



GAMIFICATION,
DIGITALIZATION AND
PRACTICAL TOOLS FOR
DEVELOPING
CIRCULAR ECONOMY SKILLS



GAMIFICATION DIGITALIZATION AND
PRACTICAL TOOLS FOR DEVELOPING
CIRCULAR ECONOMY SKILLS

NEEDS ANALYSIS REPORT

SUPPORTING MATERIAL FOR THE HANDBOOK

Erasmus+ Programme KA2: Partnerships for Cooperation
2022-1-EE01-KA220-YOU-000090946



Co-funded by
the European Union



NEED ANALYSIS REPORT

INTRODUCTION (for the questionnaires)

This survey is part of the Erasmus+ project titled "Gamification, Digitalization, and Practical Tools for Developing Circular Economy Skills" (Project Acronym: CE+; Project Number: 2022-1-EE01-KA220-YOU-000090946); and it was implemented to gather insights and opinions regarding the concept of a circular and green economy, with a particular focus on the European Green Deal.

The survey was distributed amongst youngsters living in partner countries: Estonia, Lithuania, Ireland, Slovakia, Turkey, Belgium.

In order to develop more enjoyable and engaging non-formal learning activities related to the circular economy and green skills, the partners cooperate to promote a better understanding of the opportunities and challenges associated with moving towards a more sustainable and environmentally conscious economy.

TABLE OF CONTENT

Introduction of Survey.....	I
Table of Content.....	II
CE+ Bussiness Survey.....	1
CE+ Youth Survey	15
CE+ Youth Worker Survey.....	27



CE+ BUSINESS SURVEY

CE+ BUSINESS SURVEY SUMMARY

The business survey results indicate that while most respondents are familiar with the Circular and Green Economy, as well as the EU Green Deal, and are implementing sustainable measures, there's a lack of deep knowledge and understanding in their application, especially in relation to the EU Green Deal. Businesses are embracing sustainability, but often without a clear adherence to regulations or comprehensive understanding, which can potentially hinder the efficiency and effectiveness of their actions.

The survey reveals a need for better information dissemination and education to enhance the understanding of sustainability practices, their significance, and how they can be more effectively implemented. It also highlights a gap in communication and transparency within organisations, particularly in finance departments, where there's a disconnect between financial practices and sustainability goals. Some businesses have integrated Environmental, Social and Governance (ESG) objectives into their decision-making, presenting a model for sustainable financial practices.

HR departments also need to focus on better communication about environmental strategies and fostering employee engagement in sustainability. Training and skill development in green practices are crucial for building a sustainable workforce.

Procurement practices vary among businesses, with a preference for local sourcing, but there's room for improvement in understanding supply chain impacts and increasing local procurement.

CE+ BUSINESS SURVEY

CE+ BUSINESS SURVEY SUMMARY

The survey underscores the importance of a circular and green economy to businesses and society, but also identifies barriers like financial constraints, technological challenges, resistance to change, and a lack of understanding of these concepts.

Addressing these issues requires strategic solutions, including investing in R&D, promoting sustainability, enhancing awareness, and overcoming supply chain and legislative hurdles. Additionally, stakeholder engagement is vital for supporting the circular and green economy, with a need for incentives, grants, R&D, capacity-building, knowledge sharing, and partnerships from government agencies, industry associations, and sustainability-focused organisations..

NEED ANALYSIS REPORT

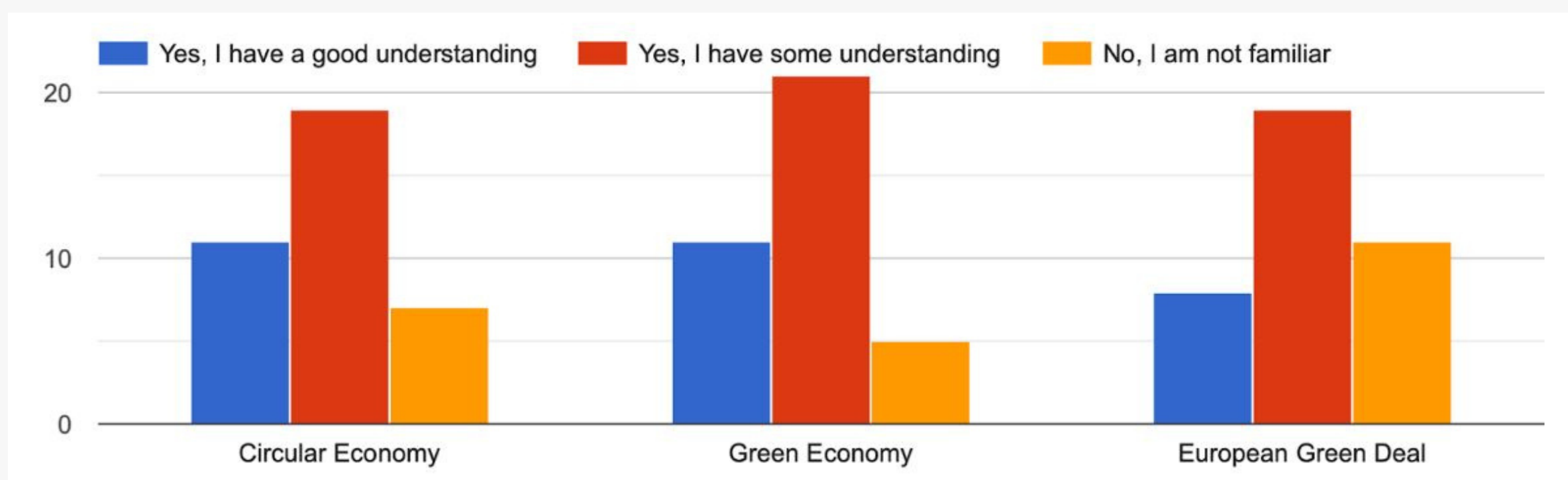
CE+ BUSINESS SURVEY

Q 1. and Q 2. Basic information about respondents:

Country of residents - the majority of businesses were from Lithuania (56,1%), followed by Slovakia, Ireland, and Turkey.

The majority of businesses were from the educational field (34,1%), construction (9,8%), software and IT (9,8%), and others. There were around 16 different business fields.

Q 3. Are you familiar with the concepts of the following:

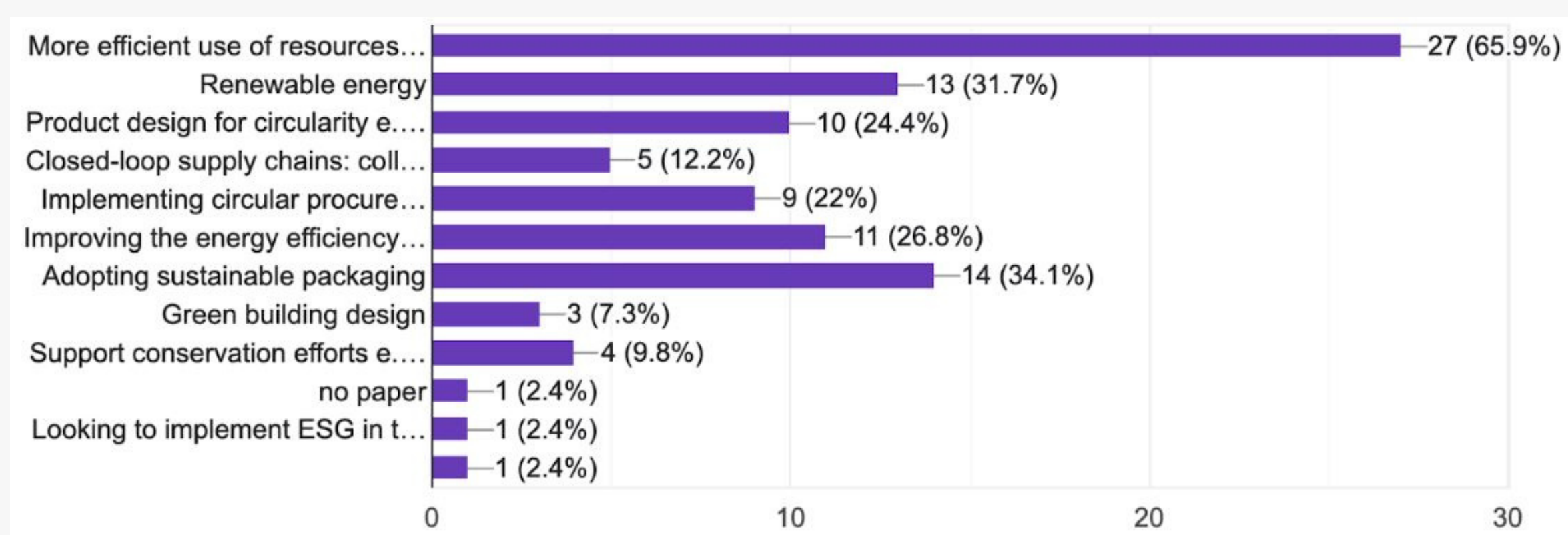


The chart shows that the majority of respondents have a good or some understanding of Circular and Green economies, and the EU Green Deal. Also there is a significant difference in the responses regarding the EU Green Deal - almost one third of respondents stated that they were not familiar with it. Though the overall situation shows that businesses are aware of the mentioned concepts, the need to raise awareness and enhance knowledge about the EU Green Deal is evident. The other two concepts seem to be more known, however, further explanation about them is needed too.

NEED ANALYSIS REPORT

CE+ BUSINESS SURVEY

Q 4. Has your business adopted any of the key practices of green and circular economy listed below? Tick as many as applies:



Even though not all of the business representatives stated that they understand Circular or Green Economy concepts, they all chose at least one practice from those concepts that they have previously implemented.

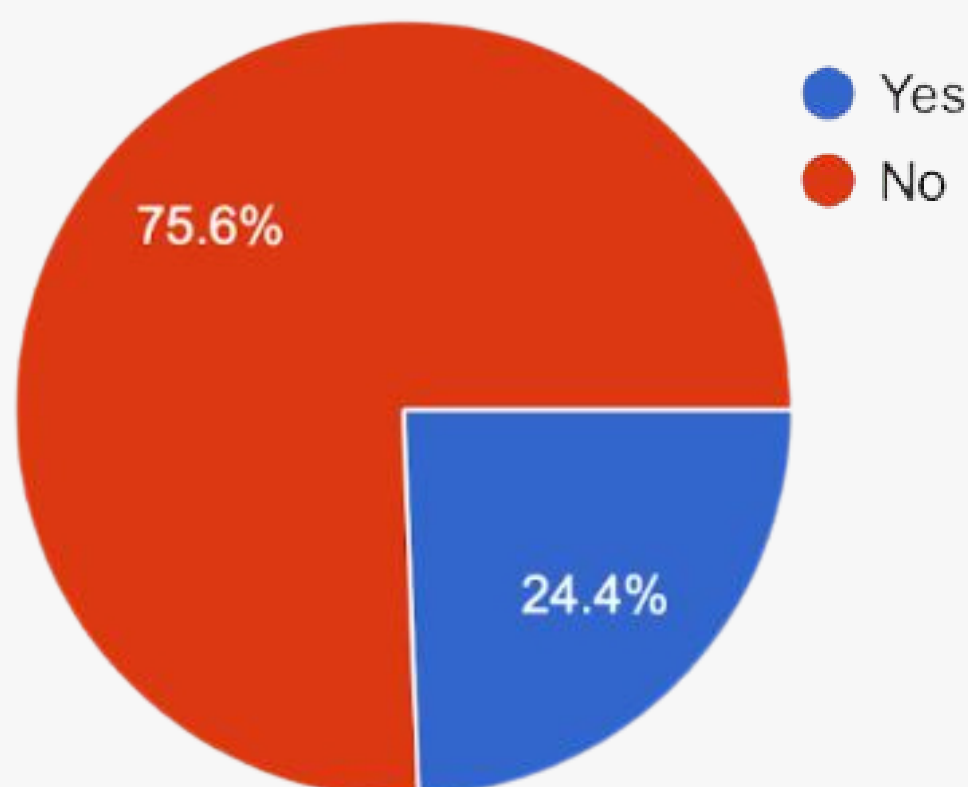
"More efficient use of resources such as water, energy, and materials" was the most popular. This is something that more than half of respondents implement at work. Some of the respondents included "adopting sustainable practices," "renewable energy," and "improving the energy efficiency of buildings, machinery, and equipment, such as using more efficient lighting, heating, and cooling systems."

It seems that there is an overarching behaviour associated with Green or Circular Economies among the respondents, even though most of the respondents stated that they were not familiar with such concepts. It's also worth noting that over half of the respondents selected multiple practices. This demonstrates that greener economy practices are beginning to become a reality, but they require further assistance to gain knowledge and comprehension.

NEED ANALYSIS REPORT

CE+ BUSINESS SURVEY

Q 5. Have you made changes or taken any steps in your business to align with the principles of the European Green Deal?



These responses correspond perfectly with respondents' (un)familiarity with the EU Green Deal. It is reasonable to assume that businesses familiar with the EU Green Deal are taking steps to apply it in their operations. So informing and educating people about the EU Green Deal principles could be a good method to encourage them to take action.

Q 6. If yes, can you provide examples of the changes or steps you have taken? If no, indicate N/A

Even though some respondents stated that the actions had been taken, 76% could not recognise and provide any of the examples of changes or steps made.

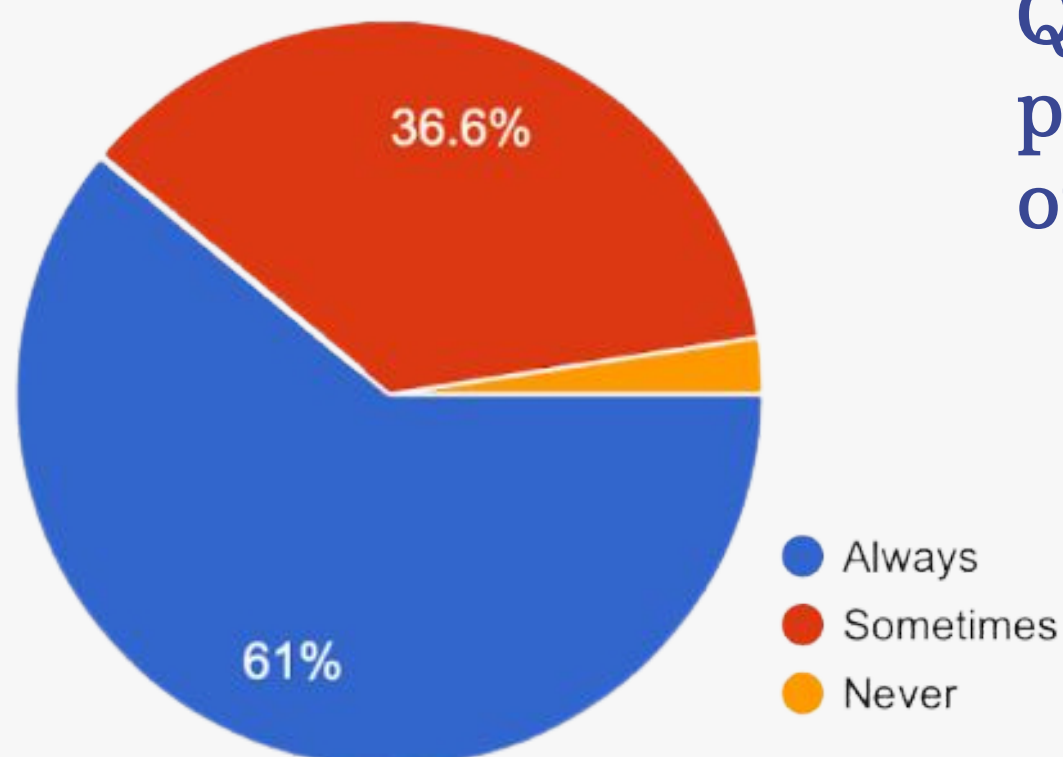
Only a few instances were given:

Adopting sustainable packaging;	We attempt to save energy and re-use items;
Recycling, sustainable consumption, and reducing plastic waste;	Use of renewable energy in student housing and business vehicles (2);
Biodiversity and old growth forest preservation;	Compensation for producing greenhouse gas emissions.

It was also indicated that respondents might be doing something but don't know what. Again, the same pattern emerges: insufficient knowledge to recognise what has been done or is occurring.

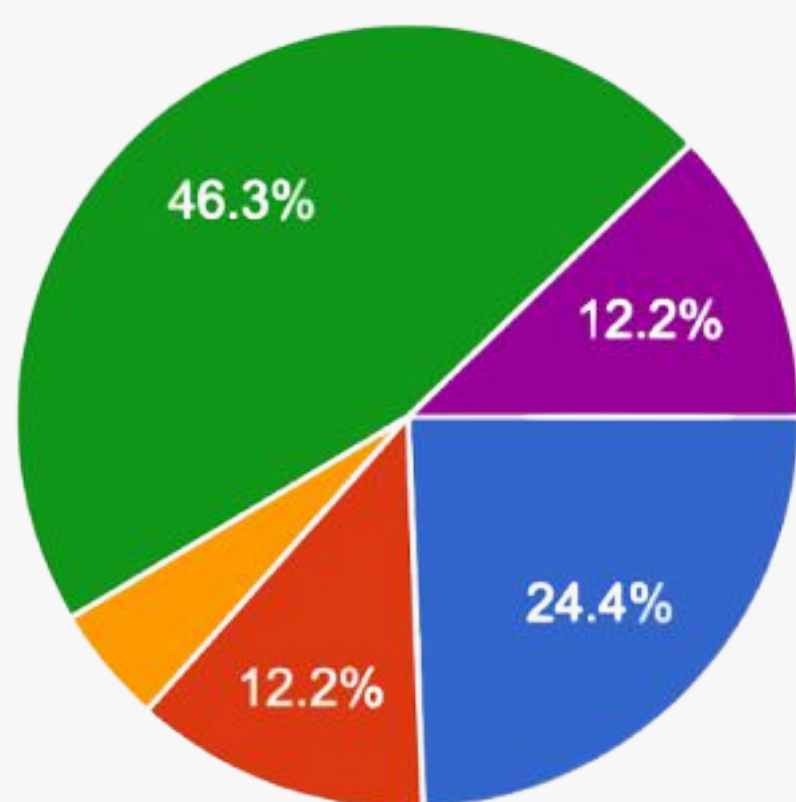
NEED ANALYSIS REPORT

CE+ BUSINESS SURVEY



Q 7. Do you sort out glass, paper, plastic bottles and cans at your office?

- 61% of the respondents stated that they “always” sort out waste at the office,
- 37% only do it “sometimes”,
- whilst 2% “never sort out waste.



Q 8. How is your organisation using natural resources in a sustainable way?

The majority of respondents (46%) are unsure whether their organisations use natural resources. Again, the issue of insufficient information is present.

Almost a third (24%) of respondents stated that their organisation "actively implements actions and tracks a number of Key Performance Indicators that demonstrate the impact of the organisation and its goods / services on the natural environment."

Some respondents also stated that their organisation "has developed an innovation portfolio of processes and technology to reduce impact on natural resources, e.g. materials science, remanufacturing" (12,2%). However, 12% stated that the "organisation is not using natural resources in a sustainable manner." Another component that was lacking was the documentation procedure.

