



SLIM Ideas-to-Market Project Report 2: Innovation and Learning Needs of Croatian, Polish and UK SMEs

Sample: 380 companies in Poland, Croatia and the UK

October 2013





DOCUMENT IDENTIFICATION

| NUMBER AND NAME OF THE DELIVERABLE / DOCUMENT | | | | | | | | |
|---|------------------------|-------|------------|--|--|--|--|--|
| WPx Name 2 Version: Final | | | | | | | | |
| Author: | Professor Marina Dabic | Date: | 28.10.2013 | | | | | |

DOCUMENT CHANGE RECORD

| Date | Version | Author | Change Details |
|------------|---------|-------------|-------------------------------|
| 18.10.2013 | 1 | Prof Marina | Prior to proof and formatting |
| | | Dabic | |
| | | | |
| | | | |
| | | | |





Table of Contents

| 1. | Introduction | 4 |
|----|--------------------------------------|----|
| 2. | Sample Characteristics | 4 |
| 3. | Chapter 3 – Innovation | 11 |
| 4. | Chapter 4 – Research and Development | 26 |
| 5. | Chapter 5 – Education and Training | 31 |





1. Introduction

The survey originates from the 'Stimulating Learning for Ideas to Market' (SLIM) project, which is part of the European Leonardo de Vinci 'Lifelong Learning' education and training programme. Its aim is to develop idea-to-market learning for a community of around 400 small businesses from the Republic of Croatia (as the European Union accession country until July 2013), Poland as the European Union recent member state, and the United Kingdom as the established European Union member state. The aim is to generate a comparison of entrepreneurial innovative activities of SMEs in each country. Moreover, the report aims to identify appropriate types of support, training and advice that small businesses need and can use to improve their business. The results of the survey will be used to develop an online course to help small businesses commercialise their ideas, in order to learn from businesses with the best experience as well as providing comparisons that will enable the Republic of Croatia, as the EU accession country, to maximise its educational potential in entrepreneurship.

The survey was performed from 12th May 2013 to 28th May 2013 in the Republic of Croatia and it was made online, in the Croatian language. It was translated from English to Croatian and back to English in order to check for its consistency. It was aimed at entrepreneurs and it was distributed to the internal database of entrepreneurs obtained by the University of Zagreb, FEB Zagreb's SLIM project team as well as the Croatian Chamber of Commerce. In Croatia 213 businesses have completed the survey. Polish sample had 100 respondents and UK 67. There was total of 380 questionnaires. Results are organised in the following fashion: entire sample including all three countries (Croatia, Poland and UK) is presented first, while in depth insight of each country follows accordingly.

2. Sample Characteristics

Industry of the businesses

<u>All</u>

Table 1 and Graph 1 shows distribution of the businesses according to the industrial sectors in which they work. Out of 380 businesses, most of them (84) come from the services sector (23,8%), Manufacturing, 72 (20,4%) and Other, 54 (15,3%), which cover more than 59% of the total sample. Distribution of the entire sample is visible in Table 1.

<u>Croatia</u>

Table 1 and Graph 1 shows distribution of the businesses according to the industry sectors in which they work. Out of the 213 businesses most of them come from the sector of Manufacturing, 47 (22,2%), Services, 46 (21,7%), and Other, 28 (13,2%) which cover more than 57% of the total sample. Distribution of the entire sample is visible in Table 2.





<u>Poland</u>

Table 1 and Graph 1 shows distribution of the businesses according to the industry sectors in which they work. Out of the 100 businesses most of them come from the sector of Services, 24 (24,7%), Manufacturing, 22 (22,7%) and Other, 15 (15,5%) which cover more than 62% of the total sample. Distribution of the entire sample is visible in Table 3.

