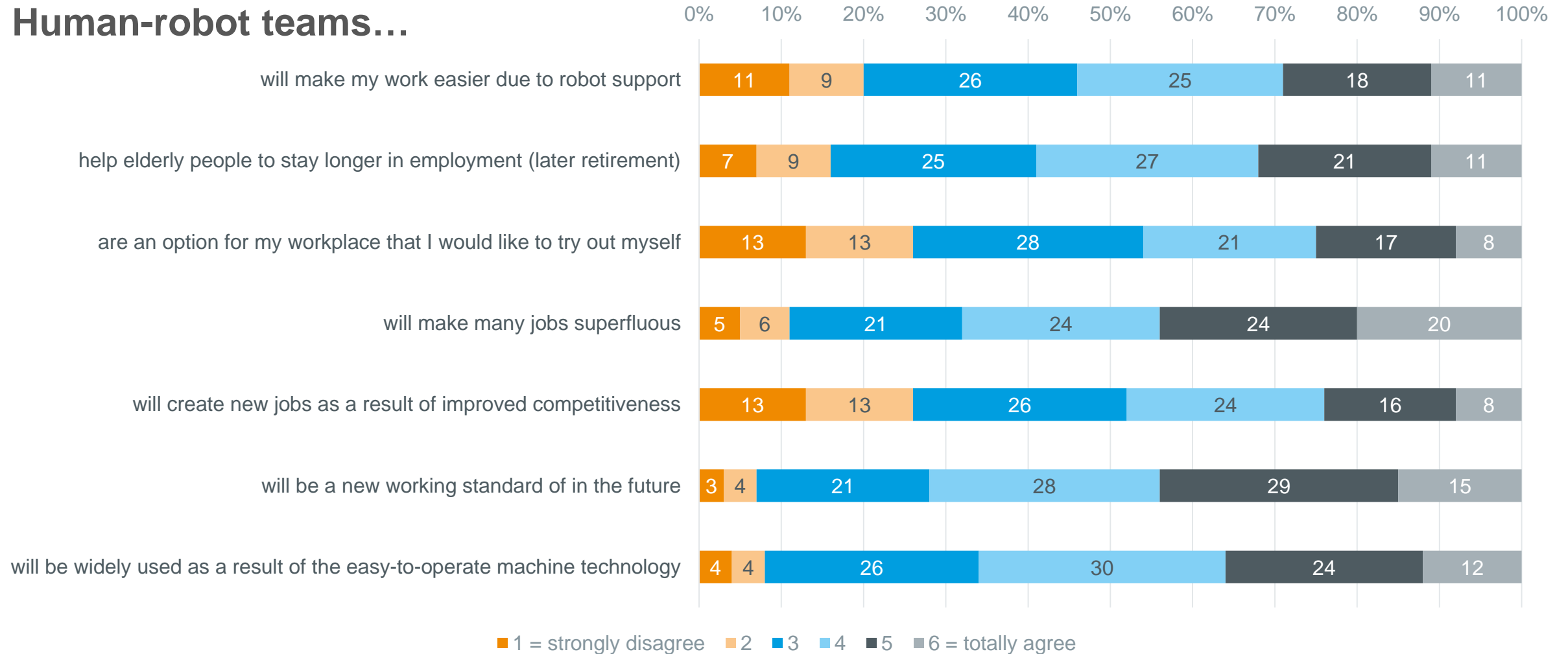
create more qualified jobs that are better paid



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



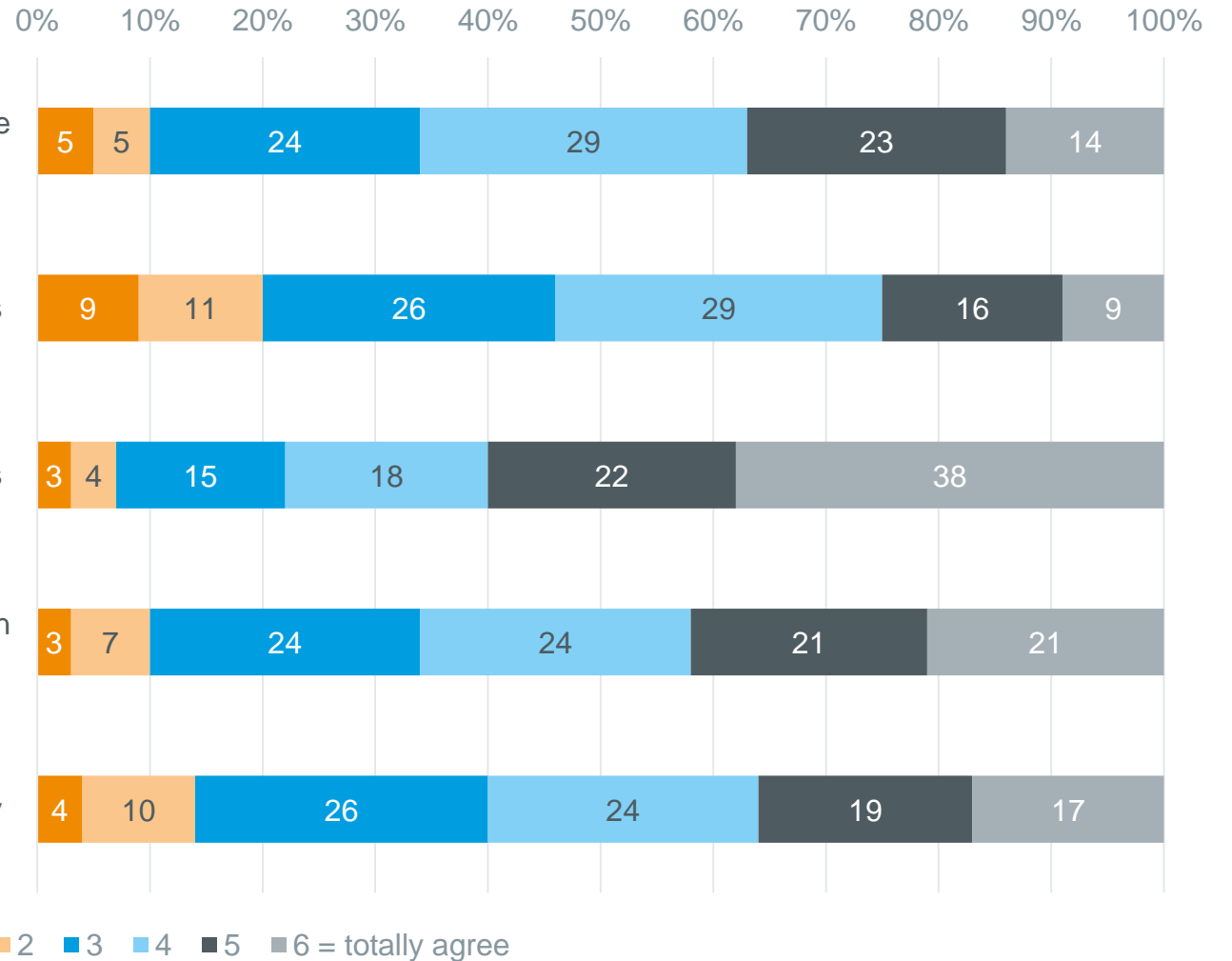
Human-robot teams...



Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.

Artificial intelligence...

- makes it easier for humans to set new tasks for a machine (touchpad or voice control)
- enables machines to better assist human colleagues
- will not replace people's social skills
- is a misleading term, because a machine cannot learn intelligently like a human being
- is a misleading term, because machines cannot act autonomously



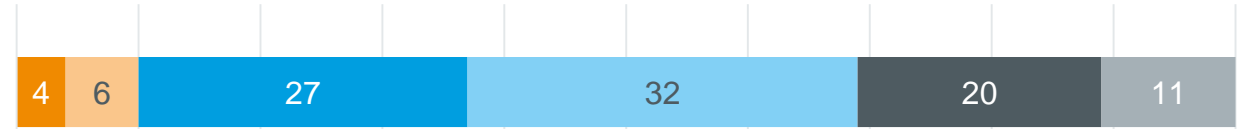
Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

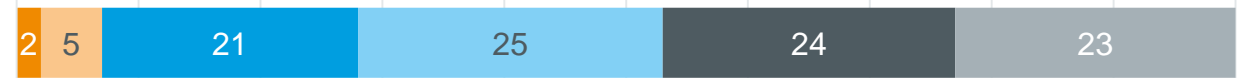
should be used by companies to support cooperation of man and machine



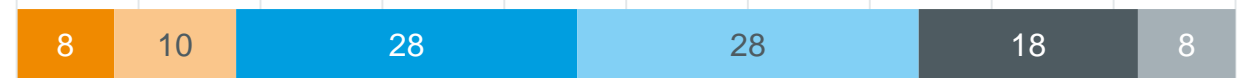
is a frightening technology



should be strictly controlled by law



is a technology of the future that will enrich people's workplaces



is a technology of the future that will not be controllable by humans anymore

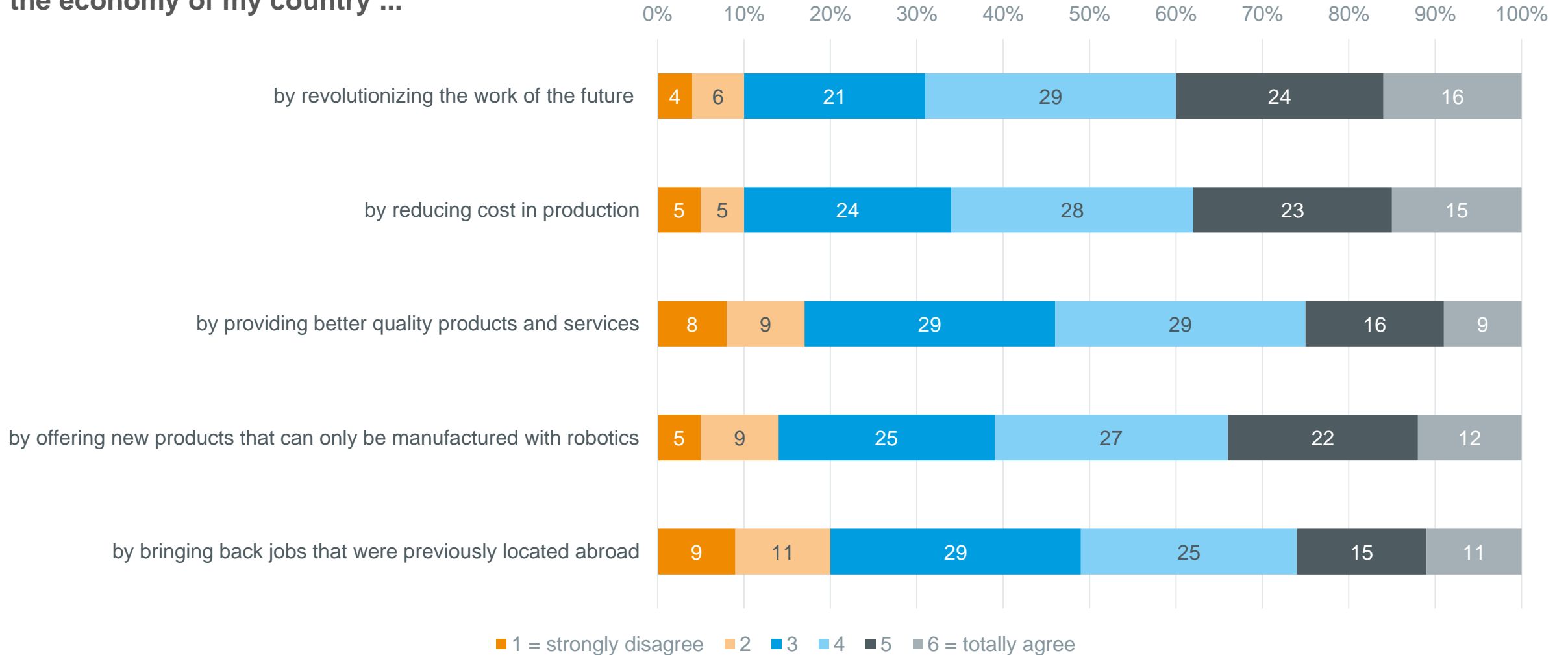


1 = strongly disagree 2 3 4 5 6 = totally agree

Question 5: What do you expect from digitization and robotics automation for the economy?



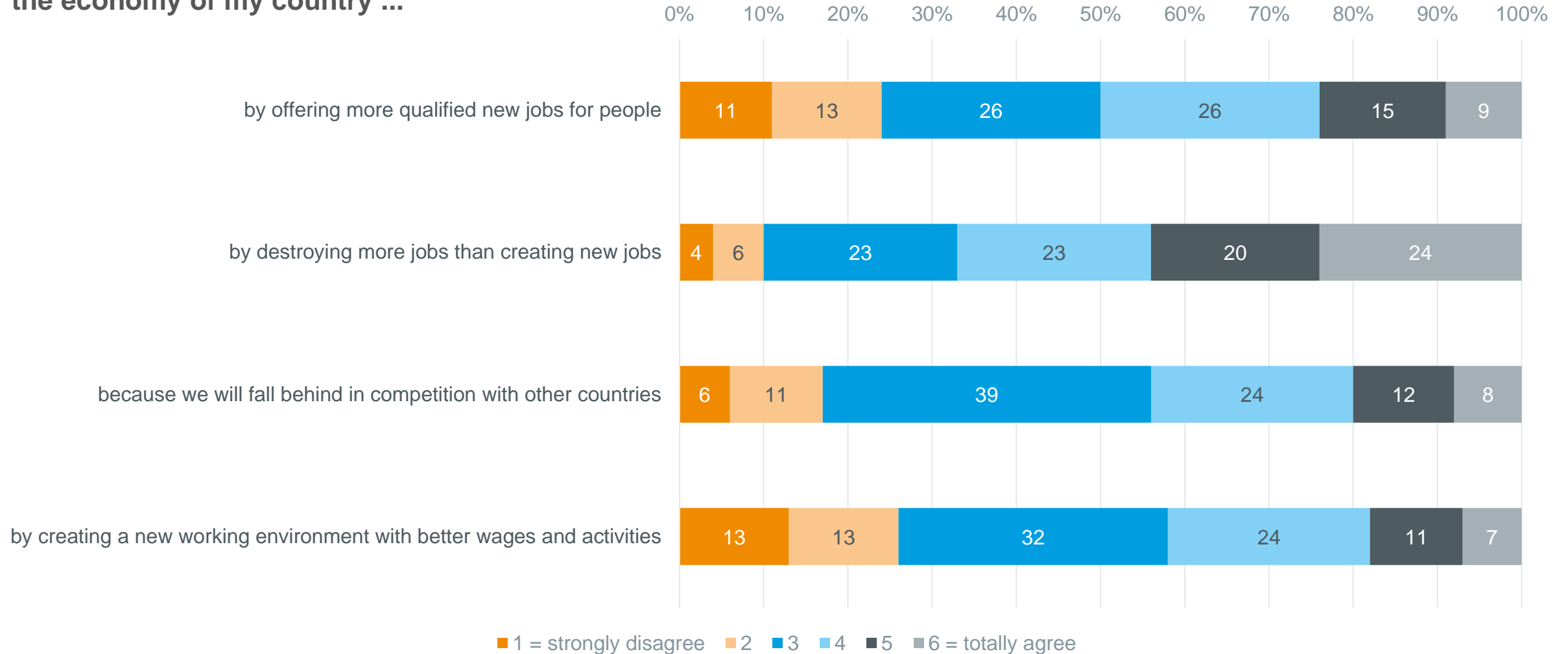
Digitization and robotics automation will transform the economy of my country ...



Question 5: What do you expect from digitization and robotics automation for the economy?



Digitization and robotics automation will transform the economy of my country ...





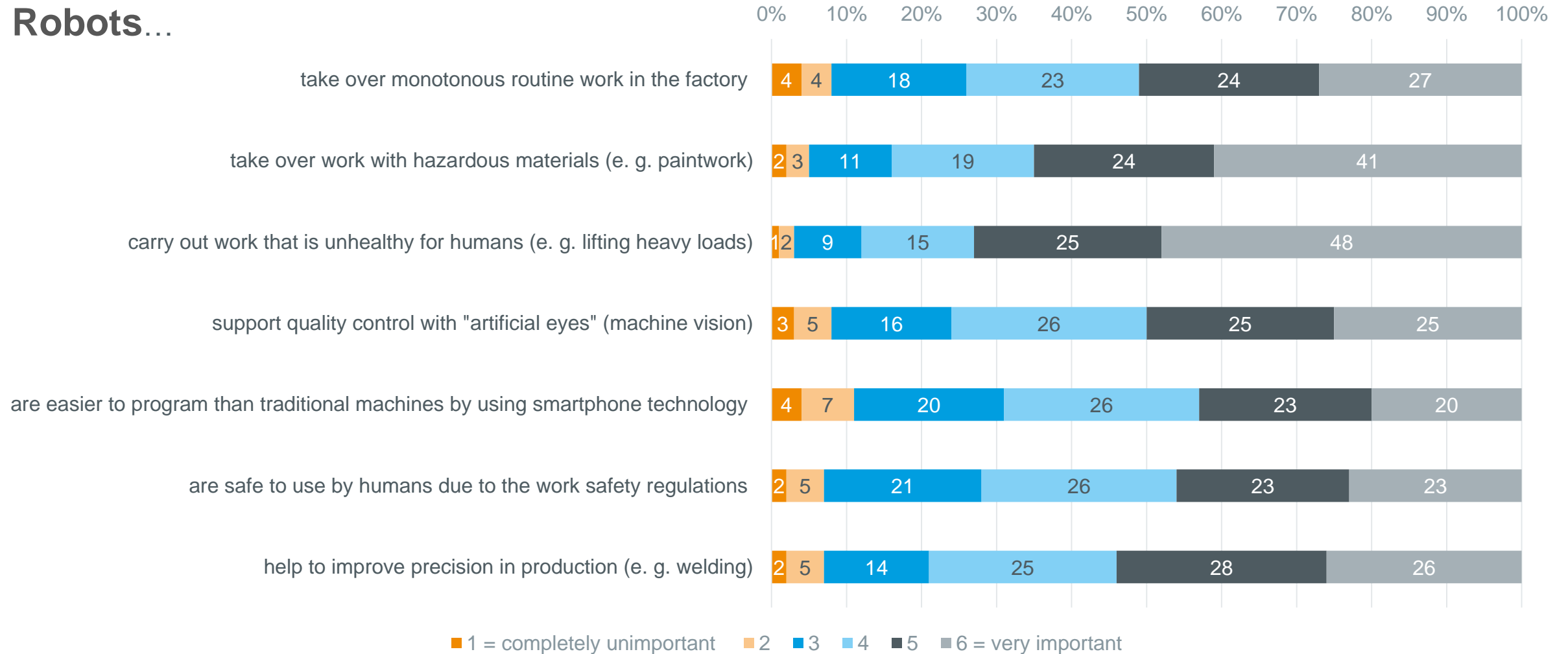
automatica trend index 2018

Italy

Question 1: When you think about the workplace of the future, how do you assess the use of robots?