There is a palpable sense of missing information about how businesses operate or how natural resources could be exploited in more sustainable ways.

NEED ANALYSIS REPORT

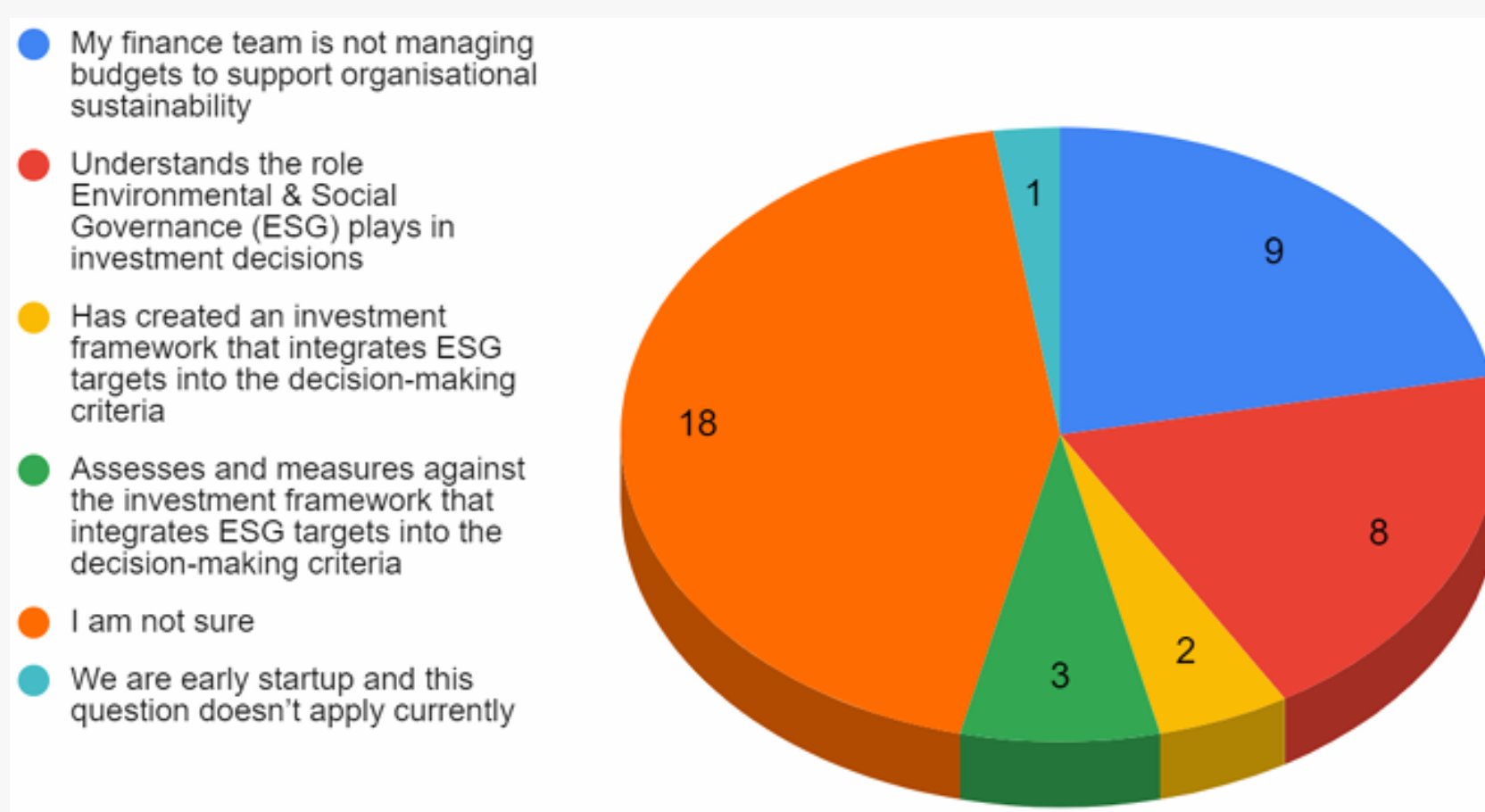
CE+ BUSINESS SURVEY

Q9. How is your finance team managing budgets, investments and reporting to support organisational sustainability ambitions?

The majority of the respondents, (44%) stated that they were not sure how their finance team managed budgets to support organisational sustainability ambitions, which could be an indication of a lack of transparency or communication within the finance department. It is important for organisations to ensure that their finance teams effectively communicate their strategies and actions related to sustainability goals to all relevant stakeholders.

22% stated that their finance team did not manage such budgets, which indicates the lack of alignment of financial practices with sustainability objectives. Organisations should strive to integrate sustainability considerations into their financial decision-making processes to promote long-term viability and responsible resource allocation.

A total of 12% of respondents have either created an investment framework or measure and assess against the investment framework that integrates Environmental, Social, and Governance (ESG) targets into the decision-making criteria. This demonstrates a commendable commitment to integrating sustainability principles into financial practices. It would be valuable to further explore and learn from these organisations to understand their successful approaches and share best practices.



NEED ANALYSIS REPORT

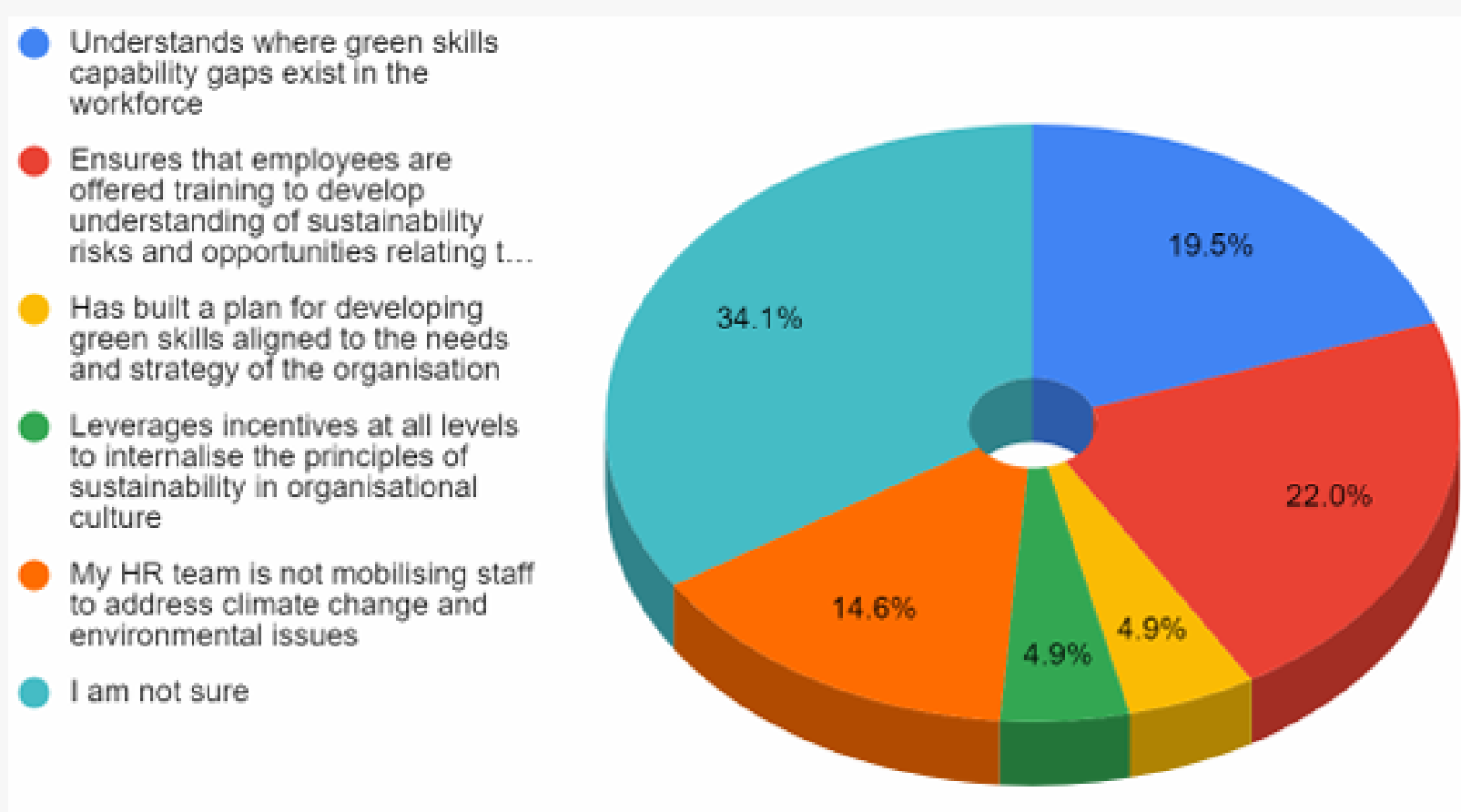
CE+ BUSINESS SURVEY

Q10. How is your HR team mobilising staff to address climate change and wider environmental issues?

34% of the respondents stated that they were not sure how their HR team mobilises staff to address climate change; and 15 % stated that their HR team did not mobilise staff to address climate change. This suggests a lack of awareness or communication regarding the HR team's initiatives in this area. Organisations should focus on improving communication channels to ensure that employees are well-informed about the strategies and efforts being made by HR to address climate change and environmental issues. HR teams play a critical role in fostering a culture of sustainability and driving employee engagement in environmental initiatives. It is important for organisations to recognise the importance of HR's involvement in addressing climate change and provide the necessary resources and support to enable them to do so effectively. The majority of the respondents stated that their HR Team:

- Ensures that employees are offered training to develop understanding of sustainability risks and opportunities relating to their industry and organisation (22%)
- Understands where green skills capability gaps exist in the workforce (20%)
- Has built a plan for developing green skills aligned to the needs and strategy of the organisation (5%)
- Leverages incentives at all levels to internalise the principles of sustainability in organisational culture (5%)

These efforts demonstrate a commitment to building awareness, skills, and a sustainable mindset among employees.



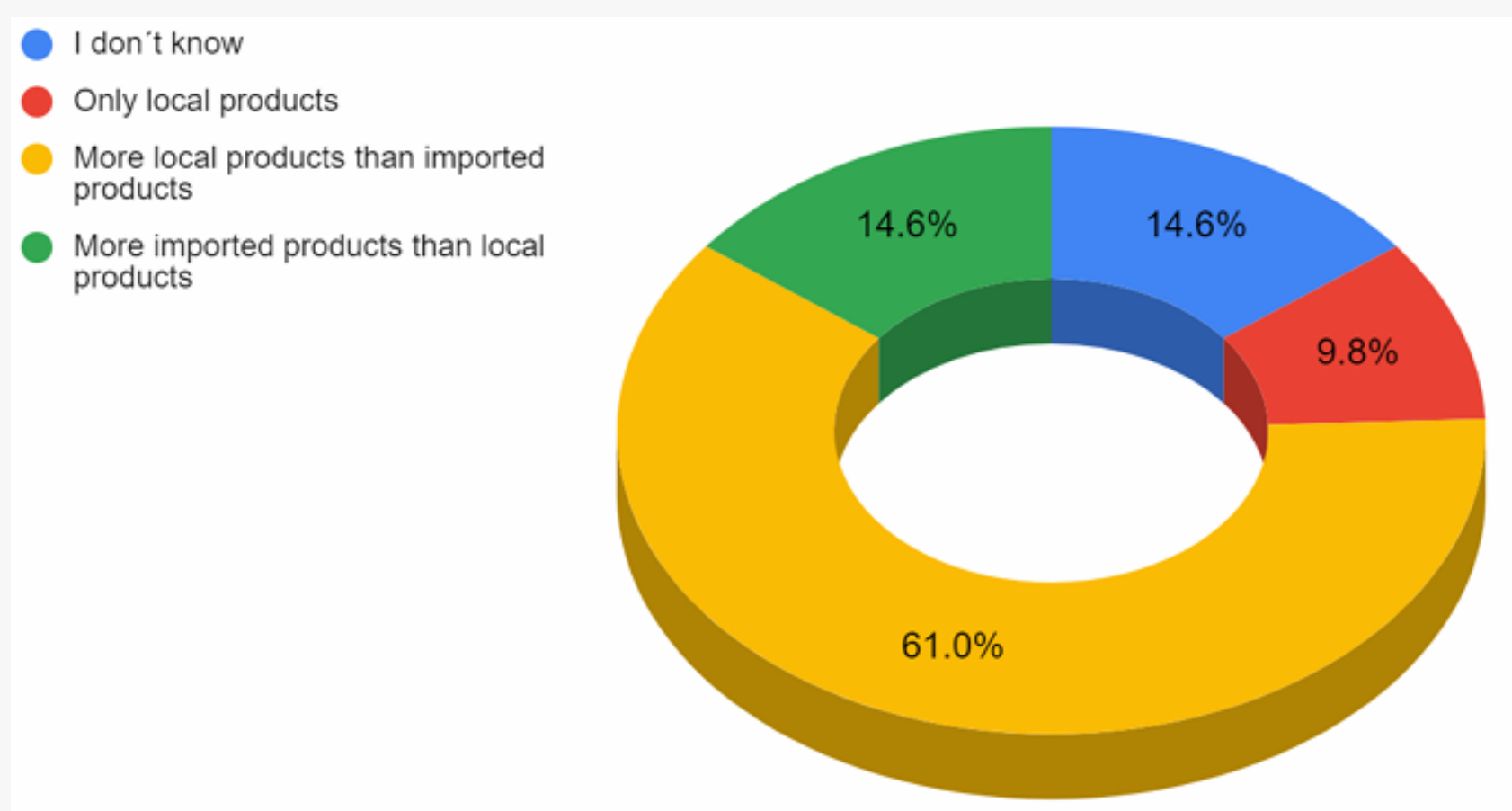
NEED ANALYSIS REPORT

CE+ BUSINESS SURVEY

Q11. Does your business buy local products or imported products?

The majority of the respondents (71%) stated that they either buy only local products or purchase more local products than imported ones. This indicates a recognition of the importance of supporting local economies, reducing carbon footprints associated with transportation, and promoting local industries. Additionally, this preference for local products demonstrates a commitment to sustainability and community engagement.

15% of the respondents stated respectively, that they either “don’t know” where their business sources products from or they buy more imported products than local ones. Lack of knowledge about product sourcing suggests a potential lack of transparency or monitoring in procurement practices. Businesses should prioritise understanding the origin of their products to assess the environmental and social impact associated with their supply chains. Additionally, businesses should explore opportunities to shift towards local sourcing where feasible to support local economies and reduce carbon emissions.



NEED ANALYSIS REPORT

CE+ BUSINESS SURVEY

Q12. Which green skills would you most need in your business?

The majority of the respondents (71%) stated that the green skills they need the most in their business are:

- Efficient, green processes
- Happier workforce, contributing to green initiatives
- Pollution prevention

The majority of respondents (71%) recognise the value of efficient, green processes, implying a desire to optimise resource utilisation, decrease waste, and reduce environmental impact. This displays a dedication to the long-term viability and efficiency of corporate operations.

Furthermore, the preference for a happier workforce supporting green projects emphasises the significance of employee engagement and motivation in driving sustainability activities. Organisations are realising that creating a healthy work environment and encouraging employees to participate in green initiatives can lead to higher overall success in sustainability practices.

- 12% of the respondents voted for the opportunity to attract new talent seeking an ethical career path.

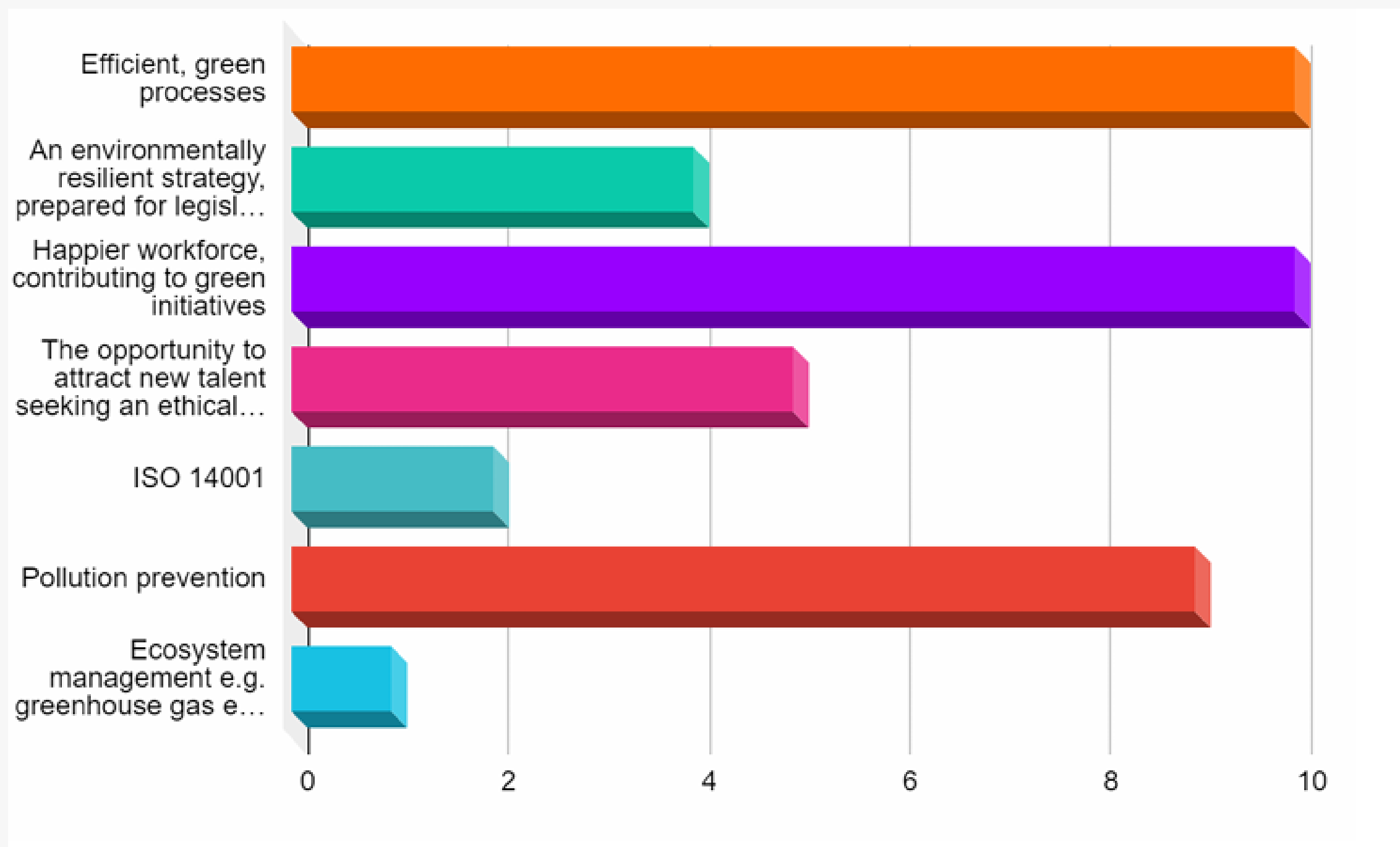
This suggests a desire to attract individuals who are passionate about sustainability and who can bring fresh perspectives and innovative ideas to the organisation.

