

Results of the survey on market and research innovation needs

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Executive Summary

This deliverable outlines the results of a survey conducted as part of the WBC-INCO.NET project initiative to support innovation capacities in the WB region. The survey aimed to pinpoint both present and likely future research and market needs, as well as identify possibilities for collaboration in the region.

The survey was carried out in two rounds, the second building on the results of the first. Two questionnaires were jointly designed by JRC-IPTS and Ivo Pilar. These addressed consecutively market and research stakeholders.

Questionnaires aimed to identify research and innovation needs both of today and in the future in order to support the design of a joint action plan for the region towards 2030.

A dedicated workshop shall take place in the near future with both industry and research regional stakeholders. The aim is to refine and complement the findings presented in this report based upon a mutual appreciation of different viewpoints and expectations.

The identified potential needs for the region to be further considered in order to trigger joint innovation are related to:

- Investments in knowledge and technology sharing, expert consultations and collaborative research
- Decrease in regulation
- Strengthen human resources capacities
- Improve infrastructures (including ICT)
- Build awareness on innovation benefits
- Foster mobility
- Enhance communication between different stakeholders

These seems to be all critical to increase mutual understanding, support the identification of common interests, build mutual appreciation and achieve at a joint agenda. Finally, potential research topics to be further considered in the region to trigger joint innovation are:

- Environment surveillance through ICTs
- Automation of information management systems through artificial intelligence and agent based software
- New approaches and frameworks to enhance FDI and cross-regional investments in the region

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Finally, thanks to all project partners for disseminating the survey and to the industry and research regional stakeholders who have taken the time to provide their inputs.

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Abbreviations

| WB | Western Balkan |
|----------|---|
| WBC | Western Balkan Countries |
| EU | European Union |
| FP7 | Framework Programme 7 |
| JRC-IPTS | Joint Research Centre Institute for Prospective Technological Studies |
| MS | Microsoft |
| ICT | Information and Communication Technologies |
| RI | Research and Innovation |
| FDI | Foreign Direct Investment |
| SRA | Strategic Research Agenda |
| SMART | Specific, measurable, achievable, realistic and time-based |

1 Introduction

This report presents the results of a survey conducted as part of the WBC-INCO.NET project initiative to support innovation capacities in the WB region. The survey aimed to pinpoint both present and likely future research and market needs, as well as identify possibilities for collaboration in the region.

The findings shall support other activities that together will provide a clear overview of the region's current situation and future needs with regards to innovation. These activities together should then help to prepare an Action Plan for further WBC cooperation in innovation and to establish closer cooperation between research and innovation stakeholders (i.e. public funded researchers and innovative companies). This should include competence from the industrial sectors and the fields of innovation management and market entry, as well as to explore EU programmes other than FP7 and to support programmes of other institutions which aim to increase innovation in the WBC.

2 Methodology

Two questionnaires were jointly designed by JRC-IPTS and Ivo Pilar. These addressed i) market and ii) research stakeholders, including selected firms and entrepreneurial researchers. Questionnaires can be respectively found in Appendixes 1 and 2. These aimed to identify research and innovation needs both of today and in the future in order to support the design of a joint action plan towards 2030.

The methodology employed consists of five main phases:

- 1. Initially a literature review on innovation was undertaken to identify important aspects to take into account when designing the questionnaires. The selected aspects were:
 - i) Importance of different stakeholders in the innovation process;
 - ii) Specific actions that can improve regional cooperation as well as innovation;
 - iii) Factors necessary to stimulate regional cooperation divided in human resources, entrepreneurship infrastructure, expert assistance and cooperation between industry and research, fiscal and financial obstacles, and both national and local regulations;
 - iv) Likely outcomes of enhanced regional cooperation.
- 2. The first questionnaire was submitted to selected firms in the WB region.

- **3.** Building on the results of the first questionnaire and also aiming to compare results, a second questionnaire was sent to research stakeholders in the region¹.
- **4.** A statistical analysis² was conducted for both questionnaires, and results crossed with one another.
- 5. Results were circulated within the consortia for final refinements.

It must be outlined that findings point only to potential needs in the region which should be discussed with both industry and research regional stakeholders in order to be refined and complemented. This shall take place in a dedicated workshop in the months to come and results will then be complemented with further analysis.

3 Industry Questionnaire

Initially a database of contacts was devised by partners in the consortia, mainly lvo Pilar. However, all partners with company contacts in the region were requested to forward the questionnaire, in which a link was also posted in the projects' and a few partners' websites, as well as newsletters.

Likely respondents had about two weeks to fill in the questionnaire that was comprised of fifteen questions and took around fifteen minutes to be completed. Due to a low response rate a decision to extend the questionnaire for another two weeks was taken. Moreover, all partners that had contacts in the region decided also to send the questionnaire in MS Word format in order to try to get more responses through a personal approach.

Nevertheless, by the end of the four weeks period there were only twenty responses to the questionnaire. It is difficult to say the reason(s) for such a low response rate beyond speculation such as a regional business culture of secrecy or a culture of face-to-face interaction rather than by other means even when contact is done personally, etc.

In spite of such a low response, a few analyses can be made out of the results obtained, according to overall results outlined in Appendix 3.

Questions 1 and 2: participants come mainly from Croatia (35%) and from the ICT sector (45%).

The analysis of results to question 3 shows that the number of employees, companies can be roughly divided into three groups, according to Table 1 below.

¹ The first questionnaire was designed between February and March 2011, was tested in March 2011, and was launched in the beginning of April 2011. Results were analysed towards the end of April 2011 and such analysis was used to design the second questionnaire, which was launched in the beginning of June 2011 and was open for one month. Final results were analysed in July 2011 when the first draft of the report became available for refinements, which took place until September 2011.

² Using SPSS and STATA.

| Number of Employees ³ | |
|----------------------------------|---|
| 1 to 10 | 7 |
| 11 to 100 | 8 |
| 101 to 200 | 2 |

Table 1: Table presenting number of employees per participating firm

Results to question 3 also show that the share of research personnel in total number of employees is very high in average – 21.65% (Table 2). This becomes less surprising if we bear in mind that almost half of companies in the sample are from ICT sector. Only two companies do not fit this category– both the largest by the number of employees: one from energy sector with 174 employees where 75 persons are involved in research and the other from environment sector with 109 employees but none one dealing with research.

| Share of Research Personnel ⁴ | | | |
|--|----|---|------|
| A | 10 | J | 33 |
| В | 10 | К | 75 |
| С | 5 | L | 19 |
| D | 43 | М | 35 |
| E | 10 | Ν | 53 |
| F | 14 | 0 | 0 |
| G | 7 | Р | 20 |
| Н | 6 | Q | 14 |
| I | 14 | | |
| Average | | 2 | 1,65 |

Table 2: Table presenting share of research personnel per participating firm

By looking at the results to question 4, surprisingly, the expenditure of participating firms in Research and Innovation (RI) are around the EU target of 3% with only 25% of companies outlining expenditure between 0 and 1%.

The analysis of results to question 5 shows that on market orientation, almost all of the companies' sales are to the customers from their own countries with just one company from Serbia giving business services in development being an exception by selling 85% of their services to the customers outside the region. It would seem that

³ Please note that only 17 participants answered this question.

⁴ Same as footnote 3.

companies are dominantly oriented towards domestic market, but unfortunately data is both inconclusive and allows no generalization.

In question 6, there is an overall average of 2,71 importance value for all given stakeholders on a 1-4 scale (ranging from 1 or no importance to 4 or high importance). Hence, we can say that companies regard most factors / stakeholders in their environment as rather important for their innovation capacity pointing out Employees in their own enterprise or enterprise group and professional and industrial associations as probably the most important ones. Table 3 below shows average values meanwhile individual values appear next.

| Stakeholders' Importance for Firms' Innovation Capacity | | | |
|---|------|--|------|
| Employees in your enterprise or enterprise group | 3 | Institutions such as Chamber of Commerce & Development Agencies | 2,65 |
| Professional and industrial associations | 2,94 | Banks | 2,65 |
| Universities and colleges | 2,88 | Research institutes | 2,59 |
| Conferences, trade fairs, exhibitions | 2,88 | Business incubators or entrepreneurship centres financed by the government | 2,53 |
| International suppliers and customers outside the WB region | 2,82 | Cluster networks | 2,53 |
| Consultants and professional service firms | 2,76 | Suppliers and customers from the WBC region | 2,47 |
| Suppliers or customers in your country | 2,71 | Venture capital firms/angel investors | 2,47 |
| TOTAL | | 2,7057 | |

Table 3: Table presenting average of stakeholders' importance for innovation capacity

In question 7 on actions that can improve cooperation between business and research, companies seem to understand the significance of industry – university cooperation and so when asked about possible actions they regard them as very important – total average of 3,245 on a 1-4 scale (ranging from 1 or no importance to 4 or high importance). Three factors stand out seen as particularly important: more funding for collaborative research between universities and businesses, more funding for knowledge/technology transfer activities and expert consultations and greater understanding by researchers of the needs of business companies and industry.

Table 4 below shows average values meanwhile individual values can be seen in Appendix 3.

| Actions that Improve Cooperation between Business and Researc | h |
|--|-------|
| More funding for collaborative research between universities and businesses | 3,6 |
| More funding for knowledge/technology transfer activities and expert consultations | 3,5 |
| Greater understanding by researchers of the needs of business companies and industry | 3,4 |
| Greater understanding by researchers of intellectual property rights (IPR) and its implications | 3,3 |
| Development of local partnership/inclusion of universities in clusters or business associations | 3,3 |
| Easy access to professional technology transfer officers (or similar staff) | 3,2 |
| Organization of specialized training courses by universities for the needs of industrial sectors and companies | 3,1 |
| Better mobility (exchange) of researchers between universities and industry | 3,1 |
| Financial incentives for university staff which cooperate with companies | 3,1 |
| Establishing of university incubators or science parks | 3,1 |
| Creation of specialised large-scale programmes for cooperation of companies and research institutions with a wider impact on economic and technological development (e.g. technology platforms, joint technological/industrial activities) | 3 |
| Introduction of regular business/technical advising services at universities for the needs of businesses | 2,9 |
| TOTAL | 3,245 |

Table 4: Table presenting average of actions that can improve cooperation between business and research

In question 8, factors which are important for improving cooperation between firms and the research sector were divided into five groups: Human resources, Entrepreneurship infrastructure, Expert assistance and cooperation with universities, Fiscal and financial obstacles, State and local administrative regulations. All groups of factors were estimated as rather important. Table 5 below shows average values meanwhile individual values can be seen in Appendix 3.

| Factors that Improve Regional Cooperation | |
|---|--------|
| State and Local Administrative Regulations | 3,5 |
| Fiscal and Financial Obstacles | 3,4667 |
| Expert Assistance and Cooperation with Universities | 3,36 |
| Entrepreneurship Infrastructure | 3,057 |
| Human Resources | 3,038 |

Innovation Support

Table 5: Table presenting average of factors that can improve regional cooperation

In question 9, out of different possible outcomes of regional cooperation that participants were asked about, respondents value or would benefit the most the following ones: Access to new markets, The availability of the regional financial initiatives (e.g. Regional Investments Bank, e.g. Western Balkan Investments Fund), Lower costs of doing business – increase of the firm's efficiency (e.g. the cost of real estate, utilities, lower labour costs, etc.), Consistent legal framework aimed at facilitating foreign direct investments in the WB region. Table 6 below shows average values (1-4, being 1 not important and 4 of high importance), and in Appendix 3 are the responses per possible outcome.

| Outcomes from Regional Cooperation | |
|---|-------|
| Access to new markets | 3,5 |
| The availability of the regional financial initiatives (e.g. Regional Investments Bank, e.g. Western Balkan Investments Fund) | 3,5 |
| Lower costs of doing business - increase of the firm's efficiency (e.g. the cost of real estate, utilities, lower labour costs, etc.) | 3,5 |
| Consistent legal framework aimed at facilitating foreign direct investments in the WB region | 3,4 |
| The access to colleges/universities available in the region for innovation development | 3,1 |
| Mobility of skilled workers in the region | 3,1 |
| Mobility of engineers and researchers in the region | 3,1 |
| Mobility of managers in the region | 3,1 |
| TOTAL | 3,288 |

 Table 6: Table presenting average of outcomes from regional cooperation

In Question 10, regarding public support for innovations (in the last three years), the large majority of respondents claims it received none. Only two respondents answered positively naming the following names for possible support: 3TreCon.spa, Almer.spa, RAZUM and BICRO. Data on this topic remains insufficient and allows for no further elaboration.

In question 11, although the difference between ranks is rather small, it is possible to create a common rank of importance of proposed actions as shown in the Table 7 below.

| Rank of Actions that Improve Firm's Innovation Perform | mance |
|---|--------|
| Importance of regional innovation actions for improving the innovation | Rank |
| performance of companies | (1-12) |
| Establishing regional venture capital fund | 1 |
| Creating a joint financing programme for innovation development at the regional level | 2 |
| Developing regional initiatives for large infrastructural projects | 3 |
| Common large scale technology programmes (e.g. technology platforms, joint technological/industrial activities) | 4 |
| Joint regional approach towards international institutions and funding programmes (e.g World Bank) and EU programs | 5 |
| Harmonisation and opening of the government's procurements markets | 6 |
| Strengthening regional innovation clusters in selected sectors | 7 |
| Common apprentice (trainee) programmes of young experts | 8 |
| Common educational programmes for technical skills, innovation management, etc. | 9 |
| Common programmes for mobility of personnel in the region between universities and business to establish cooperation between science and industry | 10&11 |
| Consistent legal framework aimed at facilitating foreign direct investments in the WB region | 10&11 |
| A progressive liberalisation and mutual opening of the service market within the WB region | 12 |

Table 7: Table presenting rank of actions that improve firm's innovation performance

Questions 12 to 15 asked about respondents' innovation ideas as well as their opinion on actions and policies necessary to realise such innovation ideas. Table 8 below includes all answers by citation.

| Innovation | Ideas and Related Necessary Act | ions and Polici | es |
|--|---|--|---|
| 12. From the perspective of your organisation and/or your area of work please name one innovation idea that could contribute to an innovative region in the Western Balkans by the year 2030: | 13. Please describe this innovation idea: | 14. Please outline what research and skills should be developed to enable this innovation idea to flourish: | 15. Please outline what policies should be in place to ensure this innovation idea is fully mature by 2030: |
| eNature | Using the power of Internet, communications, surveillance and controlling to serve the nature. | | |
| automation of information management systems | The process consists in developing an information management system which uses software agents in order to think rapidly in decision making processes. The system performs more services and functionalities as price display changes, new order messages, sales information, automation of transportation through robotic vehicles, ect. | artificial intelligence, agent based software, software analyst, designer, programmer, economist | |
| New way of selling properties true social networks and on-line data mining | The main benefit is legalisation of whole market / real estate / especially sales and rent part (commercial and residential) | We are in process of developing | |
| Make an agreement for trade of IT services & product within WB | | | |
| | creativity | | |

| Pringing powerful and | It is not some innovation it is most | Miniatry of | Covernment |
|---|--|--|---|
| Bringing powerful and middle power companies to invest in our companies to improve our offer of products, giving us new distributions, franchises etc. Making loan more accessible. | It is not some innovation it is most important task for us. Without loan - money, new investors - angels or franchising companies we can not even work properly here or meet new customers demands and wishes. Innovation in tourism: more different options from cal, peace option for offer: place, trips, houses to extreme options: extreme sports, adrenaline sports and trips. And above all more investment in luxury tourism; yachting, brand hotels, improving knowledge of workers- languages: English for the first place, etc. Making easily top managers to exchange not only in region than in other European countries as well. | Ministry of economies must take part an active steps to bring and make easily foreign investors to invest in our country: donating projects to agriculture, project for tourism, small productivity etc. | Government should make and ensure policies to make this area more attractive on all possible ways. |

 Table 8: Table presenting innovation ideas and related necessary actions and policies

 for their realisation

Through the above inputs to questions 12 to 15 it was possible to draw a few ideas stemming from industry to check whether research stakeholders in the region would have an interest in, as well as with whom they could collaborate in undertaking such research. These research topics are:

- Environment surveillance through ICT.
- Automation of information management systems through artificial intelligence and agent based software.
- Selling of goods and services through social networks and on-line data mining.
- Legal research to reach an agreement for trade of ICT services and products within the Western Balkans.
- Research on new approaches and frameworks to enhance FDI and cross-regional investments in the region.