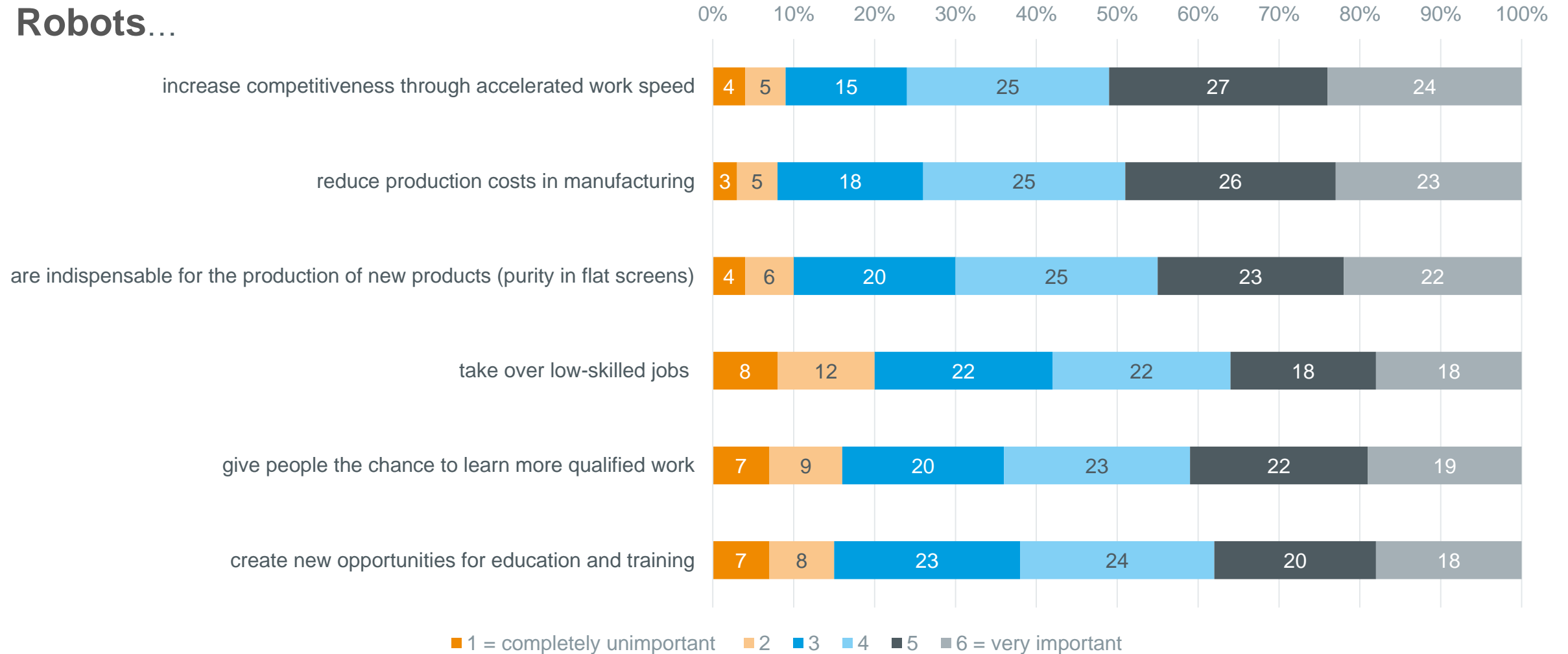
Robots...



Question 1: When you think about the workplace of the future, how do you assess the use of robots?

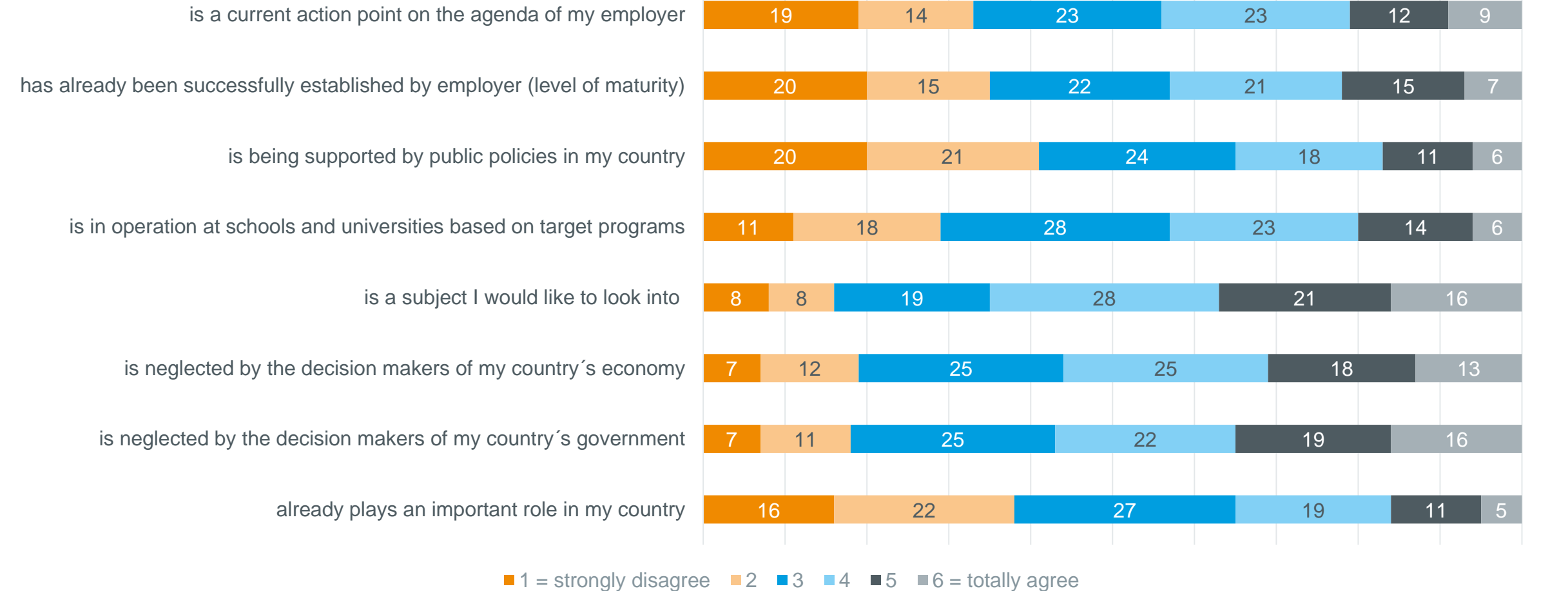


Robots...



Question 2: Let's take a look at education and training for the digital workplace of the future.

Education and training for the digital world...



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...

improve manufacturing by combining human talents (judgement, fine motor skills) with those of robots (force, precision)

improve the quality of manual work by enhancing precision

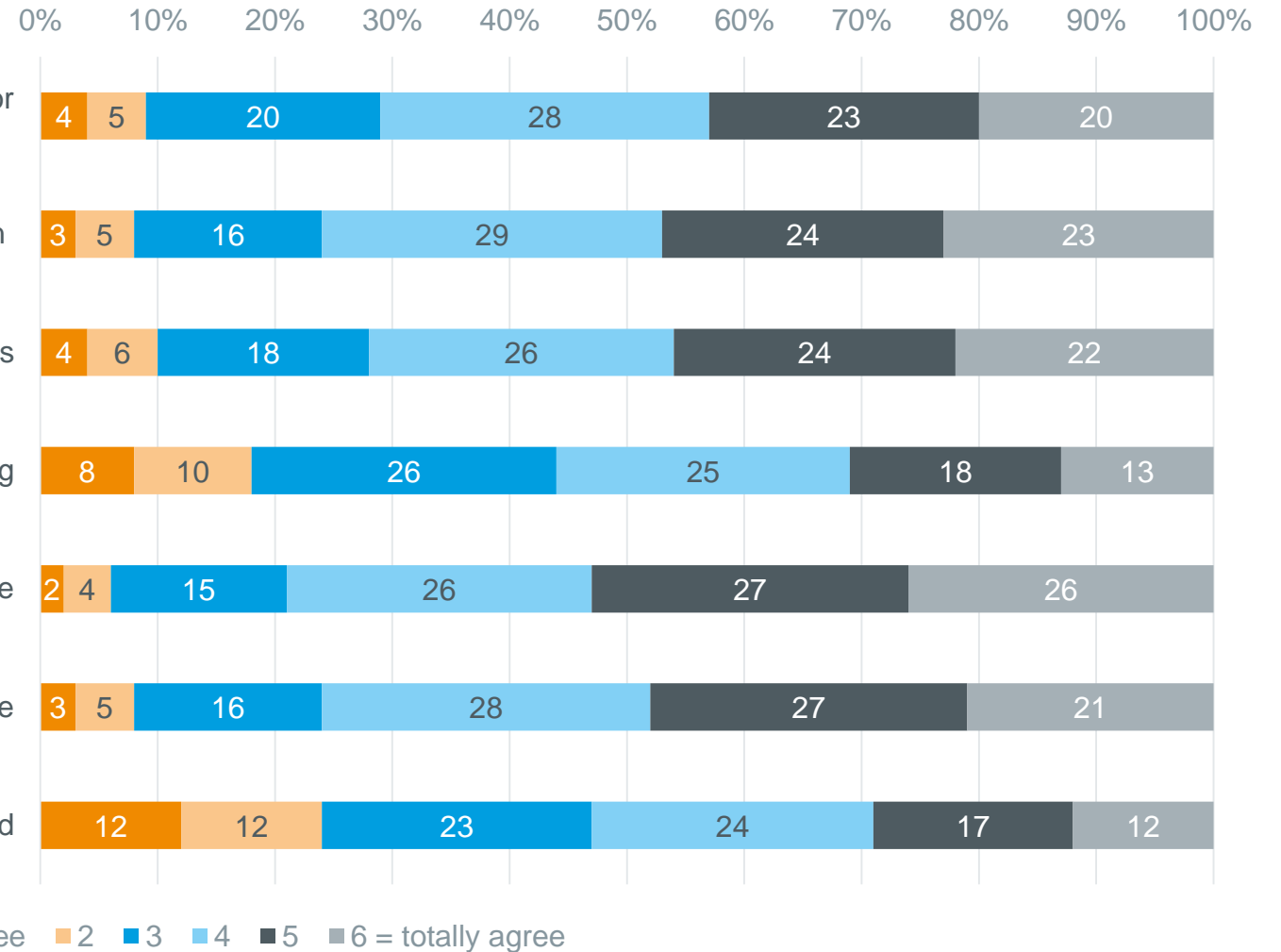
reduce costs

make the workplace more interesting

are becoming increasingly important at the workplace of the future

make companies more competitive

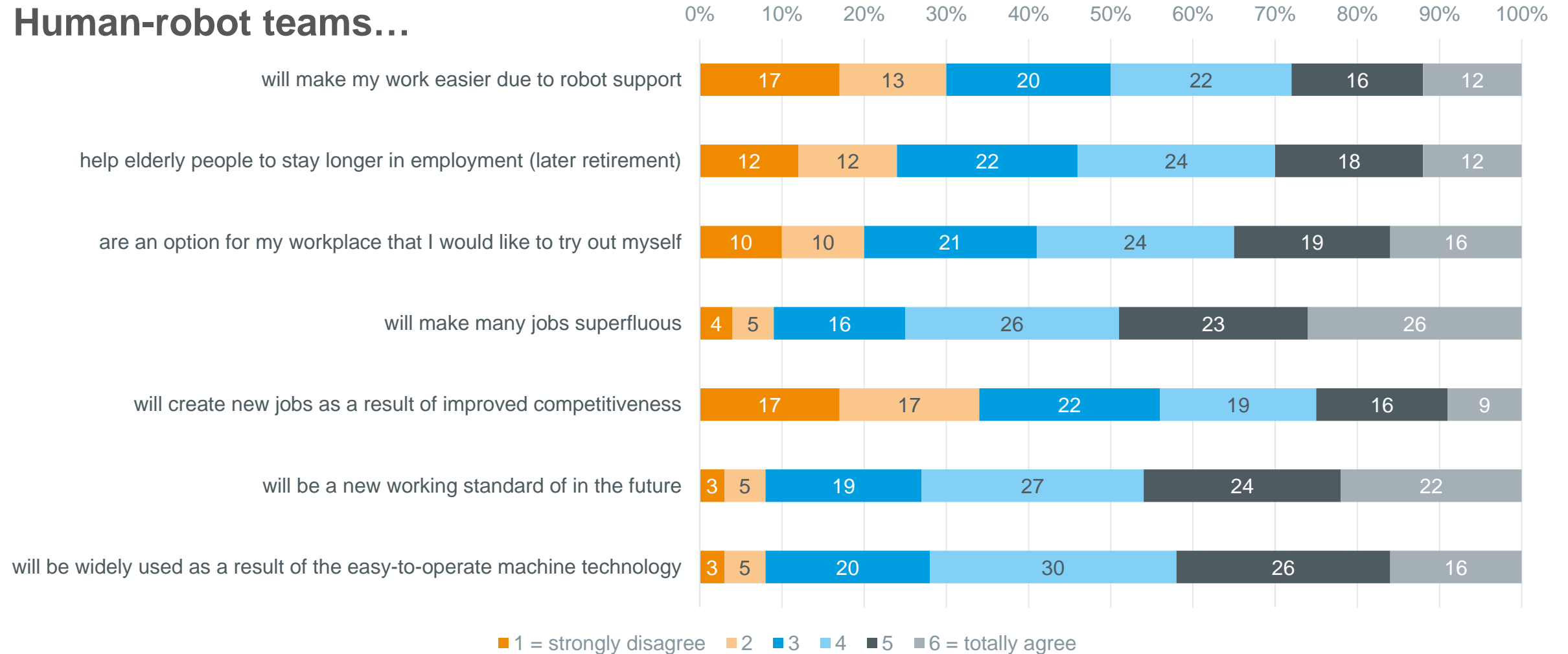
create more qualified jobs that are better paid



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...