- 9% of the respondents voted for an environmentally resilient strategy, prepared for legislation and compliance changes.
- 5% of the respondents voted for ISO 14001, which sets out the criteria for an environmental management system and can be certified to. It maps out a framework that an organisation can follow to set up an effective environmental management system. Regardless of its activity or sector, it can provide assurance to company management and employees as well as external stakeholders that environmental impact is being measured and improved.
- 2% of the respondents voted for Ecosystem management e.g. greenhouse gas emission.

The latter 3 responses demonstrate a recognition of the need to align with regulatory requirements, implement effective environmental management systems, and actively manage and mitigate environmental impacts.

NEED ANALYSIS REPORT

CE+ BUSINESS SURVEY



NEED ANALYSIS REPORT

CE+ BUSINESS SURVEY

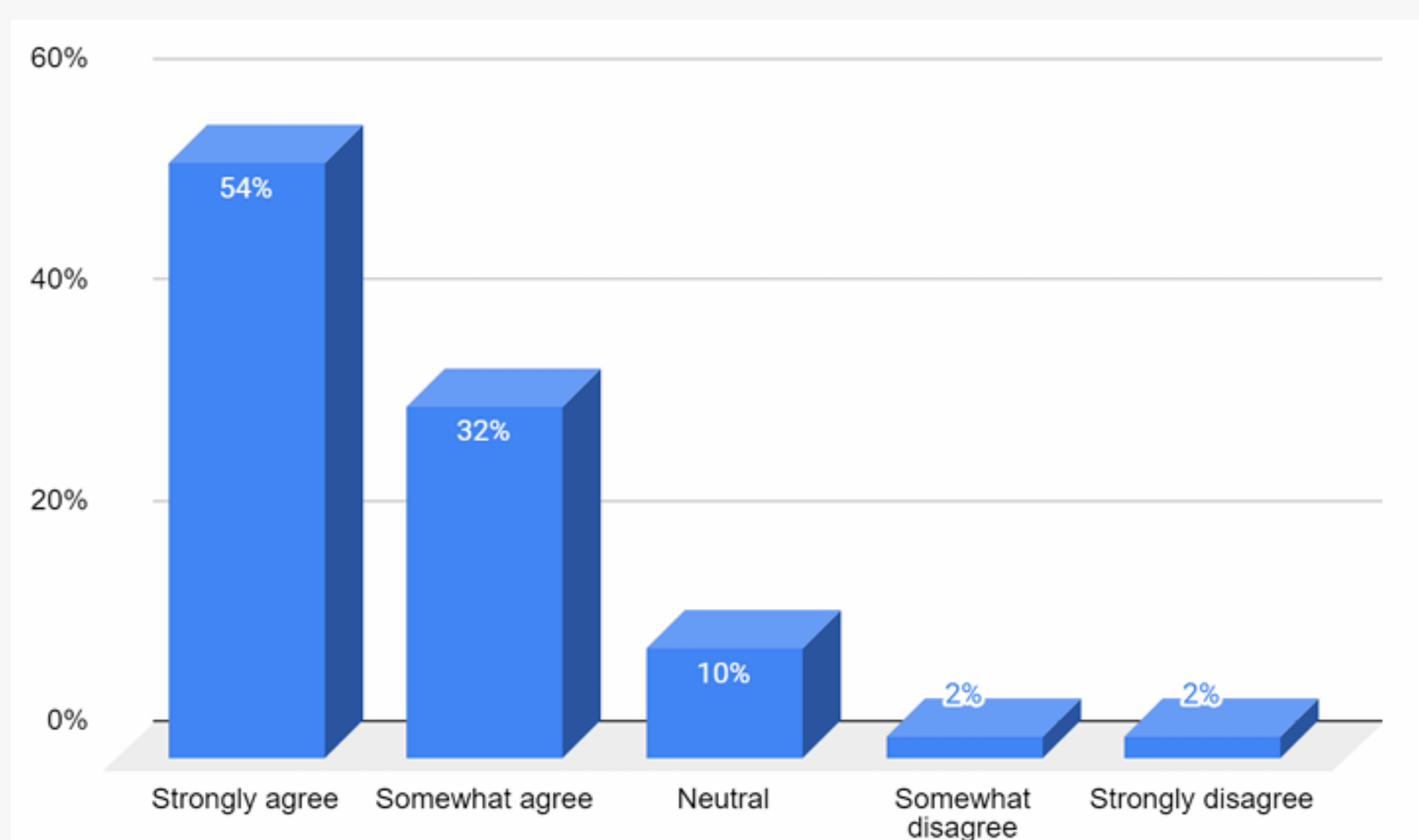
Q13. Do you believe that pursuing a circular and green economy is important for the future of your business and society?

The majority of the respondents (54%) strongly agree that pursuing a circular and green economy is important for the future of their business and society and 10% somewhat agreed.

These responses reflect a growing awareness of the environmental challenges we face and the need for businesses to adopt sustainable practices. By embracing a circular economy, organisations can reduce waste, promote resource efficiency, and minimise environmental impacts, while also contributing to the overall well-being of society.

10% of the respondents were neutral about this statement, which suggests that there may be a need for further education and awareness-building regarding the benefits and importance of a circular and green economy.

4% of the respondents somewhat disagreed and strongly disagreed with the statement. It would be important to explore the reasons behind these viewpoints. Organisations should engage with these individuals to understand their concerns, address any misconceptions, and promote the long-term benefits of pursuing a circular and green economy.



NEED ANALYSIS REPORT

CE+ BUSINESS SURVEY

Q14. What are some of the biggest challenges you face in pursuing a circular and green economy in your business?

In this question, the respondents were given the opportunity to choose as many options as applicable to their businesses. The majority of the respondents stated that one of the biggest challenge they face in pursuing a circular and green economy is Financial constraints (22%), followed by Technical barriers (18%), Resistance to change (17%), and lack of awareness and understanding of the benefits and principles of circular and green economy.

These results indicate that businesses may face limitations in terms of budget and resources required to implement sustainable practices, technological advancements and expertise required to implement circular and green practices. It is recommended to explore strategies to overcome financial constraints including seeking funding opportunities, conducting cost-benefit analyses to showcase the long-term savings associated with sustainability, and identifying potential revenue streams from circular economy initiatives. To address technical barriers, businesses can invest in research and development, collaborate with industry partners or experts, and provide training and education to employees to enhance technical capabilities.

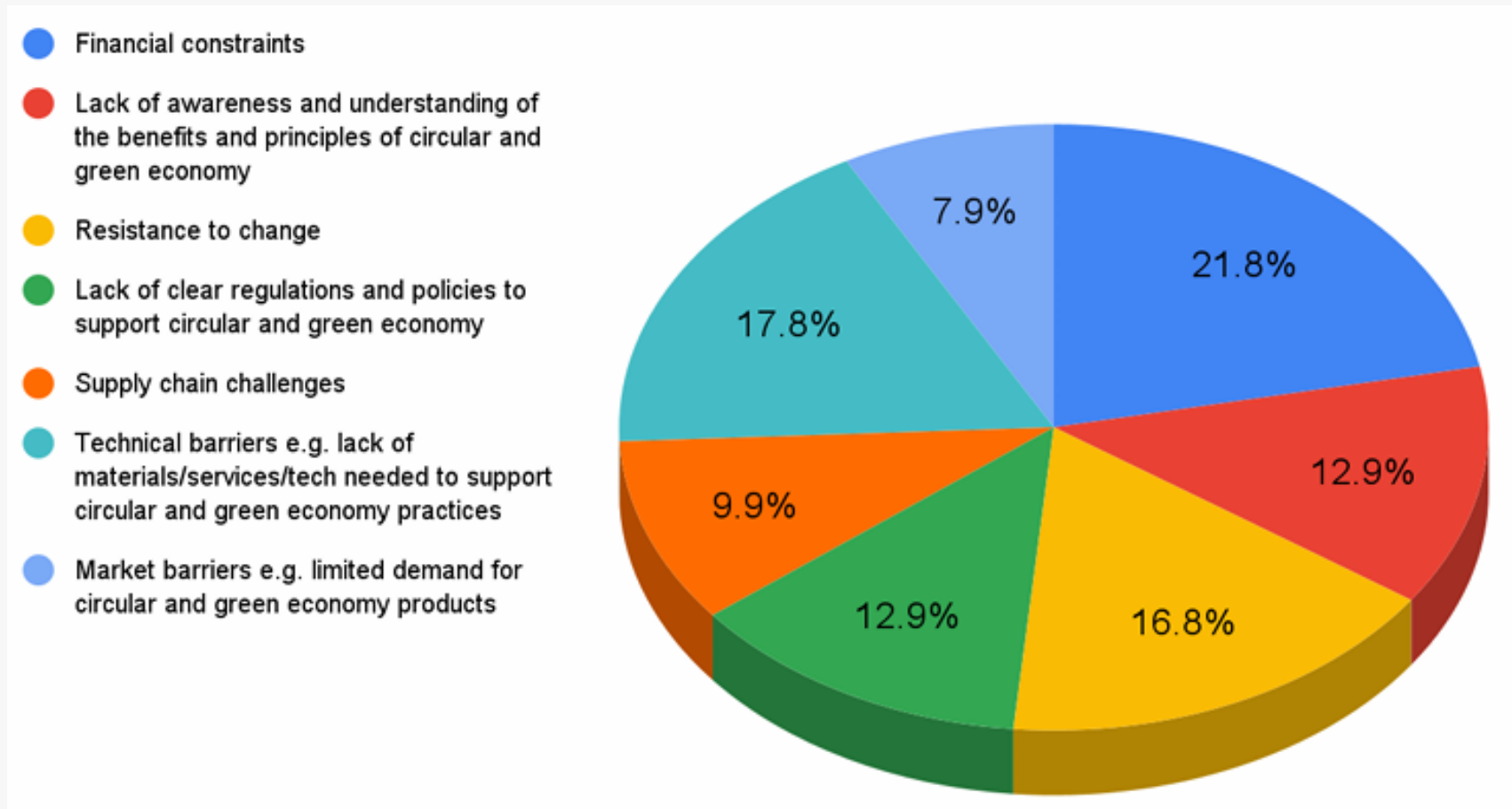
Organisational culture is crucial in sustainability initiatives. Businesses should focus on effective change management strategies, provide clear communication and education about the benefits of circular and green economy practices, and involve employees in the decision-making process to foster a culture of sustainability.

Some of the responses suggest that there is a need for increased education, awareness-building, and knowledge sharing initiatives regarding the benefits of a circular and green economy to drive change.

The other challenges mentioned including supply chain challenges (10%), lack of clear regulations (13%), and market barriers (8%) suggest that there is a need to emphasise the importance of collaboration, policy advocacy, and market-driven solutions to enable a circular and green economy.

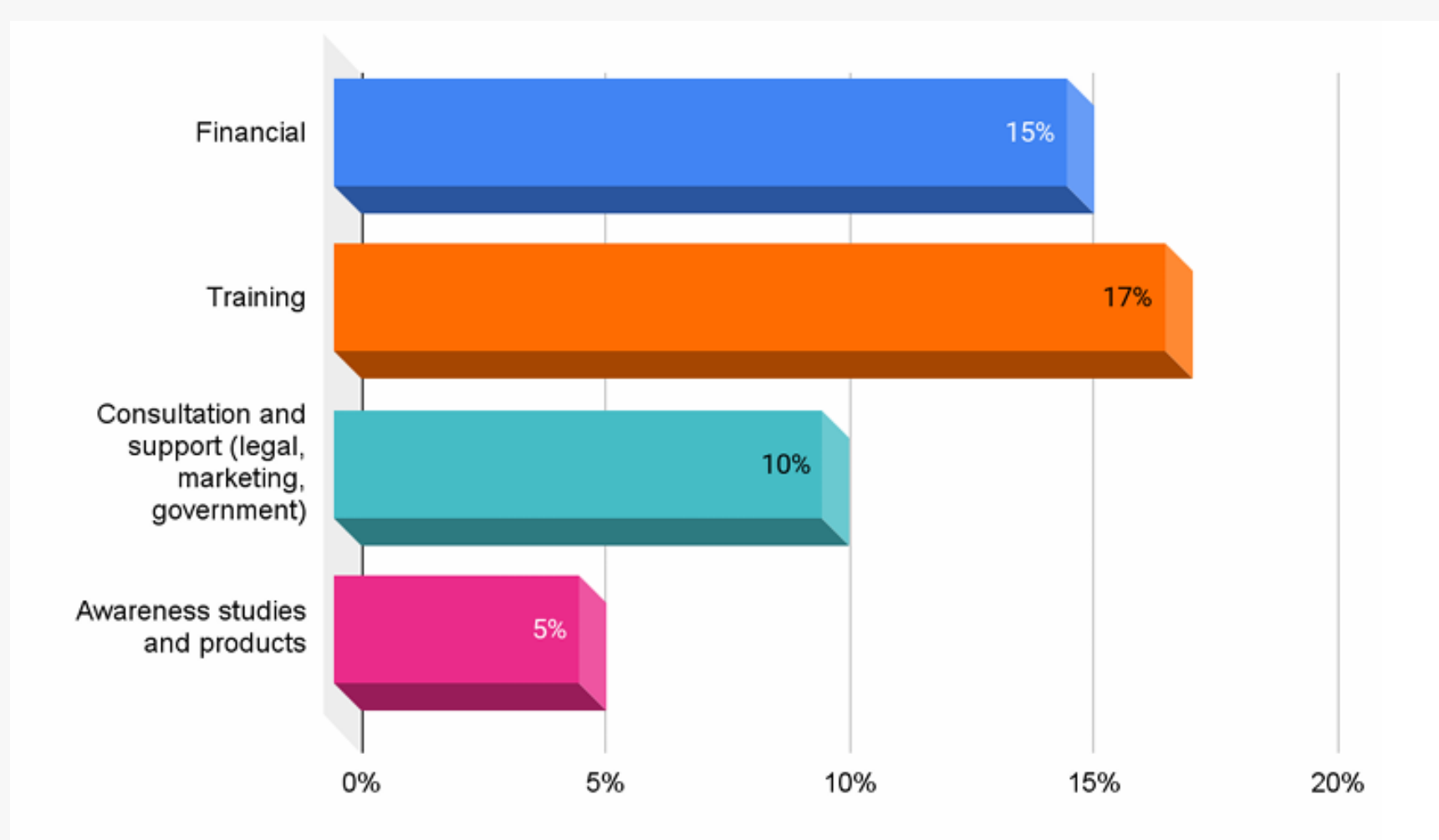
NEED ANALYSIS REPORT

CE+ BUSINESS SURVEY



Q15. What kind of support or resources would be most helpful for your business in pursuing a circular and green economy?

19 respondents (out of the 41) provided feedback on the various support they would like to receive in order to pursue a circular and green economy. The chart below shows the responses:



To effectively support businesses in their pursuit of a circular and green economy, it is important for stakeholders such as government agencies, industry associations, and sustainability-focused organisations, to collaborate and provide a comprehensive range of resources and support. This can involve financial incentives, grants, research and development programs, capacity-building initiatives, knowledge sharing platforms, and partnerships with industry experts and organisations.

CE+ YOUTH SURVEY

CE+ YOUTH SURVEY SUMMARY

The Youth Survey section of the needs assessment report focuses on young people's awareness, attitudes, and behaviors towards the Circular Economy, Green Economy, and European Green Deal. Key insights from this section include:

1. **Demographics:** The survey involved young respondents primarily from Lithuania, followed by Slovakia, Ireland, Estonia, Belgium, and Turkey, with most of them being between 16 to 20 years old.
2. **Awareness and Knowledge:** There was a noticeable lack of knowledge among the youth regarding the concepts of circular economy, green economy, and the European Green Deal, highlighting a significant need for increased awareness and education in these areas.
3. **Interest in Learning:** Despite the lack of familiarity with these concepts, there was a positive interest among the respondents in learning more about them, especially regarding the green economy.
4. **Views on Linear Economy:** A majority of the youth believe that the current linear economy model ("take, make, waste") is not sustainable for the future, indicating an awareness of the need for more sustainable economic models.
5. **Perceived Benefits of Transition:** Respondents identified reducing waste and pollution, increasing material and energy efficiency, and supporting economic growth as significant benefits of transitioning to a circular/green economy.
6. **Government Measures:** The youth felt strongly that governments should promote renewable energy sources and regulate resource use to prevent waste and pollution, supporting the transition to a circular and green economy.

CE+ YOUTH SURVEY

CE+ YOUTH SURVEY SUMMARY

7. **Consumer Habits:** There was a mix in consumer habits, with a significant portion of respondents preferring local products over imported ones and demonstrating environmentally conscious behaviors like waste sorting and energy conservation.

8. **Engagement in Environmental Projects:** Many respondents indicated their participation in environmental activities such as tree planting and growing their own fruits, herbs, or vegetables, reflecting a proactive stance towards environmental sustainability.

9. **Challenges in Transition:** High costs and lack of government support were identified as major challenges in the transition to a circular and green economy, pointing to the need for policy and financial support in this area.

10. **Role of Educational Institutions:** Respondents believe that education about the benefits of reusable products and materials is crucial in promoting circular economy principles, highlighting the importance of integrating these topics into educational curricula.

11. **Sustainability Understanding:** The youth have a strong understanding of sustainability, green economy, and sustainable growth, associating them with environmental protection and sustainable resource use.

12. **Learning Gaps:** A significant proportion of respondents reported not learning about circular economy principles in their educational institutions, indicating a gap in education that needs to be addressed.

NEED ANALYSIS REPORT

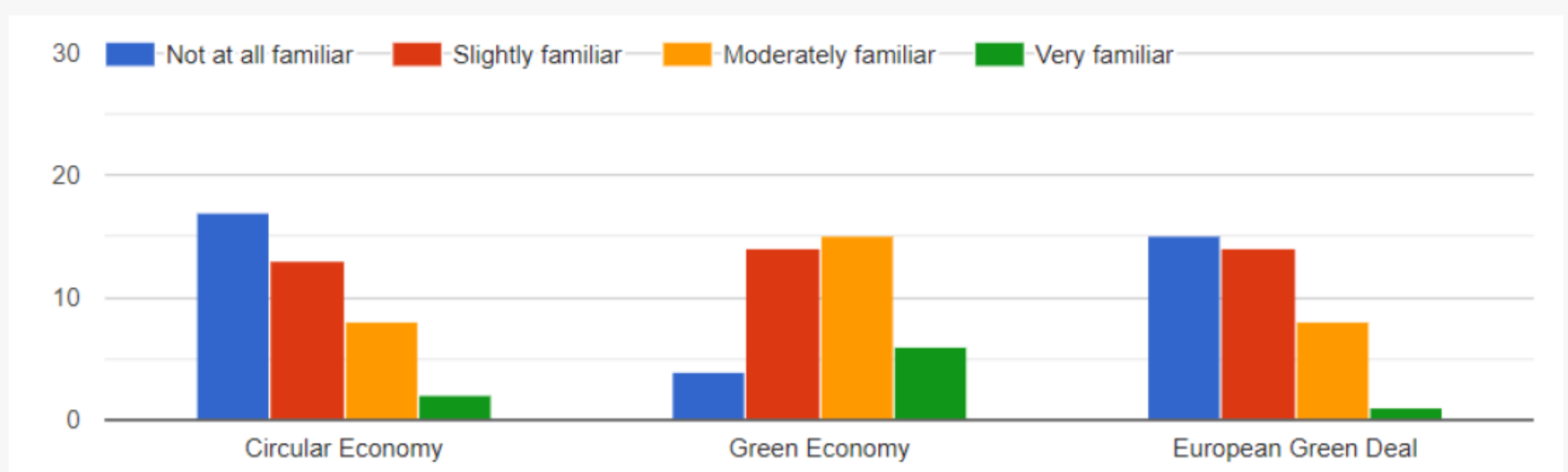
CE+ YOUTH SURVEY

Q 1. Basic information about respondents:

Country of residents - the majority of respondents - youngsters were from Lithuania (40%), followed by Slovakia, Ireland, Estonia, Belgium and Turkey.