<u>UK</u>

Table 1 and Graph 1 shows distribution of the businesses according to the industry sectors in which they work. Out of the 67 businesses most of them come from the sector of Services, 14 (31,8%), Other, 11 (25%), Manufacturing, 3 (6,8%), Information technology, 3 (6,8%), Entertainment/Hospitality, 3 (6,8%) and Consulting, 3 (6,8%), which cover 84% of the total sample. Distribution of the entire sample is visible in Table 1.

| Industry sector | All(f) | % | Croatia(f) | % | Poland(f) | % | UK (f) | % |
|---------------------------|--------|-------|------------|-------|-----------|-------|--------|-------|
| Art | 3 | ,8 | 3 | 1,4 | 0 | 0 | 0 | 0 |
| Manufacturing | 72 | 20,4 | 47 | 22,2 | 22 | 22,7 | 3 | 6,8 |
| Information technology | 37 | 10,5 | 24 | 11,3 | 10 | 10,3 | 3 | 6,8 |
| Services | 84 | 23,8 | 46 | 21,7 | 24 | 24,7 | 14 | 31,8 |
| Entertainment/Hospitality | 18 | 5,1 | 12 | 5,7 | 3 | 3,1 | 3 | 6,8 |
| Communication | 1 | ,3 | 0 | 0,0 | 0 | 0,0 | 1 | 2,3 |
| Electronic | 12 | 3,4 | 5 | 2,4 | 6 | 6,2 | 1 | 2,3 |
| Transportation | 6 | 1,7 | 3 | 1,4 | 3 | 3,1 | 0 | 0,0 |
| Software | 13 | 3,7 | 9 | 4,2 | 3 | 3,1 | 1 | 2,3 |
| Healthcare | 9 | 2,5 | 4 | 1,9 | 3 | 3,1 | 2 | 4,5 |
| Consulting | 22 | 6,2 | 15 | 7,1 | 4 | 4,1 | 3 | 6,8 |
| Finance | 10 | 2,8 | 7 | 3,3 | 0 | 0,0 | 0 | 0,0 |
| Non-profit organisation | 5 | 1,4 | 4 | 1,9 | 3 | 3,1 | 1 | 2,3 |
| Energy | 7 | 2,0 | 5 | 2,4 | 1 | 1,0 | 1 | 2,3 |
| Other | 54 | 15,3 | 28 | 13,2 | 15 | 15,5 | 11 | 25,0 |
| Total | 353 | 100,0 | 212 | 100,0 | 97 | 100,0 | 44 | 100,0 |
| Missing | 27 | | 1 | | 3 | | 23 | |
| Total | 380 | | 213 | | 100 | | 67 | |

Table 1. Industry of the businesses

Source: Authors' calculation.

Graph 1. Industry of the businesses







Source: Authors' calculation.

Size of the businesses

<u>All</u>

Table 2 and Graph 2 represent the size of the businesses in the complete sample. 38 businesses have only 1 employee (11,1% of the sample), 146 businesses have between 2 and 10 employees (42,7% of the sample), 109 businesses have between 11 and 50 employees (31,3% of the sample), 40 businesses have between 51 and 250 employees (11,7% of the sample), while 9 businesses have more than 251 employees (2,6% of the sample).

<u>Croatia</u>

Table 2 and Graph 2 represent the size of the businesses in the sample of Croatia. 21 businesses have only 1 employee (10% of the sample), 96 businesses have between 2 and 10 employees (45,5% of the sample), 67 businesses have between 11 and 50 employees (31,8% of the sample), 21 businesses have between 51 and 250 employees (10% of the sample), while 6 businesses have more than 251 employees (2,8% of the sample).

<u>Poland</u>

Table 2 and Graph 2 represent the size of the businesses in the sample of Poland. 6 businesses have only 1 employee (6,8% of the sample), 27 businesses have between 2 and 10 employees (30,7% of the sample), 35 businesses have between 11 and 50 employees (39,8% of the sample), 17 businesses have between 51 and 250 employees (19,3% of the sample), while 3 businesses have more than 251 employees (3,4% of the sample).