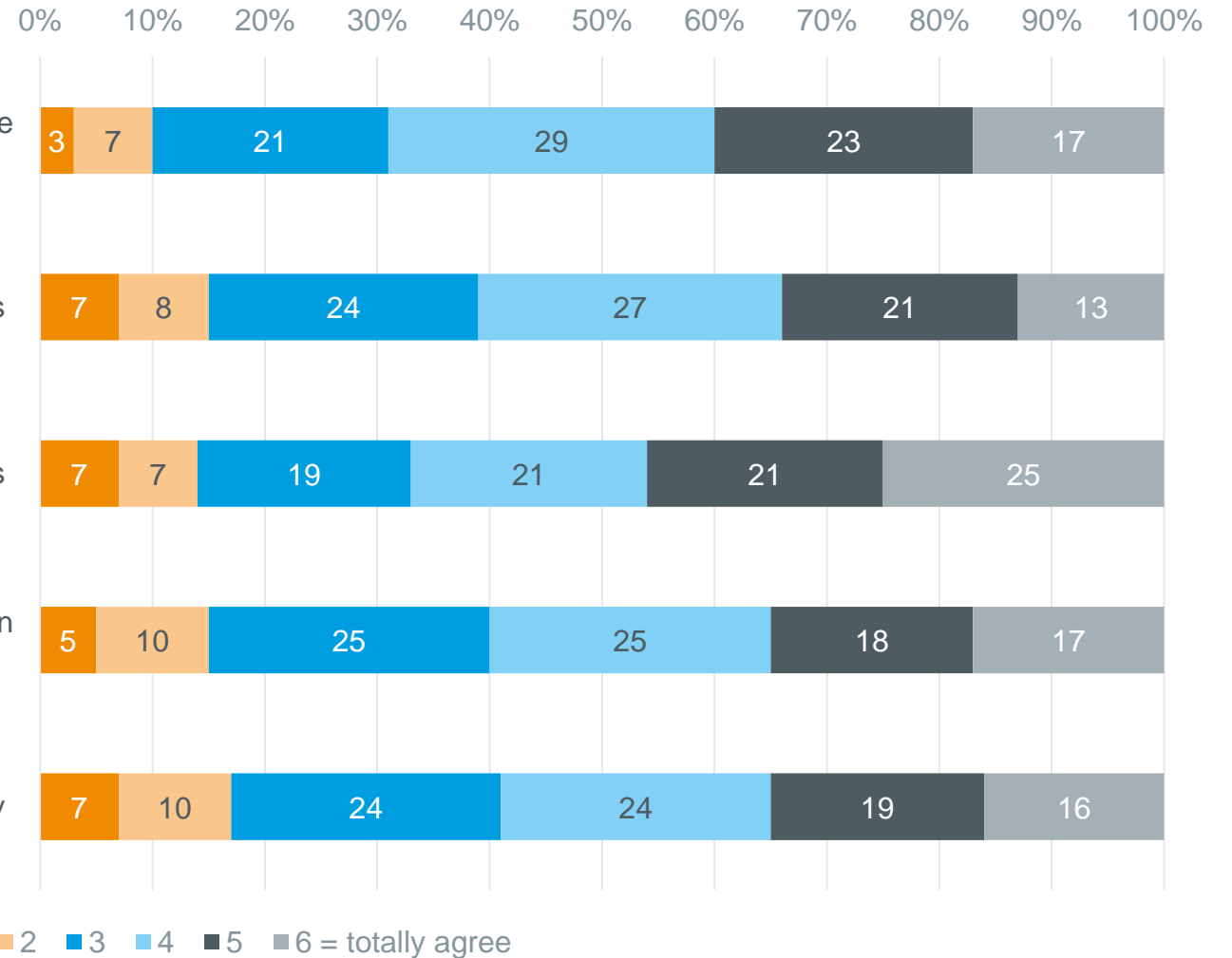


Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

- makes it easier for humans to set new tasks for a machine (touchpad or voice control)
- enables machines to better assist human colleagues
- will not replace people's social skills
- is a misleading term, because a machine cannot learn intelligently like a human being
- is a misleading term, because machines cannot act autonomously



Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

should be used by companies to support cooperation of man and machine



is a frightening technology



should be strictly controlled by law



is a technology of the future that will enrich people's workplaces



is a technology of the future that will not be controllable by humans anymore

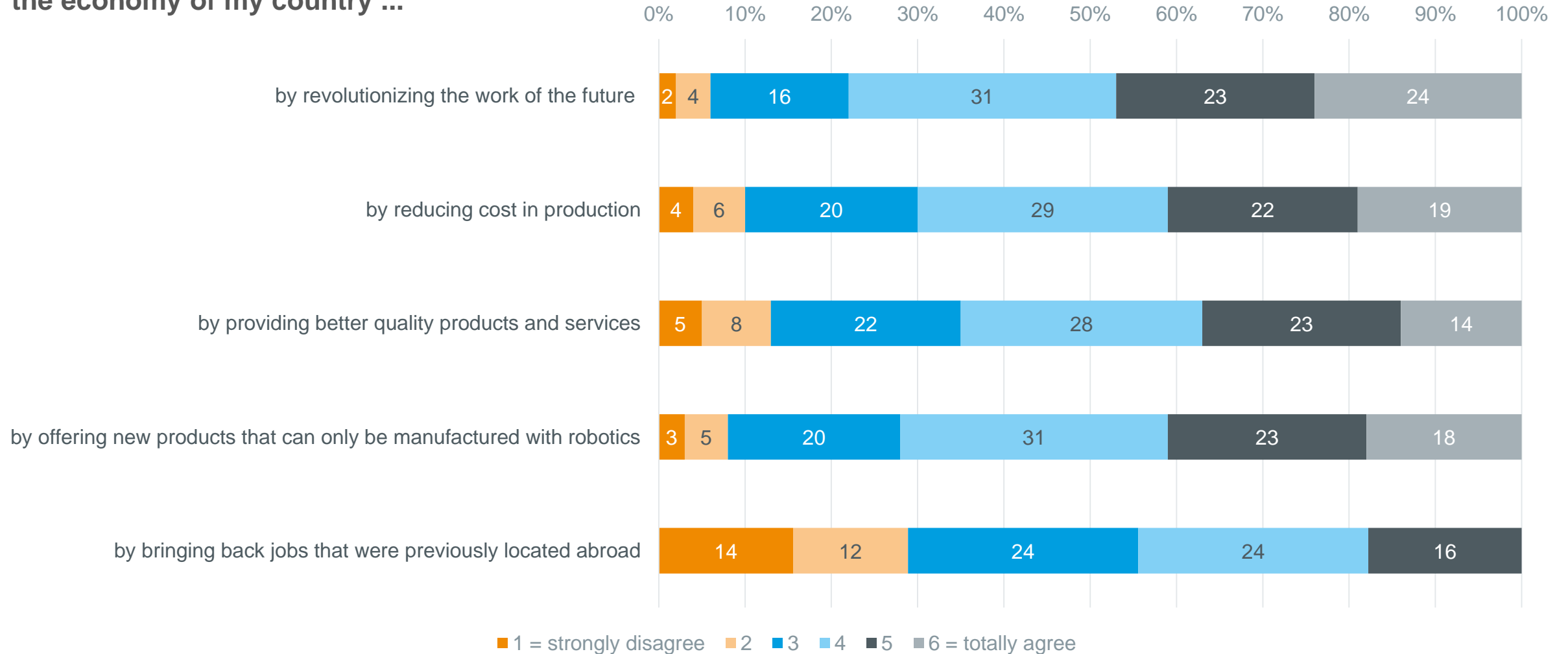


1 = strongly disagree 2 3 4 5 6 = totally agree

Question 5: What do you expect from digitization and robotics automation for the economy?



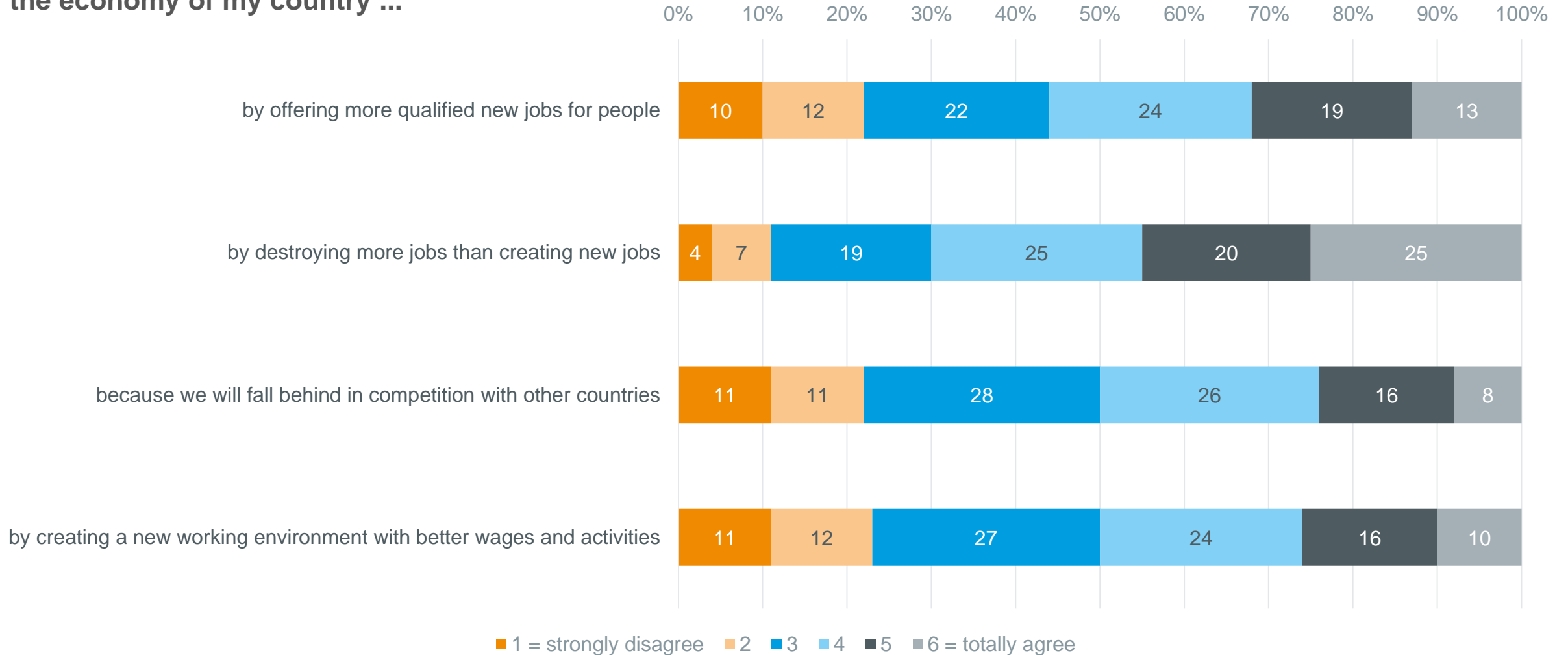
Digitization and robotics automation will transform the economy of my country ...

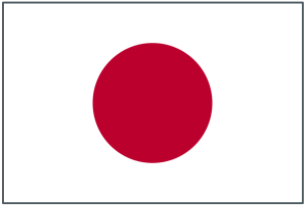


Question 5: What do you expect from digitization and robotics automation for the economy?



Digitization and robotics automation will transform the economy of my country ...





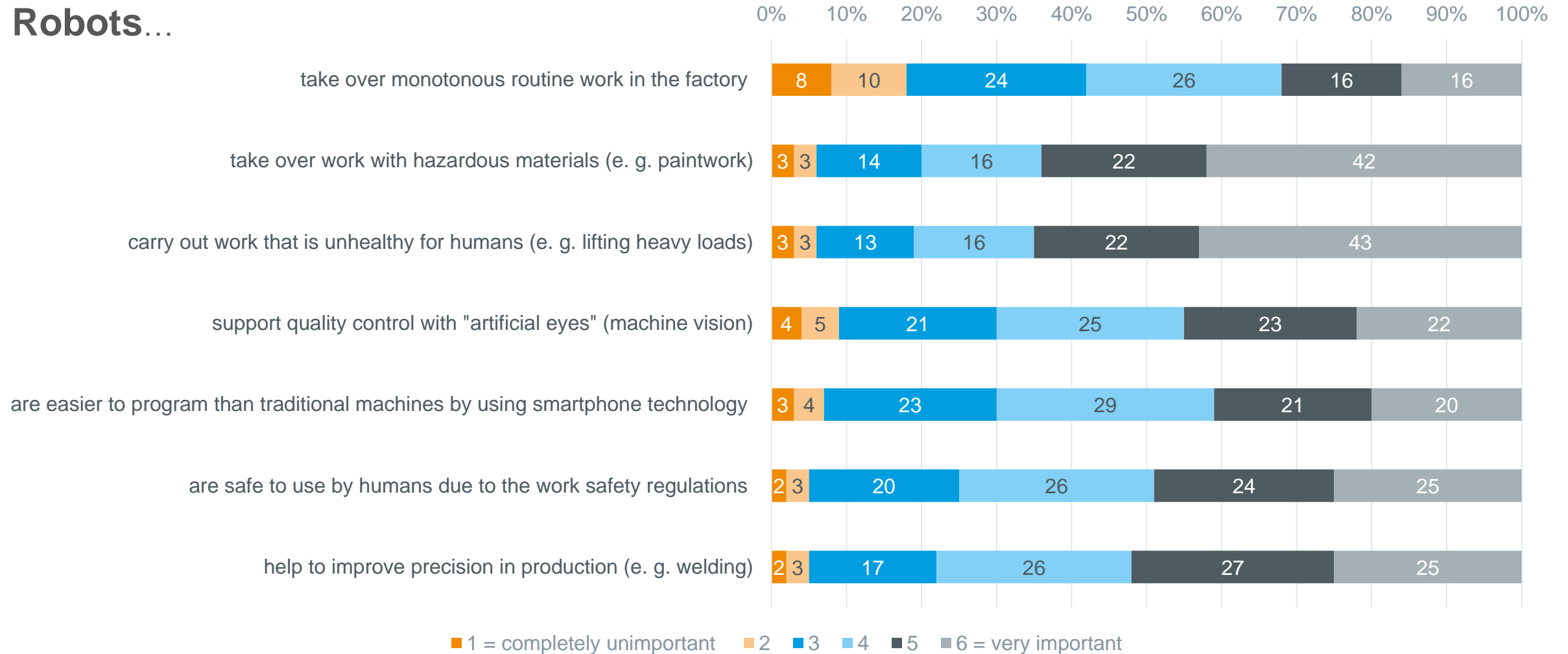
automatica trend index 2018

Japan

Question 1: When you think about the workplace of the future, how do you assess the use of robots?



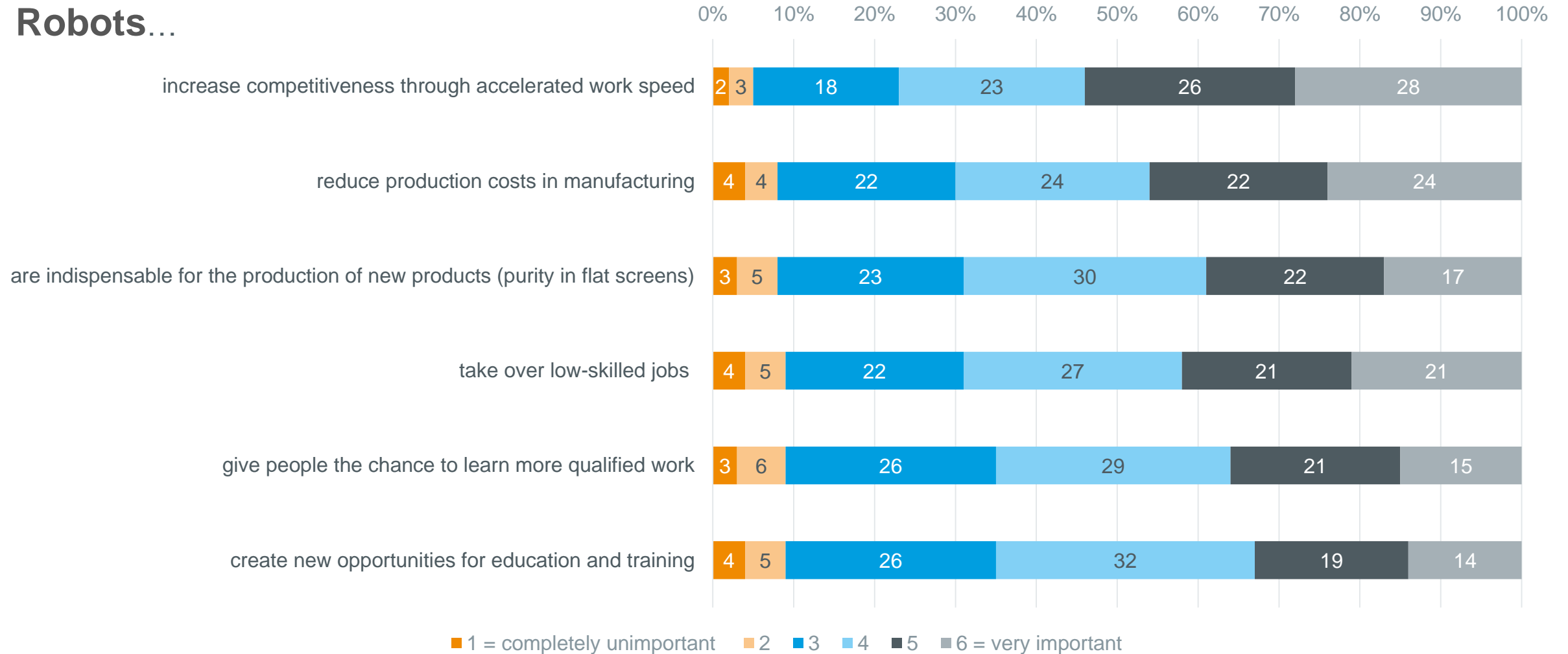
Robots...



Question 1: When you think about the workplace of the future, how do you assess the use of robots?