4 Questionnaire targeted at research stakeholders

The questionnaire addressing the WB research community had a much higher response rate. This might have happened possibly because the questionnaire was shortened to make it easier to understand and to be completed faster. On the speculative side, there might exist also a different culture between entrepreneurs and researchers in the region, being the latter more inclined to more openness and collaboration. If this is the case, constructing spaces for these communities to share their views and interests, as it is planned in a second step following up the application of these questionnaires, would be highly beneficial for the region.

General results are shown in Appendix 4, and a cross-cutting analysis⁵ is made by country below.

The cross-cutting analysis provides an overview of what either individual countries or the whole region perceive as relevant to trigger innovation. This is compared to the analysis undertaken above for the WBC region as well as with the results of the industry questionnaire, which highlights potential needs in the region. Later on, these should be discussed in dedicated workshops with industry and research regional stakeholders as well as research funding bodies and policy makers in order to be refined and complemented. The final result shall then provide support to the definition of an Action Plan for the WBC with regards to innovation needs and to establish closer cooperation between research and innovation stakeholders.

⁵ Such analysis will present the percentage of respondents that have considered a certain action or aspect of high relevance, medium relevance, little relevance, or of no relevance. Percentages will be shown only to the criteria most voted. In a few cases, when no consensus is achieved, percentages for the second most voted criteria will be also shown.

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Question 4: According to the literature the cooperation of companies and universities is crucial for innovations. Please, estimate the importance of the following actions for improving cooperation between the companies in your country and research sector.

| | Cooperatio | on bet | ween | busin | ess ar | nd res | earch | sector | r per c | countr | у | | | | |
|--|--------------------------------|---------|-------------------------|---------|------------------|------------|--------|---------------|----------------|-------------------------|---------|------------------|------------|--------|-------|
| | Importance | | | Actio | ns Toda | ay (%) | | | | | Action | ns in 20 | 930 (%) | | |
| Actions for improving cooperation between business and research in your country | High Medium Little No | Albania | Bosnia & Herzegovina | Croatia | FYR Macedonia | Montenegro | Serbia | TOTAL | Albania | Bosnia & Herzegovina | Croatia | FYR Macedonia | Montenegro | Serbia | TOTAL |
| Introduction of regular business/technical advising services at universities for the needs of businesses | High Importance | 87.50 | 66.67 | 40 | 54.55 | 50 | 55 | 55.74 | 66.67 | 71.43 | 72.73 | 70 | 100 | 68.42 | 70 |
| Organization of specialized training courses by universities for the needs of industrial sectors and companies | High Importance | 63.64 | 66.67 | 30 | 63.64 | 50 | 45.45 | 51.52 | 71.43 | 85.71 | 63.64 | 55.56 | 50 | 61.90 | 64.41 |
| More funding for knowledge/technology transfer activities and expert consultations | High Importance | 80 | 66.67 | 50 | 72.73 | 75 | 45.45 | 61.54 | 100 | 83.33 | 87.50 | 75 | 0 | 71.43 | 82.86 |
| More funding for collaborative research between universities and businesses | High Importance | 66.67 | 100 | 100 | 100 | 33.33 | 66.67 | 73.91 | 33.33 | 100 | 100 | 100 | 66.67 | 83.33 | 81.82 |
| Easy access to professional technology transfer officers (or similar staff) | High Importance | 44.44 | 33.33 | 33.33 | 63.64 | 50 | 19.05 | 35.48 | 50 | 57.14 | 70 | 70 | 50 | 36.84 | 51.72 |
| Greater understanding by researchers of the needs of business companies and industry | High Importance | 75 | 80 | 20 | 63.64 | 50 | 35 | 46.6 7 | 55.56 | 71.43 | 50 | 45.45 | 50 | 47.37 | 51.67 |
| Better mobility (exchange) of | High | 70 | 66.67 | 33.33 | 54.55 | 50 | 42.86 | 49.21 | 50 | 57.14 | 63.64 | 63.64 | 100 | 57.89 | 60 |

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| researchers between universities and industry | Importance | | | | | | | | | | | | | | |
|--|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Greater understanding by researchers of intellectual property rights (IPR) and its implications | High Importance | 66.67 | 40 | 40 | 50 | 33.33 | 33.33 | 41.67 | 40 | 42.86 | 55.56 | 50 | 33.33 | 55 | 47.54 |
| Financial incentives for university | - High Importance | 50 | 50 | 44.44 | 45.45 | 66.67 | 42.86 | 45 | 42.86 | 42.86 | 70 | 40 | 0 | 42.11 | 43.10 |
| staff which cooperate with companies | - Medium Importance | | | | | | | | 57.14 | 57.14 | 10 | 50 | 66.67 | 47.37 | 44.83 |
| Establishing of university incubators | - High Importance | 42.86 | 40 | 40 | 45.45 | 33.33 | 38.10 | 38.98 | 33.33 | 50 | 54.55 | 70 | 0 | 47.37 | 48.33 |
| or science parks | - Medium Importance | 42.86 | 40 | 40 | 27.27 | 33.33 | 38.10 | 37.29 | 55.56 | 50 | 36.36 | 30 | 66.67 | 42.11 | 41.67 |
| Development of local partnership/inclusion of universities in clusters or business associations | High Importance | 55.56 | 60 | 22.22 | 63.64 | 33.33 | 38.10 | 43.33 | 50 | 50 | 54.55 | 50 | 33.33 | 50 | 48.33 |
| Creation of specialised large-scale programmes for cooperation of companies and research institutions with a wider impact on economic and technological development (e.g. technology platforms, joint technological/industrial activities) | High Importance | 85.71 | 33.33 | 40 | 62.50 | 0 | 40 | 46.43 | 60 | 42.86 | 54.55 | 57.14 | 33.33 | 52.63 | 53.70 |

 Table 9: Table presenting percentages of how respondents' value actions with regards to enabling a better cooperation between business and research sector per country, both today and in 2030

The above analysis (Table 9) show that funding as well as consultations and dialogue between stakeholders in the region seems to be perceived as the most important action for improving cooperation between business and research in the region, both presently and in the future. This is highlighted in the actions: i) More funding for knowledge/technology transfer activities and expert consultations (61.54% think this is critical today and even more so in the future 82.86%) and ii) More funding for collaborative research between universities and businesses (73.91% think this is critical today and 81.82% believe it will become more important in the future).

Question 5: Regional innovation cooperation could be beneficial for your institution /company and the whole WB region. To our own knowledge, please, estimate the importance of the following factors which should be improved to foster regional cooperation

| | Fact | ors th | at fost | ter reç | gional | coop | eration | n per c | ountr | У | | | | | |
|---|--------------------------------|---------|-------------------------|---------|------------------|------------|---------|---------|---------|-------------------------|---------|------------------|------------|--------|-------|
| | Importance | | | Facto | ors Toda | ay (%) | | | | | Facto | rs in 20 | 30 (%) |) | |
| Factors to foster regional cooperation | High Medium Little No | Albania | Bosnia & Herzegovina | Croatia | FYR Macedonia | Montenegro | Serbia | TOTAL | Albania | Bosnia & Herzegovina | Croatia | FYR Macedonia | Montenegro | Serbia | TOTAL |
| HUMAN RESOURCES | | | | | | | | | | | | | | | |
| The availability of workers with the skills your institution/business requires - in the region | - High Importance | 75 | 33.33 | 30 | 41.67 | 50 | 40.91 | 42.86 | 77.78 | 57.14 | 63.64 | 72.73 | 100 | 66.67 | 68.85 |
| | - Medium Importance | 12.50 | 16.67 | 30 | 33.33 | 50 | 40.91 | 33.33 | | | | | | | |
| The availability of top managers with the qualifications your institution /business requires - in the region | - High Importance | 75 | 50 | 20 | 63.64 | 75 | 36.36 | 46.77 | 71.43 | 57.14 | 45.45 | 70 | 50 | 55 | 57.89 |
| The availability of scientists and engineers with the qualifications your institution /business requires - in the region | - High Importance | 75 | 66.67 | 30 | 72.73 | 75 | 47.62 | 55.74 | 80 | 85.71 | 63.64 | 100 | 100 | 85 | 83.64 |
| The availability of information technology professionals with the qualifications your institution | - High Importance | 71.43 | 66.67 | 20 | 54.55 | 50 | 42.86 | 46.67 | 71.43 | 85.71 | 45.45 | 77.78 | 0 | 61.11 | 62.96 |

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| /business requires - in the region | | | | | | | | | | | | | | | |
|---|----------------------|-------|-------|----|-------|----|----|-------|-------|-------|-------|-------|-----|-------|-------|
| The overall quality of the technical universities and colleges in the region | - High Importance | 83.33 | 66.67 | 40 | 66.67 | 75 | 55 | 59.32 | 71.43 | 85.71 | 63.64 | 81.82 | 100 | 84.21 | 78.95 |

| The availability of college and university apprenticeship/ internship programs in the region | - High Importance | 71.43 | 50 | 20 | 63.64 | 75 | 38.10 | 46.67 | 37.50 | 71.43 | 63.64 | 50 | 100 | 57.89 | 57.89 |
|---|------------------------|----------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|----------|-------|
| The effectiveness of regional | - High Importance | 42.86 | 33.33 | 20 | 45.45 | 50 | 40 | 37.29 | 42.86 | 57.14 | 27.27 | 50 | 0 | 63.16 | 48.21 |
| programmes to train entrepreneurs | - Medium Importance | 42.86 | 50 | 30 | 27.27 | 25 | 30 | 32.20 | 57.14 | 42.86 | 45.45 | 40 | 50 | 31.58 | 41.07 |
| The improvements of foreign languages proficiencies | - High Importance | 57.14 | 83.33 | 30 | 50 | 100 | 47.62 | 52.46 | 71.43 | 85.71 | 54.55 | 70 | 50 | 42.11 | 58.93 |
| ENTREPRENEURSHIP INFRASTR | UCTURE | <u> </u> | | | | | <u> </u> | | | | | | | <u> </u> | |
| The cost of doing business in the WBC region (specifically, the cost of real | - High Importance | 66.67 | 80 | 33.33 | 72.73 | 75 | 21.05 | 48.15 | 66.67 | 66.67 | 50 | 50 | 50 | 35.29 | 49.02 |
| estate, wages and salaries, and utilities)) | - Medium Importance | 16.67 | 20 | 33.33 | 9.09 | 25 | 47.37 | 29.63 | 33.33 | 16.67 | 40 | 40 | 50 | 52.94 | 41.18 |
| The overall quality of the region's communications Infrastructure (e.g., telephone, wireless, high-speed internet) | - High Importance | 57.14 | 80 | 55.56 | 50 | 75 | 42.11 | 53.57 | 75 | 66.67 | 90 | 63.64 | 50 | 70.59 | 72.22 |
| The overall quality of the region's energy supply | - High Importance | 85.71 | 60 | 66.67 | 45.45 | 75 | 45 | 57.14 | 71.43 | 66.67 | 80 | 44.44 | 0 | 61.11 | 61.54 |
| The overall quality of the region's transportation (e.g., roads, air transport, railroads and ports) | - High Importance | 85.71 | 80 | 44.44 | 50 | 66.67 | 55 | 58.93 | 71.43 | 60 | 60 | 54.55 | 33.33 | 72.22 | 62.96 |
| Enhancing the level of entrepreneurial motivation in the region | - High Importance | 57.14 | 40 | 33.33 | 63.64 | 0 | 47.37 | 47.17 | 71.43 | 83.33 | 50 | 60 | 0 | 47.06 | 53.70 |

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| Availability of the regional business assistance and services (e.g. | - Medium Importance | 28.57 | 60 | 22.22 | 18.18 | 50 | 50 | 37.50 | 42.86 | 33.33 | 50 | 30 | 100 | 38.89 | 41.51 | |
|---|------------------------|-------|----|-------|-------|----|----|-------|-------|-------|----|----|-----|-------|-------|--|
| marketing, accounting, etc.) | - High Importance | 42.86 | 20 | 33.33 | 45.45 | 50 | 20 | 32.14 | 57.14 | 66.67 | 30 | 50 | 0 | 44.44 | 45.28 | |

| | - High Importance | 50 | 20 | 22.22 | 45.45 | 50 | 20 | 30.91 | 50 | 50 | 10 | 50 | 0 | 41.18 | 37.25 |
|---|------------------------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Availability of the regional export promotion agencies | - Little Importance | 0 | 40 | 55.56 | 45.45 | 25 | 25 | 32.73 | 0 | 33.33 | 20 | 40 | 0 | 11.76 | 13.73 |
| | - Medium Importance | 16.67 | 40 | 22.22 | 9.09 | 25 | 50 | 30.91 | 50 | 16.67 | 70 | 30 | 100 | 47.06 | 47.06 |
| EXPERT ASSISTANCE AND COOP | ERATION WITH | UNIVE | RSITIES | 5 | | | | | | | | | | | |
| Overall quality of technical assistance offered by colleges and universities to businesses in the region | - High Importance | 71.43 | 66.67 | 22.22 | 66.67 | 50 | 47.37 | 51.92 | 44.44 | 100 | 50 | 62.50 | 25 | 66.67 | 60.71 |
| Strengthening the interest of universities for cooperation with businesses in the region | - High Importance | 62.50 | 66.67 | 33.33 | 80 | 75 | 55 | 59.65 | 55.56 | 100 | 40 | 88.89 | 100 | 66.67 | 69.09 |
| Strengthening the interest of business for cooperation with universities in the region | - High Importance | 71.43 | 66.67 | 44.44 | 66.67 | 50 | 63.16 | 61.11 | 37.50 | 100 | 50 | 62.50 | 100 | 76.47 | 67.31 |
| The overall quality of R&D collaboration between businesses and college/university researchers in the region | - High Importance | 71.43 | 50 | 44.44 | 70 | 33.33 | 47.37 | 53.70 | 71.43 | 50 | 44.44 | 70 | 33.33 | 47.37 | 53.70 |
| Strengthening the institutions like university science parks, technology transfer centres, etc. | - High Importance | 33.33 | 33.33 | 33.33 | 77.78 | 33.33 | 42.11 | 44.23 | 44.44 | 71.43 | 60 | 100 | 0 | 47.06 | 57.41 |