The majority of youngsters were at the age from 16 to 20 years old.

Q 2. How familiar are you with the concepts of the following

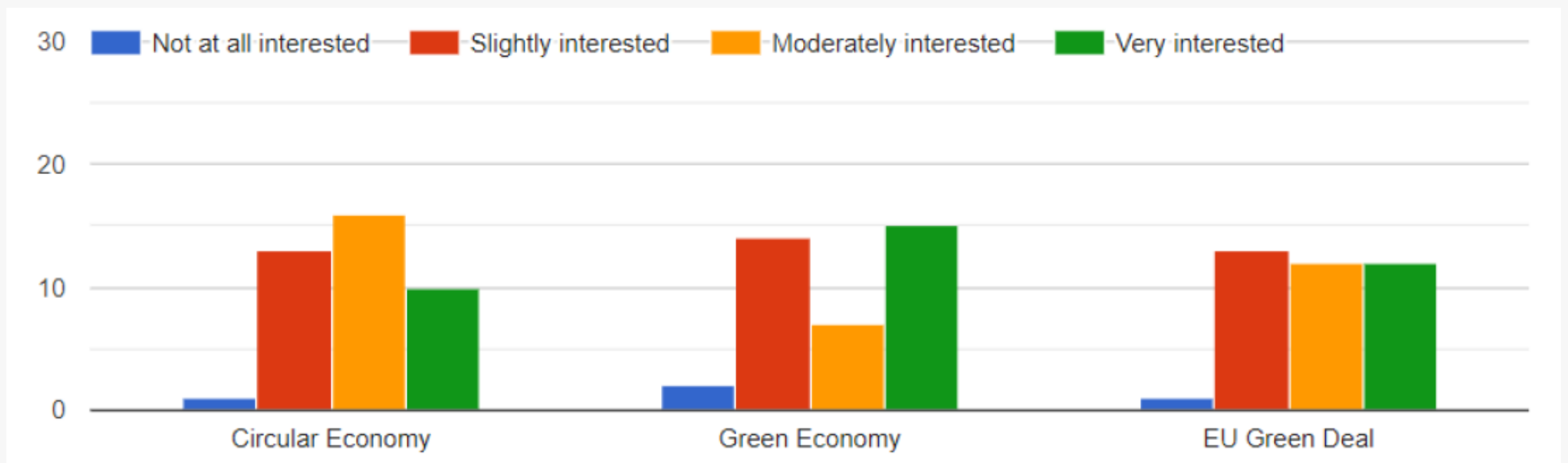


This chart shows that the majority of respondents have not enough knowledge about the concepts of circular economy, green economy and European green deal. The overall situation proves that there is a strong need to raise awareness and enhance knowledge about all three concepts.

NEED ANALYSIS REPORT

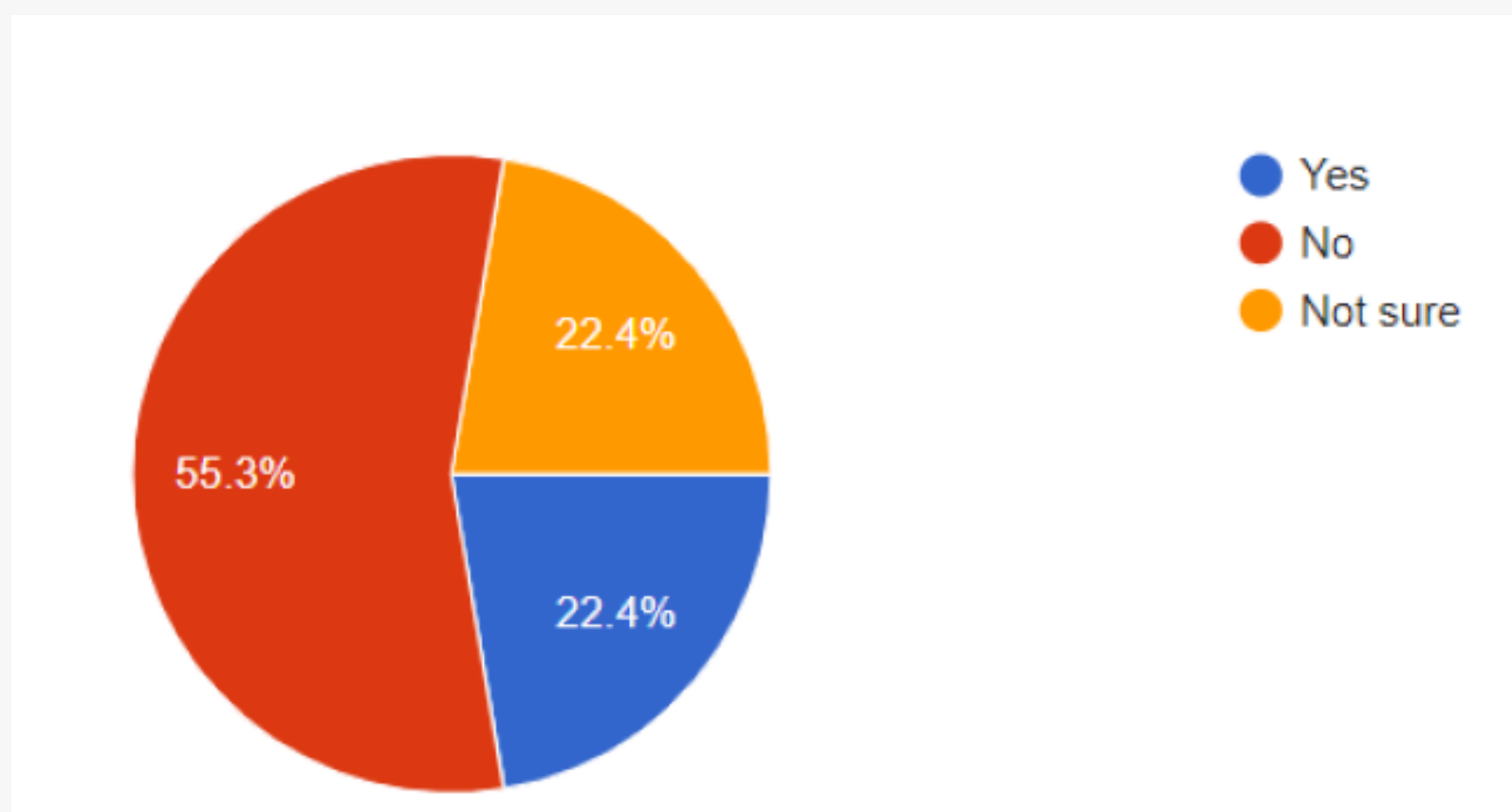
CE+YOUTH SURVEY

Q 3. How interested are you in learning more about the following?



Positive finding is that even though the respondents are not very familiar with the concepts depicted, most of them show an interest in learning and gaining knowledge regarding the topics. Half of the respondents are very interested while the rest indicated that they were slightly or moderately interested in obtaining more information, especially in the field of green economy.

Q 4. Do you think the current linear economy (take, make, waste) is sustainable for the future?

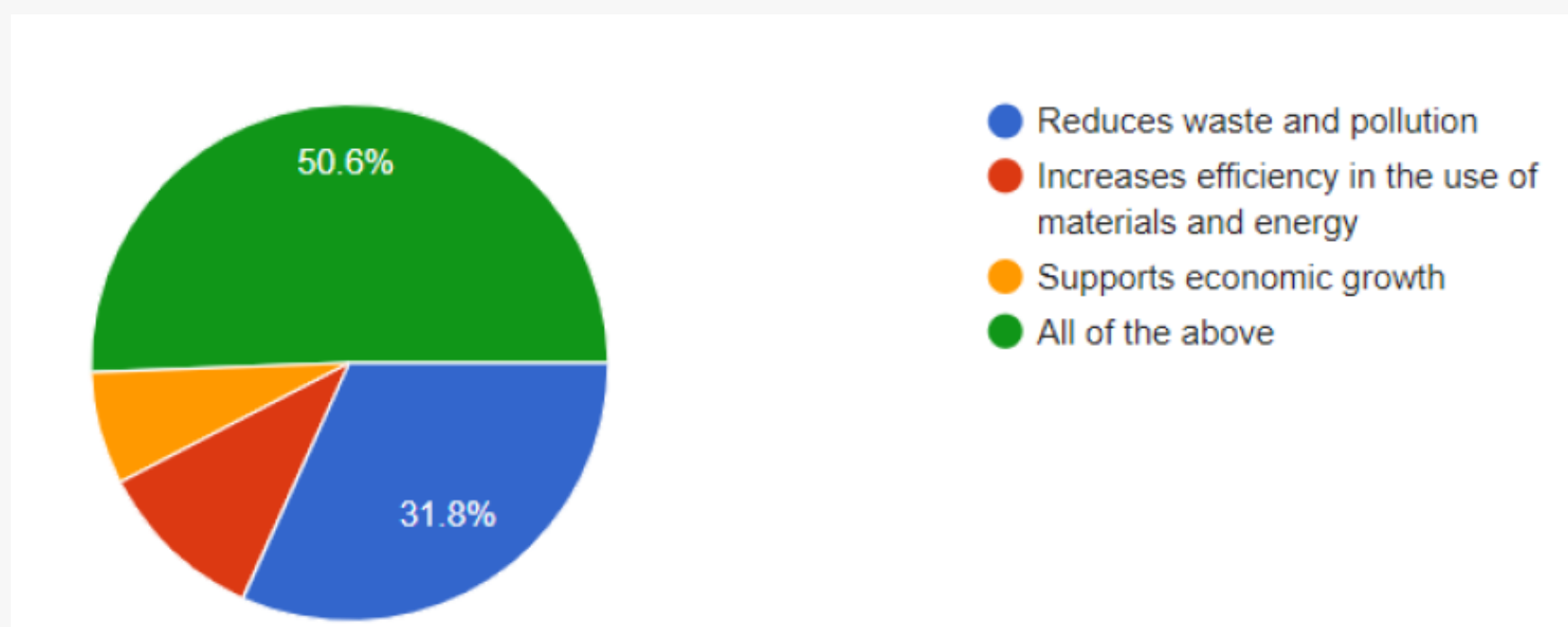


The majority of respondents think that the current linear economy is not sustainable for the future. Almost a third (22,4%) are not sure and the same percentage of the respondents think that the current linear economy is sustainable, which is rather alarming. This also shows an evidence that actions in the field of education towards greener future is needed.

NEED ANALYSIS REPORT

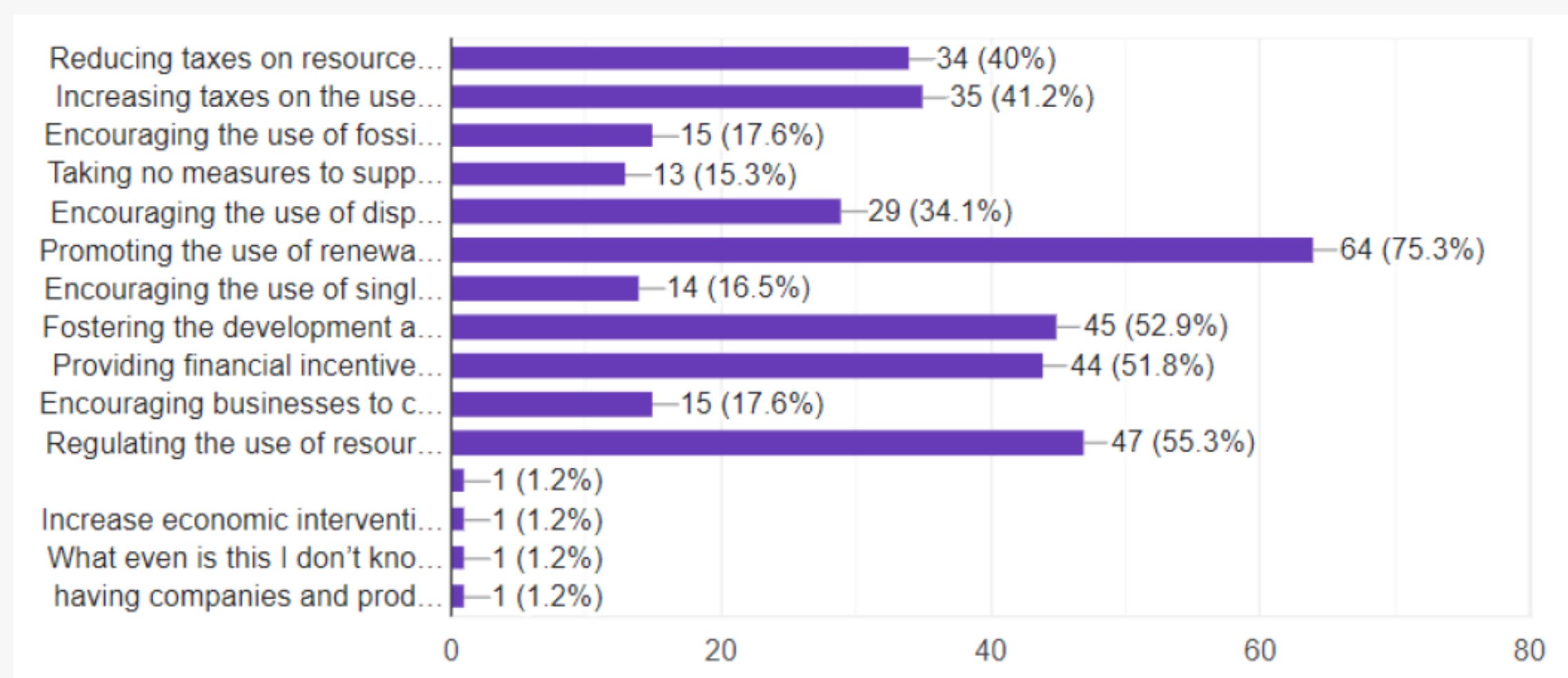
CE+ YOUTH SURVEY

Q 5. In your opinion, what are some of the benefits of transitioning to a circular/green economy?



A half of the respondents (50,6%) thinks that the most significant benefits of circular/green economy is reducing waste and pollution, increasing efficiency in the use of materials and energy. Furthermore it supports economic growth.

Q 6. In your opinion, what measures should governments implement to support the transition to a circular and green economy?

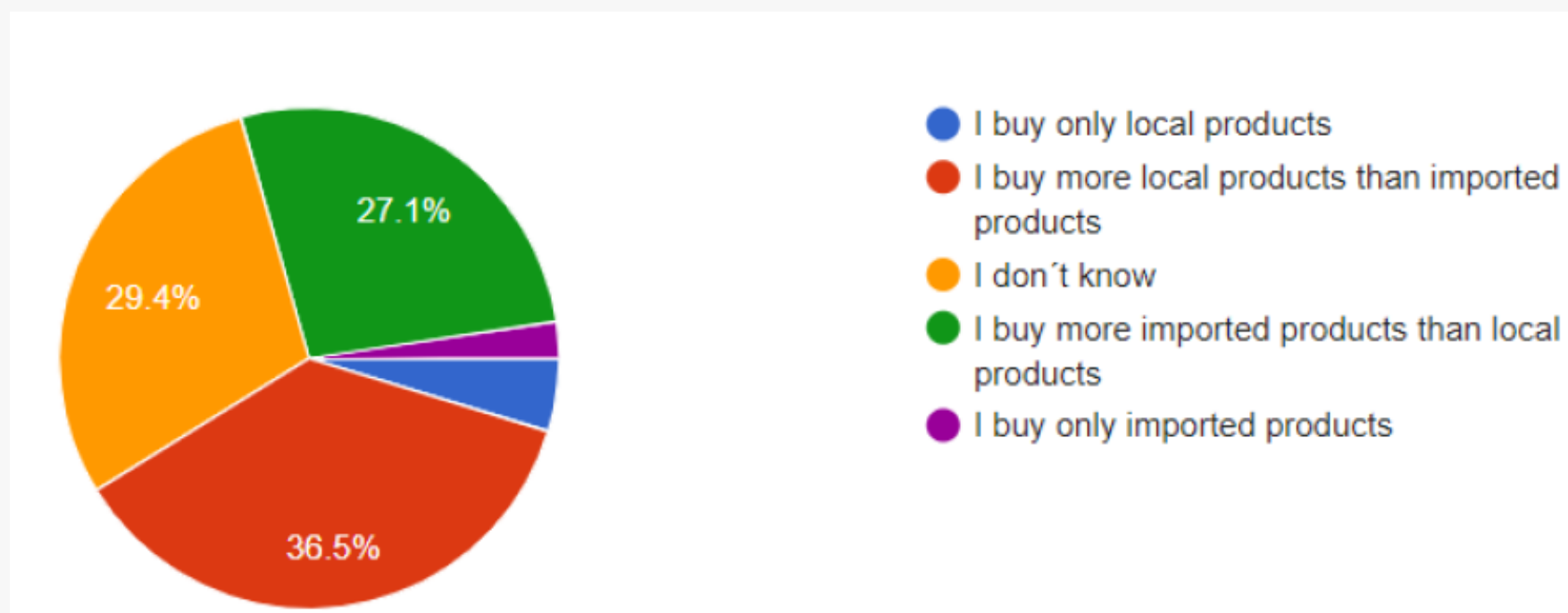


Youngsters – the respondents believe (75,3%) that the governments should promote the use of renewable energy sources. Besides, 55,3% of the respondents think that regulating the use of resources to prevent waste and pollution as well as fostering the development and use of reusable products and materials (52,9%) would help to support the transition to a circular and green economy.