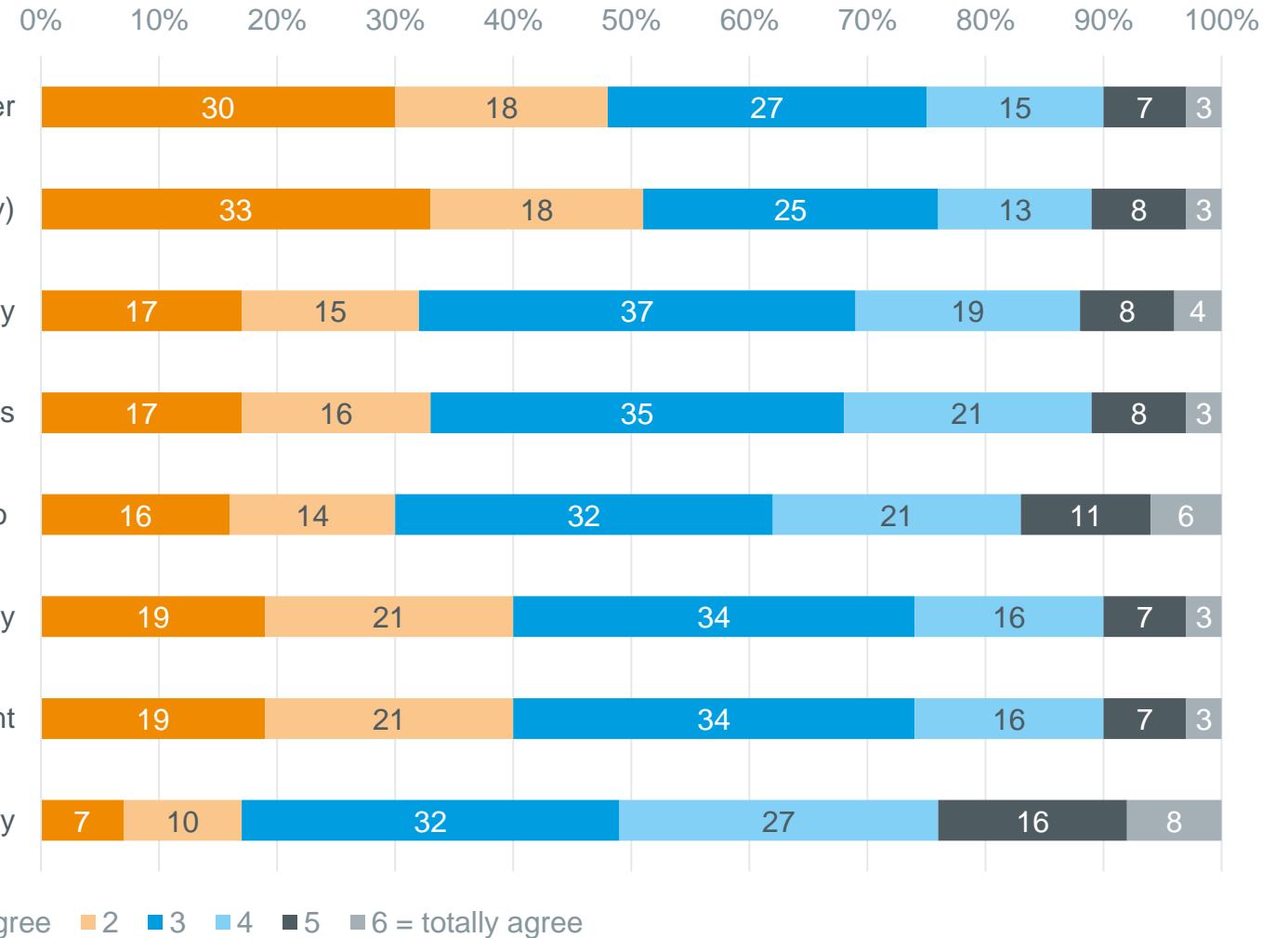
Robots...



Question 2: Let's take a look at education and training for the digital workplace of the future.



Education and training for the digital world...



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...

improve manufacturing by combining human talents (judgement, fine motor skills) with those of robots (force, precision)

improve the quality of manual work by enhancing precision

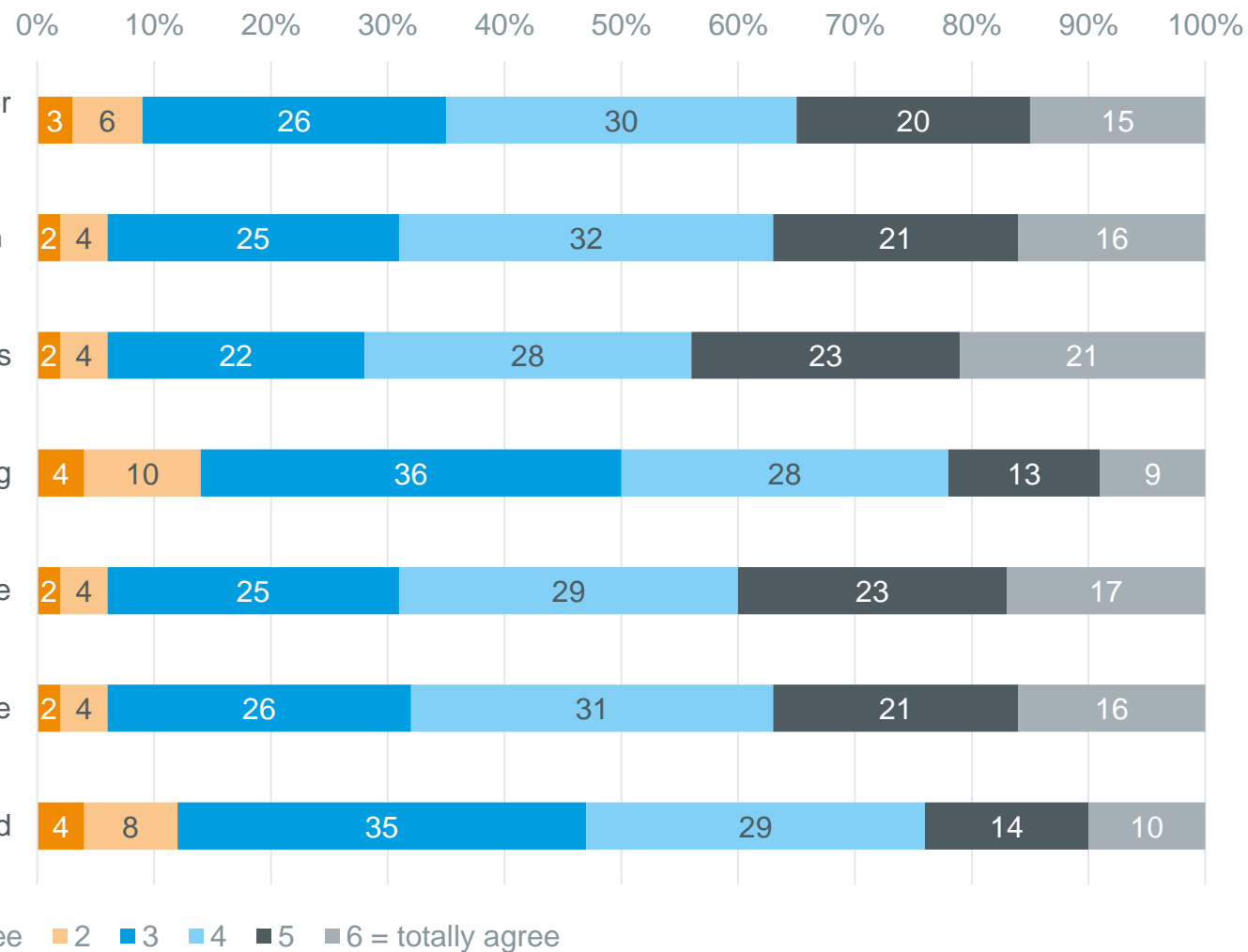
reduce costs

make the workplace more interesting

are becoming increasingly important at the workplace of the future

make companies more competitive

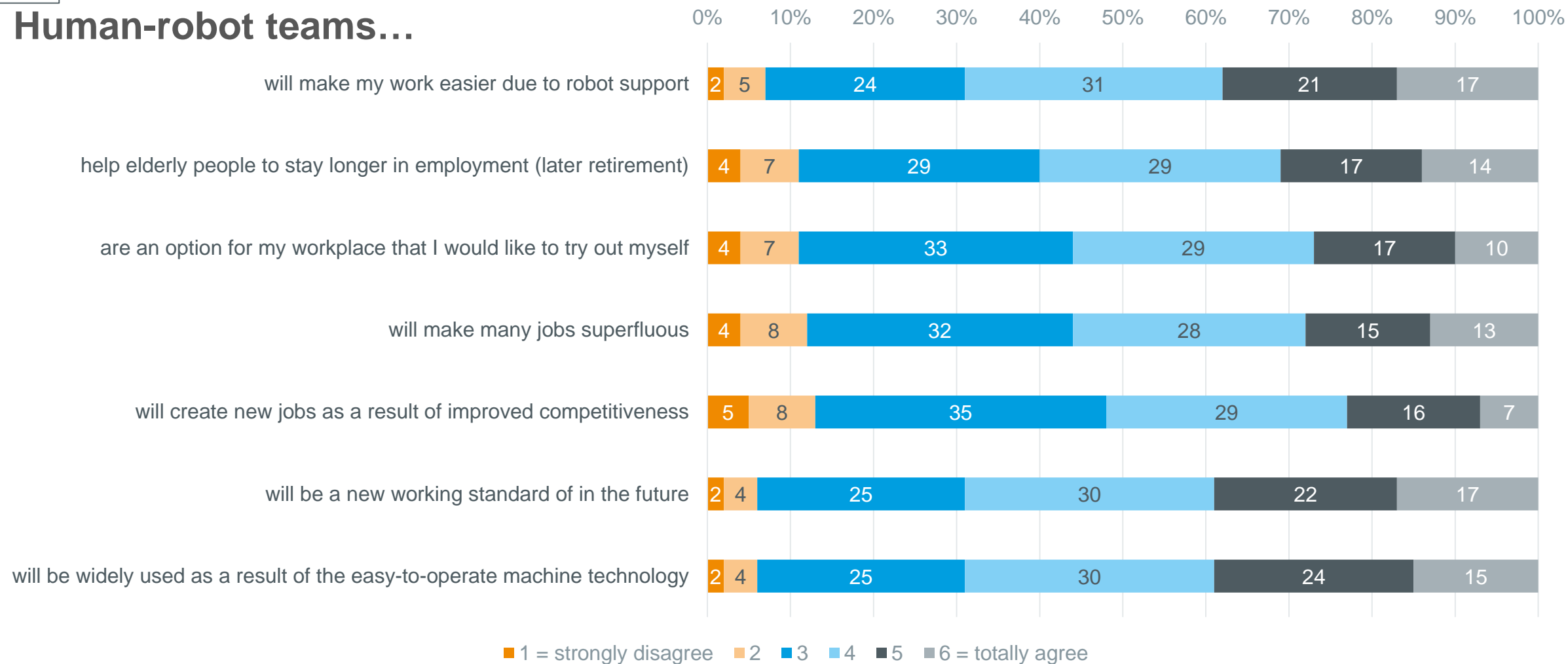
create more qualified jobs that are better paid



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...

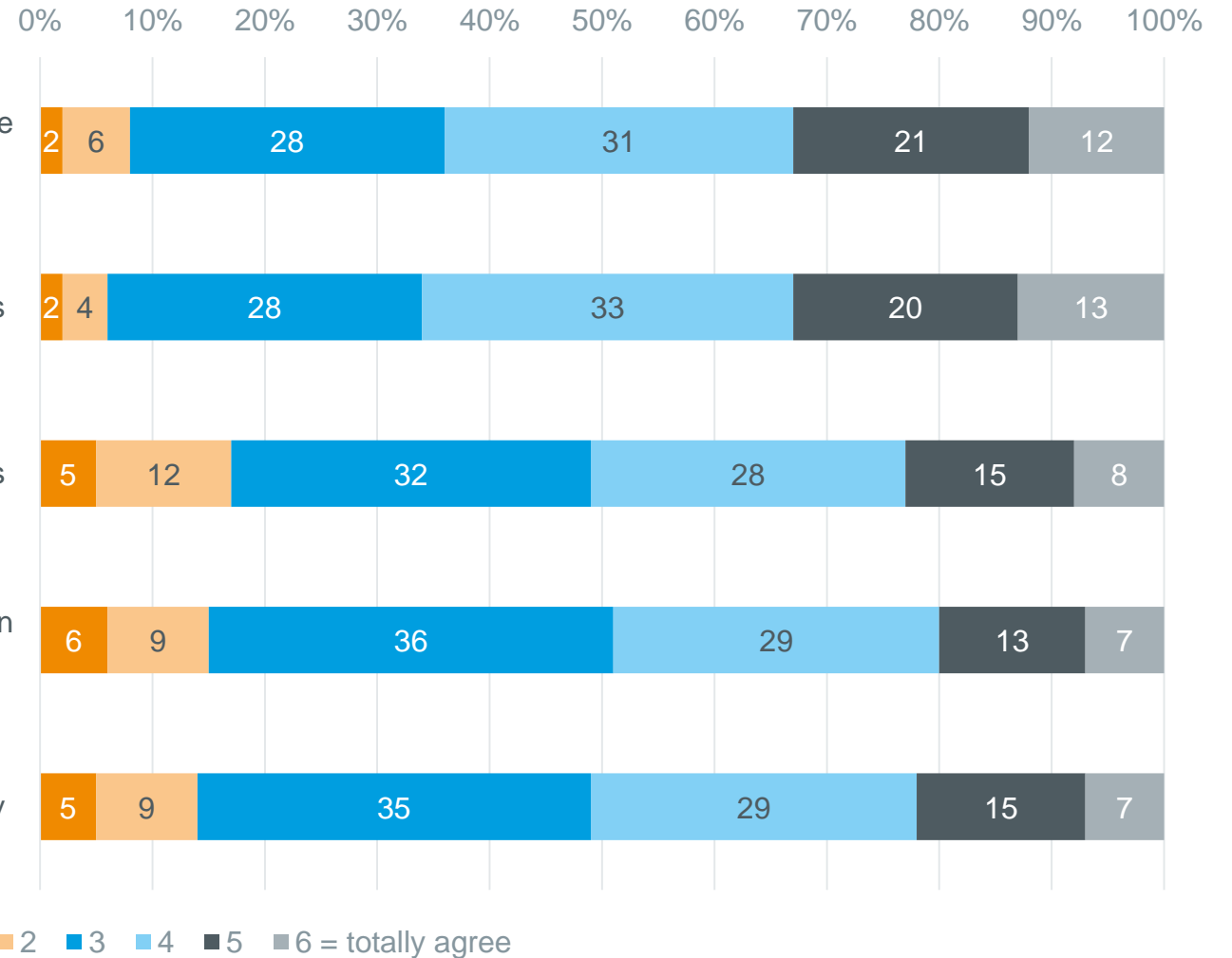


Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

- makes it easier for humans to set new tasks for a machine (touchpad or voice control)
- enables machines to better assist human colleagues
- will not replace people's social skills
- is a misleading term, because a machine cannot learn intelligently like a human being
- is a misleading term, because machines cannot act autonomously



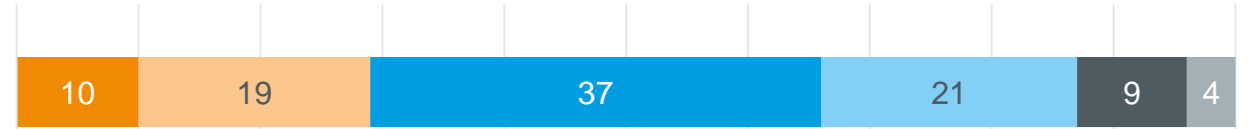
Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

should be used by companies to support cooperation of man and machine



is a frightening technology



should be strictly controlled by law



is a technology of the future that will enrich people's workplaces



is a technology of the future that will not be controllable by humans anymore

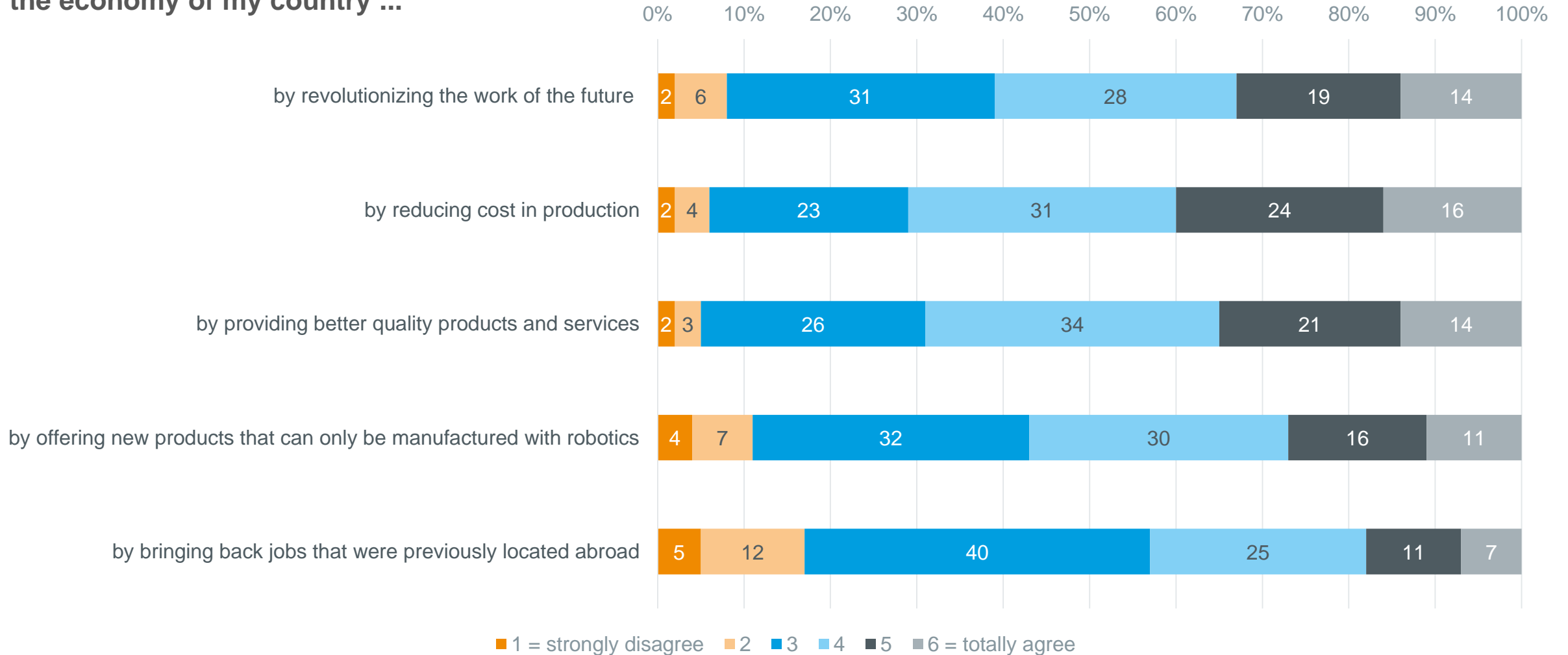


1 = strongly disagree 2 3 4 5 6 = totally agree

Question 5: What do you expect from digitization and robotics automation for the economy?