Table 2 and Graph 2 represent the size of the businesses in the sample of UK. 11 businesses have only 1 employee (25,6% of the sample), 23 businesses have between 2 and 10 employees (53,5% of the sample), 7 businesses have between 11 and 50 employees (16,3% of the sample), while 2 businesses have between 51 and 250 employees (4,7% of the sample).

Table 2. Size of the business

| Number of employees | All(f) | % | Croatia(f) | % | Poland(f) | % | UK (f) | % |
|------------------------------|--------|-------|------------|-------|-----------|-------|--------|-------|
| 1 employee | 38 | 11,1 | 21 | 10,0 | 6 | 6,8 | 11 | 25,6 |
| between 2 ana 10 employees | 146 | 42,7 | 96 | 45,5 | 27 | 30,7 | 23 | 53,5 |
| between 11 ana 50 employees | 109 | 31,9 | 67 | 31,8 | 35 | 39,8 | 7 | 16,3 |
| between 51 ana 250 employees | 40 | 11,7 | 21 | 10,0 | 17 | 19,3 | 2 | 4,7 |
| more than 250 employees | 9 | 2,6 | 6 | 2,8 | 3 | 3,4 | 0 | 0,0 |
| Total | 342 | 100,0 | 211 | 100,0 | 88 | 100,0 | 43 | 100,0 |
| Missing | 38 | | 2 | | 12 | | 24 | |
| Total | 380 | | 213 | | 100 | | 67 | |

Source: Authors' calculation.

Graph 2. Size of the business







Age of the business

<u>All</u>

Table 3 and Graph 3 point to the age of the businesses in the entire sample. 16 businesses are less than a year old (4,5%), 14 are between 1 and 2 years old (3,9%), 68 are between 2 and 5 years old (19,1%), 78 are between 5 and 10 years old (21,9%) and 180 businesses are older than 10 years (50,6%).

<u>Croatia</u>

Table 3 and Graph 3 point to the age of the businesses in the Croatian sample. 13 businesses are less than a year old (6,1%), 8 are between 1 and 2 years old (3,8%), 33 are between 2 and 5 years old (15,6%), 37 are between 5 and 10 years old (17,5%) and 121 businesses are older than 10 years (57,1%).

<u>Poland</u>

Table 3 and Graph 3 pint to the age of the businesses in the Poland sample. 3 businesses are less than a year old (3%), 5 are between 1 and 2 years old (5,1%), 25 are between 2 and 5 years old (25,3%), 27 are between 5 and 10 years old (27,3%) and 39 businesses are older than 10 years (39,4%).

<u>UK</u>

Table 3 and Graph 3 point to the age of the businesses in the UK sample. No businesses are less than a year old (0%), 1 are between 1 and 2 years old (2,2%), 10 are between 2 and 5 years old (22,2%), 14 are between 5 and 10 years old (31,3%) and 20 businesses are older than 10 years (44,4%).

| Age if the business | All(f) | % | Croatia(f) | % | Poland(f) | % | UK (f) | % |
|----------------------------|--------|-------|------------|-------|-----------|-------|--------|-------|
| Less than a year old | 16 | 4,5 | 13 | 6,1 | 3 | 3,0 | 0 | 0 |
| Between 1 and 2 years old | 14 | 3,9 | 8 | 3,8 | 5 | 5,1 | 1 | 2,2 |
| Between 3 and 5 years old | 68 | 19,1 | 33 | 15,6 | 25 | 25,3 | 10 | 22,2 |
| Between 6 and 10 years old | 78 | 21,9 | 37 | 17,5 | 27 | 27,3 | 14 | 31,1 |
| More than 10 years old | 180 | 50,6 | 121 | 57,1 | 39 | 39,4 | 20 | 44,4 |
| Total | 356 | 100,0 | 212 | 100,0 | 99 | 100,0 | 45 | 100,0 |
| Missing | 24 | | 1 | | 1 | | 22 | |
| Total | 380 | | 213 | | 100 | | 67 | |

Table 3. Age of the business





Graph 3. Age of the business



Source: Authors' calculation.