NEED ANALYSIS REPORT

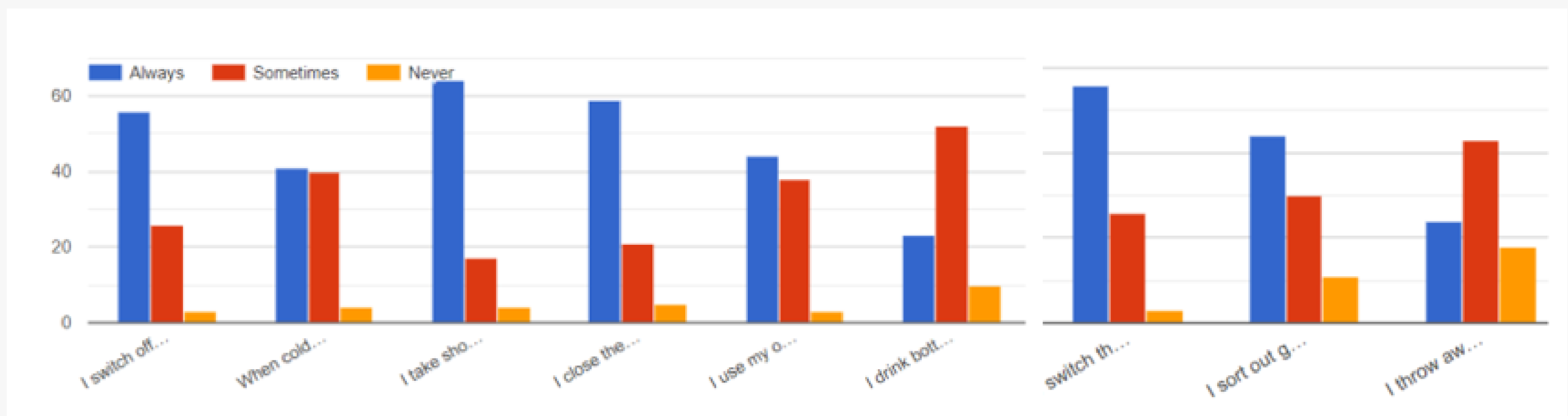
CE+YOUTH SURVEY

Q 7. Do you buy local products or imported products?



36,5% of respondents buy more local products than imported products. On the other hand, 27,1% of respondents buy more imported products than local products. A third of the respondents are not conscious about the origin of the products that they buy.

Q 8. Indicate your habits

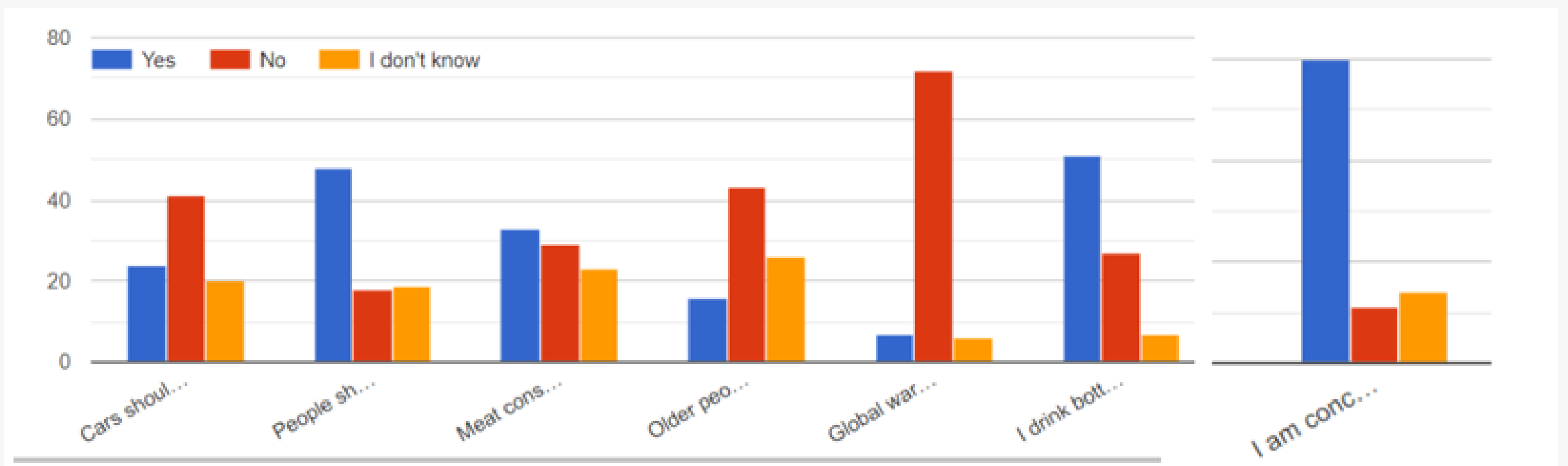


The chart shows that the majority of respondents are environmentally conscious indicating appropriate habits to be green. Most of the youngsters take showers instead of baths, they close the tap while brushing their teeth, switch the lights off when they leave a room and sort out glass, paper, plastic bottles and cans.

NEED ANALYSIS REPORT

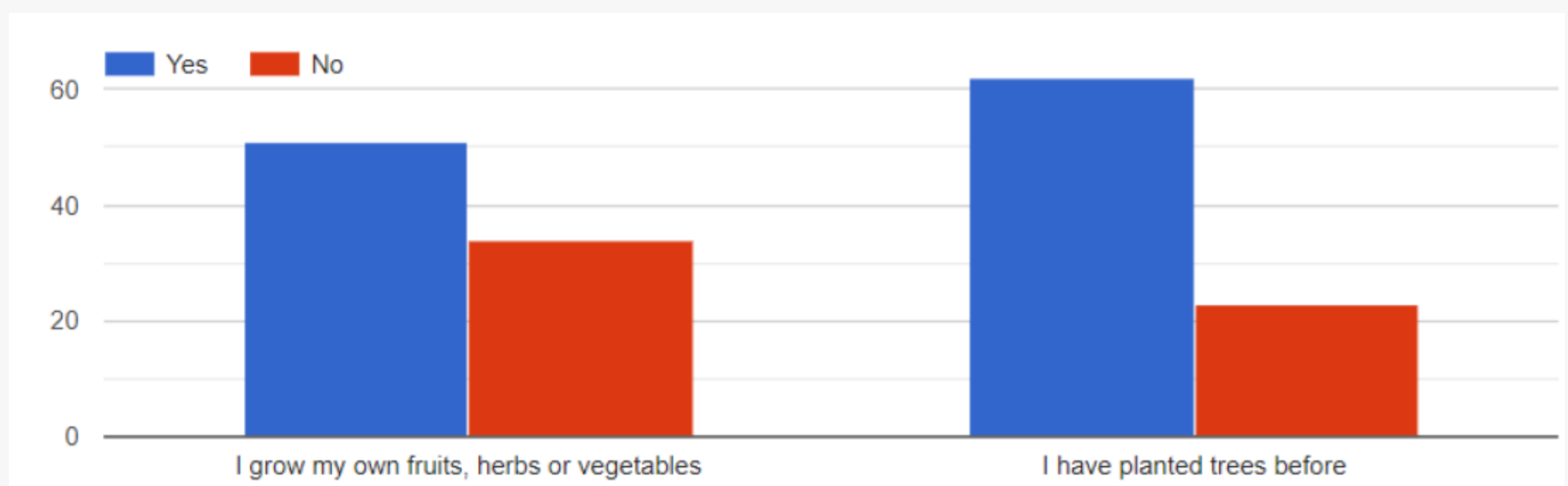
CE+YOUTH SURVEY

IMPACT ON THE ENVIRONMENT Q9 . Indicate your thoughts



The majority of the respondents is concerned about the global change and almost nobody thinks that global warming is a myth.

Q 10. Indicate your habits

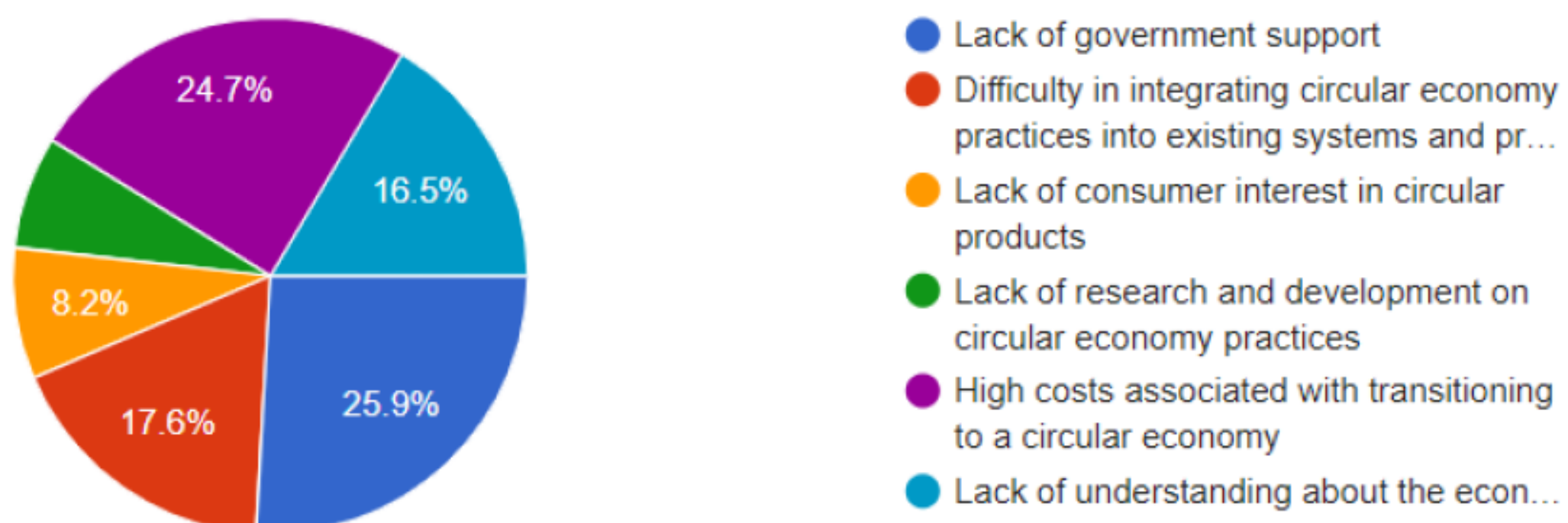


Most of the respondents grow their own fruits, herbs or vegetables. A significant percentage of respondents have already planted trees before.

NEED ANALYSIS REPORT

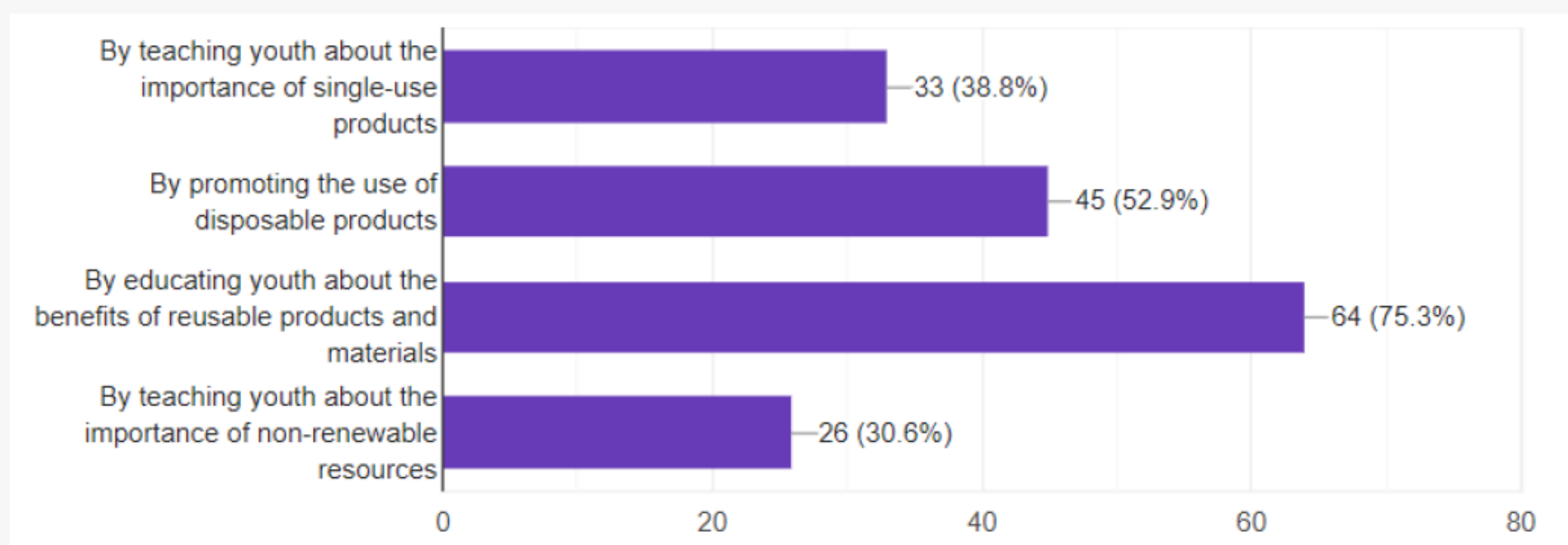
CE+ YOUTH SURVEY

ME AND CIRCULAR AND GREEN ECONOMY Q 11. In your opinion, what is one of the main challenges in the transition to a circular and green economy?



The respondents (25,9%) think that one of the main challenges in the transition to a circular and green economy is the lack of government support. Another significant challenge is high costs associated with transitioning to a circular economy

Q 12. How do you think educational institutions/youth organisations can play a role in promoting circular economy principles?

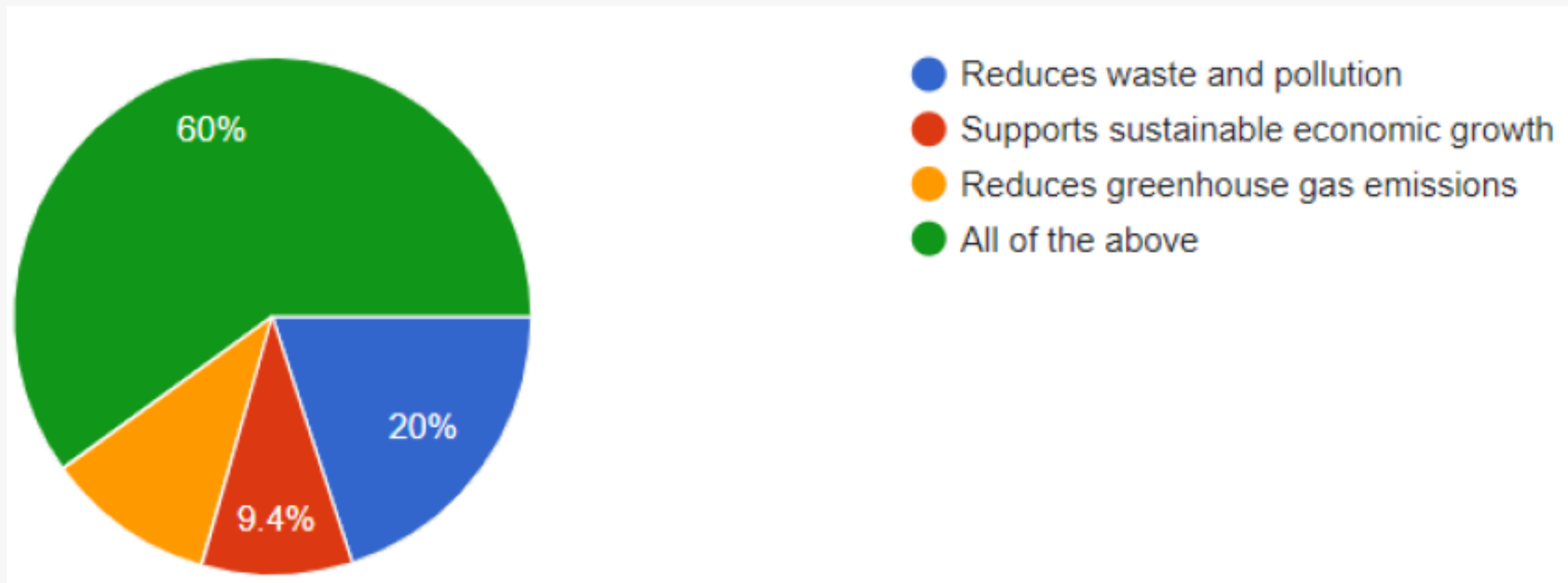


Educating youth about the benefits of reusable products and materials is considered to be a main role in promoting circular economy by 75,3% of the respondents. More than a half of the respondents think that the use of disposable products should be promoted.

NEED ANALYSIS REPORT

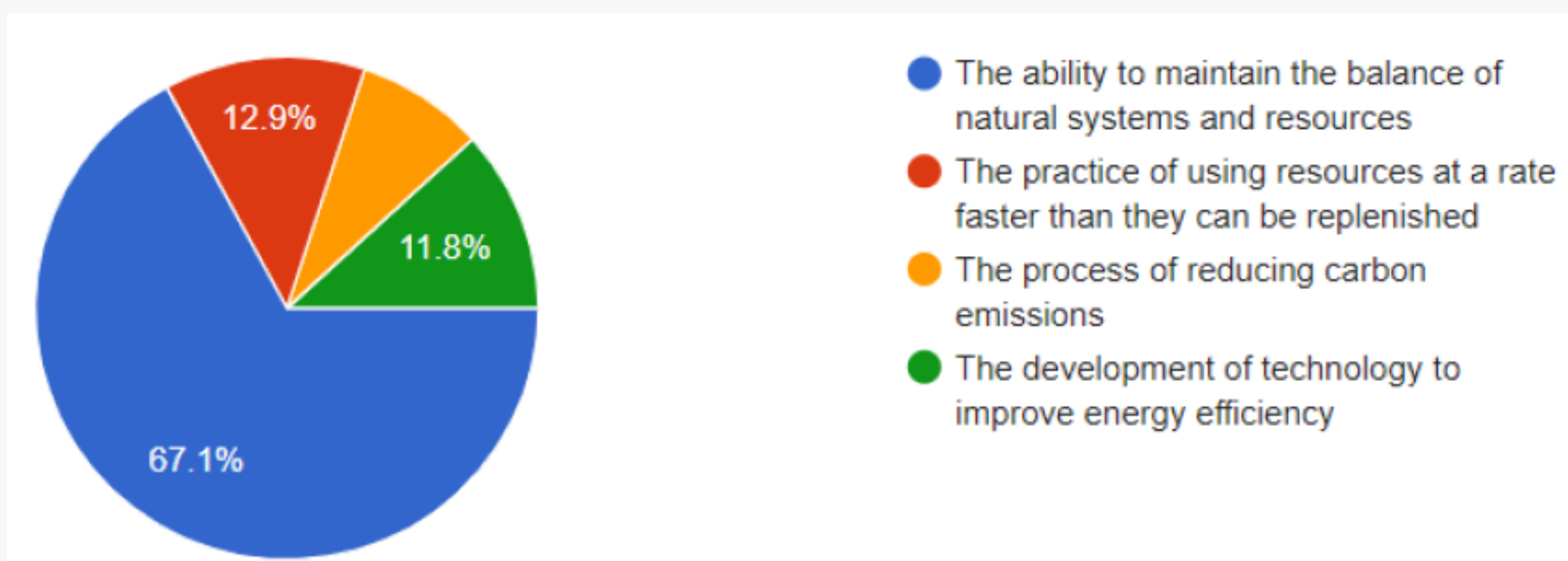
CE+YOUTH SURVEY

Q 13. In your opinion, what are the benefits of transitioning to a green economy?



The respondents are aware of the benefits of transitioning to a green economy. 60% of them consider reducing waste and pollution, supporting sustainable economic growth and reducing greenhouse gas emissions to be the most significant ones.

Q 14. What is sustainability?