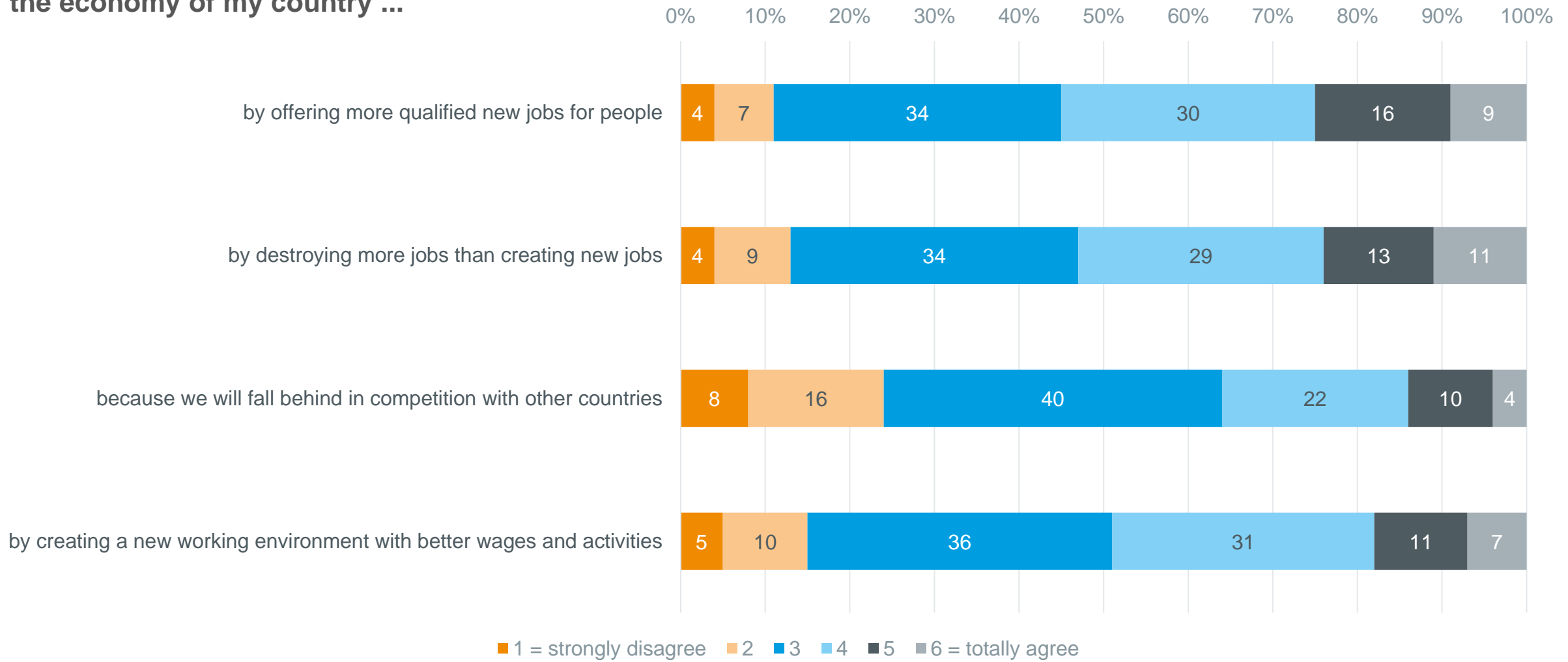
Digitization and robotics automation will transform the economy of my country ...



Question 5: What do you expect from digitization and robotics automation for the economy?



Digitization and robotics automation will transform the economy of my country ...





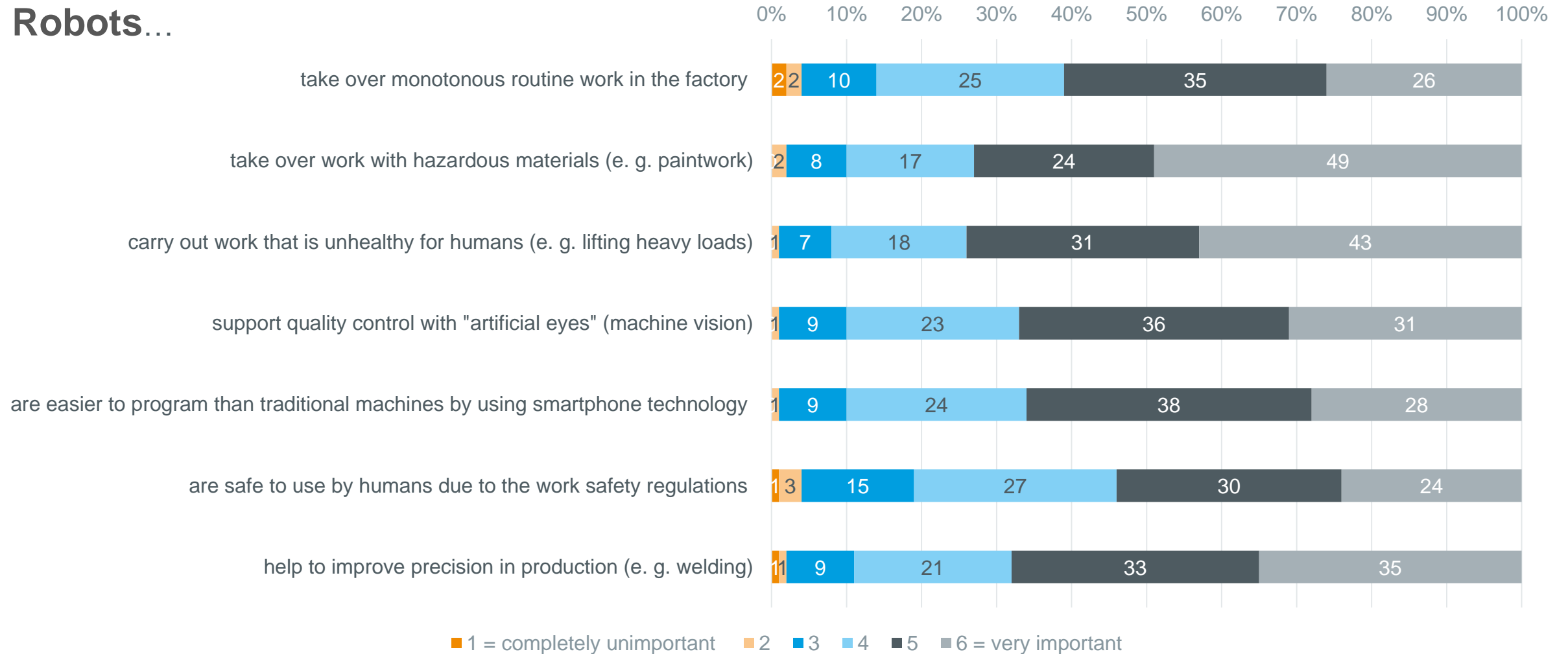
automatica trend index 2018

China

Question 1: When you think about the workplace of the future, how do you assess the use of robots?



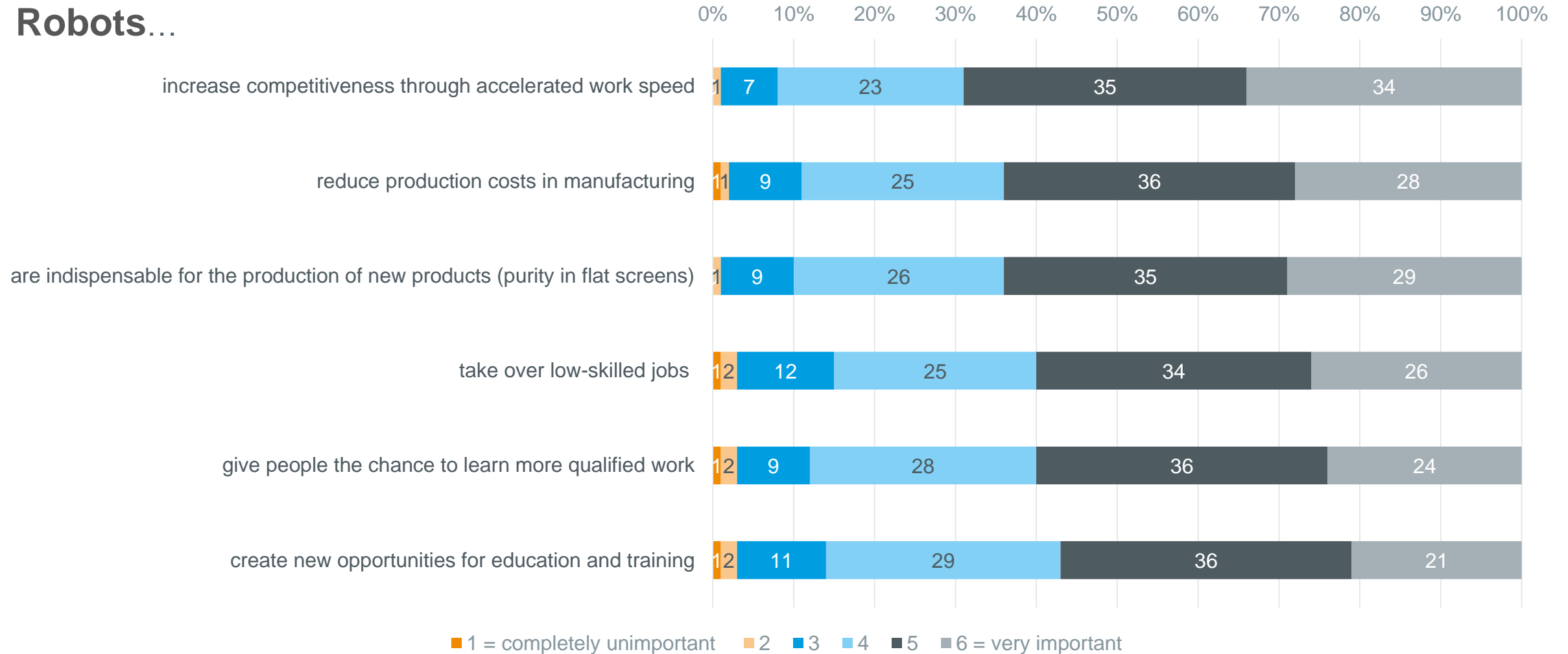
Robots...



Question 1: When you think about the workplace of the future, how do you assess the use of robots?



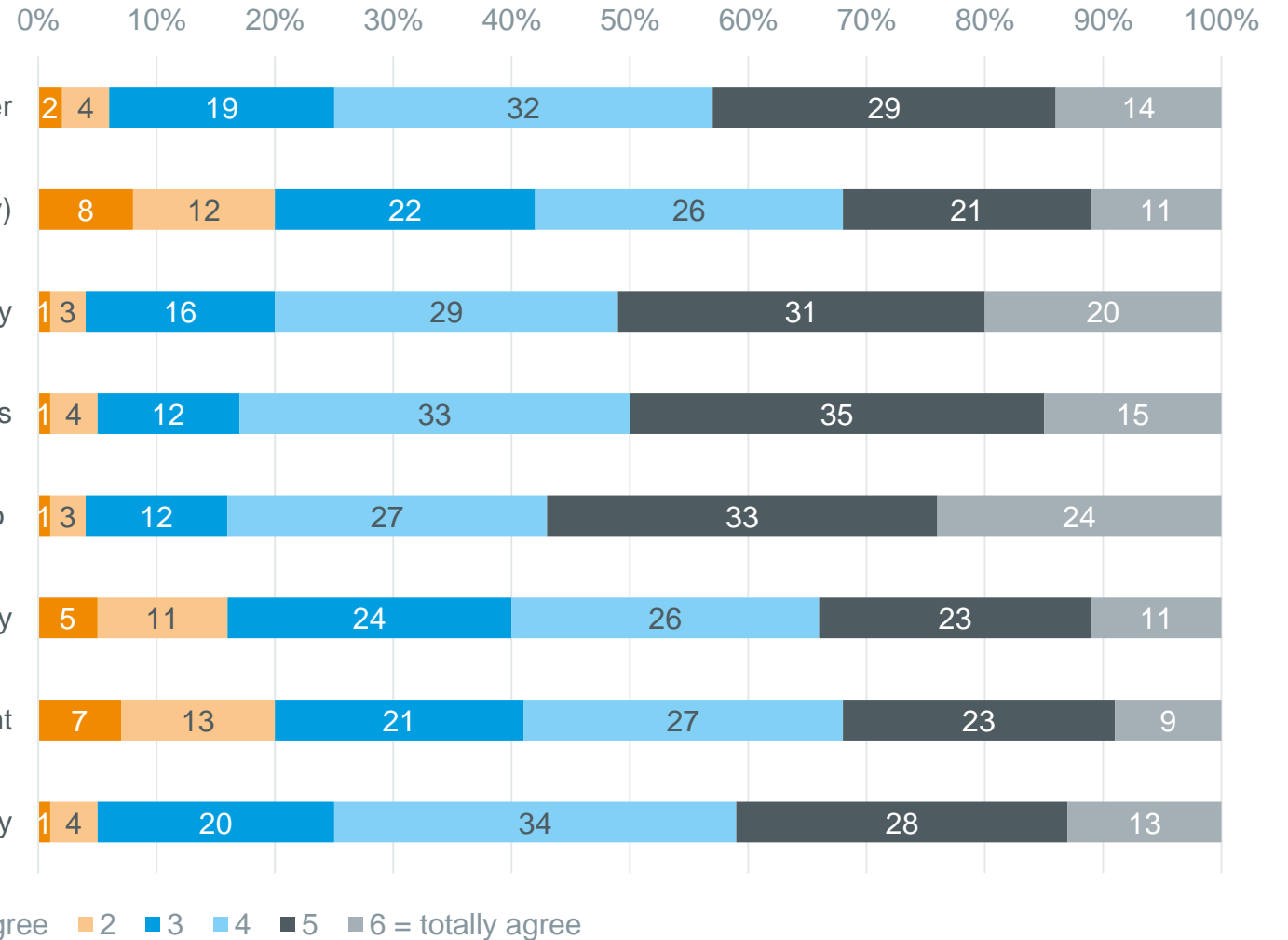
Robots...



Question 2: Let's take a look at education and training for the digital workplace of the future.



Education and training for the digital world...