Location of the businesses

<u>All</u>

In the entire sample, businesses are mainly located away from science parks, business incubators or designated government areas for business (Table 13 and Graph 13), i.e. 316 businesses (88,8% of the sample). Only 16 businesses in the sample are located in a science park (4,5%), 17 are located in a business incubator (4,8%) and 7 are located in a designated government area for business (2%).

<u>Croatia</u>

In the Croatian sample, businesses are mainly not located in science parks, business incubators or designated government areas for business (Table 13 and Graph 13), i.e. 190 businesses (89,6% of the sample). Only 5 businesses in the sample are located in a science park (2,4%), 13 are located in a business incubator (6,1%) and 4 are located in a designated government area for business (1,9%).

<u>Poland</u>

In the Poland sample, businesses are mainly not located in science parks, business incubators or designated government areas for business (Table 13 and Graph 13), i.e. 83 businesses (83,8% of the sample). Only 10 businesses in the sample are located in a science park (10,1%), 3 are located in a business incubator (3%) and 3 are located in a designated government area for business (3%).





<u>UK</u>

In the UK sample, businesses are mainly not located in science parks, business incubators or designated government areas for business (Table 13 and Graph 13), i.e. 43 businesses (95,6% of the sample). Only 1 businesses in the sample are located in a science park (2,2%), 2 are located in a business incubator (2,2%) and no business are located in a designated government area for business (0%).

| Location of businesses | All(f) | % | Croatia(f) | % | Poland(f) | % | UK (f) | % |
|--|--------|-------|------------|-----------|-----------|-----------|--------|-----------|
| Science park | 16 | 4,5 | 5 | 2,4 | 10 | 10,1 | 1 | 2,2 |
| Business Incubator | 17 | 4,8 | 13 | 6,1 | 3 | 3,0 | 1 | 2,2 |
| Designated Government Area for Business | 7 | 2,0 | 4 | 1,9 | 3 | 3,0 | 0 | 0,0 |
| None of these | 316 | 88,8 | 190 | 89,6 | 83 | 83,8 | 43 | 95,6 |
| Total | 356 | 100,0 | 212 | 100, 0 | 99 | 100, 0 | 45 | 100, 0 |
| Missing | 24 | | 1 | | 1 | | 22 | |
| Total | 380 | | 213 | | 100 | | 67 | |

Table 4. Location of businesses

Source: Authors' calculation.

Graph 4. Location of businesses

- Science park
- Business Incubator
- Designated Government Area for Business







3. Chapter 3 – Innovation

The respondents were asked whether their business has introduced a new product or service (product innovation), new processes for producing or supplying goods and services (process innovation) and marketing innovations in the past 3 years. The answers were: "Yes", "No" and "I don't know" if they were not sure about the answer or the meaning of the question. In order to achieve better clarification of the questions, the definition of each type of innovation was written beside the question. The results are displayed in Table 5.

<u>All</u>

276 businesses introduced a new product or service (73%), 194 businesses introduced a new processes (52,7%), 189 businesses introduced a marketing innovation (55,4%). The remaining businesses have not introduced any of the named innovation or do not know the answer to the questions.

<u>Croatia</u>

149 businesses introduced a new product or service (70%), 101 businesses introduced a new processes (47,6%) and 113 businesses introduced a marketing innovation (53,3%). The remaining businesses have not introduced any of the named innovation or do not know the answer to the questions.

<u>Poland</u>

73 businesses introduced a new product or service (73,7%), 46 businesses introduced a new processes (48,4%), and 52 businesses introduced a marketing innovation (55,9%). The remaining businesses have not introduced any of the named innovation or do not know the answer to the questions.