Innovation Support

| FISCAL AND FINANCIAL OBSTAC | CLES | | | | | | | | | | | | | | |
|---|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|-------|-------|----------|----------|
| The availability of loans and capital from the banks in the region | - High Importance | 66.67 | 33.33 | 33.33 | 60 | 50 | 36.84 | 45.61 | 57.14 | 28.57 | 40 | 66.67 | 0 | 58.82 | 50 |
| Lowering the interest rates | - High Importance | 66.67 | 66.67 | 33.33 | 50 | 0 | 45 | 47.17 | 44.44 | 71.43 | 30 | 55.56 | 0 | 58.82 | 48.21 |
| The availability of risk/investment capital in the region | - High Importance | 71.43 | 40 | 22.22 | 70 | 50 | 36.84 | 46.30 | 57.14 | 66.67 | 40 | 77.78 | 0 | 47.06 | 52.94 |
| The availability of regional subsidies and programmes for innovation | - High Importance | 71.43 | 40 | 55.56 | 60 | 50 | 36.84 | 50 | 75 | 83.33 | 70 | 75 | 50 | 52.94 | 66.67 |
| Harmonisation and reduction of tax incentives for innovation (relative to | - High Importance | 50 | 66.67 | 44.44 | 40 | 33.33 | 44.44 | 46.15 | 44.44 | 71.43 | 60 | 44.44 | 0 | 56.25 | 51.85 |
| other regions) | - Medium Importance | | | | | | | | 33.33 | 28.57 | 40 | 55.56 | 66.67 | 43.75 | 42.59 |
| Harmonisation and reduction of personal income tax (labour costs, social security, etc.) (relative to other regions) | - High Importance | 71.43 | 50 | 44.44 | 40 | 33.33 | 31.58 | 42.59 | 42.86 | 71.43 | 60 | 50 | 0 | 47.06 | 50 |
| STATE AND LOCAL ADMINISTRA | TIVE REGULAT | IONS | | | | | | I | | I | | | | <u>I</u> | <u> </u> |
| Improvements of state and local administrative burdens and permitting procedures for regional cooperation | - High Importance | 75 | 66.67 | 66.67 | 60 | 66.67 | 52.63 | 61.82 | 50 | 85.71 | 70 | 77.78 | 33.33 | 47.06 | 61.11 |
| Improvements and harmonisation of labour market regulation at the regional level | - High Importance | 87.50 | 33.33 | 33.33 | 60 | 75 | 31.58 | 48.21 | 85.71 | 71.43 | 40 | 66.67 | 100 | 47.06 | 59.62 |
| Access to other markets of the WB | - High Importance | 66.67 | 33.33 | 33.33 | 44.44 | 0 | 36.84 | 38.46 | 57.14 | 71.43 | 40 | 44.44 | 33.33 | 64.71 | 54.72 |
| region | - Medium Importance | 16.67 | 50 | 33.33 | 22.22 | 100 | 31.58 | 34.62 | | | | | | | |

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| Improvements and harmonisation of the technology transfer regulation (Intellectual property rights) | - High Importance | 57.14 | 50 | 44.44 | 63.64 | 75 | 38.89 | 50.91 | 66.67 | 85.71 | 50 | 70 | 0 | 56.25 | 62.26 |
|---|----------------------|-------|-------|-------|-------|----|-------|-------|-------|-------|----|-------|----|-------|-------|
| Common regional measures against corruption in state and local administration | - High Importance | 83.33 | 66.67 | 55.56 | 50 | 50 | 57.89 | 59.62 | 42.86 | 85.71 | 80 | 55.56 | 25 | 70.59 | 64.81 |

Table 10: Table presenting percentages of how respondents' value factors that foster regional cooperation per country, both today and in 2030

The above analysis (Table 10) shows that developing skills and qualified personnel (i.e. scientists and engineers) will be key in the future to enable regional cooperation to take place (83.64%). At the same time, the quality of regional research institutions (i.e. technical universities and colleges) needs to be improved (78.95%) as it needs its communications infrastructure (72.22%). Perhaps facilitating mobility both towards the region through proper incentives and of regional researchers to go abroad and return better qualified can enable the region to become more competitive and innovative by 2030. In this regard, enhancing collaboration with research institutes abroad, which can be much facilitated by ICTs, seems to be paramount.

The needs highlighted above differs from what is perceived today as important to foster regional cooperation, which seems mainly related to assistance and incentives to stimulate and strengthen business interest to collaborate with universities (61.11%) or to improve current administrative burdens in order to enable more loose and flexible procedures for regional cooperation (61.82%).

Question 6: Please, estimate the importance of the following outcomes of the possible regional innovation cooperation?

| Outcomes of regional cooperation per country | | | | | | | | | | |
|--|------------|--------------------|----------------------|--|--|--|--|--|--|--|
| Outcomes of regional innovation cooperation | Importance | Outcomes Today (%) | Outcomes in 2030 (%) | | | | | | | |

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| | High Medium Little No | Albania | Bosnia & Herzegovina | Croatia | FYR Macedonia | Montenegro | Serbia | TOTAL | Albania | Bosnia & Herzegovina | Croatia | FYR Macedonia | Montenegro | Serbia | TOTAL |
|--|--------------------------------|---------|-------------------------|---------|------------------|------------|--------|---------------|---------|-------------------------|---------|------------------|------------|--------|-------|
| Access to new markets | - High Importance | 37.50 | 33.33 | 50 | 50 | 75 | 50 | 48.21 | 57.14 | 71.43 | 57.14 | 66.67 | 100 | 57.89 | 62.75 |
| The availability of the regional financial initiatives (e.g. Regional Investments Bank, e.g. Western Balkan Investments Fund) | - High Importance | 60 | 60 | 62.50 | 70 | 50 | 45 | 55. 77 | 75 | 66.67 | 55.56 | 55.56 | 0 | 50 | 55.77 |

| Lower costs of doing business - increase of the firm's efficiency (e.g. the cost of real estate, utilities, lower labour costs, etc. | - High Importance | 87.50 | 80 | 62.50 | 60 | 50 | 40 | 58.18 | 66.67 | 100 | 55.56 | 44.44 | 50 | 50 | 58.49 |
|---|----------------------|-------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| Consistent legal framework aimed at facilitating foreign direct investments in the WB region | - High Importance | 71.43 | 50 | 50 | 50 | 0 | 61.11 | 52.83 | 66.67 | 85.71 | 44.44 | 56.56 | 0 | 68.75 | 61.54 |
| The access to colleges/universities available in the region for innovation development | - High Importance | 85.71 | 50 | 50 | 63.64 | 33.33 | 44.44 | 54.72 | 71.43 | 71.43 | 44.44 | 60 | 0 | 56.25 | 55. 77 |
| Mobility of skilled workers in the region | - High Importance | 57.14 | 60 | 25 | 50 | 33.33 | 50 | 47.17 | 44.44 | 83.33 | 22.22 | 55.56 | 66.67 | 50 | 50 |
| Mobility of engineers and researchers in the region | - High Importance | 75 | 80 | 14.29 | 63.64 | 50 | 42.11 | 51.92 | 85.71 | 100 | 33.33 | 90 | 50 | 52.94 | 66.04 |
| Mobility of managers in he region | - High Importance | 50 | 60 | 25 | 70 | 66.67 | 26.32 | 43.40 | 57.14 | 83.33 | 22.22 | 77.78 | 3.33 | 38.89 | 50 |

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Table 11: Table presenting percentages of how respondents' value outcomes of regional cooperation per country, both today and in 2030

The above analysis (Table 11) shows there is not much consensus on which outcomes of regional innovation collaboration would be more relevant. This could suggest that there would be a need to build awareness and a culture of innovation in the region, which opens up a lot of opportunities to invest in educational campaigns and in bringing stakeholders together in order to foster collaboration in the near future. Looking at the analysis there is also a difference on what seems to be perceived as relevant at present (i.e. reduce costs of doing business and increase firms' efficiency – 58.18%) and what might be important to foster innovation through regional cooperation in the future (i.e. access to new markets – 62.75% – and mobility of engineers and researchers in the region – 66.04%). This is in line with the previous analysis performed in question 5 and suggests mobility as an important element to improve the region's innovation capability.

Question 7: Please, rank the importance of the three most important regional innovation actions for improving the innovation activities in your country! (ranks by marks where 1 - is the highest importance and 3 - is least importance)

| Actions to improve innovation in the region | | | | | | | | |
|---|-----------------------|---------|--|--|--|--|--|--|
| Regional innovation actions | Average (rank 1 – 3) | | | | | | | |
| | TODAY | In 2030 | | | | | | |
| Creating a joint financing programme for innovation development at the regional level | 1.85 | 1.79 | | | | | | |
| Common large scale technology programmes (e.g. technology platforms, joint technological/industrial activities) | 2.03 | 1.85 | | | | | | |
| Common educational programmes for technical skills, innovation management, etc. | 1.95 | 1.82 | | | | | | |
| Common apprentice (trainee) programmes of young experts | 1.89 | 1.86 | | | | | | |
| Common programmes for mobility of personnel in the region between universities and business to establish cooperation between science and industry | 1.83 | 1.65 | | | | | | |
| Strengthening regional innovation clusters in selected sectors | 2.00 | 1.91 | | | | | | |

| Consistent legal framework aimed at facilitating foreign direct investments in the WB region | 1.69 | 1.68 |
|---|------|------|
| A progressive liberalisation and mutual opening of the service market within the WB region | 1.82 | 1.74 |
| Harmonisation and opening of the government's procurements markets | 1.87 | 1.77 |
| Establishing regional venture capital fund | 1.88 | 1.89 |
| Developing regional initiatives for large infrastructural projects | 1.93 | 1.72 |
| Joint regional approach towards international institutions and funding programmes (e.g. World Bank) and EU programs | 1.98 | 1.80 |

Table 12: Table presenting average of how respondents' value actions that improve innovation, both today and in 2030

From the above analysis (Table 12) four actions seem to be important to improve innovation in the region: i) Common programmes for mobility of personnel in the region between universities and business to establish cooperation between science and industry is third in importance today (1.83) and becomes the most important action in the future (1.65); ii) Consistent legal framework aimed at facilitating foreign direct investments in the WB region is the most important action today (1.69) and remains as important in the future but ranking second (1.68); iii) A progressive liberalisation and mutual opening of the service market within the WB region is second in importance today and seems to become more important in the future but ranking fourth then (1.74); and iv) Developing regional initiatives for large infrastructural projects does not rank among the most important today (1.93) but becomes third in importance in the future (1.72).

Question 8: Please outline your interest to work in a few research topics/fields⁶:

| | Interest in research topics per country | |
|------------------------|---|----------------------|
| Research topics/fields | Interest Today (%) | Interest in 2030 (%) |

⁶ These were identified as a result of the analysis of the industry survey.

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| | Albania | Bosnia & Herzegovina | Croatia | FYR Macedonia | Montenegro | Serbia | TOTAL | Albania | Bosnia & Herzegovina | Croatia | FYR Macedonia | Montenegro | Serbia | TOTAL |
|---|---------|-------------------------|---------|------------------|------------|--------|-------|---------|-------------------------|---------|------------------|------------|--------|-------|
| Environment surveillance through ICTs | 100 | 100 | 70 | 80 | 100 | 66.67 | 77.59 | 80 | 75 | 55.56 | 87.50 | 100 | 71.43 | 73.08 |
| Automation of information management systems through artificial intelligence and agent based software | 100 | 60 | 70 | 60 | 66.67 | 57.89 | 64.81 | 83.33 | 80 | 66.67 | 77.78 | 66.67 | 72.22 | 72.55 |
| Selling of goods and services through social networks and on-line data mining | 75 | 80 | 22.22 | 60 | 50 | 35.29 | 45.83 | 100 | 100 | 44.44 | 77.78 | 66.67 | 29.41 | 57.14 |
| Legal research to reach an agreement for trade of IT services & product within WB | 100 | 75 | 40 | 62.50 | 0 | 43.75 | 53.33 | 100 | 75 | 40 | 66.67 | 50 | 57.14 | 58.54 |
| Research on new approaches and frameworks to enhance FDI and cross-regional investments in the region | 100 | 75 | 77.78 | 63.64 | 50 | 44.44 | 64.71 | 100 | 100 | 87.50 | 87.50 | 50 | 37.50 | 70.45 |

Table 13: Table presenting interest of researchers to work on topics of interest to industry per country, both today and in 2030

The above analysis (Table 13) shows that regional research stakeholders share interest with industry stakeholders in three research topics which were outlined by the latter as relevant to trigger innovation in the region through cooperation. The most attractive seems to be environment surveillance through ICTs which appears to be currently the most interesting (77.59%) and remains interesting in the future (73.08%). The second would be automation of information management systems through artificial intelligence and agent based software which has an interest rate of 64.81% today which increases to 72.55% in the future. Finally, research on new approaches and frameworks to enhance FDI and cross-regional investments in the region also seems appealing in pursuing with an interest rate of 64.71% today which increases to 70.45% in the future.

5 Potential future research and innovation needs in the WBC region to be fulfilled through cooperation

Combining the results achieved through the consultations targeted at the research and industry stakeholders, it can be highlighted that:

- The most important actions for improving cooperation between business and research in the region, both presently and in the future are: more funding for knowledge/technology transfer activities and expert consultations and more funding for collaborative research between universities and businesses.
- A move from state and local administrative regulations as well as expert assistance, which is presently regarded as important to both business and research stakeholders, towards that of *investing in human resources and in infrastructure* seems to be critical to enhance cooperation in the region in the future.
- The analysis of the questionnaire targeted both to research and business stakeholders reflect a lack of consensus or understanding on which outcomes of enhanced regional innovation collaboration would be more relevant. The only outcome that appears as important from improved regional innovation cooperation would be *access to new markets*. This suggests the need to build both *more awareness and (new) capabilities* in the region. To this end, improved *communication*, including in infrastructure (e.g. ICT), and *mobility* seems to be important.
- When checking the answers given by industry and those given by researchers on the most important actions for improving regional innovation activities, they seem to differ substantially. The three actions least important for industry are among the four more important for researchers: common programmes for mobility of personnel in the region between universities and business to establish cooperation between science and industry, consistent legal framework aimed at facilitating foreign direct investments in the WB region, and a progressive liberalisation and mutual opening of the service market within the WB region. The only action which comes as important for both business and researchers

stakeholders ranks third for both of them, and is that of *developing regional initiatives for large infrastructural projects*. Such an outcome highlights the *need for enhanced communication and understanding* between these two different groups of stakeholder in order to *build mutual appreciation* and *achieve at a joint agenda*.

Finally, from the research topics posted by industry stakeholders as important to trigger regional innovation through collaboration, those by which researchers seem to be interested in working together with industry are: environment surveillance through ICTs, automation of information management systems through artificial intelligence and agent based software, and new approaches and frameworks to enhance FDI and cross-regional investments in the region.

6 Further Considerations

As previously outlined, a dedicated workshop shall take place in the near future with both industry and research regional stakeholders in order refine and complement the findings above based upon a mutual appreciation of different viewpoints and expectations.

However, further consultations with policy makers and research funding organisations will become paramount in order to provide clear guidance and support to the preparation of a Joint Action Plan for the WBC. This is important to bring together the needs and opportunities for regional innovation cooperation identified as important for both business and researchers in alignment with future RI calls likely to be launched, as well as with policy measures that can frame a proper environment that will allow collaboration to take place on issues of importance for the region.

Such an approach is in line with the joint programming framework being fostered by the EU Commission, which is summarised by three generic phases:

- 1. Development of *a common vision*: This vision should set the longer-term objective(s), to be defined by authoritative experts in the field and politically endorsed. It would be developed on the basis of credible evidence (possibly including (joint) foresight activities) and broad stakeholder (public) consultations, in particular with the scientific and industrial communities. It could equally be based on a preliminary (joint) evaluation of existing programs and capacities.
- 2. Once the vision has been established, it should be translated into a *Strategic Research Agenda (SRA)*, entailing specific, measurable, achievable, realistic and time-based (SMART) objectives. The strategic research agenda should make the vision operational and link the implementation of the vision's objectives with existing competences in Europe (or in the region) or new ones to be developed. A good knowledge of existing programs and competences across Europe (and beyond) will be essential.
- **3.** *Implementation* of the SRA: All participating public authorities orient their programs and funding to contribute in a coherent manner to the implementation of the SRA. The full tool box of public research instruments (national and regional

research programs, intergovernmental research organizations and collaborative schemes, research infrastructures, mobility schemes, etc.) should be explored and used to implement the individual Joint Programming Initiatives. Regular monitoring and evaluation of progress against the SMART objectives should be ensured, and its results reported to the political level.

7 Conclusions

The future research and market potential needs highlighted in this report were identified through two consecutive surveys, the first targeted at industry stakeholders and the second at researchers. These are needs which call for regional collaboration to be fulfilled and thus trigger regional innovation.