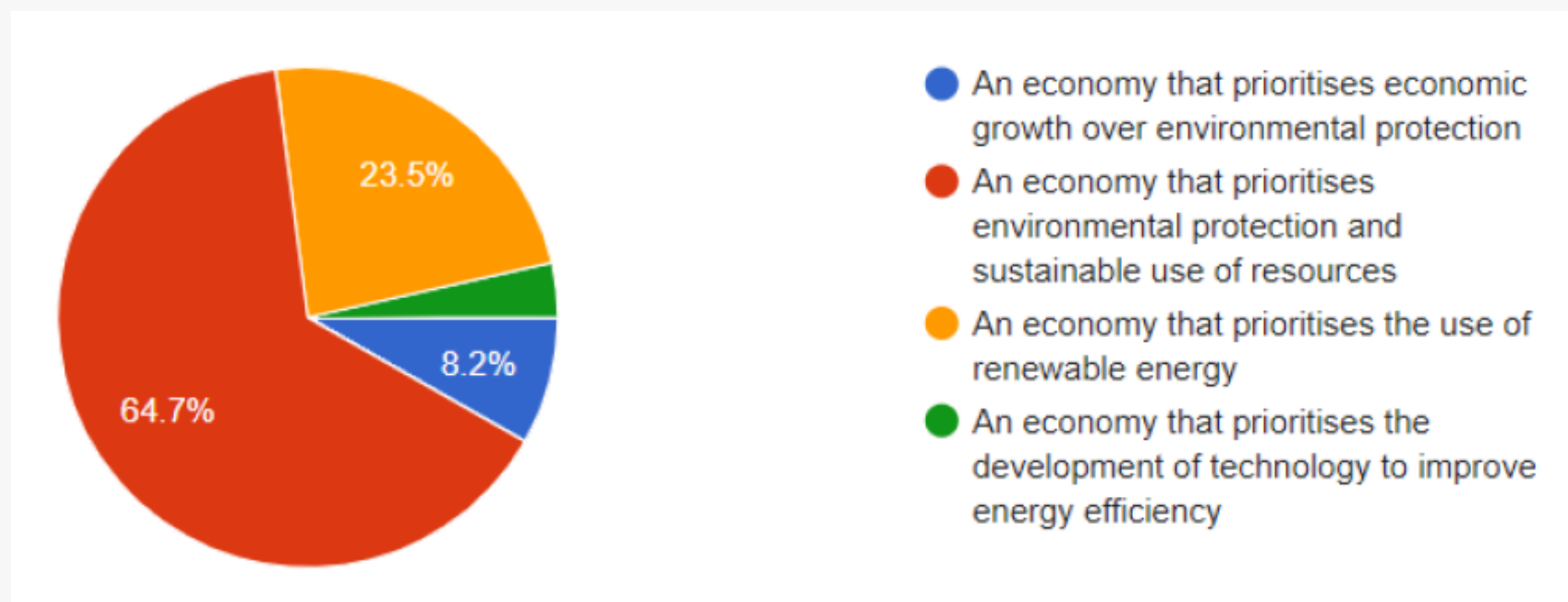


67,1% of the respondents understand sustainability as the ability to maintain the balance of natural systems and resources.

NEED ANALYSIS REPORT

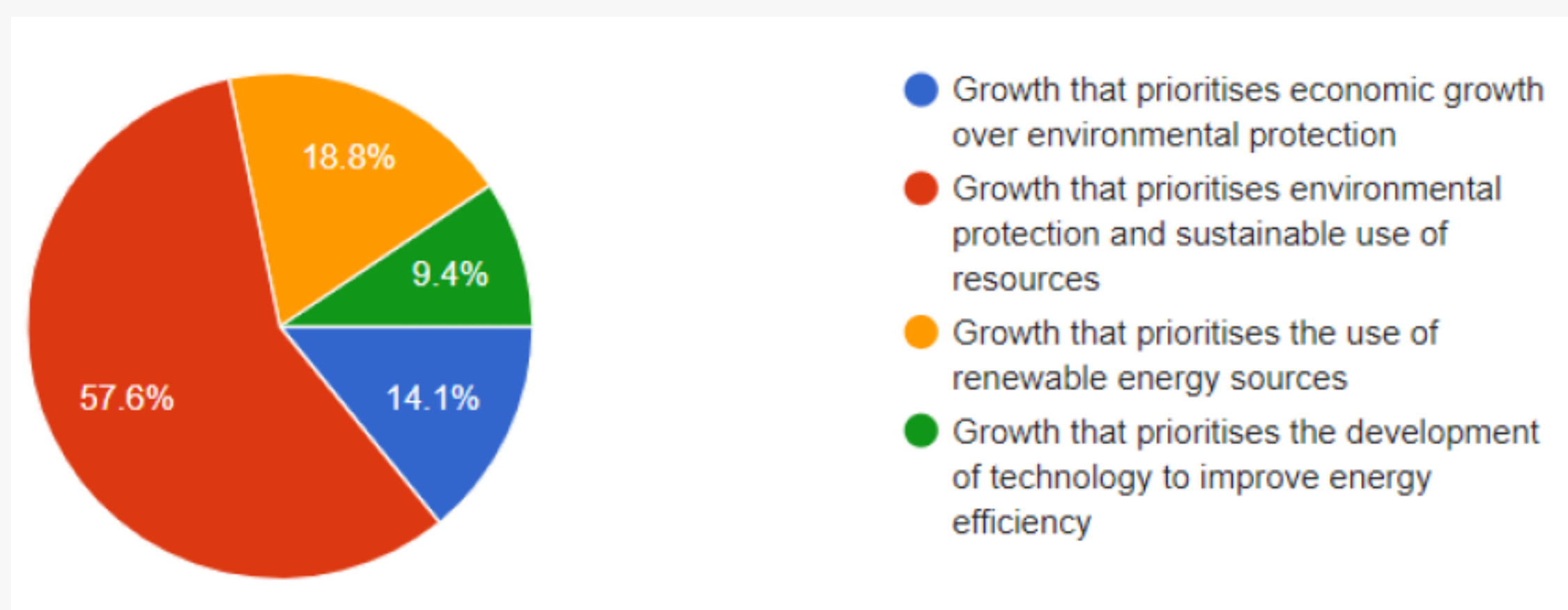
CE+YOUTH SURVEY

Q 15. What is green economy?



Most of the respondents (64,7%) think that green economy is an economy that prioritises environmental protection and sustainable use of resources.

Q 16. What is sustainable growth?

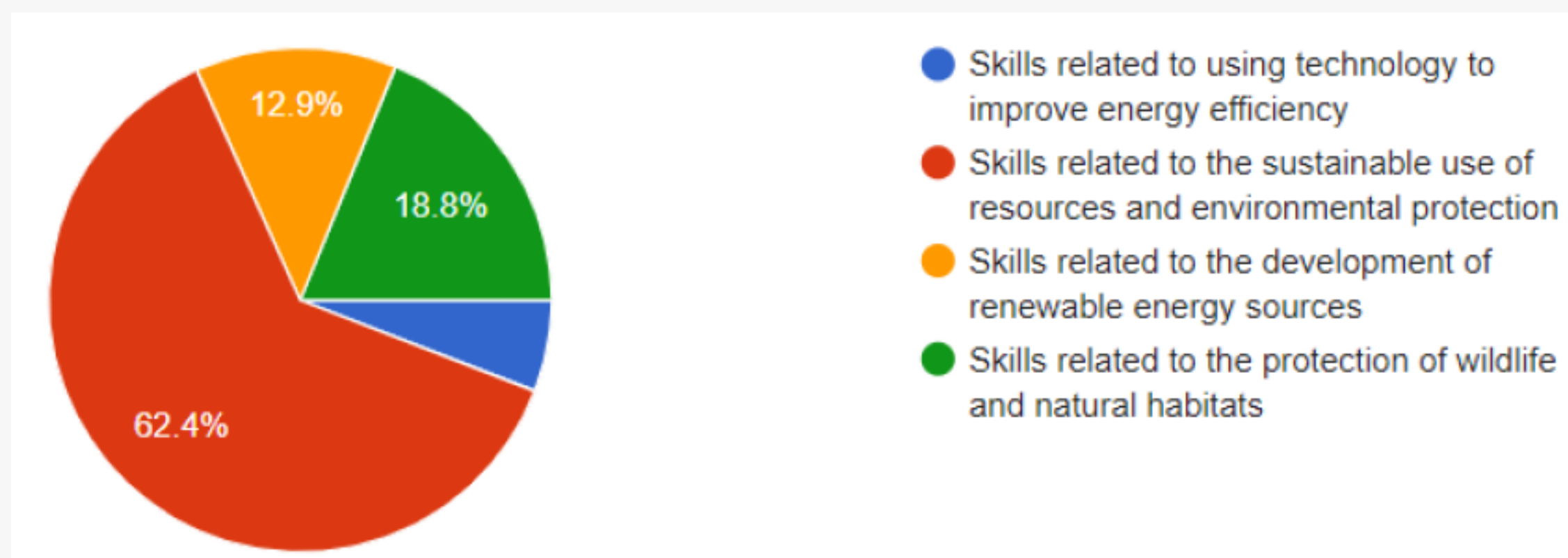


Sustainable growth is the growth that prioritises environmental protection and sustainable use of resources. That is what 57,6% of respondents believe.

NEED ANALYSIS REPORT

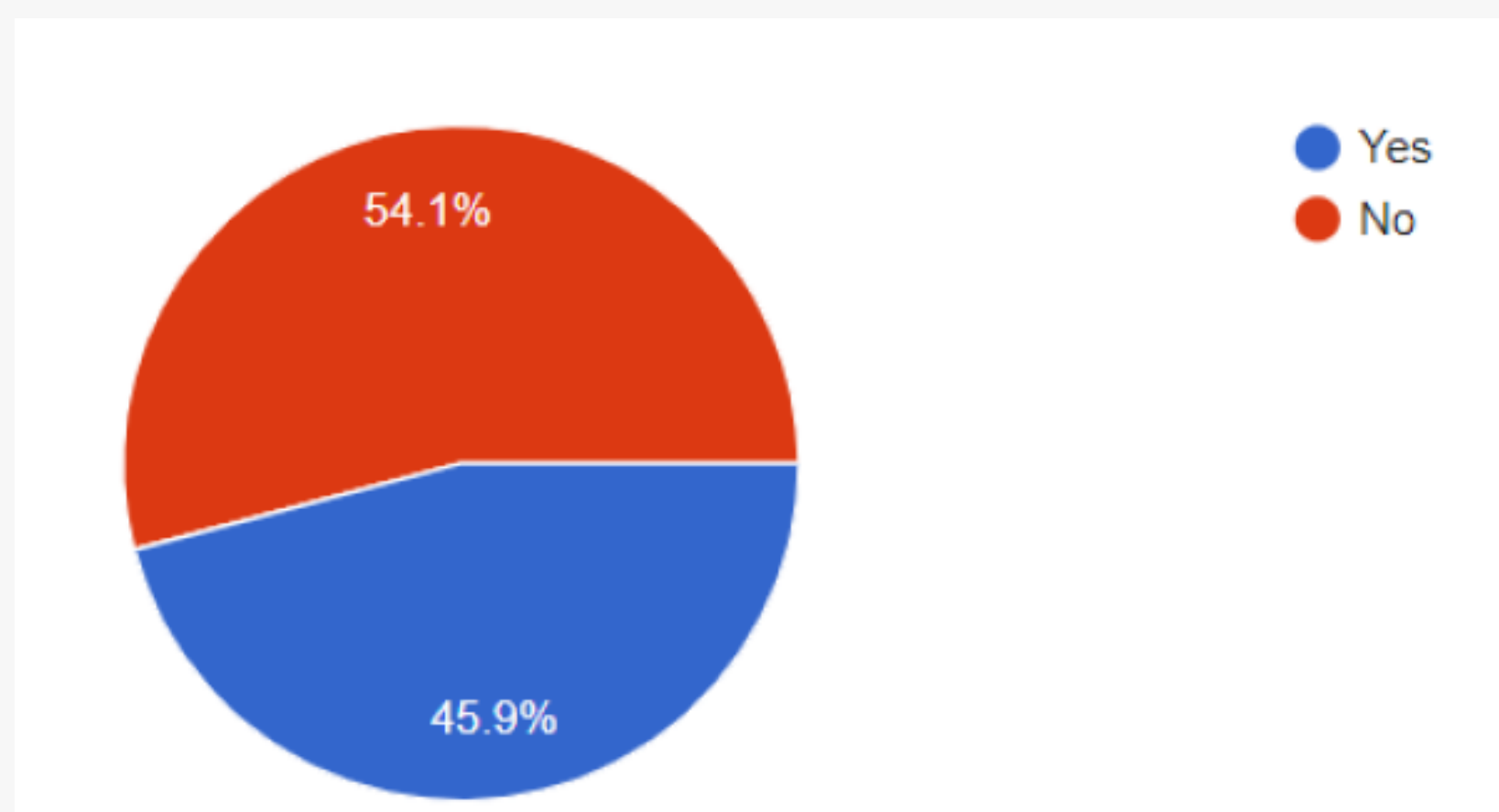
CE+YOUTH SURVEY

Q 17. What are green skills?



The respondents think (62,4%) that green skills are those related to the sustainable use of resources and environmental protection.

Q 18. Do you learn about circular economy at school/college/university/youth organisation?

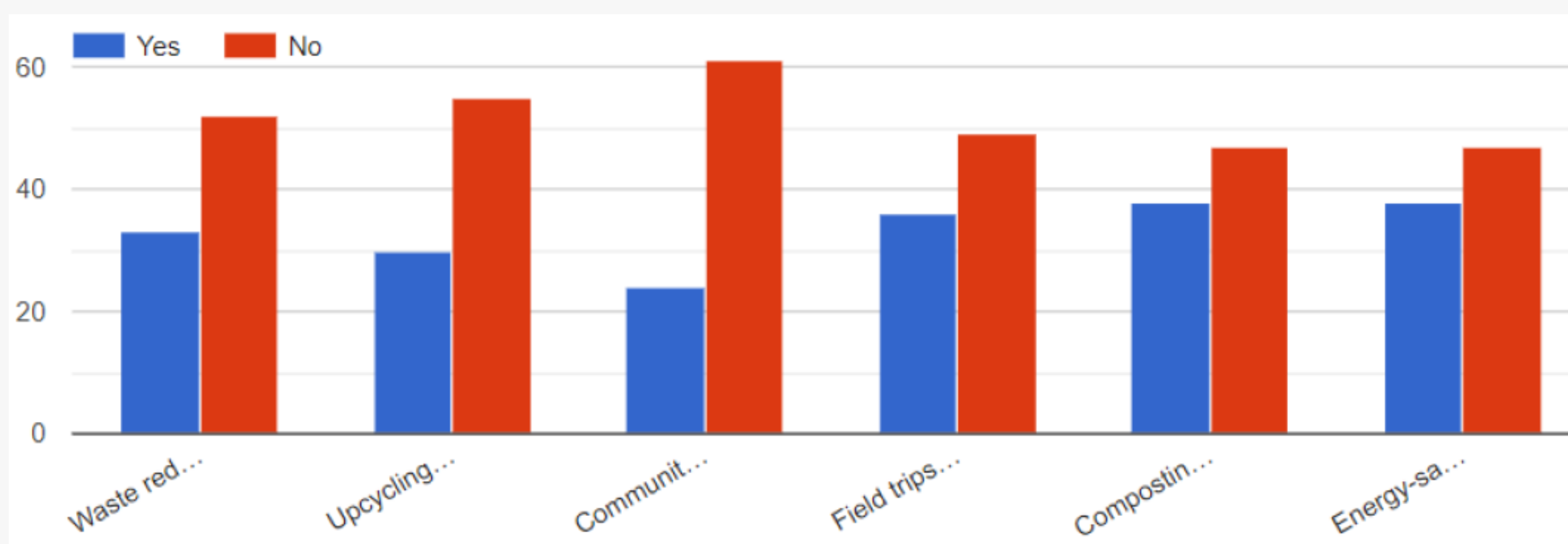


More than a half (54,1%) of the respondents are not taught about circular economy in their institutions which calls for an action in this field.

NEED ANALYSIS REPORT

CE+YOUTH SURVEY

Q 19. Do you learn about circular economy at school/college/university/youth organisation?



The chart shows that the majority of the respondents are not actively involved in environmental projects in their areas.

CONCLUSION

Importance of Teaching Circular Economy to Youth

- **Sustainable Mindset:** Teaching circular economy to youth instills a sustainable mindset early on. This helps them understand the importance of reducing waste and conserving resources, leading to more environmentally conscious habits in their daily lives.
- **Problem-Solving Skills:** Circular economy education encourages critical thinking and problem-solving skills. It teaches youth to find creative solutions to reduce waste, recycle materials, and design products with a longer lifespan.
- **Economic Opportunities:** Understanding circular economy concepts opens up economic opportunities for the youth. They can explore careers in recycling, sustainable design, and waste management, contributing to the growth of a more sustainable and prosperous future.

By educating the youth about circular economy principles, we empower them to become agents of change, fostering a more sustainable and resilient society.

NEED ANALYSIS REPORT

CE+ YOUTH WORKER SURVEY SUMMARY

The Youth Worker Survey section of the needs assessment report highlights the attitudes, practices, and challenges faced by youth workers regarding the integration of Circular Economy, Green Economy, and European Green Deal concepts into their educational practices. Key findings from this section include:

- 1. Demographics:** The majority of youth worker respondents were from Lithuania, Slovakia, and Turkey, with most working in secondary schools, youth organizations, and higher education institutions.
- 2. Interest in Learning:** A significant number of respondents expressed moderate to high interest in learning more about Circular Economy, Green Economy, and the European Green Deal, indicating a recognition of the importance of these concepts.
- 3. Teaching Practices:** A considerable portion of youth workers reported that they do not currently include these concepts in their teaching, especially the European Green Deal, which was the least taught among the three.
- 4. Inclusion in Curriculum:** About half of the respondents mentioned that sustainability issues were part of their curriculum, with various activities like composting and energy conservation being implemented. However, there is still a significant gap in the integration of circular and green economy principles.
- 5. Challenges:** The survey identified several challenges in integrating these concepts, including a lack of resources (funding and staff), inadequate teacher training, difficulty in measuring impact, resistance from teachers and administrators, and limited student participation

NEED ANALYSIS REPORT

CE+YOUTH WORKER SURVEY SUMMARY

6. **Project Work:** Participants reported involvement in various projects related to recycling and circular economy, such as waste reduction challenges and community outreach projects. However, a notable percentage of respondents had not engaged in any such activities.

7. **Integration into Non-Formal Education:** There was uncertainty among respondents about how to integrate these principles into non-formal education, with suggestions including through education, local community activities, and projects.

8. **Observation of Positive Examples:** Many respondents have observed examples of circular and green economy practices in their communities, such as solar panels, electric vehicles, waste sorting, and recycling initiatives.

9. **Importance for Future Generations:** There was strong agreement among participants on the importance of future generations understanding and adopting circular and green economy principles.

10. **Access to Quality Resources:** A significant majority reported difficulty in accessing quality teaching resources related to these concepts, highlighting a need for improved materials and training.