<u>UK</u>

58 businesses introduced a new product or service (86,6%), 41 businesses introduced a new processes (71,9%) and 26 businesses introduced a marketing innovation (66,7%). The remaining businesses have not introduced any of the named innovation or do not know the answer to the questions.





| Table 5. | | | | | | | | |
|----------------------|--------|-------|------------|-------|-----------|-------|-------|-------|
| PRODUCT INNOVATION | All(f) | % | Croatia(f) | % | Poland(f) | % | UK(f) | % |
| YES | 276 | 73,0 | 149 | 70,0 | 73 | 73,7 | 58 | 86,6 |
| NO | 93 | 24,6 | 58 | 27,2 | 24 | 24,2 | 9 | 13,4 |
| I DON'T KNOW | 9 | 2,4 | 6 | 2,8 | 2 | 2,0 | 0 | 0,0 |
| TOTAL | 378 | 100,0 | 213 | 100,0 | 99 | 100,0 | 67 | 100,0 |
| MISSING | 2 | | 0 | 0,0 | 1 | | 0 | |
| TOTAL | 380 | | 213 | 100,0 | 100 | | 67 | |
| PROCESS INNOVATION | | | | | | | | |
| YES | 194 | 52,7 | 101 | 47,6 | 46 | 48,4 | 41 | 71,9 |
| NO | 170 | 46,2 | 106 | 50,0 | 49 | 51,6 | 16 | 28,1 |
| I DON'T KNOW | 4 | 1,1 | 5 | 2,4 | 0 | 0,0 | 0 | 0,0 |
| TOTAL | 368 | 100,0 | 212 | 100,0 | 95 | 100,0 | 57 | 100,0 |
| MISSING | 12 | | 1 | | 5 | | 10 | |
| TOTAL | 380 | | 213 | | 100 | | 67 | |
| MARKETING INNOVATION | | | | | | | | |
| YES | 189 | 55,4 | 113 | 53,3 | 52 | 55,9 | 26 | 66,7 |
| NO | 144 | 42,2 | 95 | 44,8 | 41 | 44,1 | 9 | 23,1 |
| I DON'T KNOW | 8 | 2,3 | 4 | 1,9 | 0 | 0,0 | 4 | 10,3 |
| TOTAL | 341 | 100,0 | 212 | 100,0 | 93 | 100,0 | 39 | 100,0 |
| MISSING | 39 | | 1 | | 7 | | 28 | |
| TOTAL | 380 | | 213 | | 100 | | 67 | |





Source: Authors' calculation.

Product innovation new to their business

All

Businesses were asked whether their new product or service was new to their own business (Table 6 and Graph 6). From 276 respondents who said to have had a product innovation, 76% confirmed they have introduced a product or service new to their business.

<u>Croa</u>tia

From 149 Croatian respondents who said to have had a product innovation 73,2% confirmed they have introduced a product or service new to their business.

<u>Poland</u>

From 73 Polish respondents who said to have had a product innovation 84,8% confirmed they have introduced a product or service new to their business.

UK

From 149 UK respondents who said to have had a product innovation 73,8% confirmed they have introduced a product or service new to their business.

eas to mar





| Table 6. | Product | innovation | new to | their | business |
|----------|---------|------------|----------|-------|----------|
| rabie of | IIOuuou | minovation | 11011 00 | | Dabinebb |

| PINTTB | All(f) | % | Croatia(f) | % | Poland(f) | % | UK(f) | % |
|--------------|--------|------|------------|------|-----------|------|-------|------|
| YES | 238 | 76,3 | 123 | 73,2 | 67 | 84,8 | 48 | 73,8 |
| NO | 61 | 19,6 | 37 | 22,0 | 7 | 8,9 | 17 | 26,2 |
| I DON'T KNOW | 13 | 4,2 | 8 | 4,8 | 5 | 6,3 | 0 | 0,0 |

Graph 6. Product innovation new to their business



Source: Authors' calculation.

Product innovation new to the market

<u>All</u>

In the following section respondents were asked whether the product/services were new to the market (Table 7 and Graph 7). 43% of those who did introduce a new product/service said it was new to the market.

<u>Croatia</u>

42% of Croatian respondents who said they have introduced a new product/service stated that it was new to the market.