To sum up, potential needs for the region to be further considered in order to trigger joint innovation are:

- **Funding** knowledge/technology transfer activities, expert consultations, as well as collaborative research between universities and businesses
- State and local administrative decrease in regulation
- Strengthen human resources capacities
- Improve infrastructures (including ICT)
- Build **awareness** on innovation benefits as well as **new capabilities** in the region
- Foster **mobility** both within the region and across the globe
- Increase communication between different stakeholders to increase mutual understanding, support the identification of common interests, build mutual appreciation and achieve at a joint agenda

Finally, potential research topics to be further considered in the region to trigger joint innovation are:

- Environment surveillance through ICTs
- Automation of information management systems through artificial intelligence and agent based software
- New approaches and frameworks to enhance FDI and cross-regional investments in the region

Appendix 1: first questionnaire targeted at business stakeholders

IPM

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Survey for a research and innovation agenda for the WBC region

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Questionnaire on multiple pages

I. GENERAL INFORMATION

In this section, we are interested in some general features of your company

| 1. Country of residence* (compulsory) |
|---|
| ○ [©] Bosnia & [©] FYR [©] Kosovo / UN [©] [©] [©] Albania _{Her} zegovina Croatia _{Ma} cedonia Res. 1244 Montenegro Serbia Other |
| if 'Other' please specify: (optional) |
| 2. Main economic activity* (compulsory) |
| Agro & O ICT (Information and O Energy Food Environment Health Communication Technologies) Transport Other |
| if 'Other', please specify: (optional) |
| 3. Please indicate the following general information about your firm in the last year Total number of employees [*] (compulsory) |
| Number of research personnel* (compulsory) |
| Gross revenues (approx.) (in €) (optional) |
| Please estimate the average expenditure on research and innovation (as % of gross revenue)* (compulsory) |

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| © 0 - 1% | ° ₁ - 5% | $^{\odot}$ 5% and above | |
|---|---|-------------------------|--|
| 5. Please, estimate w Customers in your cour | hat is the share of your comp htry (in %) (optional) | any's sales to: | |
| Customers within the | WBC region * (in %) (optional) | | |
| Customer in foreign co | untries outside the region (in $\%$ | (optional) | |

II. CURRENT INNOVATION * NEEDS

In this section we are interested in your opinion about the different factors which can foster innovation capacities of your company at local and regional level.

* Innovation includes developing and commercialising new products, as well making improvements to existing products, services, production or business processes.

6. Are the following stakeholders of any importance to the innovation capacity of your company?

| | No importance | Little importance | Medium importance | High importance |
|--|---------------|----------------------|----------------------|--------------------|
| Suppliers or customers in your country [*] (compulsory) | 0 | 0 | 0 | 0 |
| Suppliers and customers from the WBC region* (compulsory) | 0 | 0 | 0 | 0 |
| International suppliers and customers outside the WB region ^{**} (compulsory) | 0 | 0 | • | 0 |
| Employees in your enterprise or enterprise group* (compulsory) | 0 | 0 | 0 | 0 |
| Universities and colleges* (compulsory) | 0 | 0 | 0 | 0 |
| Research institutes* (compulsory) | 0 | 0 | 0 | 0 |
| Consultants and professional service firms [*] (compulsory) | 0 | 0 | 0 | 0 |
| Business incubators or entrepreneurship centres financed by the government [*] (compulsory) | 0 | 0 | 0 | 0 |
| Professional and industrial associations [*] (compulsory) | 0 | 0 | • | 0 |

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| Cluster networks * (compulsory) | 0 | 0 | 0 | 0 |
|--|---|---|---|---|
| Institutions such as Chamber of Commerce & Development Agencies [*] (compulsory) | 0 | 0 | 0 | 0 |
| Banks* (compulsory) | 0 | 0 | 0 | 0 |
| Venture capital firms/angel investors* (compulsory) | 0 | 0 | 0 | 0 |
| Conferences, trade fairs, exhibitions* (compulsory) | 0 | 0 | 0 | 0 |
| Other (optional) | 0 | 0 | 0 | 0 |

7. According to literature, cooperation of companies with universities and research institutes is crucial for innovation performance. In your opinion, which of the following actions are important for improving cooperation between your company and the research sector?

| | No importance | Little importance | Medium importance | High importance |
|---|---------------|----------------------|----------------------|--------------------|
| Introduction of regular business/technical advising services at universities for the needs of businesses [*] (compulsory) | 0 | 0 | 0 | 0 |
| Organization of specialized training courses by universities for the needs of industrial sectors and companies [*] (compulsory) | 0 | 0 | 0 | 0 |
| More funding for knowledge/technology transfer activities and expert consultations* (compulsory) | 0 | 0 | 0 | 0 |
| More funding for collaborative research between universities and businesses* (compulsory) | 0 | 0 | 0 | 0 |
| Easy access to professional technology transfer officers (or similar staff) [*] (compulsory) | 0 | 0 | 0 | 0 |
| Greater understanding by researchers of the needs of business companies and industry [*] (compulsory) | ¢ | 0 | 0 | 0 |
| Better mobility (exchange) of researchers between universities and industry [*] (compulsory) | 0 | 0 | 0 | 0 |

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| Greater understanding by researchers of intellectual property rights (IPR) and its implications [*] (compulsory) | 0 | 0 | 0 | 0 |
|--|---|---|---|---|
| Financial incentives for university staff which cooperate with companies [*] (compulsory) | 0 | 0 | 0 | 0 |
| Establishing of university incubators or science parks* (compulsory) | 0 | 0 | 0 | 0 |
| Development of local partnership/inclusion of universities in clusters or business associations [*] (compulsory) | 0 | 0 | 0 | 0 |
| Creation of specialised large-scale programmes for cooperation of companies and research institutions with a wider impact on economic and technological development (e.g. technology platforms, joint technological/industrial activities)* (compulsory) | 0 | o | o | 0 |

8. Regional innovation cooperation could be beneficial for your company and the whole WB region. Please estimate the importance of the following factors in improving regional cooperation.

| | No importance | Little importance | Medium importance | High importance |
|--|---------------|----------------------|----------------------|--------------------|
| HUMAN RESOURCES: The availability of workers with the skills your business requires - in the region* (compulsory) | 0 | 0 | ø | 0 |
| The availability of top managers with the qualifications your business requires - in the region* (compulsory) | 0 | 0 | 0 | • |
| The availability of scientists and engineers with the qualifications your business requires - in the region [*] (compulsory) | 0 | 0 | 0 | • |
| The availability of information technology professionals with the qualifications your business requires - in the region* (compulsory) | 0 | 0 | 0 | 0 |
| The overall quality of the technical universities and colleges in the region* (compulsory) | 0 | 0 | 0 | 0 |
| The availability of college and university apprenticeship/ internship programs in the region* (compulsory) | 0 | 0 | 0 | 0 |

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| The effectiveness of regional programmes to train entrepreneurs [*] (compulsory) | 0 | 0 | 0 | 0 |
|--|---|---|---|---|
| The improvements of foreign languages proficiencies [*] (compulsory) | 0 | 0 | 0 | 0 |
| ENTREPRENEURSHIP INFRASTRUCTURE: The cost of doing business in the WBC region (specifically, the cost of real estate, wages and salaries, and | 0 | 0 | o | 0 |
| utilities)* (compulsory) | | | | |
| The overall quality of the region's communications Infrastructure (e.g., telephone, wireless, high-speed internet)* (compulsory) | O | 0 | 0 | 0 |
| | | | | |
| The overall quality of the region's energy supply [*] (compulsory) | 0 | 0 | 0 | 0 |
| The overall quality of the region's transportation (e.g., roads, air transport, | 0 | 0 | 0 | 0 |
| railroads and ports)* (compulsory) | | | | |
| Enhancing the level of entrepreneurial motivation in the region [*] (compulsory) | 0 | 0 | 0 | 0 |
| Availability of the regional business | | | | |
| assistance and services (e.g. marketing, | 0 | 0 | 0 | 0 |
| accounting, etc.) $*$ (compulsory) | | | | |
| Availability of the regional export promotion agencies [*] (compulsory) | 0 | 0 | 0 | 0 |
| EXPERT ASSISTANCE AND COOPERATION WITH UNIVERSITIES: Overall quality of technical assistance offered by colleges and universities to | Ø | 0 | 0 | 0 |
| businesses in the region \star (compulsory) | | | | |
| Strengthening the interest of universities for cooperation with businesses in the region [*] (compulsory) | 0 | 0 | 0 | 0 |
| | | | | |
| Strengthening the interest of business for cooperation with universities in the region [*] (compulsory) | 0 | 0 | 0 | 0 |
| region (compulsory) | | | | |
| The overall quality of R&D collaboration between businesses and college/university researchers in the region [*] (compulsory) | 0 | 0 | Ð | 0 |
| | | | | |
| Strengthening the institutions like university science parks, technology | 0 | 0 | 0 | 0 |
| transfer centers, etc.* (compulsory) | | | | |
| FISCAL AND FINANCIAL OBSTACLES: The availability of loans and capital from | 0 | 0 | 0 | 0 |

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| the banks in the region $^{m{\star}}$ (compulsory) | | | | |
|--|---|---|---|---|
| Lowering the interest rates \star (compulsory) | 0 | 0 | 0 | 0 |
| The availability of risk/investment capital in the region [*] (compulsory) | 0 | 0 | 0 | 0 |
| The availability of regional subsidies and programmes for innovation [*] (compulsory) | 0 | 0 | 0 | 0 |
| Harmonisation and reduction of tax incentives for innovation (relative to other regions)* (compulsory) | 0 | 0 | 0 | 0 |
| Harmonisation and reduction of personal income tax (labour costs, social security, etc.) (relative to other regions)* (compulsory) | 0 | 0 | 0 | 0 |
| STATE AND LOCAL ADMINISTRATIVE REGULATIONS: Improvements of state and local administrative burdens and permitting procedures for regional cooperation* (compulsory) | 0 | 0 | 0 | 0 |
| Improvements and harmonisation of labour market regulation at the regional level* (compulsory) | 0 | 0 | 0 | 0 |
| Access to other markets of the WB region* (compulsory) | • | 0 | • | 0 |
| Improvements and harmonisation of the technology transfer regulation (Intellectual property rights) [*] (compulsory) | Ø | 0 | 0 | 0 |
| Common regional measures against corruption in state and local administration [*] (compulsory) | O | 0 | O | 0 |

9. Please, estimate the importance of the following outcomes of the possible regional cooperation

| | No importance | Little importance | Medium importance | High importance |
|--|---------------|----------------------|----------------------|--------------------|
| Access to new markets* (compulsory) | 0 | 0 | 0 | 0 |
| The availability of the regional financial initiatives (e.g. Regional Investments Bank, e.g. Western Balkan Investments Fund)* (compulsory) | 0 | 0 | 0 | o |
| Lower costs of doing business - increase of the firm's efficiency (e.g. the cost of real | | 0 | 0 | 0 |

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High

O High

| estate, utilities, lower labour costs, etc.* (compulsory) | | | | |
|--|---|---|---|---|
| Consistent legal framework aimed at facilitating foreign direct investments in the WB region* (compulsory) | 0 | 0 | 0 | 0 |
| The access to colleges/universities available in the region for innovation development [*] (compulsory) | 0 | 0 | 0 | 0 |
| Mobility of skilled workers in the region [*] (compulsory) | 0 | 0 | 0 | 0 |
| Mobility of engineers and researchers in the region* (compulsory) | 0 | 0 | 0 | 0 |
| Mobility of managers in the region * (compulsory) | 0 | 0 | 0 | 0 |
| Other (optional) | 0 | 0 | 0 | 0 |

Please describe 'Other': (optional)

10. Have you received any public support for innovation in the last three years? If so, please provide up to 3 examples mentioning the names of the programme and/or the instrument, the organization providing the support and indicate how important you think this policy action is for increasing the innovation performance of your country.

Example 1: Name of the programme/instrument (1): (optional)

Name of the supporting organisation (1): (optional)

Importance (1): (optional)

○ Low

Medium

Medium

Example 2: Name of the programme/instrument (2): (optional)

Name of the supporting organisation (2): (optional)

Importance (2): (optional)

Low

| Example 3: Name of the programme/instrument (3): (a | optional) | |
|---|--|----|
| | | |
| Name of the supporting organisation (3): (a | aptional) | |
| (-). (-). (-). (-). (-). (-). (-). (-). | | |
| | | |
| mportance (3) (optional) | | |
| ○ Low ○ Med | dium ^O High | |
| | | |
| actions for improving the inn | nce of the following regional innovation novation performance of your company ere 1 - is the highest importance and 12 - | is |
| least importance | | |
| Creating a joint financing programme for innovation development at the regional | r | |
| level* (compulsory) | | |
| Common large scale technology programmes (e.g. technology platforms, joint technological/industrial | , | |
| activities)* (compulsory) | | |
| Common educational programmes for technical skills, innovation management, | , | |
| etc.* (compulsory) | | |
| Common apprentice (trainee) programme | es | |
| of young experts* (compulsory) | | |
| Common programmes for mobility of personnel in the region between universities and business to establish cooperation between science and | | |
| industry* (compulsory) | | |
| Strengthening regional innovation cluster | rs | |
| in selected sectors* (compulsory) | | |
| Consistent legal framework aimed at facilitating foreign direct investments in | | |
| the WB region* (compulsory) | | |
| A progressive liberalisation and mutual opening of the service market within the | a | |
| WB region* (compulsory) | | |
| wb region (computory) | | |
| Harmonisation and opening of the government's procurements markets* (compulsory) | | |

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| Establishing regional venture capital fund [*] (compulsory) | |
|---|--|
| Developing regional initiatives for large infrastructural projects [*] (compulsory) | |
| Joint regional approach towards international institutions and funding programmes (e.g World Bank) and EU programs* (compulsory) | |

III. FUTURE INNOVATION NEEDS

In this section you are asked to name and describe an innovation idea and outline both research and policies needed to enable this innovation idea to flourish by 2030

| 12. From the perspective of your organisation and/or your area of work please name one innovation idea that could contribute to an innovative region in the Western Balkans by the year 2030: (optional) |
|---|
| |
| 13. Please describe this innovation idea: E.g.: What are the main characteristics of the innovation? What are the main benefits of the innovation? Are there already first approaches in that area? Why this innovation is best addressed through cooperation in the region? (optional) |
| |
| 14. Please outline what research and skills should be developed to enable this innovation idea to flourish: E.g.: What are the research and skills needs to enable this innovation idea to thrive? (optional) |
| 15. Please outline what policies should be in place to ensure this innovation idea is fully mature by 2030: (optional) |

IV. CONFIDENTIALITY

The completed questionnaires will be coded and used for analysis by the WBC.INCO-NET project and only the aggregate results will be publicly available. No individual company's responses will be published and no data will be released in any way that permits ranking of institutions.

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| to (please tick): | | |
|--|-----------|--|
| | tick here | |
| receive the results of the survey (optional) | | |
| participate in the following stages of the project, if possible (i.e. workshops); (optional) | | |
| to be listed in the report as a participating company in the survey (optional) | | |
| Personal data: mame (optional) | | |
| | | |
| Name of organisation and job position (optional) | | |
| | | |

Email (optional)

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Appendix 2: second questionnaire targeted at research stakeholders

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Survey for a research and innovation agenda for the WBC region

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Questionnaire on multiple pages

IPM

I. GENERAL INFORMATION

In this section, we are interested in some general features of your company

| 1. Country | of residence* (con | npulsory) | | | | | |
|----------------------------|--------------------------------------|--------------|--------------------|--------------------------|-----------------|-------------|------------|
| O Albania | [©] Bosnia & Herzegovina | _ Croatia | © FYR Macedonia | Kosovo / UN Res. 1244 | ⊖ Montenegro | O Serbia | O Other |
| if 'Other' ple | ease specify: (option | al) | | | | | |
| 2. Type of | your organisation* | (compulsory | () | | | | |
| If 'Other' ple | ease specify: (option | al) | | | | | |
| 3. In which * (compulso | field do you work ry) | ? | | | | | |
| if 'Other', pl | lease specify: (optior | nal) | | | | | |

II. INNOVATION AND COLLABORATION NEEDS

4. According to literature, cooperation of companies with universities and research institutes is crucial for innovations. Please estimate the importance of the following actions for improving cooperation between companies and the research sector in your country, both today and in 2030.