11. **Necessity for In-depth Training:** A substantial percentage of youth workers believe that in-depth training is necessary or absolutely necessary to effectively incorporate these concepts into their teaching.

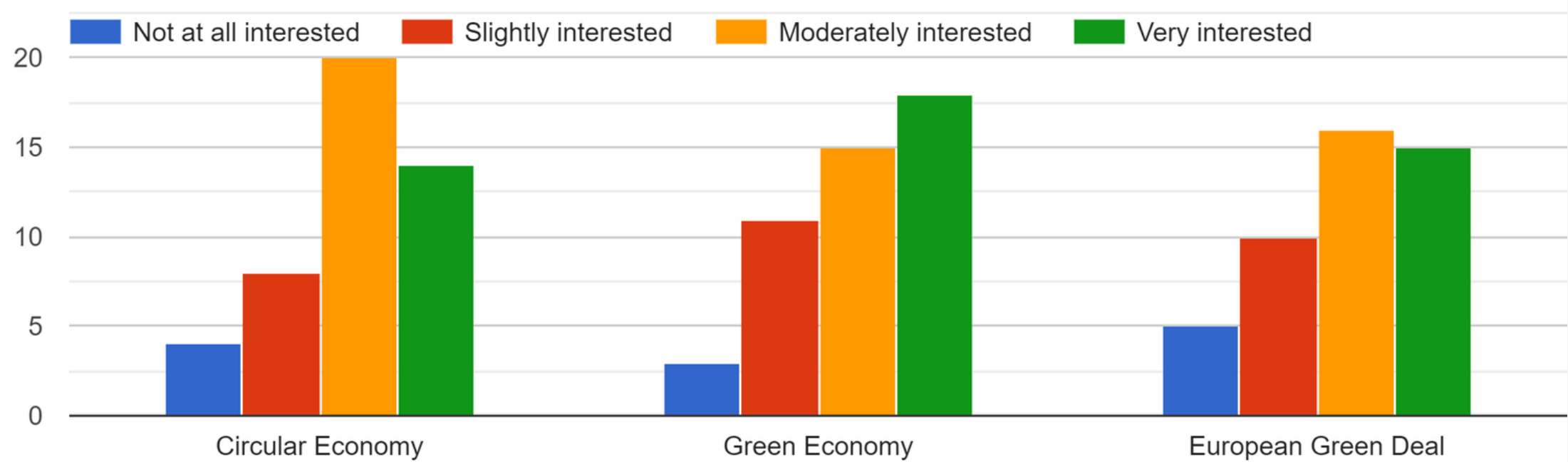
NEED ANALYSIS REPORT

CE+YOUTH WORKER SURVEY

Country of residents - the majority of respondents - youth worker were from Lithuania (38,2%), Slovakia (36,4) and Turkey (23,6) followed by Ireland, Estonia and Belgium.

Most youth workers came from secondary schools (43.6%), youth organizations (30.9%) and higher education institutions (21.8%), followed by tertiary level colleges (16+).

How interested are you in learning more about the following?

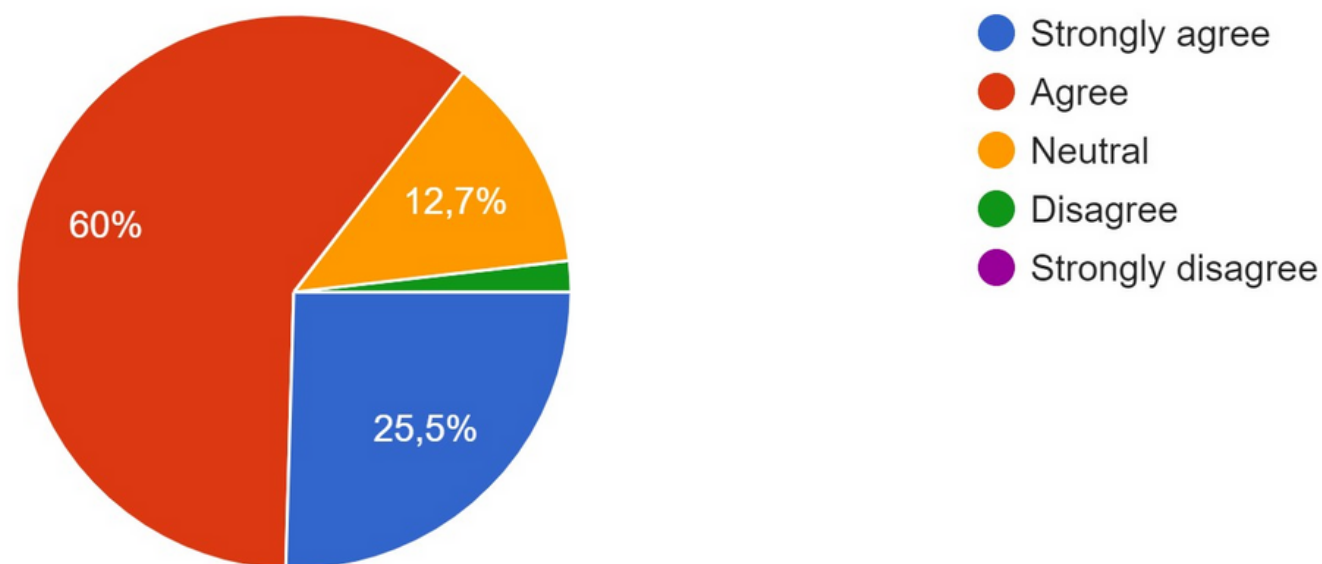


The majority of respondents reported being moderately or very interested in learning more about the Circular Economy, the Green Economy and the European Green Deal. This is important as it highlights the need for survey participants to learn about relevant concepts.

NEED ANALYSIS REPORT

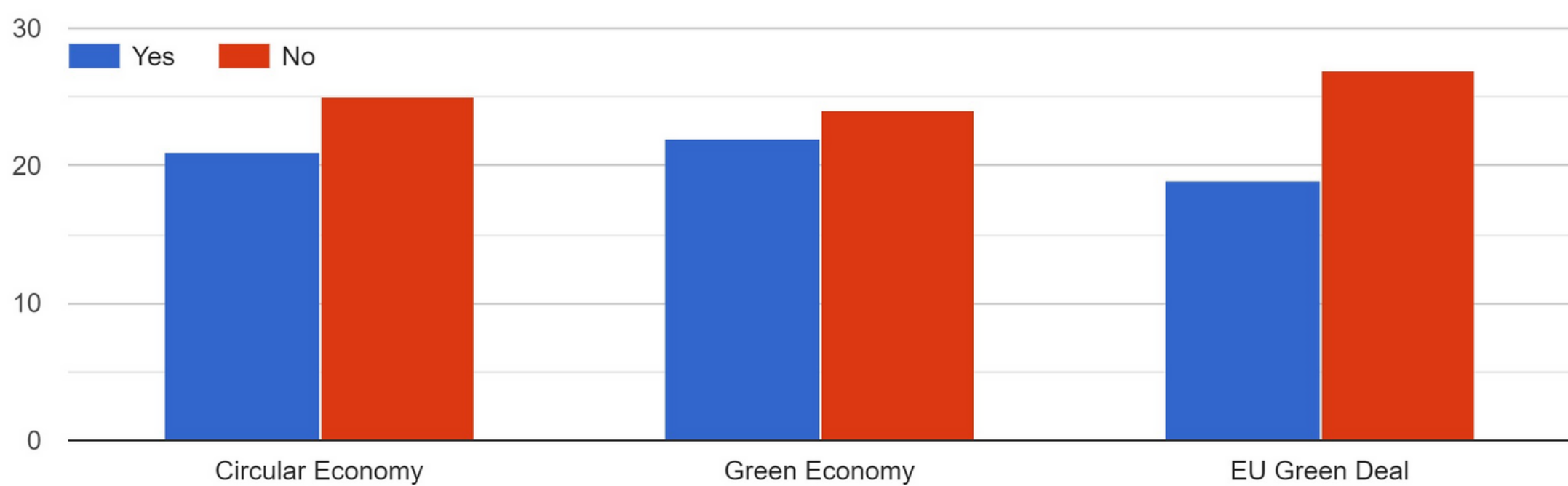
CE+YOUTH WORKER SURVEY

Do you believe that linking the principles of the circular economy with green economy can foster innovation and creativity and provide local solutions to meet societal, environmental, and economic needs?
55 yanıt



The vast majority of participants believe that combining the principles of a circular economy with the green economy can foster innovation and creativity and provide local solutions to meet social, environmental and economic needs.

Have you taught or incorporated any elements of circular / green economy or EU Green Deal into your teaching?

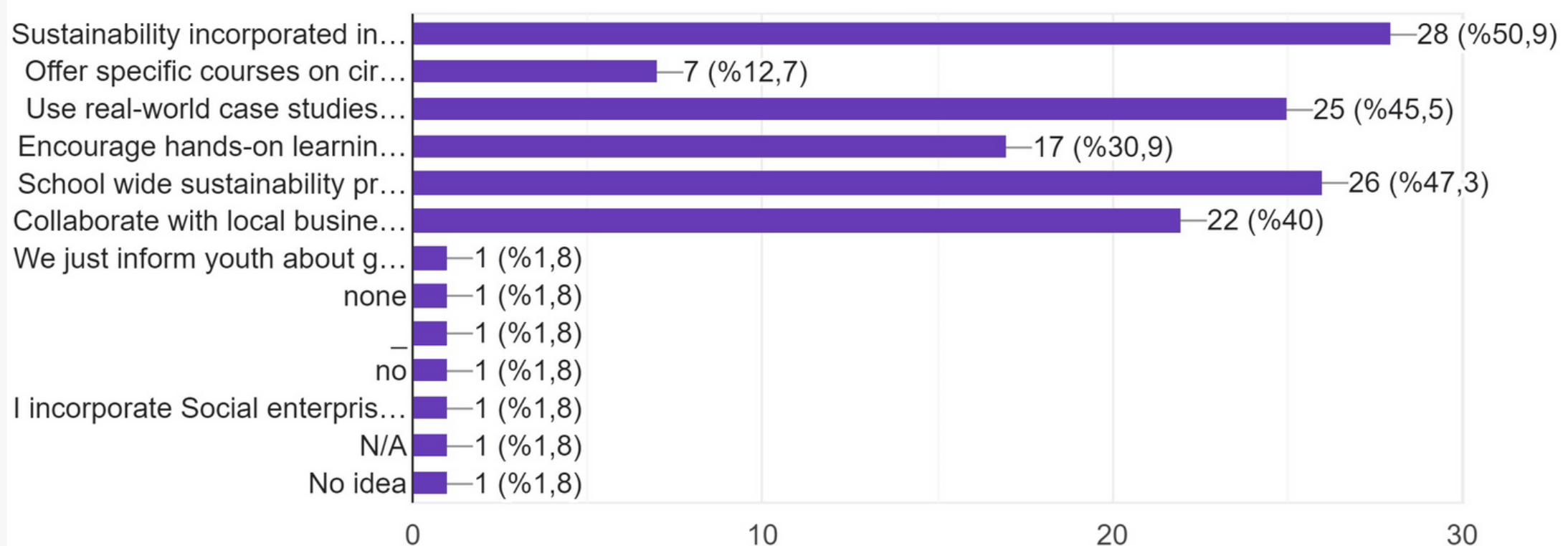


It seems that the majority of the participants do not include the concepts of Circular Economy, Green Economy and European Green Deal in their teaching. The rate of those who do not teach about the European Green Deal is higher than others.

NEED ANALYSIS REPORT

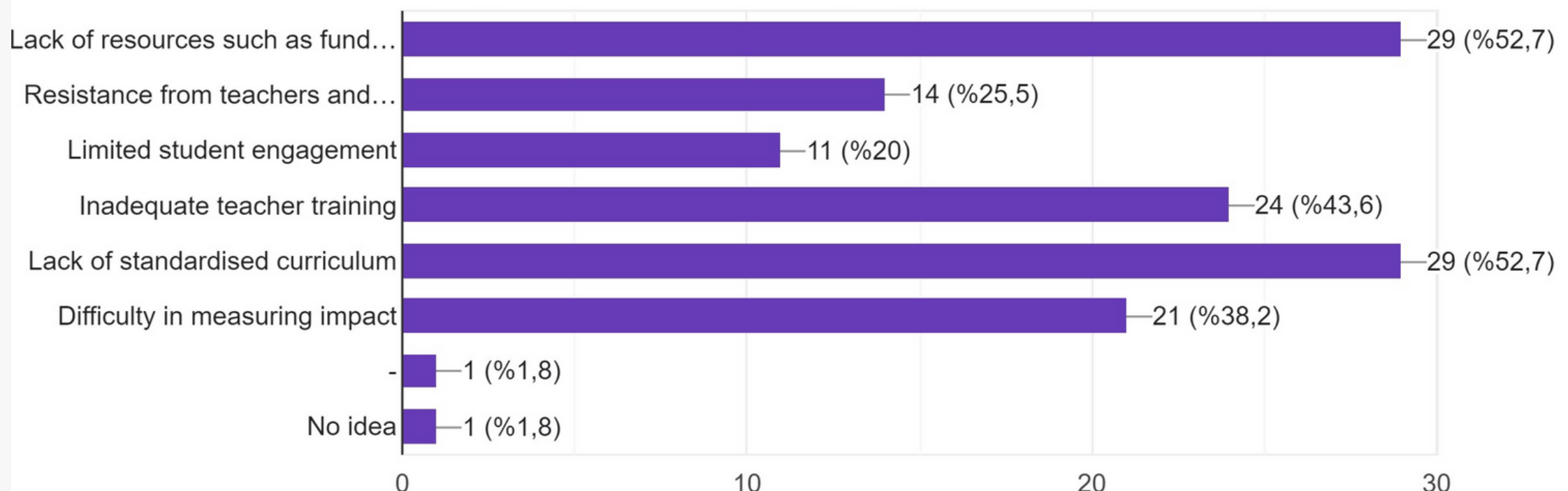
CE+YOUTH WORKER SURVEY

Have you integrated any of the principles of circular and green economy into your teaching? Tick as many as applies



50.9% of the participants stated that sustainability issues were included in the curriculum. 47.3% have implemented school-wide sustainability activities such as composting and energy conservation. 45.5% used circular and green economy concepts and real-world case studies on how to apply them. 40% have collaborated with local businesses on sustainability-focused projects. 30.9% encouraged hands-on learning experience by taking field trips to sustainable businesses and recycling facilities. 17.7% offered specific courses on circular and green economy.

In your opinion, what are the biggest challenges in promoting and integrating circular economy and green economy principles in education? Tick as many as applies

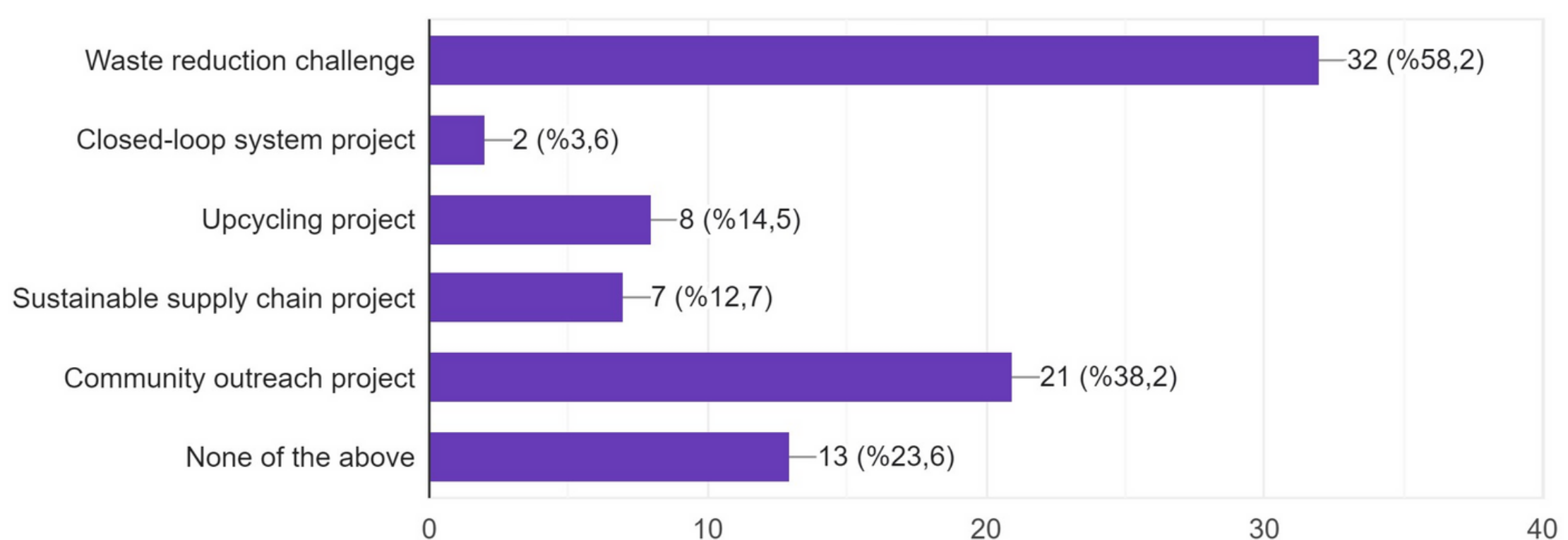


NEED ANALYSIS REPORT

CE+YOUTH WORKER SURVEY

52.7% of respondents cited lack of resources such as funding and staff, and lack of standardized curricula; 43.6% cited inadequate teacher training, 38.2% cited difficulty measuring impact; 25.5% stated the resistance of teachers and administrators; 20% expressed limited student participation.

Have you ever carried out the following projects within your work place? Tick as many as applies.



Participants' project work on recycling and circular economy in their workplaces is as follows: 58.2% waste reduction challenge, 38.2% community outreach project, 14.5% upcycling project, 12.7%. 100% of the companies carried out sustainable supply chain projects and 3.6% of them carried out closed loop system projects. 23.6% of the participants did not engage in any project activity or initiative.

How do you think the principles of circular and green economy, can be integrated into non-formal education?

NEED ANALYSIS REPORT

CE+YOUTH WORKER SURVEY

It's about how to integrate circular and green economy principles into non-formal education; 27% of the participants think that circular economy principles will be integrated into education through education, 14.54% through local community activities and public initiatives, and 5.45% through projects. 14.54% of the participants stated that they had no opinion on this issue. No specific answers were received from the participants about how to integrate it into non-formal education.

Have you seen any positive examples of circular economy and green economy in your community or elsewhere? If so, please describe.