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...

improve manufacturing by combining human talents (judgement, fine motor skills) with those of robots (force, precision)

improve the quality of manual work by enhancing precision

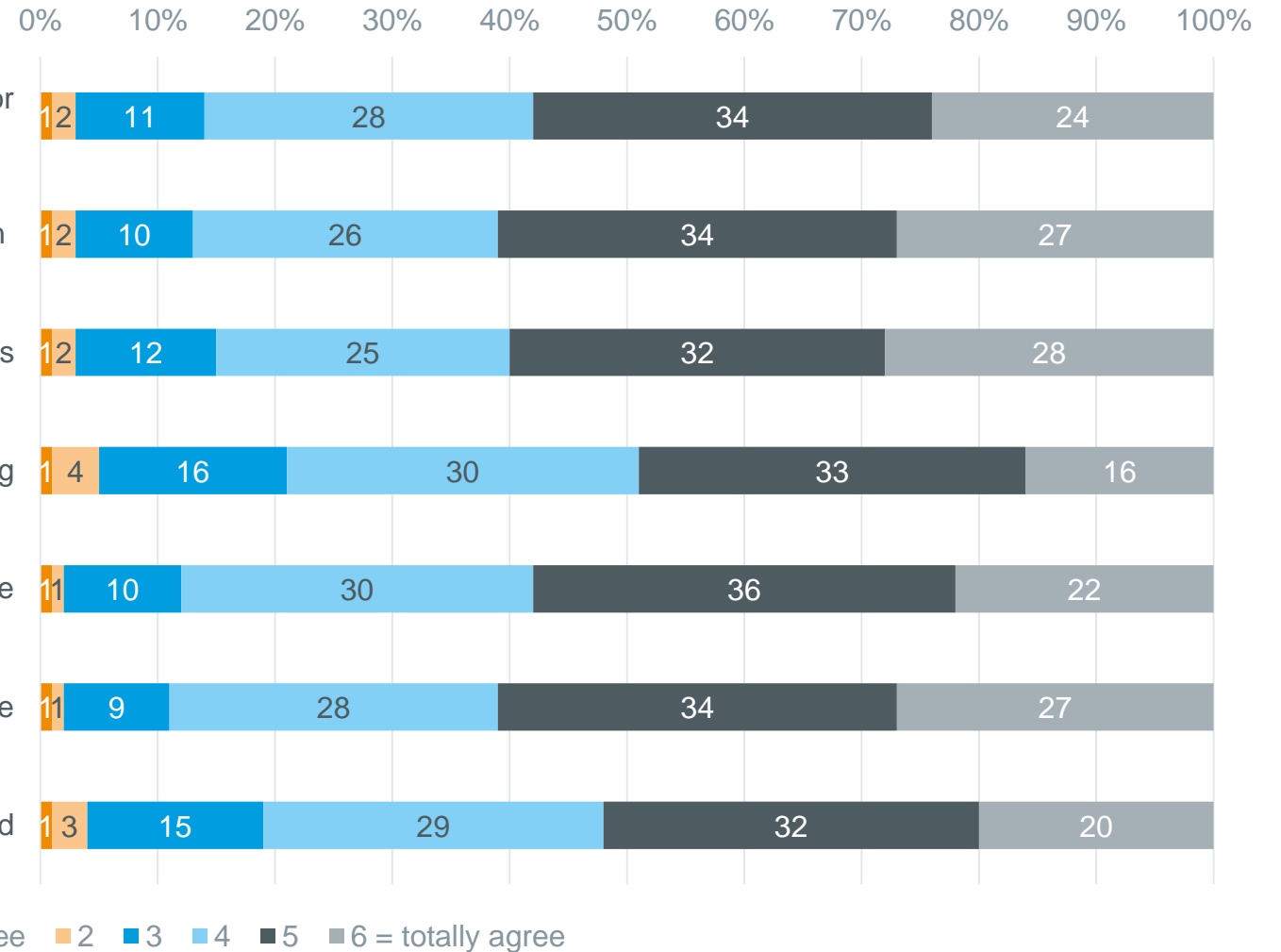
reduce costs

make the workplace more interesting

are becoming increasingly important at the workplace of the future

make companies more competitive

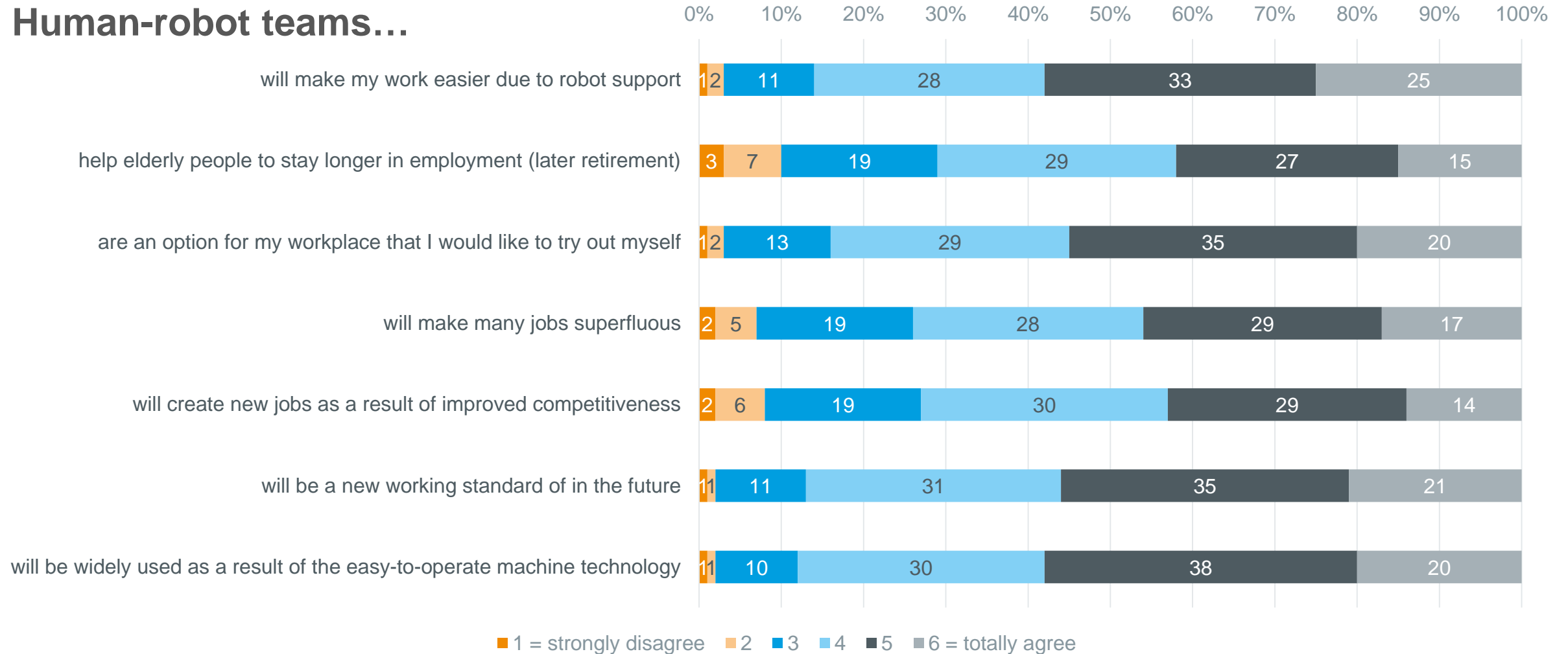
create more qualified jobs that are better paid



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...



Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

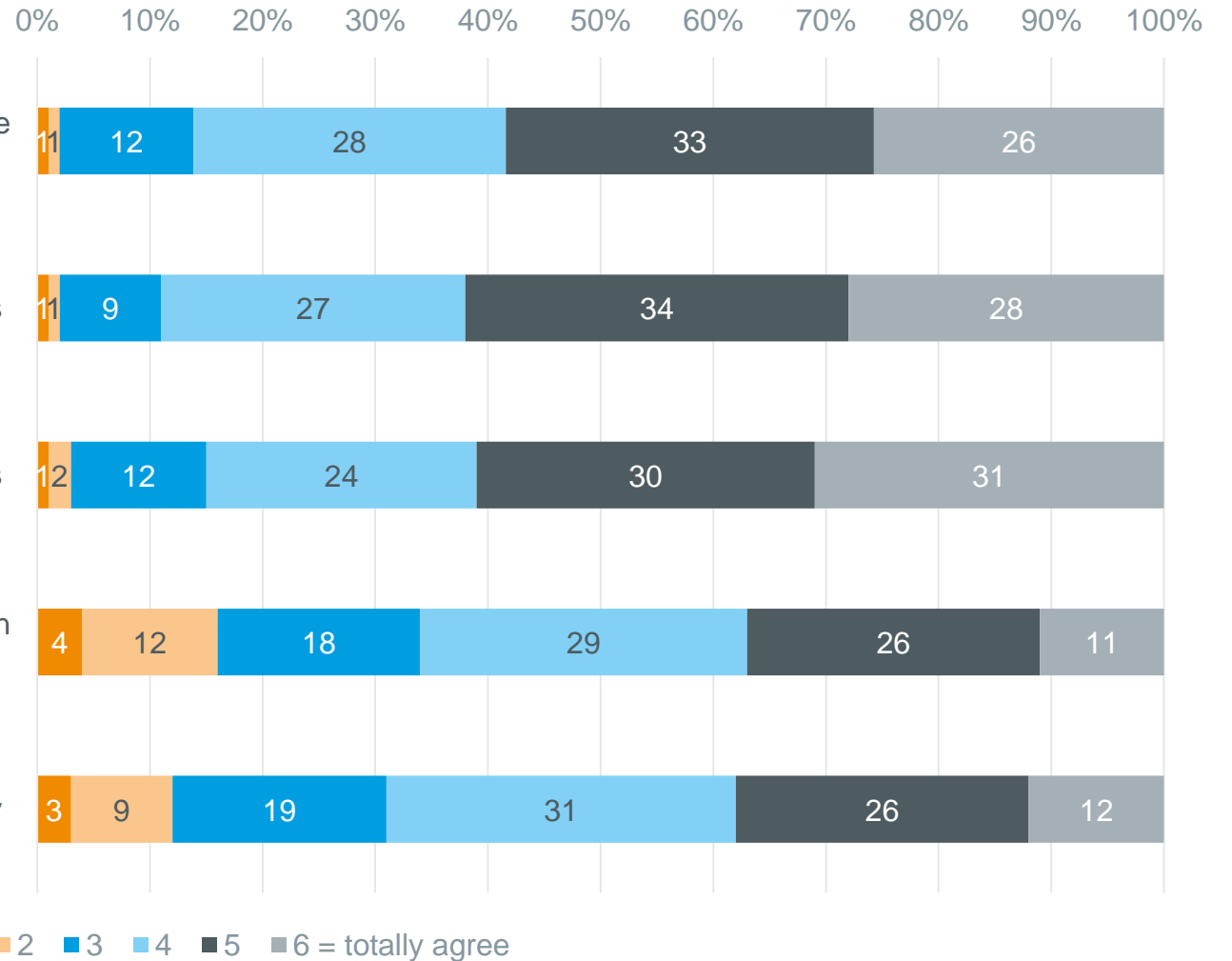
makes it easier for humans to set new tasks for a machine (touchpad or voice control)

enables machines to better assist human colleagues

will not replace people's social skills

is a misleading term, because a machine cannot learn intelligently like a human being

is a misleading term, because machines cannot act autonomously

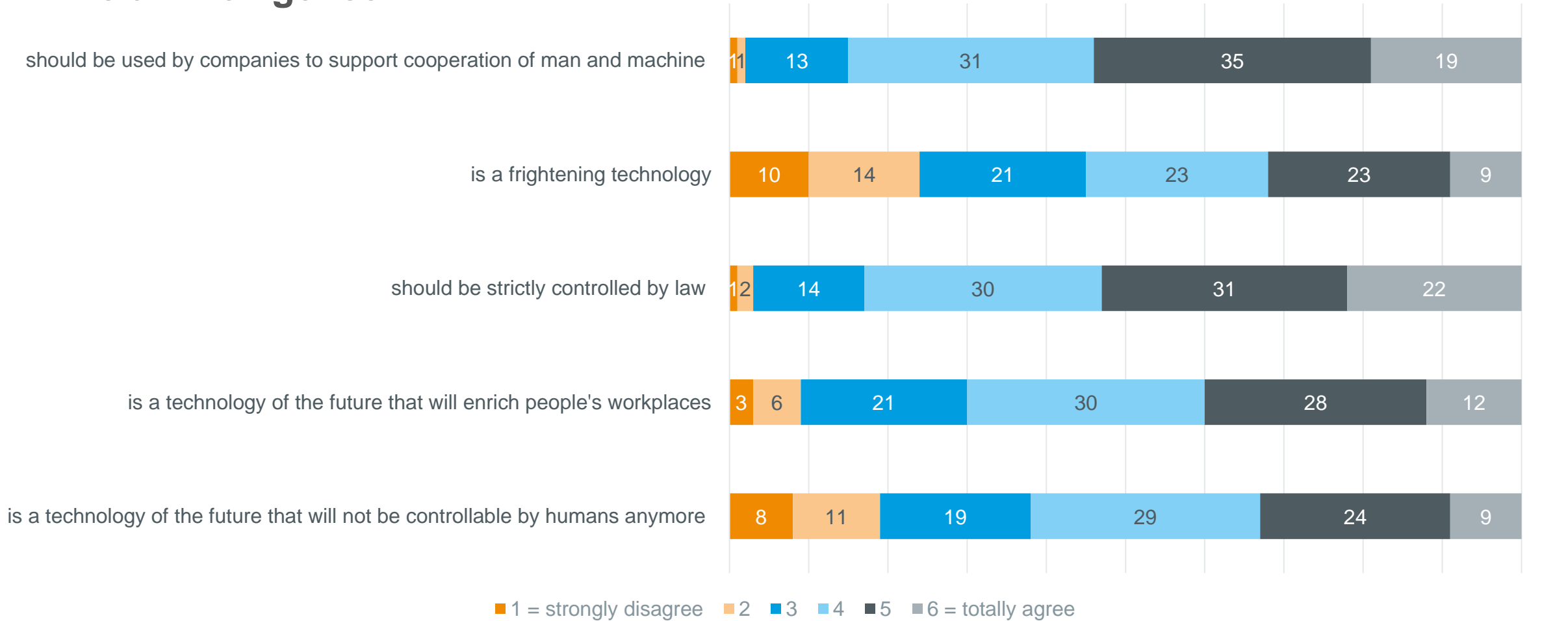


Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

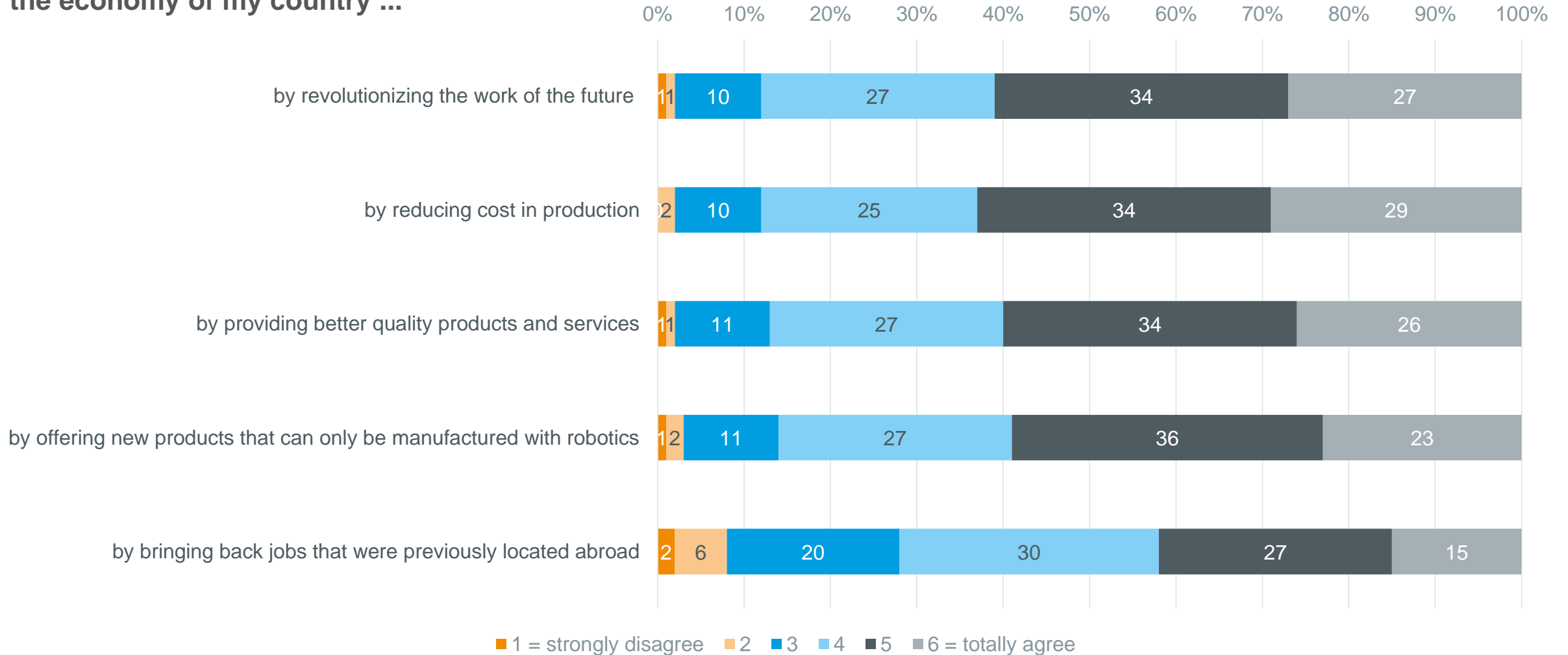
0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%



Question 5: What do you expect from digitization and robotics automation for the economy?



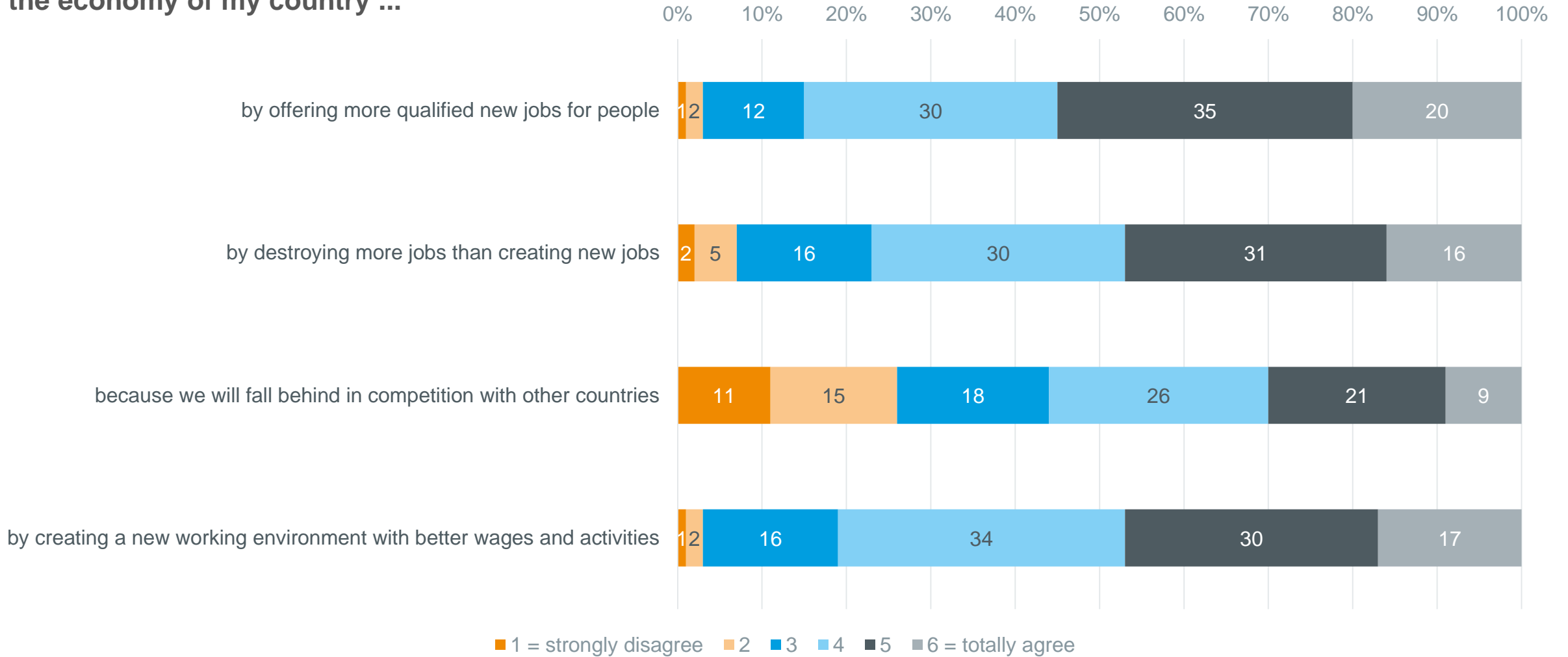
Digitization and robotics automation will transform the economy of my country ...