<u>Poland</u>

43% of Poland respondents who said they have introduced a new product/service stated that it was new to the market.

<u>UK</u>

48% of UK respondents who said that they have introduced a new product/service stated that it was new to the market.





Graph 7. Product innovation new to the market

| F | | | | | | | | |
|--------------|--------|------|------------|------|-----------|------|-------|------|
| PINTTM | All(f) | % | Croatia(f) | % | Poland(f) | % | UK(f) | % |
| YES | 135 | 43,0 | 72 | 42,1 | 34 | 43,0 | 29 | 45,3 |
| NO | 160 | 51,0 | 91 | 53,2 | 37 | 46,8 | 32 | 50,0 |
| I DON'T KNOW | 19 | 6,1 | 8 | 4,7 | 8 | 10,1 | 3 | 4,7 |

Graph 7. Product innovation new to the market



Source: Authors' calculation.

Process innovation

<u>All</u>

When asked about the novelty of the process introduced, out of the 194 businesses who introduced a process innovation, 82,4% stated that this process innovation is new to their business. The answers are presented in Table 8 and Graph 8.

<u>Croatia</u>

When asked about the novelty of the process introduced, out of the 101 businesses who introduced a process innovation, 83,2% stated that this process innovation is new to their business.

<u>Poland</u>

When asked about the novelty of the process introduced, out of the 46 businesses who introduced a process innovation, 86,3% stated that this process innovation is new to their business.





UK

When asked about the novelty of the process introduced, out of the 41 businesses who introduced a process innovation, 76,5% stated that this process innovation is new to their business.

| PRINTTB | All(f) | % | Croatia(f) | % | Poland(f) | % | UK(f) | % |
|--------------|--------|------|------------|------|-----------|------|-------|------|
| YES | 187 | 82,4 | 104 | 83,2 | 44 | 86,3 | 39 | 76,5 |
| NO | 36 | 15,9 | 19 | 15,2 | 6 | 11,8 | 11 | 21,6 |
| I DON'T KNOW | 4 | 1,8 | 2 | 1,6 | 1 | 2,0 | 1 | 2,0 |

Table 8. Process innovation new to the business

Source: Authors' calculation.

Graph 8. Process innovation new to the business



Source: Authors' calculation.

Process innovation new to the market

<u>All</u>

However, only 29,8% who introduced a process innovation said that their process innovation is new to the market. The answers are presented in Table 9 and Graph 9.

<u>Croatia</u>

In the case of Croatia 32,8% respondents who introduced a process innovation said that their process innovation is new to the market.





<u>Poland</u>

In the case of Poland 26,9% respondents who have introduced a process innovation said it was new to the market.

<u>UK</u>

In the case of UK 25% respondents who introduced a process innovation said that their process innovation is new to the market.

| | All(f) | % | Croatia(f) | % | Poland(f) | % | UK(f) | % | | | | | |
|--------------|--------|------|------------|------|-----------|------|-------|------|--|--|--|--|--|
| YES | 70 | 29,8 | 43 | 32,8 | 14 | 26,9 | 13 | 25,0 | | | | | |
| NO | 143 | 60,9 | 74 | 56,5 | 34 | 65,4 | 35 | 67,3 | | | | | |
| I DON'T KNOW | 22 | 9,4 | 14 | 10,7 | 4 | 7,7 | 4 | 7,7 | | | | | |

Table 9. Process innovation new to the market

Source: Authors' calculation.

Graph 9. Process innovation new to the market



Source: Authors' calculation. <u>Marketing Innovation</u>

<u>All</u>

When asked about marketing innovation most of the respondents did introduce some innovation in marketing. Moreover, most marketing innovations were observed in the following areas, in the following order (Graph 10):

- 1. change in marketing methods (156 respondents)
- 2. change in product/service desing (141 respondents)
- 3. new advertising campaigns (134 respondents)
- 4. market research (107 respondents)





■ Yes ■ No ■ I don't know 156 141 134 107 96 77 68 58 9 9 7 6 market research marketing methods product/service advertising desing campaigns

Graph 10. Areas of marketing innovation

Source: Authors' calculation.