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| Please select two options per ro | w bein | g one for | today and | one for | 2030 |) | | | |
|--|---------------------------|-----------|-----------|---------|-------|--------|--------|-----|-------------|
| No Lit importance impo | | Medium | High | No | nceim | Little | Medium | | gh tance |
| | | (TODAY) | (TODAY) | (2030 | | (2030) | (2030) | (20 | |
| Introduction of regular business/t advising services at universities fo needs of businesses (optional) | | | | | | | | | |
| Organization of specialized trainin courses by universities for the nee industrial sectors and companies | eds of | | | | | | | | |
| More funding for knowledge/tech transfer activities and expert consultations (optional) | nology | | | | | | | | |
| More funding for collaborative res between universities and businesses (optional) | earch | | | | | | | | |
| Easy access to professional techno transfer officers (or similar staff) | | .) | | | | | | | |
| Greater understanding by researc the needs of business companies industry (optional) | | | | | | | | | |
| Better mobility (exchange) of res between universities and industry | | | | | | | | | |
| Greater understanding by researc intellectual property rights (IPR) implications (optional) | | | | | | | | | |
| Financial incentives for university which cooperate with companies | |) | | | | • | - | | - |
| Establishing of university incubato science parks (optional) | ors or | | | | | | | | |
| Development of local partnership of universities in clusters or busin associations (optional) | | on 📼 | | | | | | | |
| Creation of specialised large-scal- programmes for cooperation of co and research institutions with a w impact on economic and technolo development (e.g. technology pla joint technological/industrial activities) (optional) | ompanie /ider gical | | | | | | | | |
| Other (optional) | | | | | | | | | |

if 'Other', please specify: (optional)

5. Regional innovation cooperation could be beneficial for your organisation and the whole WB region. Please estimate the importance of the following factors in improving regional cooperation, both today and in 2030. Please select two options per row being one for today and one for 2030

| No | Little | Medium | High | No | Little | Medium | High |
|------------|------------|------------|------------|------------|------------|------------|------------|
| importance |
| (TODAY) | (TODAY) | (TODAY) | (TODAY) | (2030) | (2030) | (2030) | (2030) |

http://ec.europa.eu/yourvoice/ipm/forms/dispatch

| HUMAN RESOURCES: The availability of workers with the skills your organisation requires - in the region (optional) | | | | |
|--|--|--|--|---|
| The availability of top managers with the qualifications your organisation requires - in the region (optional) | | | | |
| The availability of scientists and engineers with the qualifications your organisation requires - in the region (optional) | | | | |
| The availability of information technology professionals with the qualifications your organisation requires - in the region (optional) | | | | |
| The overall quality of the technical universities and colleges in the region (optional) | | | | |
| The availability of college and university apprenticeship/ internship programs in the region (optional) | | | | |
| The effectiveness of regional programmes to train entrepreneurs (optional) | | | | |
| The improvements of foreign languages proficiencies (optional) | | | | |
| ENTREPRENEURSHIP INFRASTRUCTURE: The cost of doing business in the WBC region (specifically, the cost of real estate, wages and salaries, and utilities) (optional) | | | | |
| The overall quality of the region's communications Infrastructure (e.g., telephone, wireless, high-speed internet) (optional) | | | | |
| The overall quality of the region's energy supply (optional) | | | | |
| The overall quality of the region's transportation (e.g., roads, air transport, railroads and ports) (optional) | | | | |
| Enhancing the level of entrepreneurial motivation in the region (optional) | | | | • |
| Availability of the regional business assistance and services (e.g. marketing, accounting, etc.) (optional) | | | | |
| Availability of the regional export promotion agencies (optional) | | | | |
| EXPERT ASSISTANCE AND COOPERATION WITH UNIVERSITIES: Overall quality of technical assistance offered by colleges and universities to businesses in the region (optional) | | | | |
| Strengthening the interest of universities for cooperation with businesses in the region (optional) | | | | |
| Strengthening the interest of business for cooperation with universities in the region (optional) | | | | |

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| The overall quality of R&D collaboration between businesses and college/university researchers in the region (optional) | | | | |
|---|--|--|--|---|
| Strengthening the institutions like university science parks, technology transfer centers, etc. (optional) | | | | |
| FISCAL AND FINANCIAL OBSTACLES: The availability of loans and capital from the banks in the region (optional) | | | | • |
| Lowering the interest rates (optional) | | | | |
| The availability of risk/investment capital in the region (optional) | | | | |
| The availability of regional subsidies and programmes for innovation (optional) | | | | |
| Harmonisation and reduction of tax incentives for innovation (relative to other regions) (optional) | | | | |
| Harmonisation and reduction of personal income tax (labour costs, social security, etc.) (relative to other regions) (optional) | | | | |
| STATE AND LOCAL ADMINISTRATIVE REGULATIONS: Improvements of state and local administrative burdens and permitting procedures for regional cooperation (optional) | | | | |
| Improvements and harmonisation of labour market regulation at the regional level (optional) | | | | • |
| Access to other markets of the WB region (optional) | | | | |
| Improvements and harmonisation of the technology transfer regulation (Intellectual property rights) (optional) | | | | |
| Common regional measures against corruption in state and local administration (optional) | | | | • |
| OTHER (optional) | | | | |
| | | | | |

if 'Other', please specify: (optional)

6. Please, estimate the importance of the following outcomes of the possible regional innovation cooperation, both today and in 2030. Please select two options per row being one for today and one for 2030

| | No importance (TODAY) | Little importance (TODAY) | Medium importance (TODAY) | High importance (TODAY) | No importar (2030) | nce imp | Little portance (2030) | Medium importance (2030) | Hig import (203 | ance |
|--|-----------------------------|---------------------------------|---------------------------------|-------------------------------|--------------------------|---------|------------------------------|--------------------------------|-----------------------|------|
| Access to new r | narkets (option | onal) | | | | | | | | |
| The availability initiatives (e.g. Bank, e.g. West Fund) (optional) | Regional Inv | estments | | | | | | | | |

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| Lower costs of doing business - increase of the firm's efficiency (e.g. the cost of real estate, utilities, lower labour costs, etc. (optional) | | | | |
|--|--|------|--|--|
| Consistent legal framework aimed at facilitating foreign direct investments in the WB region (optional) | | | | |
| The access to colleges/universities available in the region for innovation development (optional) | | | | |
| Mobility of skilled workers in the region (optional) | | | | |
| Mobility of engineers and researchers in the region (optional) | | | | |
| Mobility of managers in the region (optional) | | | | |
| Other (optional) | | | | |

7. Please, rank the importance of the three most important regional innovation actions for improving the innovation activities in your country. Please, select only three today and three in 2030 (tick only one box per column), where (1) is the highest importance, (2) is medium importance and (3) is least importance

| | | (-) | | | | |
|--|-----------|-----------|-----------|----------|----------|----------|
| | 1 (TODAY) | 2 (TODAY) | 3 (TODAY) | 1 (2030) | 2 (2030) | 3 (2030) |
| Creating a joint financing programme for innovation development at the regional level (optional) | | | | | | |
| Common large scale technology programmes (e.g. technology platforms, joint technological/industrial activities) (optional) | | | | | | |
| Common educational programmes for technical skills, innovation management, etc. (optional) | | | | | | |
| Common apprentice (trainee) programmes of young experts (optional) | | | | | | |
| Common programmes for mobility of personnel in the region between universities and business to establish cooperation between science and industry (optional) | | | | | | |
| Strengthening regional innovation clusters in selected sectors (optional) | | | | | | |
| Consistent legal framework aimed at facilitating foreign direct investments in the WB region (optional) | | | | | | |
| A progressive liberalisation and mutual opening of the service market within the WB region (optional) | | | | | | |
| Harmonisation and opening of the government's procurements markets (optional) | | | | | | |

| Establishing regional venture capital fund (optional) | | | | | | |
|---|--|--|---|--|------------|------------|
| Developing regional initiatives for large infrastructural projects (optional) | | | | | | |
| Joint regional approach towards international institutions and funding programmes (e.g World Bank) and EU programs (optional) | | | | | | |
| Other (optional) | | | | | | |
| f 'Other', please specify: (optional) | | | | | | |
| | | | | | | |
| Please outline your interest to work would like to collaborate with Environment surveillance through ICTs: (and the surveillance through ICTs) | | _ | | and, if so, | with who | m you |
| Ves (TODAY) | | | es (2030) | | | |
| No (TODAY) | | □ No | o (2030) | | | |
| Vith whom you would be willing to work in | | | | | | |
| | | ıgh artifici □ Ye | | | | |
| Automation of information management s oftware: (optional) | systems throu | ugh artifici □ Ye □ No | al intellige es (2030) o (2030) | nce and ag | gent based | |
| Automation of information management s oftware: (optional) Yes (TODAY) No (TODAY) | ystems throu | igh artifici Ye No n in the reg | al intellige es (2030) o (2030) ion (i.e. inc | nce and ag | gent based | |
| Automation of information management so oftware: (optional) | ystems throu | igh artifici Ye No n in the reg and on-lin | al intellige (2030) (2030) ion (i.e. inc | nce and ag | gent based | |
| Automation of information management so oftware: (optional) | ystems throu | Igh artifici Ye No n in the reg and on-lin Ye | al intellige es (2030) o (2030) ion (i.e. inc e data min | nce and ag | gent based | |
| Automation of information management so oftware: (optional) | ystems throu collaboration ial networks | igh artifici Ye No n in the reg and on-lin Ye No | al intellige es (2030) o (2030) ion (i.e. inc e data min es (2030) o (2030) | ince and ag | rent based | (optional) |
| Automation of information management so oftware: (optional) | ivstems throu collaboration ial networks | and on-lin Ye and on-lin Ye h in the reg | al intellige es (2030) ion (i.e. inc e data min es (2030) ion (i.e. inc ion (i.e. inc | ince and ag dividual or i ing: (option | rent based | (optional) |
| Automation of information management so oftware: (optional) | ivstems throu collaboration ial networks | and on-lin Yee and on-lin Yee No | al intellige es (2030) ion (i.e. inc e data min es (2030) ion (i.e. inc ion (i.e. inc | ince and ag dividual or i ing: (option | rent based | (optional) |

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| Research on new approaches and frame region: (optional) | eworks to enhance FDI and cross-regional investments in the |
|--|--|
| □ Yes (TODAY) | Yes (2030) |
| □ No (TODAY) | □ No (2030) |
| | |
| With whom you would be willing to work | k in collaboration in the region (i.e. individual or institution) (optional) |
| | |
| | |
| | fields you believe are important to be developed in the WBC either with whom you would like to collaborate with within the |
| | |
| | |
| | |
| | |

III. CONFIDENTIALITY

The completed questionnaires will be coded and used for analysis by the WBC.INCO-NET project and only the aggregate results will be publicly available. No individual company's responses will be published and no data will be released in any way that permits ranking of institutions.

You should provide us with personal information which shall remain confidential from other participants of the survey in case you would like to (please tick):

| | tick here | |
|--|-----------|--|
| receive the results of the survey (optional) | | |
| participate in the following stages of the project, if possible (i.e. workshops); (optional) | | |
| to be listed in the report as a participating company in the survey (optional) | | |

| Personal data: |
|-----------------|
| Name (optional) |

Name of organisation and job position (optional)

Telephone (optional)

Email (optional)

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Appendix 3: results of first questionnaire targeted at business stakeholders

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Response charts for 'Survey for a research and innovation agenda for the WBC region'

Current search:

Query definition

All data requested

Result pages

There are 20 responses matching your criteria of a total of 20 records in the current set of data.

- Expand all Collapse all
- [○] Sorted answers [●] Original order

I. GENERAL INFORMATION

In this section, we are interested in some general features of your company

| Requested records | 20 |
|-----------------------|----|
| Albania | 2 |
| Bosnia & Herzegovina | 3 |
| Croatia | 7 |
| FYR Macedonia | 2 |
| Kosovo / UN Res. 1244 | 1 |
| Montenegro | 1 |
| Serbia | 3 |

2. Main economic activity -single choice reply- (compulsory)

| Requested records | 20 |
|---|----|
| Energy | 2 |
| Agro & Food | 0 |
| Environment | 2 |
| Health | 1 |
| ICT (Information and Communication Technologies) | 9 |
| Transport | 0 |
| Other | 6 |

4. Please estimate the average expenditure on research and innovation (as % of gross revenue) -single choice reply- (compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| 0 - 1% | 5 | |
| 1 - 5% | 8 | |

Europa - IPM - Consultation http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts 5% and above 7 **II. CURRENT INNOVATION * NEEDS** In this section we are interested in your opinion about the different factors which can foster innovation capacities of your company at local and regional level. * Innovation includes developing and commercialising new products, as well making improvements to existing products, services, production or business processes. 6. Are the following stakeholders of any importance to the innovation capacity of your company? Suppliers or customers in your country -single choice reply- (compulsory) Requested records No importance Little importance Medium importance High importance 5 Suppliers and customers from the WBC region -single choice reply- (compulsory) **Requested records** No importance Little importance Medium importance High importance International suppliers and customers outside the WB region -single choice reply- (compulsory) **Requested records** No importance Little importance Medium importance High importance Employees in your enterprise or enterprise group -single choice reply- (compulsory) **Requested records** 20 No importance Little importance Medium importance High importance Universities and colleges -single choice reply- (compulsory) **Requested records** 20 No importance 1 Little importance Medium importance High importance

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http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

| esearch institutes -single choice reply- | (compulsory) |
|--|--------------|
| Requested records | 20 |
| No importance | 2 |
| Little importance | 7 |
| Medium importance | 7 |
| High importance | 4 |

Consultants and professional service firms -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 7 |
| Medium importance | 10 |
| High importance | 3 |

Business incubators or entrepreneurship centres financed by the government -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 2 |
| Little importance | 6 |
| Medium importance | 7 |
| High importance | 5 |

Professional and industrial associations -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 3 |
| Medium importance | 12 |
| High importance | 5 |

Cluster networks -single choice reply- (compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| No importance | 1 | |
| Little importance | 8 | |
| Medium importance | 7 | |
| High importance | 4 | |

Institutions such as Chamber of Commerce & Development Agencies -single choice reply- (compulsory)

 Requested records
 20

 No importance
 3

 Little importance
 4

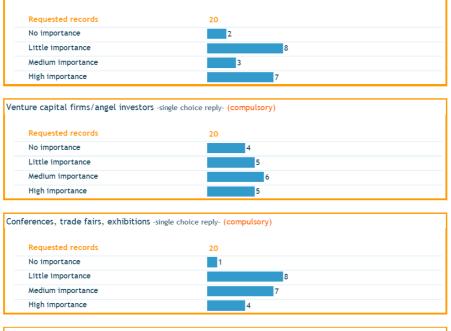
 Medium importance
 7

 High importance
 6

Banks -single choice reply- (compulsory)

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| her -single choice reply- (optional) | | |
|---|----|--|
| Requested records | 20 | |
| No importance | 0 | |
| Little importance | 4 | |
| Medium importance | 3 | |
| High importance | 0 | |

7. According to literature, cooperation of companies with universities and research institutes is crucial for innovation performance. In your opinion, which of the following actions are important for improving cooperation between your company and the research sector?

| Requested records | 20 |
|-------------------|----|
| No importance | 3 |
| Little importance | 5 |
| Medium importance | 8 |
| High importance | 4 |

 Requested records
 20

 No importance
 3

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http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

| Little importance | 4 |
|-------------------|---|
| Medium importance | 8 |
| High importance | 5 |
| | |

More funding for knowledge/technology transfer activities and expert consultations -single choice reply-(compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 3 |
| Little importance | 0 |
| Medium importance | 8 |
| High importance | 9 |

More funding for collaborative research between universities and businesses -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 1 |
| Little importance | 1 |
| Medium importance | 4 |
| High importance | 14 |

Easy access to professional technology transfer officers (or similar staff) -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 1 |
| Little importance | 3 |
| Medium importance | 8 |
| High importance | 8 |

Greater understanding by researchers of the needs of business companies and industry -single choice reply-(compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 1 |
| Little importance | 0 |
| Medium importance | 11 |
| High importance | 8 |

Better mobility (exchange) of researchers between universities and industry -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 1 |
| Little importance | 3 |
| Medium importance | 9 |
| High importance | 7 |

Greater understanding by researchers of intellectual property rights (IPR) and its implications -single choice reply- (compulsory)

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| e choice reply- <mark>(compulsory)</mark> |
|---|
| echoice reply- (compulsory) |
| e choice reply- (compulsory) |
| e choice reply- <mark>(compulsory)</mark> |
| |
| |
| |
| |
| |
| |
| |
| Ilsory) |
| |

| Requested records | 20 | |
|-------------------|----|--|
| No importance | 2 | |
| Little importance | 1 | |
| Medium importance | 7 | |
| High importance | 10 | |

Creation of specialised large-scale programmes for cooperation of companies and research institutions with a wider impact on economic and technological development (e.g. technology platforms, joint technological/industrial activities) -single choice reply- (compulsory) Requested records 20 No importance 2 Little importance 3 Medium importance 9

6

8. Regional innovation cooperation could be beneficial for your company and the whole WB region. Please estimate the importance of the following factors in improving regional cooperation.