Question 5: What do you expect from digitization and robotics automation for the economy?



Digitization and robotics automation will transform the economy of my country ...





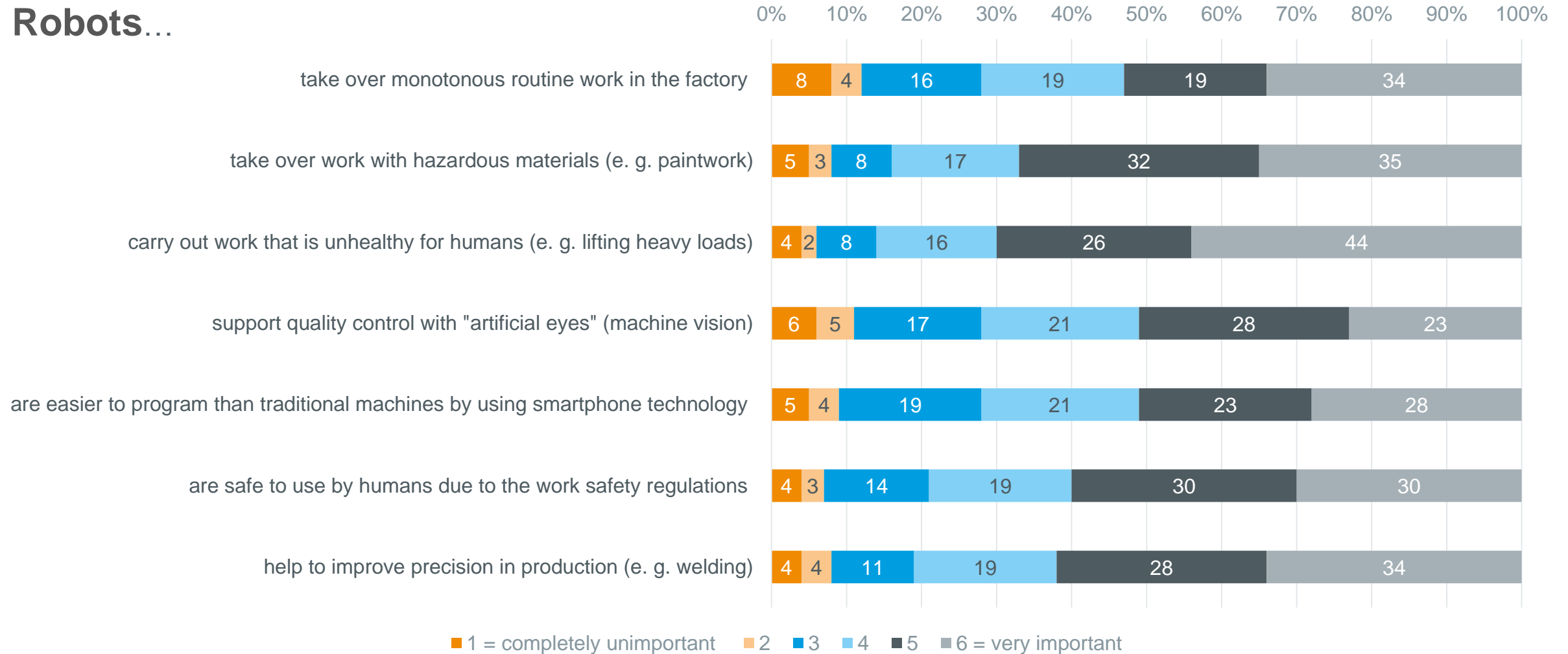
automatica trend index 2018

United States

Question 1: When you think about the workplace of the future, how do you assess the use of robots?



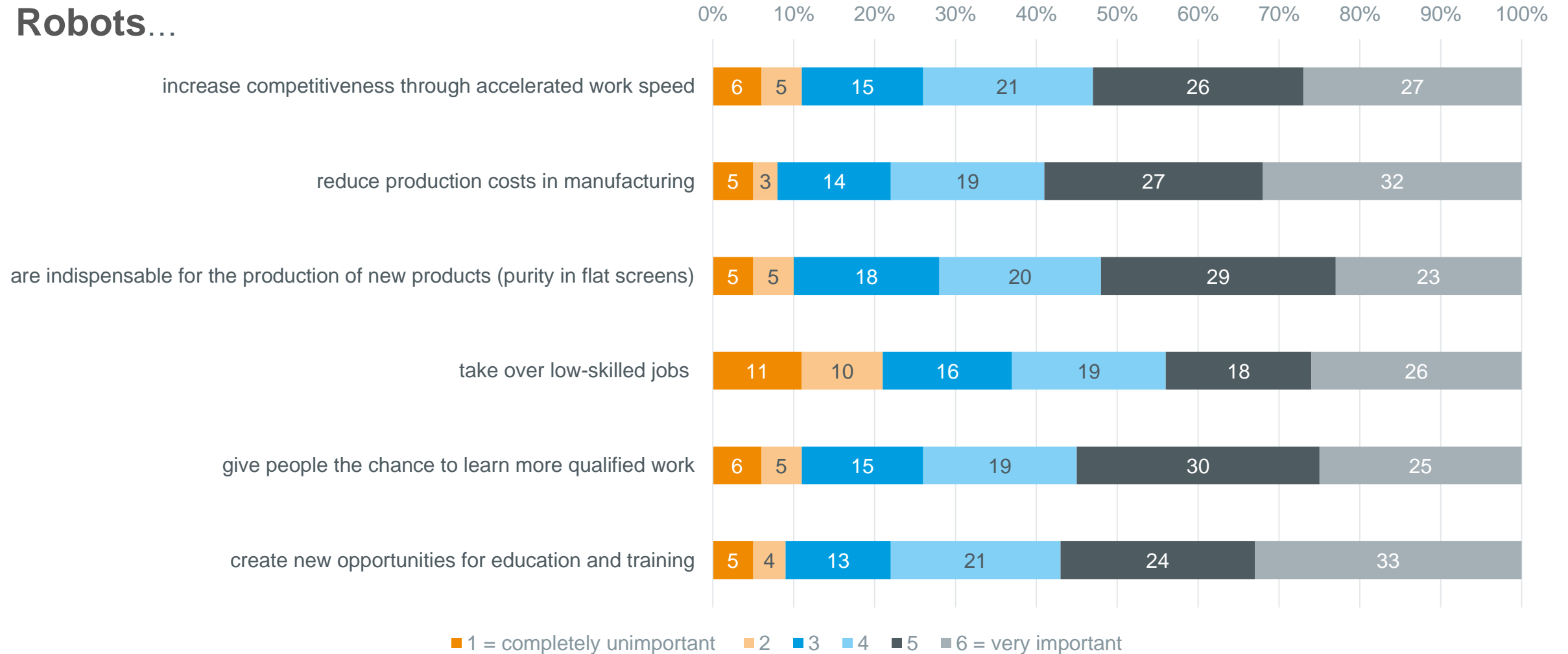
Robots...



Question 1: When you think about the workplace of the future, how do you assess the use of robots?



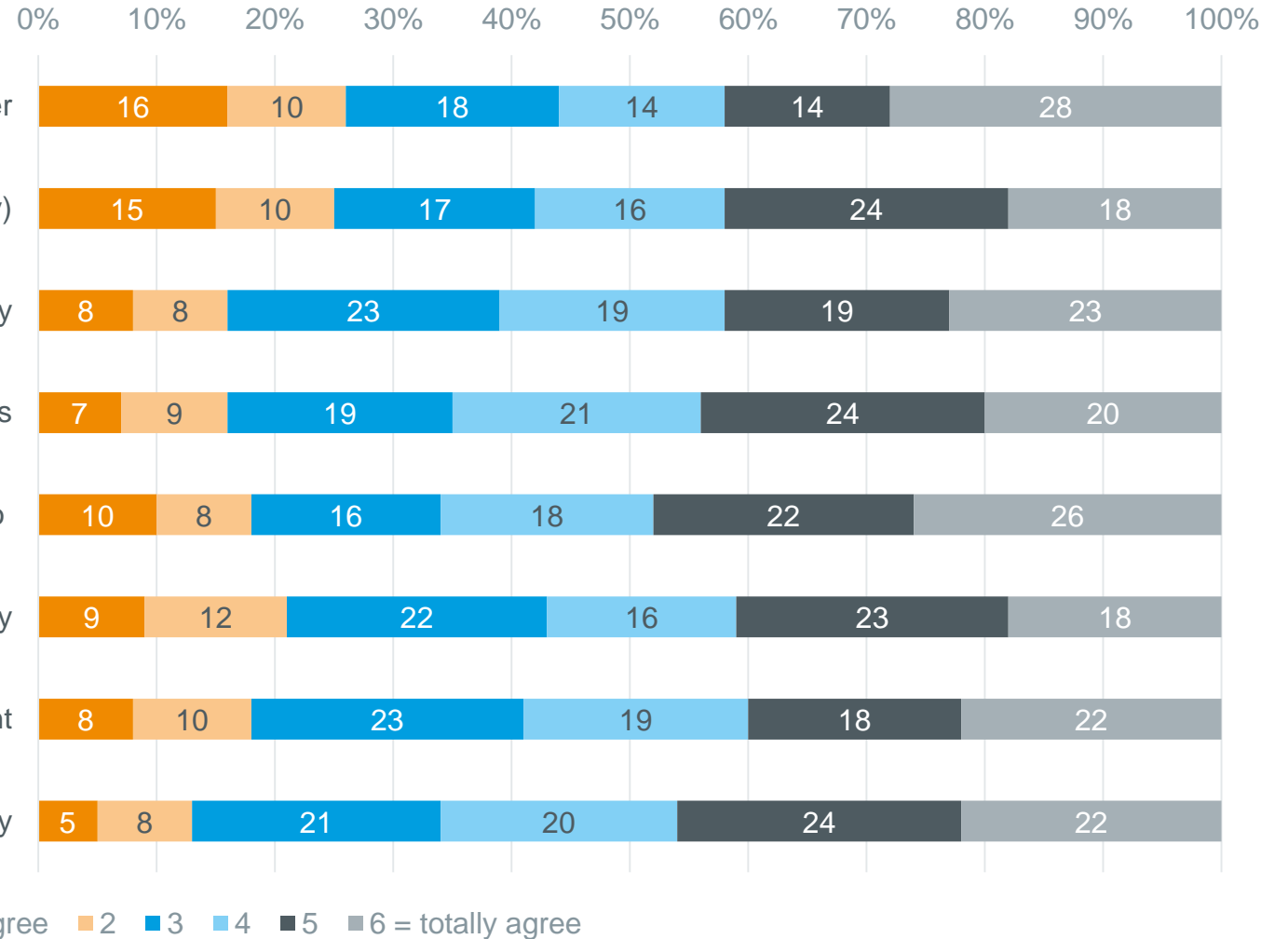
Robots...



Question 2: Let's take a look at education and training for the digital workplace of the future.



Education and training for the digital world...



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...

improve manufacturing by combining human talents (judgement, fine motor skills) with those of robots (force, precision)

improve the quality of manual work by enhancing precision

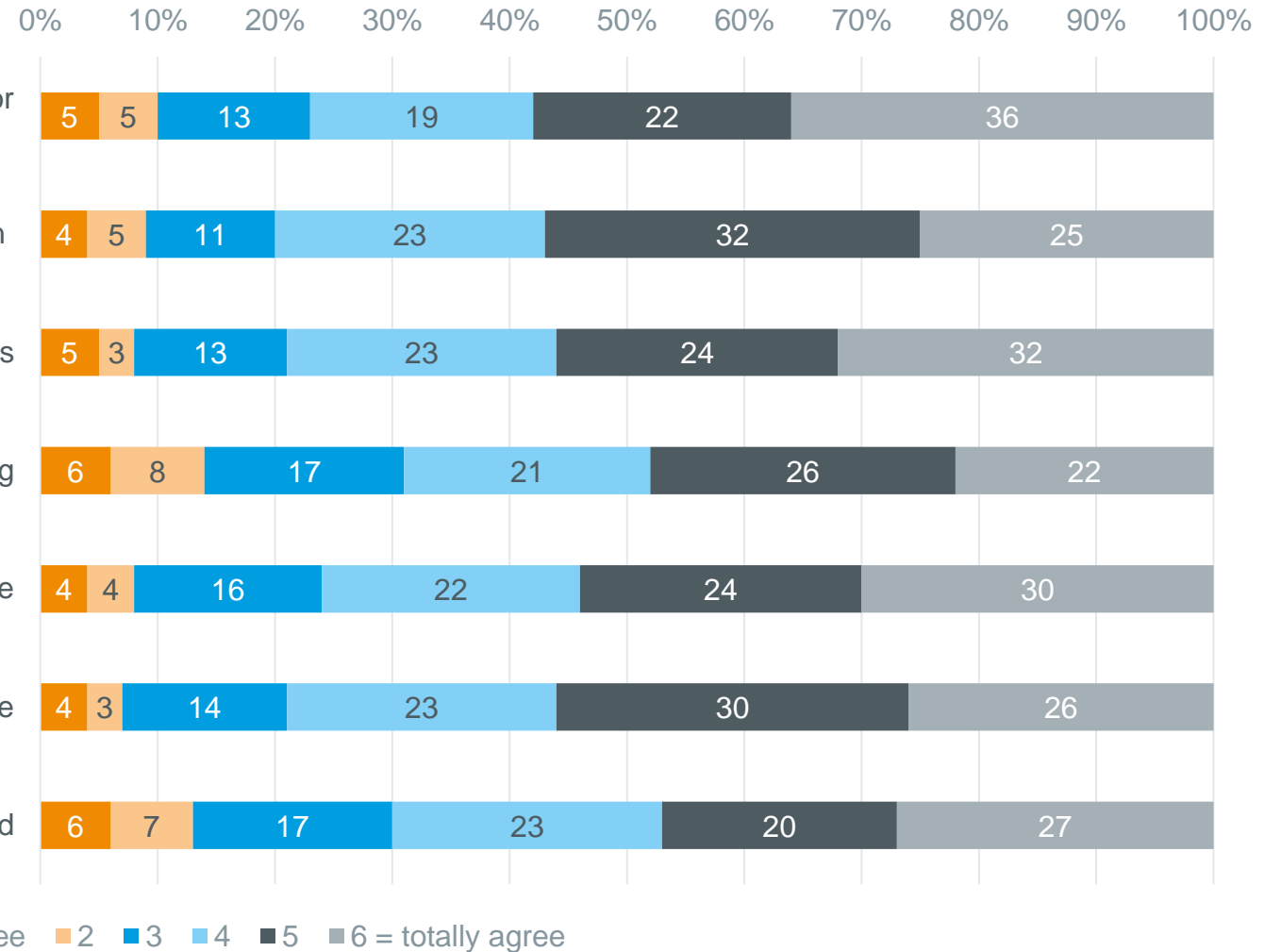
reduce costs

make the workplace more interesting

are becoming increasingly important at the workplace of the future

make companies more competitive

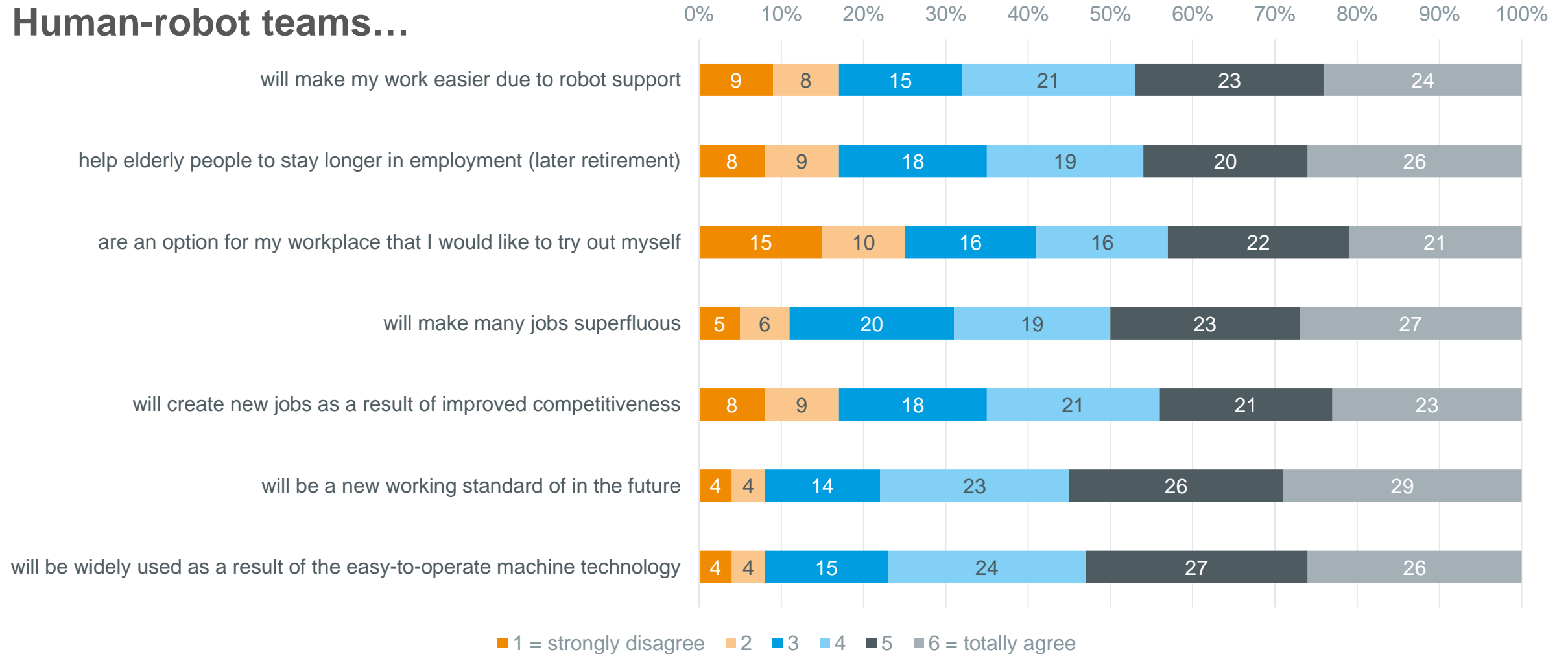
create more qualified jobs that are better paid



Question 3: How do you evaluate human-machine teams - when people work hand in hand with robots without safety fences?