<u>Croatia</u>

When asked about marketing innovation most of the respondents did introduce some innovation in marketing. Moreover, most marketing innovations were observed in the following areas in the following order (Graph 11):

- 1. change in marketing methods (89 respondents)
- 2. change in product/service desing (84 respondents)
- 3. new advertising campaigns (82 respondents)
- 4. market research (72 respondents)



SLOM ideas to market

Graph 11. Areas of marketing innovation



Source: Authors' calculation.

<u>Poland</u>

When asked about marketing innovation most of the respondenta did introduce some innovation in marketing. Moreover, most marketing innovations were observed in the following order (Graph 12):

- 1. change in marketing methods (44 respondents)
- 2. change in product/service desing (32 respondents)
- 3. new advertising campaigns (31 respondents)
- 4. market research (20 respondents)





Graph 12. Areas of marketing innovation



Source: Authors' calculation.

<u>UK</u>

When asked about marketing innovation most of the respondents did introduce some innovation in marketing. Moreover, most marketing innovations were observed in the following areas in the following order (Graph 13):

- 1. change in product/service desing (25 respondents)
- 2. change in marketing methods (23 respondents)
- 3. new advertising campaigns (21 respondents)
- 4. market research (15 respondents)





Graph 13. Areas of marketing innovation



Source: Authors' calculation.

Organizational Innovation

<u>All</u>

Different distribution is evident in the statements on organizational innovation. The respondents were asked whether they implemented a new, or have significantly changed, corporate strategy, implemented new management techniques, implemented a major change to the organizational structure or implemented changes to marketing strategy. The results are given in Graph 14.

Graph 14. Areas of organizational innovation







Source: Authors' calculation.

The majority of answers relating to organizational innovation were negative. However, the highest positive values were observed in the following order:

- 1. implementing changes to marketing strategy (178 respondents)
- 2. implementing new management techniques (150 respondents)
- 3. new corporate strategy (147 respondents)
- 4. organizational structure (146 respondents).

- implementation of major change to the organizational structure (211 respondents) and corporate strategy (211 respondents)
- implementation of new management techniques (204 respondents)
- implementing changes to marketing strategy (177).





<u>Croatia</u> Graph 15. Areas of organizational innovation



Source: Authors' calculation.

Some of answers relating to organizational innovation were negative. However, the highest positive values were observed in the following order:

- 1. implementing changes to marketing strategy (99 respondents)
- 2. new corporate strategy (66 respondents)
- 3. implementing new management techniques (52 respondents)
- 4. organizational structure (52 respondents).

- implementing new corporate strategy (141 respondents)
- Implementing changes to marketing strategy (107)
- major change to the organizational structure (40 respondents) and
- implementation of new management techniques (39 respondents)

<u>Poland</u> Graph 16. Areas of organizational innovation

Source: Authors' calculation.

The majority of answers relating to organizational innovation are positive. By their frequency values are observed in the following order:

- 1. implementing new management techniques (52 respondents) and organizational structure (52 respondents)
- 2. new corporate strategy (51 respondents)
- 3. implementing changes to marketing strategy (44 respondents).

- implementing changes to marketing strategy (47)
- corporate strategy (43 respondents)
- implementation of major change to the organizational structure (40 respondents) and
- implementation of new management techniques (39 respondents).

<u>UK</u> Graph 17. Areas of organizational innovation

Source: Authors' calculation.

Some of the answers relating to organizational innovation were negative. However, the highest positive values were observed in the following order:

- 5. implementing changes to marketing strategy (35 respondents)
- 6. new corporate strategy (30 respondents)
- 7. implementing new management techniques (28 respondents)
- 8. organizational structure (27 respondents).