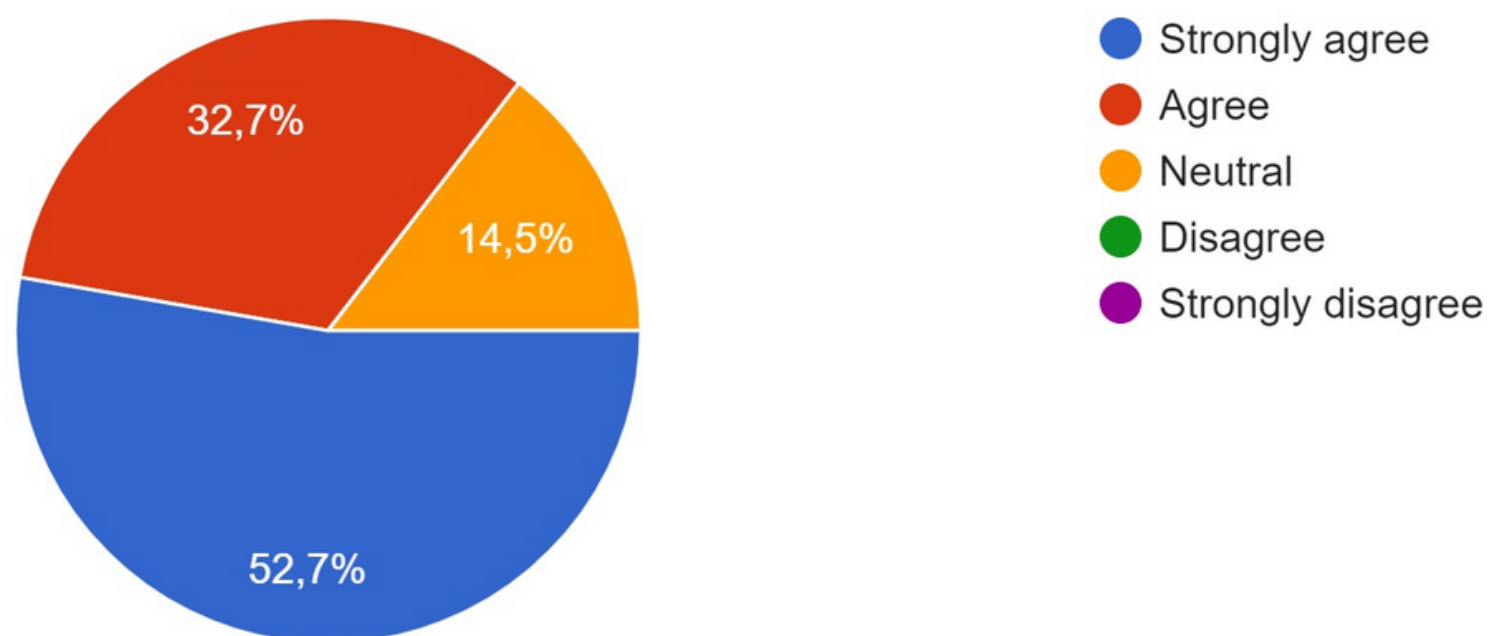
Regarding circular and green economy examples; 63.63 of the participants stated that they had seen examples before, and 27.2% stated that they had not seen any examples. Some of the answers given by the participants are as follows:

- Green economy - solar panels, electric charging points, electric and hybrid busses, solar road trafficwarning signs (speed and works)
Circular economy
- Repair Cafe in Derry, new2U (Derry), p[laces where you can go and give in old toys and rent other peoples, Life Cycles (Derry)
- The principle of sorting waste and animal fringe products. Application of biosafety requirements when working with biological material in all stages. Nature safety.
- Our school joined the Green School project, we sort waste, we had workshops on waste management, with a video from the Technical Services in our city, how they handle waste.
- Yes. garbage sorting; recycled materials that can be used in manufacturing processes instead of or alongside virgin raw materials.
- Using waste oils in fuel production and sending metal, glass, plastic and paper to recycling facilities

NEED ANALYSIS REPORT

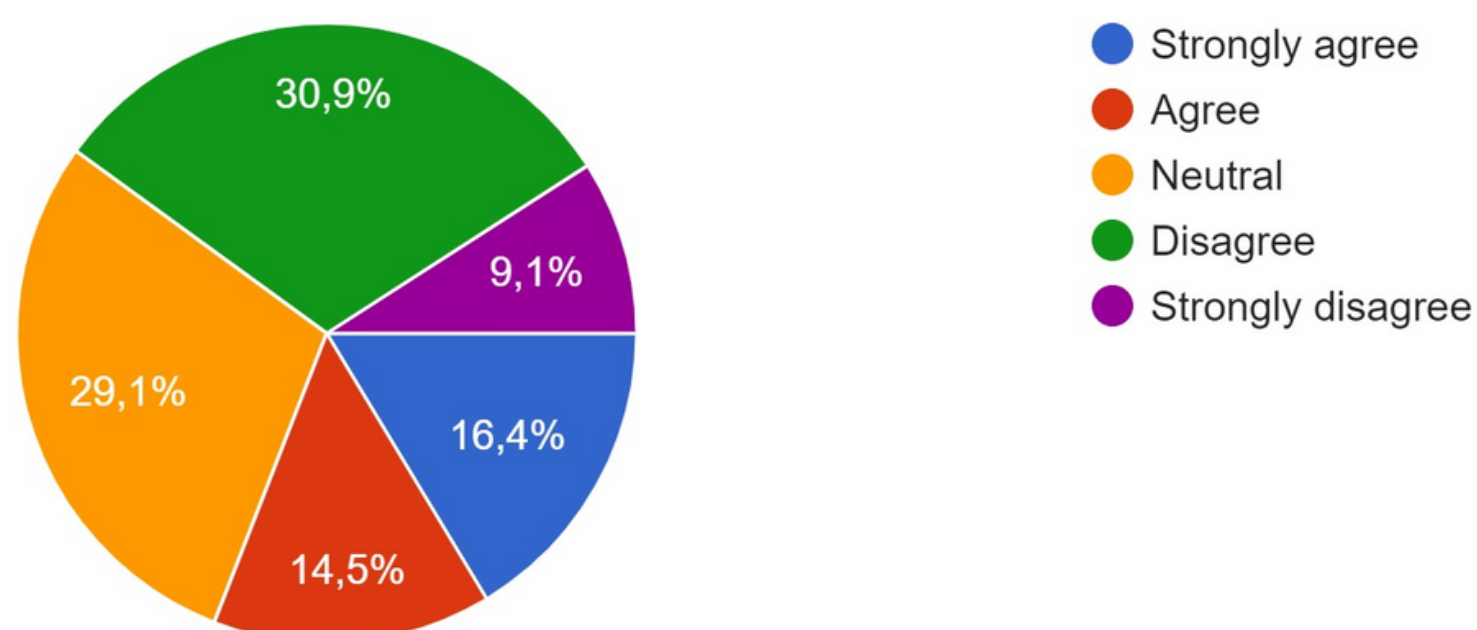
CE+YOUTH WORKER SURVEY

Do you think it is important for future generations to understand and embrace circular economy and green economy principles?



Regarding the importance for future generations to understand and adopt circular and green economy principles; 52.7% of the participants answered strongly agree, 32.7% agreed and 14.5% neutral.

Do you believe that the concepts of the Green Deal can only be incorporated into biology, science and agricultural subjects?

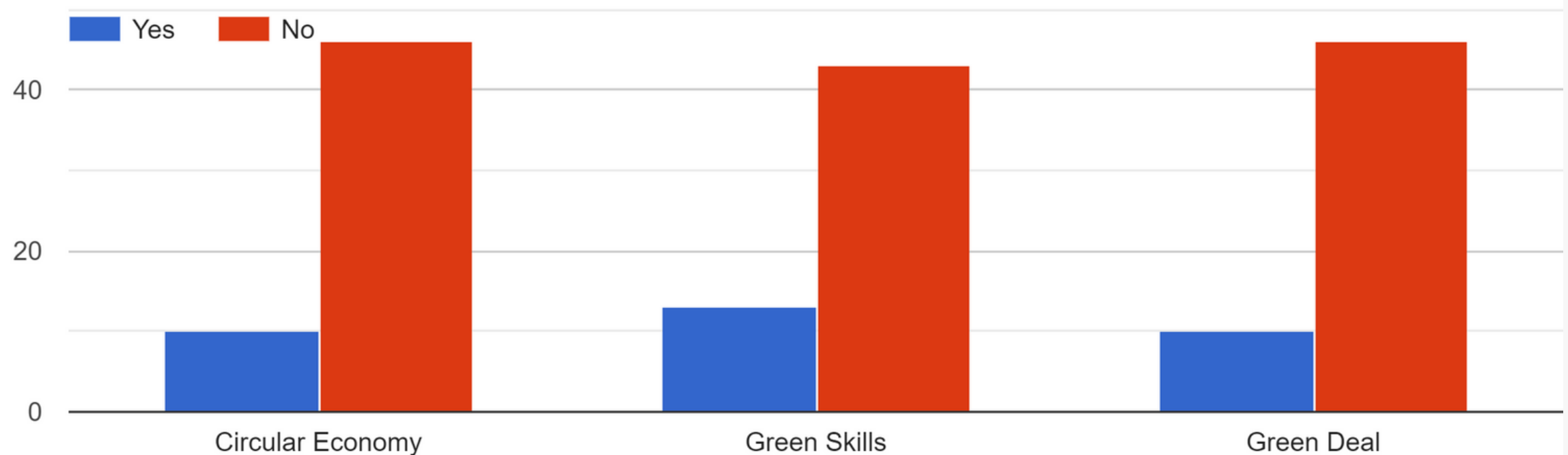


It is about the inclusion of the Green Deal concept not only in biology, science and agriculture; 30.9% of the participants disagree, 29.1% are neutral, 16.4% strongly agree, 14.5% agree and 9.1% strongly disagree.

NEED ANALYSIS REPORT

CE+YOUTH WORKER SURVEY

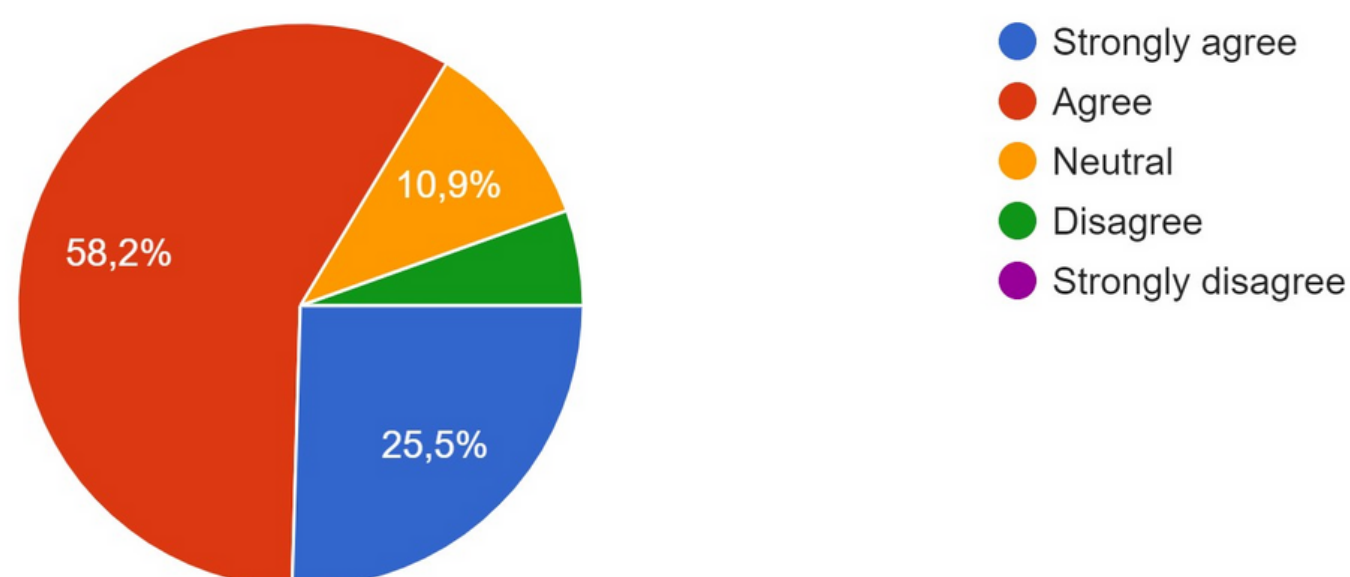
Do you find it easy to source high quality teaching materials regarding circular and green economy and the Green Deal?



In general, it is seen that quality teaching resources are not available. 82% of the participants stated that they could not easily access quality teaching resources regarding the circular economy and the Green Deal, and 18% stated that they could. 76.75% of the participants stated that they could not access quality teaching resources regarding Green Skills, and 23.25% stated that they could.

Participants who can access the resources; 10.8% stated that they reached through the internet, 7.14% through projects, 1.78% through local activities, official institutions and environmental organizations.

Do you believe that it would be essential to receive an in depth training on the topics of green and circular economy and the Green Deal, so that you can integrate these concepts into your teaching effectively?

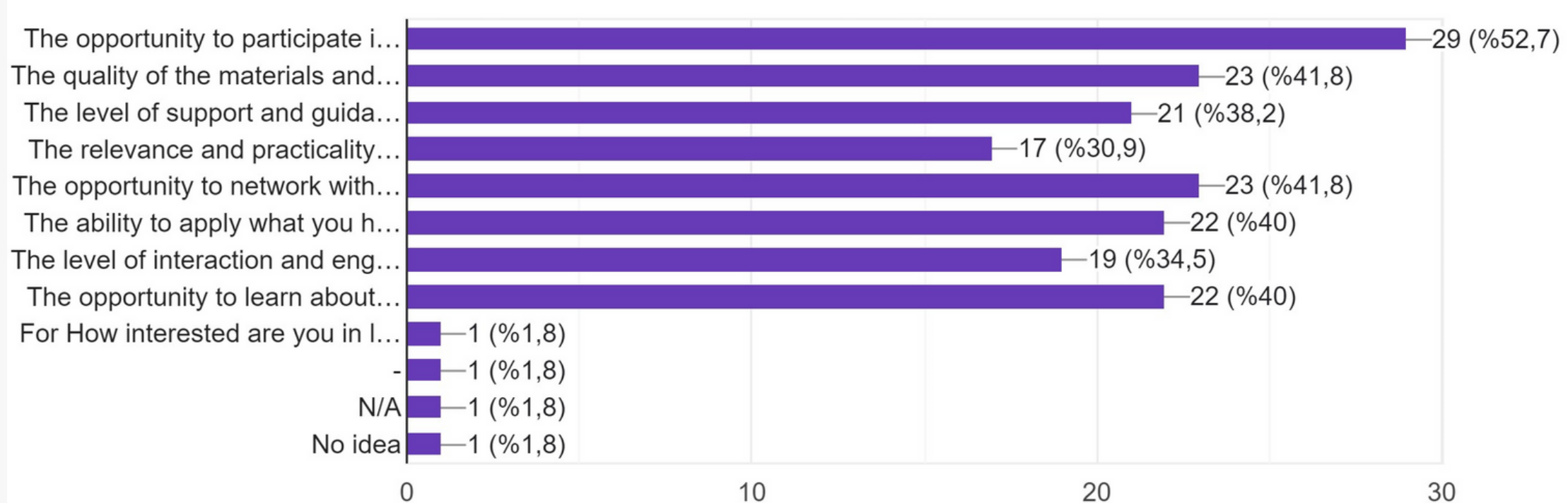


NEED ANALYSIS REPORT

CE+YOUTH WORKER SURVEY

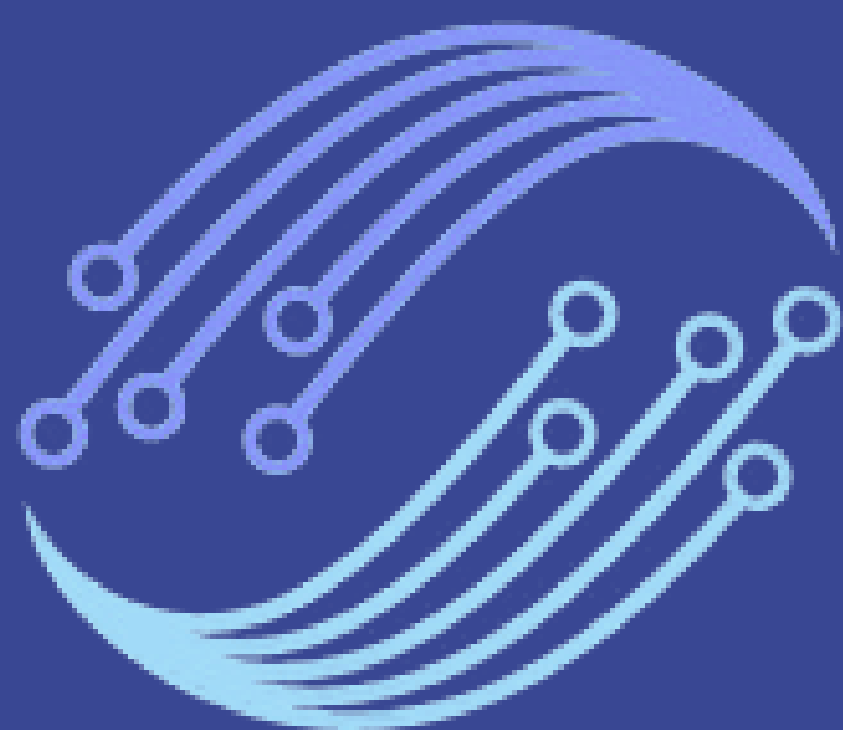
In order to effectively incorporate the concepts of green and circular economy and the Green Deal into teaching, the youth workers who participated in the survey; 58.2% believe that in-depth training is necessary, and 25.5% believe that it is absolutely necessary. While 10.9% of the participants were neutral, 5.5% did not believe that in-depth training was necessary.

What would be the most important factors of your own training regarding green and circular economy and the Green Deal? Tick as many as applies.



Youth workers reported participating in hands-on learning experiences by 52.7%; quality of materials and resources and opportunities to network with other professionals 41.8%; 40% of the ability to apply what has been learned and the opportunity to learn about innovative learning methods; 38.2% of the level of support and guidance of instructors and mentors; 34.5% of the interaction and participation level of instructors and mentors; 30.9% of them stated that the relevance and relevance of the content covered was important for their education.

The needs analysis report developed as supporting material for the handbook was prepared to determine the needs of businesses, youth and youth workers regarding circular economy and green skills in the project "GAMIFICATION DIGITALIZATION AND PRACTICAL TOOLS FOR DEVELOPING CIRCULAR ECONOMY SKILLS" numbered 2022-1-EE01-KA220-YOU-000090946.



**GAMIFICATION,
DIGITALIZATION AND
PRACTICAL TOOLS FOR
DEVELOPING
CIRCULAR ECONOMY SKILLS**

The European Commission support for the production of this publication does not constitute an endorsement of the content which reflects the views only of the authors, and the European Commission cannot be held responsible for any use which may be made of the information contained therein.



GAMIFICATION,
DIGITALIZATION AND
PRACTICAL TOOLS FOR
DEVELOPING
CIRCULAR ECONOMY SKILLS



Co-funded by
the European Union



- © EFCC Estonian Fieldbus Competency Centre OÜ
- © Karavan İnsan Kaynaklarını Geliştirme ve Gençlik Derneği (TR)
- © VSI INOVACIJU BIURAS
- © EDU 4 U
- © EUROACTIVA
- © AISR

The European Commission support for the production of this publication does not constitute an endorsement of the content which reflects the views only of the authors, and the European Commission cannot be held responsible for any use which may be made of the information contained therein.