Human-robot teams...

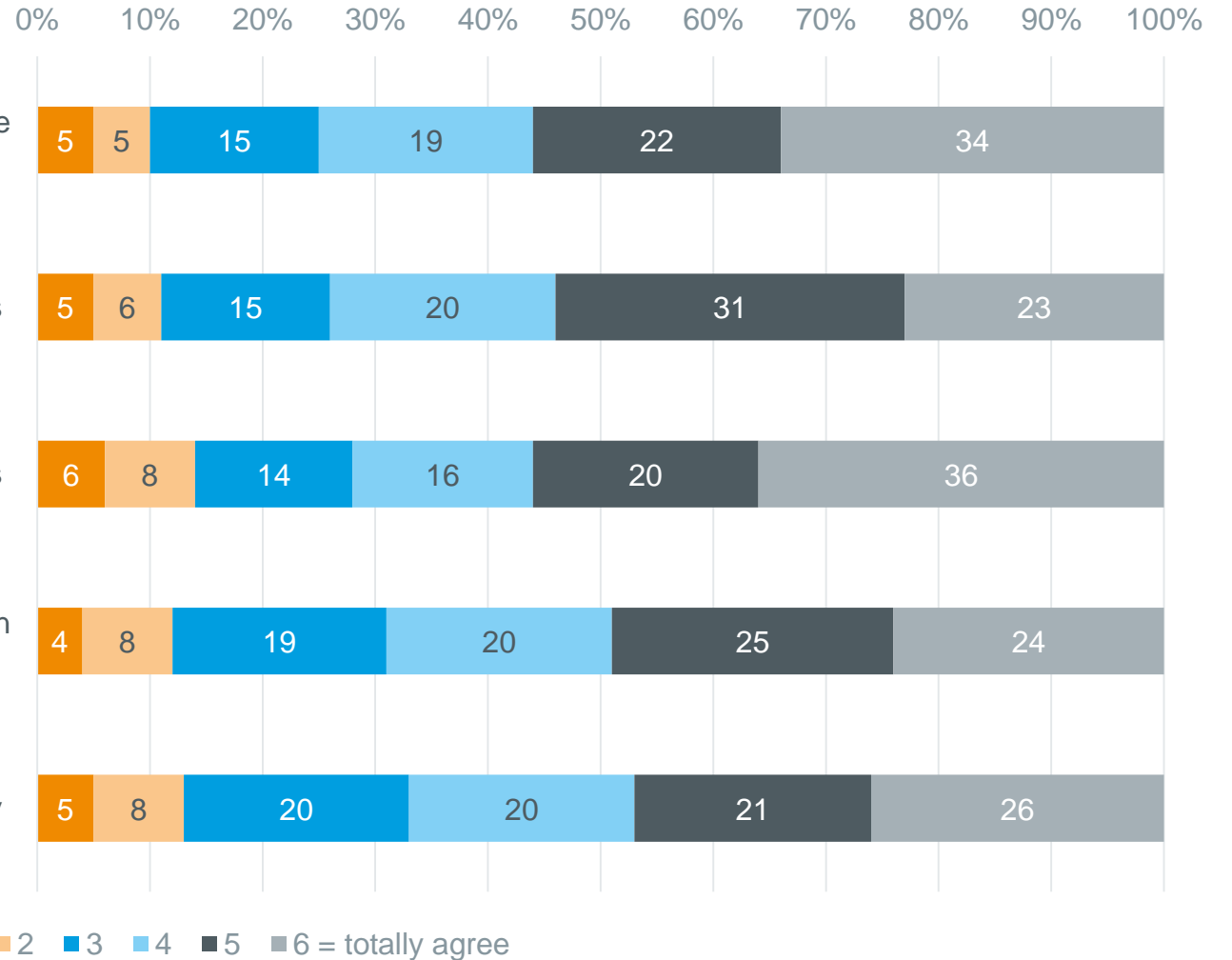


Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



Artificial intelligence...

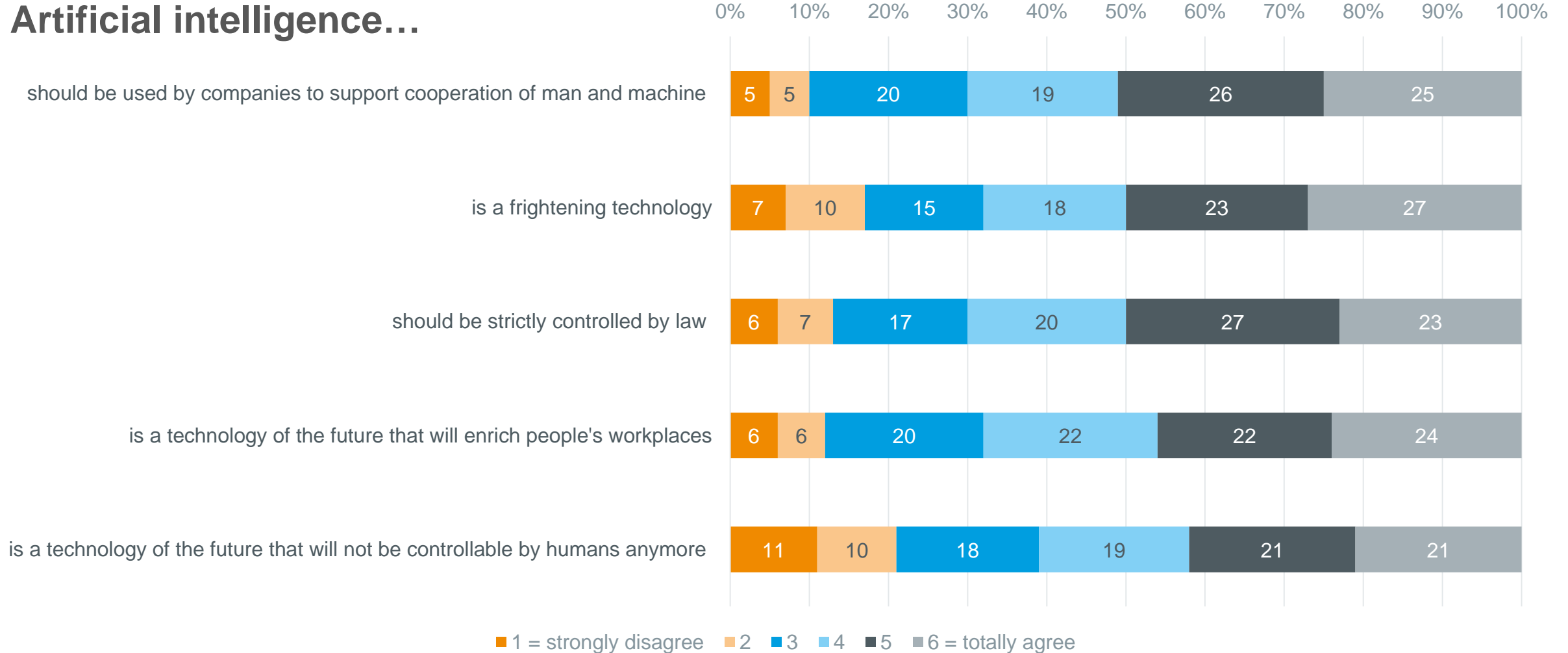
- makes it easier for humans to set new tasks for a machine (touchpad or voice control)
- enables machines to better assist human colleagues
- will not replace people's social skills
- is a misleading term, because a machine cannot learn intelligently like a human being
- is a misleading term, because machines cannot act autonomously



Question 4: Artificial intelligence - technology that enables a machine to work on problem solving independently - will change the way we work in the future.



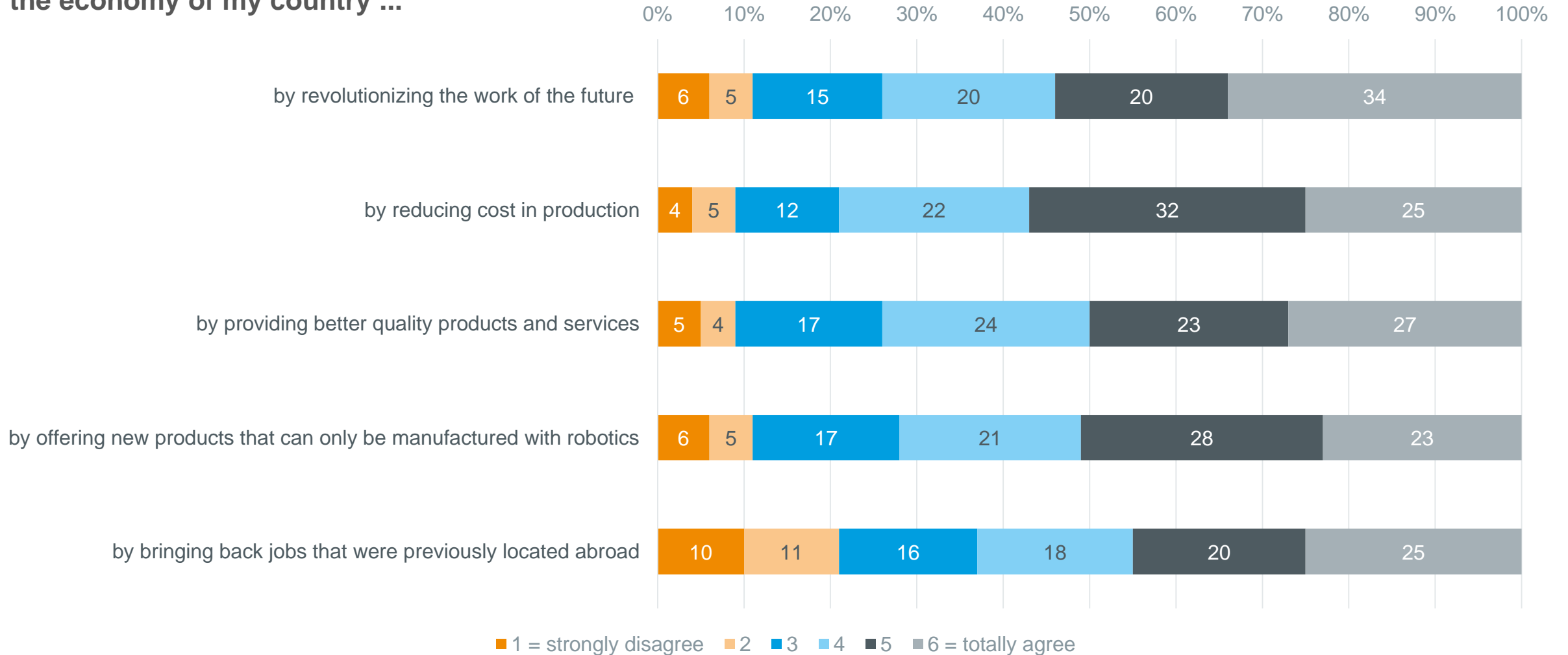
Artificial intelligence...



Question 5: What do you expect from digitization and robotics automation for the economy?



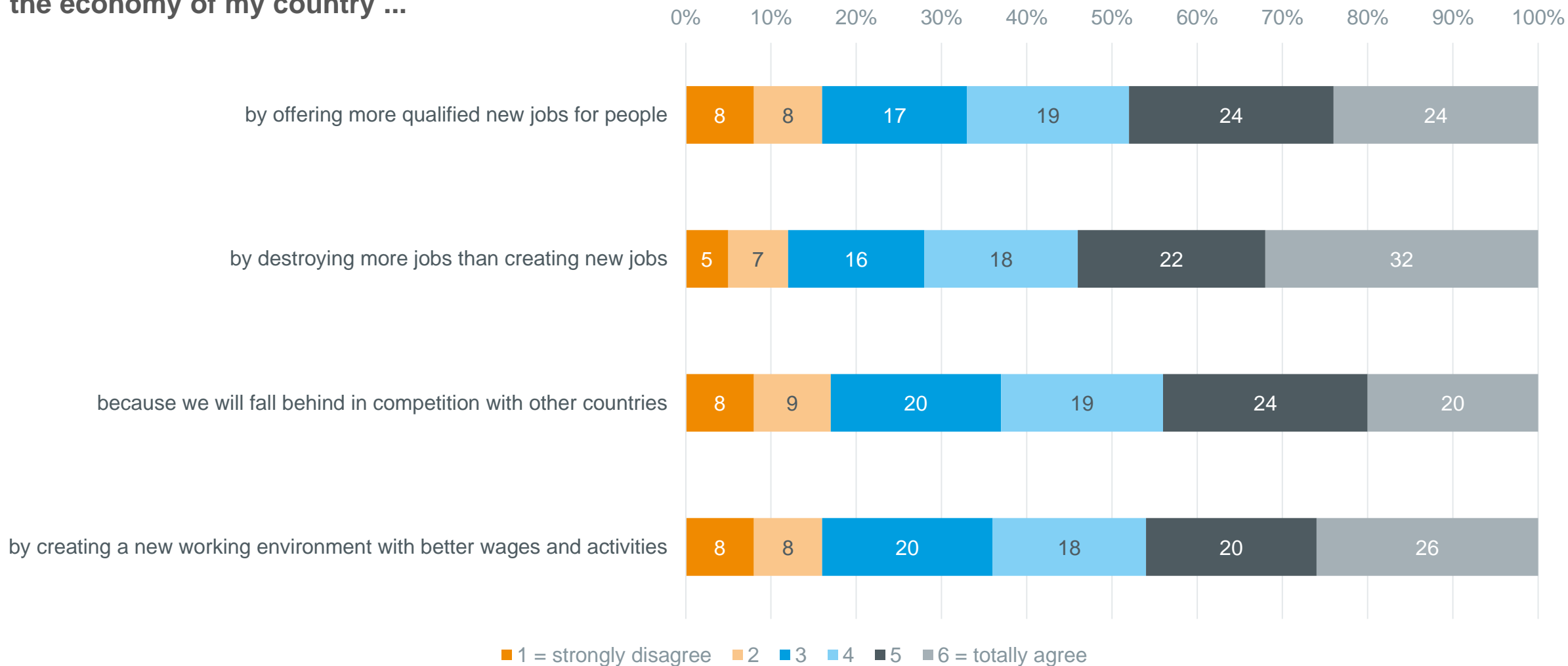
Digitization and robotics automation will transform the economy of my country ...



Question 5: What do you expect from digitization and robotics automation for the economy?



Digitization and robotics automation will transform the economy of my country ...



Imprint

This document and all its parts is copyrighted. Any use that is not expressly permitted under copyright legislation, requires the prior written consent of Messe München. This applies especially to reproductions, adaptations, translations, storage and processing in electronic form. Any disclosure to third parties is prohibited.

Contact :

Ivanka Stefanova-Achter – PR Manager, Messe München

Tel. (+49 89) 949 - 21488

Email: ivanka.stefanova-achter@messe-muenchen.de

Realisation:

econNEWSnetwork

Rothenbaumchaussee 185

20148 Hamburg

Tel.: +49 (0)40 8 22 44 284

www.econ-news.de

OPTIMIZE

your Production



See you at
automatica 2018