High importance

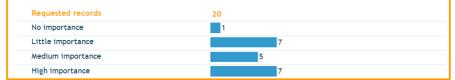
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High importance

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

The availability of top managers with the qualifications your business requires - in the region -single choice reply- (compulsory)

6



The availability of scientists and engineers with the qualifications your business requires - in the region -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 2 |
| Little importance | 5 |
| Medium importance | 8 |
| High importance | 5 |

The availability of information technology professionals with the qualifications your business requires - in the region -single choice reply- (compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| No importance | 1 | |
| Little importance | 8 | |
| Medium importance | 7 | |
| High importance | 4 | |

The overall quality of the technical universities and colleges in the region -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 7 |
| Medium importance | 7 |
| High importance | 6 |

The availability of college and university apprenticeship/ internship programs in the region -single choice reply-(compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| No importance | 2 | |
| Little importance | 6 | |
| Medium importance | 8 | |
| High importance | 4 | |

The effectiveness of regional programmes to train entrepreneurs -single choice reply- (compulsory)

 Requested records
 20

 No importance
 1

 Little importance
 5

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Submission Date: October 31, 2011

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

Medium importance 10 High importance 4 The improvements of foreign languages proficiencies -single choice reply- (compulsory) Requested records 20 No importance 1 Little importance Medium importance High importance ENTREPRENEURSHIP INFRASTRUCTURE: The cost of doing business in the WBC region (specifically, the cost of real estate, wages and salaries, and utilities) -single choice reply- (compulsory) **Requested records** 20 No importance . Little importance Medium importance High importance The overall quality of the region's communications Infrastructure (e.g., telephone, wireless, high-speed internet) -single choice reply- (compulsory) **Requested** records No importance Little importance Medium importance High importance The overall quality of the region's energy supply -single choice reply- (compulsory) Requested records No importance Little importance Medium importance High importance The overall quality of the region's transportation (e.g., roads, air transport, railroads and ports) -single choice reply- (compulsory) Requested records No importance Little importance Medium importance High importance Enhancing the level of entrepreneurial motivation in the region -single choice reply- (compulsory) Requested records 20 No importance 1

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http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

| Little importance | 6 |
|-------------------|---|
| Medium importance | 9 |
| High importance | 4 |

Availability of the regional business assistance and services (e.g. marketing, accounting, etc.) -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 7 |
| Medium importance | 10 |
| High importance | 3 |

Availability of the regional export promotion agencies -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 7 |
| Medium importance | 10 |
| High importance | 3 |

EXPERT ASSISTANCE AND COOPERATION WITH UNIVERSITIES:

Overall quality of technical assistance offered by colleges and universities to businesses in the region -single choice reply- (compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| No importance | 0 | |
| Little importance | 5 | |
| Medium importance | 11 | |
| High importance | 4 | |

Strengthening the interest of universities for cooperation with businesses in the region -single choice reply-(compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 4 |
| Medium importance | 7 |
| High importance | 9 |

Strengthening the interest of business for cooperation with universities in the region -single choice reply-(compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| No importance | 1 | |
| Little importance | 3 | |
| Medium importance | 7 | |
| High importance | 9 | |

The overall quality of R&D collaboration between businesses and college/university researchers in the region -single choice reply- (compulsory)

Europa - IPM - Consultation

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

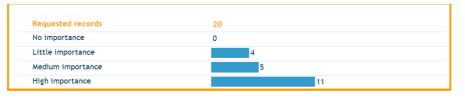
| Requested records | 20 |
|---|---|
| No importance | 1 |
| Little importance | 0 |
| Medium importance | 9 |
| High importance | 10 |
| | |
| rengthening the institutions like un Ny- (compulsory) | iversity science parks, technology transfer centers, etcsingle choice |
| Requested records | 20 |
| No importance | 1 |
| Little importance | 6 |
| Medium importance | 6 |
| High importance | 7 |
| | |
| No importance | 0 |
| No importance | 0 |
| No importance Little importance | 0 5 |
| Little importance Medium importance | |
| Little importance | 5 |
| Little importance Medium importance | 5 7 8 |
| Little importance Medium importance High importance | 5 7 8 |
| Little importance Medium importance High importance wering the interest rates -single choi | 5 7 8 ice reply- (compulsory) |
| Little importance Medium importance High importance wering the interest rates -single choo Requested records | 5 7 8 ice reply- (compulsory) 20 0 5 |
| Little importance Medium importance High importance wering the interest rates -single choo Requested records No importance | 5 7 8 ice reply- (compulsory) 20 0 |
| Little importance Medium importance High importance wering the interest rates -single chor Requested records No importance Little importance | 5 7 8 ice reply- (compulsory) 20 0 5 |
| Little importance Medium importance High importance wering the interest rates -single chor Requested records No importance Little importance Medium importance | 5 7 8 ice reply- (compulsory) 20 0 5 4 |
| Little importance Medium importance High importance wering the interest rates -single chor Requested records No importance Little importance Medium importance High importance | 5 7 8 ice reply- (compulsory) 20 0 5 4 |
| Little importance Medium importance High importance wering the interest rates -single chor Requested records No importance Little importance Medium importance High importance | 5 7 8 ice reply- (compulsory) 20 0 5 4 11 |
| Little importance Medium importance High importance wering the interest rates -single chor Requested records No importance Little importance Medium importance High importance e availability of risk/investment ca | 5 7 8 ice reply- (compulsory) 20 0 5 4 11 11 |
| Little importance Medium importance High importance wering the interest rates -single choir Requested records No importance Little importance High importance High importance e availability of risk/investment car Requested records | 5 7 8 ice reply- (compulsory) 20 0 5 4 11 11 pital in the region -single choice reply- (compulsory) 20 |
| Little importance Medium importance High importance wering the interest rates -single choir Requested records No importance Little importance Medium importance High importance e availability of risk/investment ca Requested records No importance | 5 7 8 ice reply- (compulsory) 20 0 5 4 11 apital in the region -single choice reply- (compulsory) 20 0 |

The availability of regional subsidies and programmes for innovation -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 3 |
| Medium importance | 6 |
| High importance | 11 |

Harmonisation and reduction of tax incentives for innovation (relative to other regions) -single choice reply-(compulsory) Europa - IPM - Consultation

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts



Harmonisation and reduction of personal income tax (labour costs, social security, etc.) (relative to other regions) -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 5 |
| Medium importance | 6 |
| High importance | 9 |

STATE AND LOCAL ADMINISTRATIVE REGULATIONS:

Improvements of state and local administrative burdens and permitting procedures for regional cooperation -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 4 |
| Medium importance | 4 |
| High importance | 12 |

Improvements and harmonisation of labour market regulation at the regional level -single choice reply-(compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 6 |
| Medium importance | 6 |
| High importance | 8 |

Access to other markets of the WB region -single choice reply- (compulsory)

 Requested records
 20

 No importance
 0

 Little importance
 5

 Medium importance
 5

 High importance
 10

Improvements and harmonisation of the technology transfer regulation (Intellectual property rights) -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 0 |
| Little importance | 4 |
| Medium importance | 6 |
| High importance | 10 |

Europa - IPM - Consultation

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

| Com | mon regional measures against corruption in | state and local administration -single choice reply- (compulsory) |
|-----|---|---|
| | Requested records | 20 |
| | No importance | 0 |
| | Little importance | 4 |
| | Medium importance | 5 |
| | High importance | 11 |

9. Please, estimate the importance of the following outcomes of the possible regional cooperation

| Requested records | 20 | |
|-------------------|----|--|
| No importance | 1 | |
| Little importance | 1 | |
| Medium importance | 7 | |

The availability of the regional financial initiatives (e.g. Regional Investments Bank, e.g. Western Balkan Investments Fund) -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 2 |
| Little importance | 0 |
| Medium importance | 6 |
| High importance | 12 |

Lower costs of doing business - increase of the firm's efficiency (e.g. the cost of real estate, utilities, lower labour costs, etc. -single choice reply- (compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| No importance | 1 | |
| Little importance | 1 | |
| Medium importance | 7 | |
| High importance | 11 | |

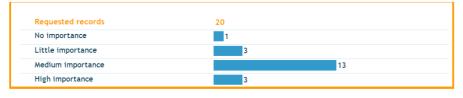
Consistent legal framework aimed at facilitating foreign direct investments in the WB region -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 1 |
| Little importance | 0 |
| Medium importance | 10 |
| High importance | 9 |

The access to colleges/universities available in the region for innovation development -single choice reply-(compulsory)

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http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts



Mobility of skilled workers in the region -single choice reply- (compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| No importance | 1 | |
| Little importance | 6 | |
| Medium importance | 8 | |
| High importance | 5 | |

Mobility of engineers and researchers in the region -single choice reply- (compulsory)

| Requested records | 20 |
|-------------------|----|
| No importance | 1 |
| Little importance | 5 |
| Medium importance | 10 |
| High importance | 4 |

Mobility of managers in the region -single choice reply- (compulsory)

| Requested records | 20 | |
|-------------------|----|----|
| No importance | 1 | |
| Little importance | 2 | |
| Medium importance | | 14 |
| High importance | 3 | |

| Other -single choice reply- (optional) | | |
|--|----|--|
| Requested records | 20 | |
| No importance | 3 | |
| Little importance | 1 | |
| Medium importance | 3 | |
| High importance | 0 | |

| Requested records | 20 | |
|-------------------|----|--|
| Low | 0 | |
| Medium | 3 | |
| High | 1 | |

20

Requested records

Europa - IPM - Consultation

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

| Low | 0 | |
|---|-----------------|--|
| Medium | 1 | |
| High | 0 | |
| | | |
| rtance (3) -single choice reply- | (optional) | |
| rtance (3) -single choice reply- Requested records | (optional) | |
| | (optional) 0 | |
| | | |

11. Please, rank the importance of the following regional innovation actions for improving the innovation performance of your company Please, rank it by marks where 1 - is the highest importance and 12 - is least importance

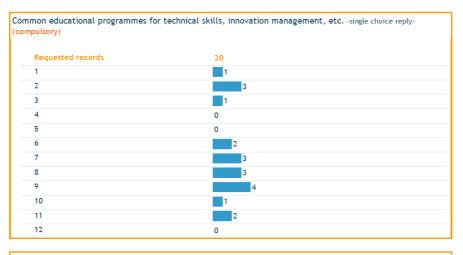
| nting a joint financing programme for innovation development at the regional level -single choice reply npulsory) | | |
|--|----|--|
| Requested records | 20 | |
| 1 | 4 | |
| 2 | 2 | |
| 3 | 3 | |
| 4 | 1 | |
| 5 | 2 | |
| 6 | 2 | |
| 7 | 2 | |
| 8 | 0 | |
| 9 | 0 | |
| 10 | 0 | |
| 11 | 1 | |
| 12 | 3 | |

Common large scale technology programmes (e.g. technology platforms, joint technological/industrial activities) -single choice reply- (compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| 1 | 4 | |
| 2 | 1 | |
| 3 | 1 | |
| 4 | 2 | |
| 5 | 2 | |
| 6 | 2 | |
| 7 | 1 | |
| 8 | 2 | |
| 9 | 2 | |
| 10 | 3 | |
| 11 | 0 | |
| 12 | 0 | |

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Europa - IPM - Consultation
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http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts



Common apprentice (trainee) programmes of young experts -single choice reply- (compulsory)

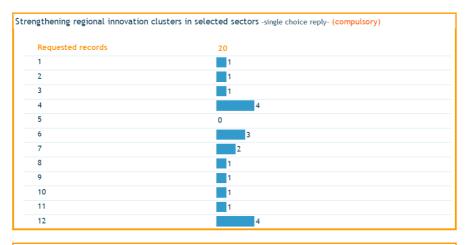
| Requested records | 20 | |
|-------------------|----|--|
| 1 | 0 | |
| 2 | 4 | |
| 3 | 0 | |
| 4 | 1 | |
| 5 | 1 | |
| 6 | 0 | |
| 7 | 2 | |
| 8 | 5 | |
| 9 | 1 | |
| 10 | 3 | |
| 11 | 1 | |
| 12 | 2 | |

Common programmes for mobility of personnel in the region between universities and business to establish cooperation between science and industry -single choice reply- (compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| 1 | 1 | |
| 2 | 0 | |
| 3 | 2 | |
| 4 | 3 | |
| 5 | 1 | |
| 6 | 1 | |
| 7 | 3 | |
| 8 | 2 | |
| 9 | 3 | |
| 10 | 1 | |
| 11 | 2 | |
| 12 | 1 | |

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Europa - IPM - Consultation
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http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts



Consistent legal framework aimed at facilitating foreign direct investments in the WB region -single choice reply- (compulsory)

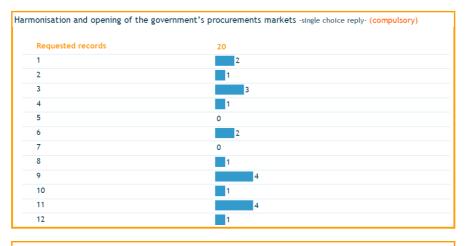
| Requested records | 20 | |
|-------------------|----|--|
| 1 | 0 | |
| 2 | 1 | |
| 3 | 1 | |
| 4 | 0 | |
| 5 | 4 | |
| 6 | 4 | |
| 7 | 2 | |
| 8 | 0 | |
| 9 | 3 | |
| 10 | 3 | |
| 11 | 2 | |
| 12 | 0 | |

A progressive liberalisation and mutual opening of the service market within the WB region -single choice reply-(compulsory)

| Requested records | 20 | |
|-------------------|----|--|
| 1 | 1 | |
| 2 | 1 | |
| 3 | 0 | |
| 4 | 0 | |
| 5 | 3 | |
| 6 | 2 | |
| 7 | 2 | |
| 8 | 4 | |
| 9 | 0 | |
| 10 | 1 | |
| 11 | 2 | |
| 12 | 4 | |

Europa - IPM - Consultation

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts



| Requested records | 20 | |
|-------------------|----|--|
| 1 | 4 | |
| 2 | 1 | |
| 3 | 2 | |
| 4 | 3 | |
| 5 | 3 | |
| 6 | 0 | |
| 7 | 0 | |
| 8 | 1 | |
| 9 | 1 | |
| 10 | 3 | |
| 11 | 0 | |

| Requested records | 20 | |
|-------------------|----|--|
| 1 | 0 | |
| 2 | 3 | |
| 3 | 2 | |
| 4 | 3 | |
| 5 | 3 | |
| 6 | 2 | |
| 7 | 1 | |
| 8 | 1 | |
| 9 | 1 | |
| 10 | 1 | |
| 11 | 2 | |

Joint regional approach towards international institutions and funding programmes (e.g World Bank) and EU programs -single choice reply- (compulsory)

Europa - IPM - Consultation

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

| Requested records | 20 | |
|-------------------|----|--|
| 1 | 2 | |
| 2 | 2 | |
| 3 | 4 | |
| 4 | 2 | |
| 5 | 1 | |
| 6 | 0 | |
| 7 | 2 | |
| 8 | 0 | |
| 9 | 0 | |
| 10 | 2 | |
| 11 | 3 | |
| 12 | 2 | |

III. FUTURE INNOVATION NEEDS

In this section you are asked to name and describe an innovation idea and outline both research and policies needed to enable this innovation idea to flourish by 2030

IV. CONFIDENTIALITY

The completed questionnaires will be coded and used for analysis by the WBC.INCO-NET project and only the aggregate results will be publicly available. No individual company's responses will be published and no data will be released in any way that permits ranking of institutions.

You should provide us with personal information which shall remain confidential from other participants of the survey in case you would like to (please tick):

| receive the results of the survey -mul | ltiple choices reply- (optional) | |
|--|--|--------------------------|
| Requested records | 20 | |
| tick here | | 16 |
| | of the project, if possible (i.e. workshops); -multiple of | hoices reply- (optional) |
| Requested records | 20 | |
| tick here | 14 | |
| | | |
| be listed in the report as a partic | cipating company in the survey -multiple choices reply- (| optional) |
| o be listed in the report as a partic Requested records | cipating company in the survey -multiple choices reply- (| optional) |

Appendix 4: results of second questionnaire targeted at research stakeholders

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http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

Response charts for 'Survey for a research and innovation agenda for the WBC region'

Current search:

Query definition

All data requested

Result pages

There are 79 responses matching your criteria of a total of 79 records in the current set of data.

- Expand all Collapse all
- [○] Sorted answers [●] Original order

I. GENERAL INFORMATION

In this section, we are interested in some general features of your company

| Requested records | 79 |
|-----------------------|----|
| Albania | 12 |
| Bosnia & Herzegovina | 9 |
| Croatia | 11 |
| FYR Macedonia | 17 |
| Kosovo / UN Res. 1244 | 0 |
| Montenegro | 4 |
| Serbia | 23 |

2. Type of your organisation -single choice reply- (compulsory)

| 1. Scientific institute | 15 |
|--|----|
| | 15 |
| University/Higher education institution | 38 |
| Technology supporting institution (e.g. technology transfer center, technology park) | 2 |
| 4. Business supporting institution (e.g. business incubator, entrepreneurial centre) | 2 |
| 5. Regional/local development agency | 0 |
| 6. Public administration | 6 |
| 7. Non-governmental organisation (NGO) | 6 |
| 8. Private company | 6 |
| 9. Other | 4 |
| | |
| which field do you work? | |

79

Requested records

Europa - IPM - Consultation

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

| 1. Energy | 4 |
|------------------------------|----|
| 2. Agro & Food | 16 |
| 3. Environment | 6 |
| 4. Health | 3 |
| 5. ICTs | 11 |
| 6. Transport | 6 |
| 7. Social and human sciences | 9 |
| 8. Economic sciences | 4 |
| 9. Natural sciences | 5 |
| 10. Business and management | 7 |
| 11. Other | 8 |

II. INNOVATION AND COLLABORATION NEEDS

4. According to literature, cooperation of companies with universities and research institutes is crucial for innovations. Please estimate the importance of the following actions for improving cooperation between companies and the research sector in your country, both today and in 2030.

Please select two options per row being one for today and one for 2030

| Requested records | 79 | |
|---------------------------|----|--|
| No importance (TODAY) | 2 | |
| Little importance (TODAY) | 13 | |
| Medium importance (TODAY) | 12 | |
| High importance (TODAY) | 34 | |
| No importance (2030) | 0 | |
| Little importance (2030) | 4 | |

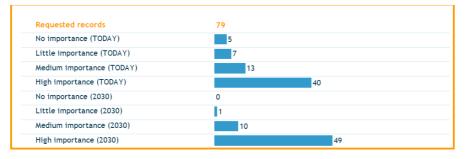
Organization of specialized training courses by universities for the needs of industrial sectors and companies -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 6 |
| Little importance (TODAY) | 9 |
| Medium importance (TODAY) | 17 |
| High importance (TODAY) | 34 |
| No importance (2030) | 1 |
| Little importance (2030) | 3 |
| Medium importance (2030) | 18 |
| High importance (2030) | 38 |

More funding for knowledge/technology transfer activities and expert consultations -multiple choices reply-(optional)

Europa - IPM - Consultation

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts



More funding for collaborative research between universities and businesses -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 4 |
| Little importance (TODAY) | 9 |
| Medium importance (TODAY) | 10 |
| High importance (TODAY) | 39 |
| No importance (2030) | 0 |
| Little importance (2030) | 2 |
| Medium importance (2030) | 12 |
| High importance (2030) | 46 |

Easy access to professional technology transfer officers (or similar staff) -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 7 |
| Little importance (TODAY) | 14 |
| Medium importance (TODAY) | 19 |
| High importance (TODAY) | 22 |
| No importance (2030) | 2 |
| Little importance (2030) | 3 |
| Medium importance (2030) | 23 |
| High importance (2030) | 30 |

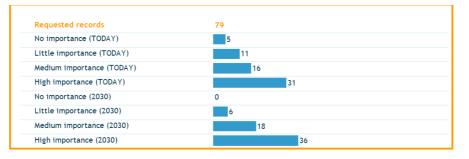
Greater understanding by researchers of the needs of business companies and industry -multiple choices reply-(optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 3 |
| Little importance (TODAY) | 11 |
| Medium importance (TODAY) | 18 |
| High importance (TODAY) | 28 |
| No importance (2030) | 0 |
| Little importance (2030) | 4 |
| Medium importance (2030) | 25 |
| High importance (2030) | 31 |

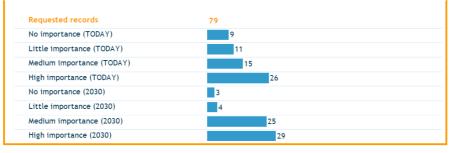
Better mobility (exchange) of researchers between universities and industry -multiple choices reply- (optional)

Europa - IPM - Consultation

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts



Greater understanding by researchers of intellectual property rights (IPR) and its implications -multiple choices reply- (optional)



Financial incentives for university staff which cooperate with companies -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 6 |
| Little importance (TODAY) | 7 |
| Medium importance (TODAY) | 20 |
| High importance (TODAY) | 27 |
| No importance (2030) | 1 |
| Little importance (2030) | 6 |
| Medium importance (2030) | 26 |
| High importance (2030) | 25 |

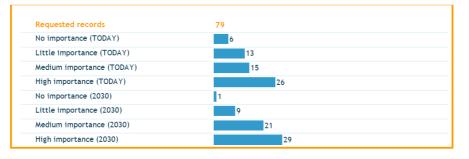
Establishing of university incubators or science parks -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 9 |
| Little importance (TODAY) | 5 |
| Medium importance (TODAY) | 22 |
| High importance (TODAY) | 23 |
| No importance (2030) | 1 |
| Little importance (2030) | 5 |
| Medium importance (2030) | 25 |
| High importance (2030) | 29 |

Development of local partnership/inclusion of universities in clusters or business associations -multiple choices reply- (optional)

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Creation of specialised large-scale programmes for cooperation of companies and research institutions with a wider impact on economic and technological development (e.g. technology platforms, joint technological/industrial activities) -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 8 |
| Little importance (TODAY) | 12 |
| Medium importance (TODAY) | 10 |
| High importance (TODAY) | 26 |
| No importance (2030) | 2 |
| Little importance (2030) | 7 |
| Medium importance (2030) | 16 |
| High importance (2030) | 29 |

| Requested records | 79 | |
|---------------------------|----|--|
| No importance (TODAY) | 0 | |
| Little importance (TODAY) | 0 | |
| Medium importance (TODAY) | 3 | |
| High importance (TODAY) | 5 | |
| No importance (2030) | 1 | |
| Little importance (2030) | 0 | |
| Medium importance (2030) | 2 | |

5. Regional innovation cooperation could be beneficial for your organisation and the whole WB region. Please estimate the importance of the following factors in improving regional cooperation, both today and in 2030. *Please select two options per row being one for today and one for 2030*

| HUMAN RESOURCES: The availability of workers with the sk (optional) | ills your organisation requires - in the region -multiple choices reply- |
|---|--|
| Requested records | 79 |
| No importance (TODAY) | 1 |
| Little importance (TODAY) | 14 |

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| Medium importance (TODAY) | 21 |
|---------------------------|----|
| High importance (TODAY) | 27 |
| No importance (2030) | 0 |
| Little importance (2030) | 1 |
| Medium importance (2030) | 18 |
| High importance (2030) | 42 |

The availability of top managers with the qualifications your organisation requires - in the region -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 2 |
| Little importance (TODAY) | 16 |
| Medium importance (TODAY) | 15 |
| High importance (TODAY) | 29 |
| No importance (2030) | 0 |
| Little importance (2030) | 4 |
| Medium importance (2030) | 20 |
| High importance (2030) | 33 |

The availability of scientists and engineers with the qualifications your organisation requires - in the region -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 1 |
| Little importance (TODAY) | 9 |
| Medium importance (TODAY) | 17 |
| High importance (TODAY) | 34 |
| No importance (2030) | 0 |
| Little importance (2030) | 1 |
| Medium importance (2030) | 8 |
| High importance (2030) | 46 |

The availability of information technology professionals with the qualifications your organisation requires - in the region -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 2 |
| Little importance (TODAY) | 12 |
| Medium importance (TODAY) | 18 |
| High importance (TODAY) | 28 |
| No importance (2030) | 0 |
| Little importance (2030) | 6 |
| Medium importance (2030) | 14 |
| High importance (2030) | 34 |

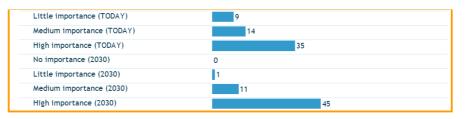
The overall quality of the technical universities and colleges in the region -multiple choices reply- (optional)

 Requested records
 79

 No importance (TODAY)
 1

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The availability of college and university apprenticeship/ internship programs in the region -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 5 |
| Little importance (TODAY) | 7 |
| Medium importance (TODAY) | 20 |
| High importance (TODAY) | 28 |
| No importance (2030) | 1 |
| Little importance (2030) | 2 |
| Medium importance (2030) | 21 |
| High importance (2030) | 33 |

The effectiveness of regional programmes to train entrepreneurs -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 3 |
| Little importance (TODAY) | 15 |
| Medium importance (TODAY) | 19 |
| High importance (TODAY) | 22 |
| No importance (2030) | 0 |
| Little importance (2030) | 6 |
| Medium importance (2030) | 23 |
| High importance (2030) | 27 |

The improvements of foreign languages proficiencies -multiple choices reply- (optional)

| Requested records | 79 | |
|---------------------------|----|--|
| No importance (TODAY) | 2 | |
| Little importance (TODAY) | 9 | |
| Medium importance (TODAY) | 18 | |
| High importance (TODAY) | 32 | |
| No importance (2030) | 0 | |
| Little importance (2030) | 6 | |
| Medium importance (2030) | 17 | |
| High importance (2030) | 33 | |

ENTREPRENEURSHIP INFRASTRUCTURE:

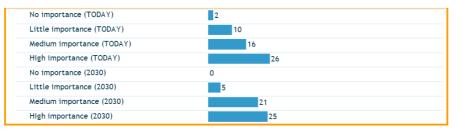
The cost of doing business in the WBC region (specifically, the cost of real estate, wages and salaries, and utilities) -multiple choices reply- (optional)

Requested records

79

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The overall quality of the region's communications Infrastructure (e.g., telephone, wireless, high-speed internet) -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 0 |
| Little importance (TODAY) | 7 |
| Medium importance (TODAY) | 19 |
| High importance (TODAY) | 30 |
| No importance (2030) | 0 |
| Little importance (2030) | 3 |
| Medium importance (2030) | 12 |
| High importance (2030) | 39 |

The overall quality of the region's energy supply -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 3 |
| Little importance (TODAY) | 5 |
| Medium importance (TODAY) | 16 |
| High importance (TODAY) | 32 |
| No importance (2030) | 2 |
| Little importance (2030) | 0 |
| Medium importance (2030) | 18 |
| High importance (2030) | 32 |

The overall quality of the region's transportation (e.g., roads, air transport, railroads and ports) -multiple choices reply- (optional)

| Requested records | 79 | |
|---------------------------|----|--|
| No importance (TODAY) | 3 | |
| Little importance (TODAY) | 9 | |
| Medium importance (TODAY) | 11 | |
| High importance (TODAY) | 33 | |
| No importance (2030) | 1 | |
| Little importance (2030) | 2 | |
| Medium importance (2030) | 17 | |
| High importance (2030) | 34 | |

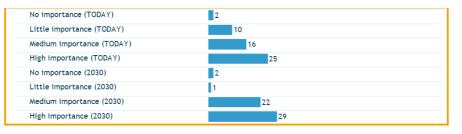
Enhancing the level of entrepreneurial motivation in the region -multiple choices reply- (optional)

79

Requested records

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| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 2 |
| Little importance (TODAY) | 15 |
| Medium importance (TODAY) | 21 |
| High importance (TODAY) | 18 |
| No importance (2030) | 2 |
| Little importance (2030) | 5 |
| Medium importance (2030) | 22 |
| High importance (2030) | 24 |

Availability of the regional export promotion agencies -multiple choices reply- (optional)

| Requested records | 79 | |
|---------------------------|----|--|
| No importance (TODAY) | 3 | |
| Little importance (TODAY) | 18 | |
| Medium importance (TODAY) | 17 | |
| High importance (TODAY) | 17 | |
| No importance (2030) | 1 | |
| Little importance (2030) | 7 | |
| Medium importance (2030) | 24 | |
| High importance (2030) | 19 | |

EXPERT ASSISTANCE AND COOPERATION WITH UNIVERSITIES:

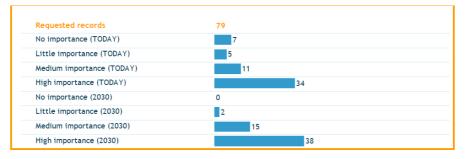
Overall quality of technical assistance offered by colleges and universities to businesses in the region -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 3 |
| Little importance (TODAY) | 9 |
| Medium importance (TODAY) | 13 |
| High importance (TODAY) | 27 |
| No importance (2030) | 2 |
| Little importance (2030) | 1 |
| Medium importance (2030) | 19 |
| High importance (2030) | 34 |

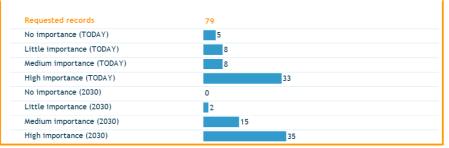
Strengthening the interest of universities for cooperation with businesses in the region -multiple choices reply-(optional)

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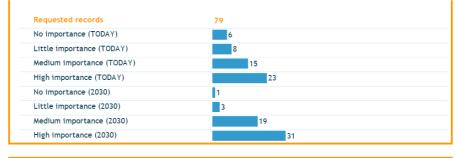
Strengthening the interest of business for cooperation with universities in the region -multiple choices reply-(optional)



The overall quality of R&D collaboration between businesses and college/university researchers in the region -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 5 |
| Little importance (TODAY) | 12 |
| Medium importance (TODAY) | 8 |
| High importance (TODAY) | 29 |
| No importance (2030) | 1 |
| Little importance (2030) | 1 |
| Medium importance (2030) | 17 |
| High importance (2030) | 36 |

Strengthening the institutions like university science parks, technology transfer centers, etc. -multiple choices reply- (optional)

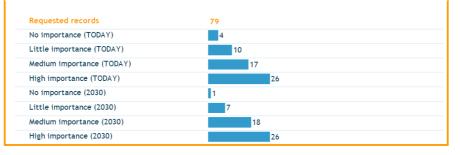


FISCAL AND FINANCIAL OBSTACLES:

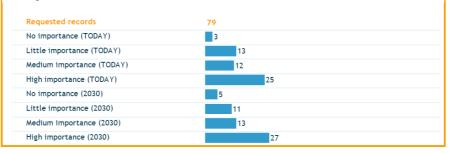
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The availability of loans and capital from the banks in the region -multiple choices reply- (optional)



Lowering the interest rates -multiple choices reply- (optional)



The availability of risk/investment capital in the region -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 4 |
| Little importance (TODAY) | 11 |
| Medium importance (TODAY) | 14 |
| High importance (TODAY) | 25 |
| No importance (2030) | 2 |
| Little importance (2030) | 5 |
| Medium importance (2030) | 17 |
| High importance (2030) | 27 |

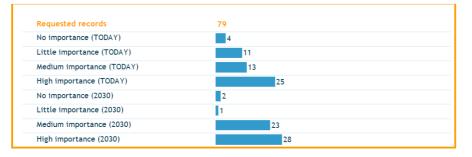
The availability of regional subsidies and programmes for innovation -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 8 |
| Little importance (TODAY) | 7 |
| Medium importance (TODAY) | 13 |
| High importance (TODAY) | 27 |
| No importance (2030) | 0 |
| Little importance (2030) | 4 |
| Medium importance (2030) | 13 |
| High importance (2030) | 34 |

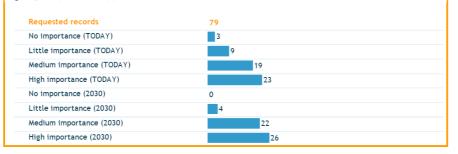
Harmonisation and reduction of tax incentives for innovation (relative to other regions) -multiple choices reply-(optional)

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Harmonisation and reduction of personal income tax (labour costs, social security, etc.) (relative to other regions) -multiple choices reply- (optional)



STATE AND LOCAL ADMINISTRATIVE REGULATIONS:

Improvements of state and local administrative burdens and permitting procedures for regional cooperation -multiple choices reply- (optional)

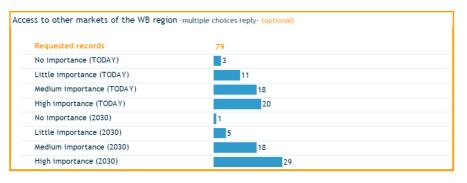
| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 4 |
| Little importance (TODAY) | 8 |
| Medium importance (TODAY) | 9 |
| High importance (TODAY) | 34 |
| No importance (2030) | 1 |
| Little importance (2030) | 4 |
| Medium importance (2030) | 17 |
| High importance (2030) | 33 |

Improvements and harmonisation of labour market regulation at the regional level -multiple choices reply-(optional)

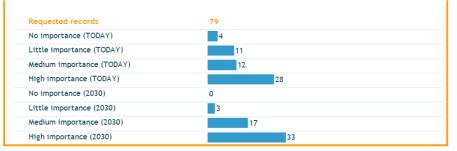
| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 4 |
| Little importance (TODAY) | 11 |
| Medium importance (TODAY) | 14 |
| High importance (TODAY) | 27 |
| No importance (2030) | 1 |
| Little importance (2030) | 4 |
| Medium importance (2030) | 16 |
| High importance (2030) | 31 |

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Improvements and harmonisation of the technology transfer regulation (Intellectual property rights) -multiple choices reply- (optional)



Common regional measures against corruption in state and local administration -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 4 |
| Little importance (TODAY) | 11 |
| Medium importance (TODAY) | 6 |
| High importance (TODAY) | 31 |
| No importance (2030) | 2 |
| Little importance (2030) | 1 |
| Medium importance (2030) | 16 |
| High importance (2030) | 35 |

| THER -multiple choices reply- (optional) | | |
|---|----|--|
| Requested records | 79 | |
| No importance (TODAY) | 0 | |
| Little importance (TODAY) | 0 | |
| Medium importance (TODAY) | 0 | |
| High importance (TODAY) | 4 | |
| No importance (2030) | 2 | |
| Little importance (2030) | 0 | |
| Medium importance (2030) | 1 | |
| High importance (2030) | 4 | |

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6. Please, estimate the importance of the following outcomes of the possible regional innovation cooperation, both today and in 2030. Please select two options per row being one for today and one for 2030

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 1 |
| Little importance (TODAY) | 11 |
| Medium importance (TODAY) | 17 |
| High importance (TODAY) | 28 |
| No importance (2030) | 0 |
| Little importance (2030) | 1 |
| Medium importance (2030) | 20 |

The availability of the regional financial initiatives (e.g. Regional Investments Bank, e.g. Western Balkan Investments Fund) -multiple choices reply- (optional)

| Requested records | 79 | |
|---------------------------|----|--|
| No importance (TODAY) | 3 | |
| Little importance (TODAY) | 11 | |
| Medium importance (TODAY) | 9 | |
| High importance (TODAY) | 29 | |
| No importance (2030) | 1 | |
| Little importance (2030) | 3 | |
| Medium importance (2030) | 19 | |
| High importance (2030) | 29 | |

Lower costs of doing business - increase of the firm's efficiency (e.g. the cost of real estate, utilities, lower labour costs, etc. -multiple choices reply- (optional)

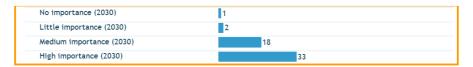
| Requested records | 79 | |
|---------------------------|----|--|
| No importance (TODAY) | 2 | |
| Little importance (TODAY) | 8 | |
| Medium importance (TODAY) | 13 | |
| High importance (TODAY) | 33 | |
| No importance (2030) | 1 | |
| Little importance (2030) | 8 | |
| Medium importance (2030) | 14 | |
| High importance (2030) | 32 | |

Consistent legal framework aimed at facilitating foreign direct investments in the WB region -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 0 |
| Little importance (TODAY) | 10 |
| Medium importance (TODAY) | 14 |
| High importance (TODAY) | 29 |

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The access to colleges/universities available in the region for innovation development -multiple choices reply-

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 0 |
| Little importance (TODAY) | 11 |
| Medium importance (TODAY) | 13 |
| High importance (TODAY) | 30 |
| No importance (2030) | 1 |
| Little importance (2030) | 3 |
| Medium importance (2030) | 19 |
| High importance (2030) | 30 |

Mobility of skilled workers in the region -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 4 |
| Little importance (TODAY) | 9 |
| Medium importance (TODAY) | 16 |
| High importance (TODAY) | 25 |
| No importance (2030) | 0 |
| Little importance (2030) | 7 |
| Medium importance (2030) | 21 |
| High importance (2030) | 27 |

Mobility of engineers and researchers in the region -multiple choices reply- (optional)

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 4 |
| Little importance (TODAY) | 4 |
| Medium importance (TODAY) | 17 |
| High importance (TODAY) | 27 |
| No importance (2030) | 1 |
| Little importance (2030) | 2 |
| Medium importance (2030) | 15 |
| High importance (2030) | 35 |

| Requested records | 79 |
|---------------------------|----|
| No importance (TODAY) | 3 |
| Little importance (TODAY) | 14 |
| Medium importance (TODAY) | 13 |
| High importance (TODAY) | 23 |
| No importance (2030) | 1 |

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| Little importance (2030) | 8 |
|--|----|
| Medium importance (2030) | 17 |
| High importance (2030) | 26 |
| her -multiple choices reply- (optional) | |
| Requested records | 79 |
| No importance (TODAY) | 0 |
| Little importance (TODAY) | 2 |
| Medium importance (TODAY) | 0 |
| High importance (TODAY) | 5 |
| No importance (2030) | 0 |
| Little importance (2030) | 1 |
| Medium importance (2030) | 1 |
| | |

7. Please, rank the importance of the three most important regional innovation actions for improving the innovation activities in your country. Please, select only three today and three in 2030 (tick only one box per column), where (1) is the highest importance, (2) is medium importance and (3) is least importance

| ating a joint financing programme ional) | e for innovation development at the regional level -multiple choices reply- |
|---|---|
| Requested records | 79 |
| 1 (TODAY) | 22 |
| 2 (TODAY) | 10 |
| 3 (TODAY) | 15 |
| 1 (2030) | 15 |
| 2 (2030) | 16 |
| 3 (2030) | 7 |

Common large scale technology programmes (e.g. technology platforms, joint technological/industrial activities) -multiple choices reply- (optional)

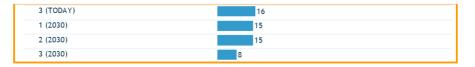
| Requested records | 79 | |
|-------------------|----|--|
| 1 (TODAY) | 13 | |
| 2 (TODAY) | 11 | |
| 3 (TODAY) | 14 | |
| 1 (2030) | 17 | |
| 2 (2030) | 11 | |
| 3 (2030) | 11 | |

Common educational programmes for technical skills, innovation management, etc. -multiple choices reply-(optional)

| Requested records | 79 | |
|-------------------|----|--|
| 1 (TODAY) | 18 | |
| 2 (TODAY) | 9 | |

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Common apprentice (trainee) programmes of young experts -multiple choices reply- (optional)

| Requested records | 79 | |
|-------------------|----|--|
| 1 (TODAY) | 16 | |
| 2 (TODAY) | 9 | |
| 3 (TODAY) | 12 | |
| 1 (2030) | 15 | |
| 2 (2030) | 11 | |
| 3 (2030) | 10 | |

Common programmes for mobility of personnel in the region between universities and business to establish cooperation between science and industry -multiple choices reply- (optional)

| Requested records | 79 | |
|-------------------|----|--|
| 1 (TODAY) | 18 | |
| 2 (TODAY) | 12 | |
| 3 (TODAY) | 11 | |
| 1 (2030) | 20 | |
| 2 (2030) | 10 | |
| 3 (2030) | 7 | |

Strengthening regional innovation clusters in selected sectors -multiple choices reply- (optional)

| Requested records | 79 |
|-------------------|----|
| 1 (TODAY) | 13 |
| 2 (TODAY) | 13 |
| 3 (TODAY) | 13 |
| 1 (2030) | 17 |
| 2 (2030) | 13 |
| 3 (2030) | 13 |

Consistent legal framework aimed at facilitating foreign direct investments in the WB region -multiple choices reply- (optional)

| Requested records | 79 | |
|-------------------|----|--|
| 1 (TODAY) | 19 | |
| 2 (TODAY) | 8 | |
| 3 (TODAY) | 8 | |
| 1 (2030) | 17 | |
| 2 (2030) | 11 | |
| 3 (2030) | 6 | |

A progressive liberalisation and mutual opening of the service market within the WB region -multiple choices reply- (optional)

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| Requested records | 79 | |
|-------------------|----|--|
| 1 (TODAY) | 14 | |
| 2 (TODAY) | 11 | |
| 3 (TODAY) | 8 | |
| 1 (2030) | 16 | |
| 2 (2030) | 11 | |
| 3 (2030) | 7 | |

Harmonisation and opening of the government's procurements markets -multiple choices reply- (optional)

| Requested records | 79 | |
|-------------------|----|--|
| 1 (TODAY) | 12 | |
| 2 (TODAY) | 11 | |
| 3 (TODAY) | 8 | |
| 1 (2030) | 14 | |
| 2 (2030) | 10 | |
| 3 (2030) | 7 | |

Establishing regional venture capital fund -multiple choices reply- (optional)

| Requested records | 79 | |
|-------------------|----|--|
| 1 (TODAY) | 15 | |
| 2 (TODAY) | 8 | |
| 3 (TODAY) | 11 | |
| 1 (2030) | 15 | |
| 2 (2030) | 9 | |
| 3 (2030) | 11 | |

 Requested records
 79

 1 (TODAY)
 16

 2 (TODAY)
 11

 3 (TODAY)
 13

 1 (2030)
 17

 2 (2030)
 12

 3 (2030)
 7

Joint regional approach towards international institutions and funding programmes (e.g World Bank) and EU programs -multiple choices reply- (optional)

| Requested records | 79 | |
|-------------------|----|--|
| 1 (TODAY) | 17 | |
| 2 (TODAY) | 10 | |
| 3 (TODAY) | 16 | |
| 1 (2030) | 16 | |
| 2 (2030) | 10 | |
| 3 (2030) | 9 | |

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| Othe | Other -multiple choices reply- (optional) | | | | |
|------|---|----|--|--|--|
| | Requested records | 79 | | | |
| | 1 (TODAY) | 3 | | | |
| | 2 (TODAY) | 0 | | | |
| | 3 (TODAY) | 0 | | | |
| | 1 (2030) | 5 | | | |
| | 2 (2030) | 0 | | | |
| | 3 (2030) | 0 | | | |

8. Please outline your interest to work in a few research topics/fields and, if so, with whom you would like to collaborate with

Environment surveillance through ICTs: -multiple choices reply- (optional)

| Requested records | 79 | |
|-------------------|----|--|
| Yes (TODAY) | 45 | |
| No (TODAY) | 13 | |
| Yes (2030) | 39 | |
| No (2030) | 14 | |

Automation of information management systems through artificial intelligence and agent based software: -multiple choices reply- (optional)

| Requested records | 79 | |
|-------------------|----|--|
| Yes (TODAY) | 35 | |
| No (TODAY) | 17 | |
| Yes (2030) | 37 | |
| No (2030) | 14 | |

| Selling of goods and services through social networks and on-line data mining: -multiple choices reply- (optional) | | |
|--|----|--|
| Requested records | 79 | |
| Yes (TODAY) | 22 | |
| No (TODAY) | 25 | |
| Yes (2030) | 28 | |
| No (2030) | 21 | |

Legal research to reach an agreement for trade of IT services & product within WB: -multiple choices reply-(optional)

| Requested records | 79 |
|-------------------|----|
| Yes (TODAY) | 24 |
| No (TODAY) | 21 |
| Yes (2030) | 24 |
| No (2030) | 17 |

Research on new approaches and frameworks to enhance FDI and cross-regional investments in the region: -multiple choices reply- (optional)

Europa - IPM - Consultation

-

http://ec.europa.eu/yourvoice/ipm/forms/dispatch?userstate=charts

| Requested records | 79 | |
|-------------------|----|--|
| Yes (TODAY) | 33 | |
| No (TODAY) | 18 | |
| Yes (2030) | 31 | |
| No (2030) | 13 | |

III. CONFIDENTIALITY

The completed questionnaires will be coded and used for analysis by the WBC.INCO-NET project and only the aggregate results will be publicly available. No individual company's responses will be published and no data will be released in any way that permits ranking of institutions.

You should provide us with personal information which shall remain confidential from other participants of the survey in case you would like to (please tick):

| receive the results of the survey -multiple choices reply- (optional) | | | |
|---|---|-----------------|--|
| Requested records | 79 | | |
| tick here | 57 | | |
| participate in the following stages of | the project, if possible (i.e. workshops); -multiple choices re | ply- (optional) | |
| Requested records | 79 | | |
| tick here | 59 | | |
| to be listed in the report as a participating company in the survey -multiple choices reply- (optional) | | | |
| Requested records | 79 | | |
| tick here | 43 | | |