- implementation of major change to the organizational structure (29 respondents) and new management techniques (29 respondents)
- corporate strategy (27 respondents)
- implementing changes to marketing strategy (23).

4. Research and Development

<u>All</u>

All businesses were asked about the frequency of their R&D engagement during the last 3 years. The results displayed in Table 10 and Graph 18 show that 30% of the businesses in the sample is continuously engaged in R&D activities, 10% occasionally and 29% not at all.

<u>Croatia</u>

Croatian respondents were asked on the frequency of their R&D engagement during the last 3 years. The results displayed in Table 10 and Graph 18 show that 33,8% of the businesses in the sample is continuously engaged in R&D activities, 45,1% occasionally and 21,1% not at all.

<u>Poland</u>

Polish respondents were asked on the frequency of their R&D engagement during the last 3 years. The results displayed in Table 10 and Graph 18 show that 28,1% of the businesses in the sample is continuously engaged in R&D activities, 28,1% occasionally and 43,8% not at all. <u>*UK*</u>

UK respondents were asked on the frequency of their R&D engagement during the last 3 years. The results displayed in Table 10 and Graph 18 show that 27,1% of the businesses in the sample is continuously engaged in R&D activities, 40,7% occasionally and 32,2% not at all.

| R&D | All(f) | % | 6 Croatia(f) | | Poland(f) | % | UK(f) | % | | | | | | |
|--------------|--------|------|--------------|------|-----------|------|-------|------|--|--|--|--|--|--|
| continuously | 115 | 31,3 | 72 | 33,8 | 27 | 28,1 | 16 | 27,1 | | | | | | |
| occasionally | 147 | 39,9 | 96 | 45,1 | 27 | 28,1 | 24 | 40,7 | | | | | | |
| not at all | 106 | 28,8 | 45 | 21,1 | 42 | 43,8 | 19 | 32,2 | | | | | | |

Table 10. R&D engagement during the last 3 years

Graph 18. R&D engagement during the last 3 years

Source: Authors' calculation.

Protecting Ideas

The businesses explained that overall they perceive the lead-time over competitors to be very important, followed by secrecy (Table 11 and Graph 19). Lead-time over competitors is generally considered as most important informal way of protecting ideas, while complexity of design as least important.

| | Ν | All(mean) | Std | Croatia(mean) | Std | Poland(mean) | Std | UK(mean) | Std |
|-------------------------------|-----|-----------|-------|---------------|-------|--------------|-------|----------|-------|
| Secrecy | 347 | 4,89 | 1,926 | 4,66 | 1,981 | 5,73 | 1,462 | 4,10 | 1,984 |
| Complexity of design | 340 | 4,23 | 1,908 | 4,05 | 1,922 | 4,77 | 1,727 | 3,91 | 2,049 |
| Lead time over competitors | 347 | 5,12 | 1,806 | 5,29 | 1,828 | 4,97 | 1,524 | 4,58 | 2,213 |

Table 11. Importance of informal ways of protecting ideas

Graph 19. Importance of informal ways of protecting ideas

Source: Authors' calculation.

<u>All</u>

Moreover, when the businesses were asked on formal actions they have taken to protect innovation in the past 3 years, there was total of 230 protective measures for the entire sample (Table 12 and Graph 20). 39 (17%) businesses applied for a patent, 81(35,2%) businesses registered a trademark, 31(13,5%) businesses registered a copyright, 30(13%) businesses registered industrial design and 49(21,3%) businesses own a database rights.

<u>Croatia</u>

Moreover, when the businesses were asked on formal actions they have taken to protect innovation in the past 3 years there was total of 153 protective measures in Croatian sample (Table 12 and Graph 20). 18 (11,8) businesses applied for a patent, 59(38,6%) businesses registered a trademark, 21(13,7%) businesses registered a copyright, 23(15%) businesses registered industrial design and 32(20,9%) businesses own a database rights.

<u>Poland</u>

Moreover, when the businesses were asked on formal actions they have taken to protect innovation in the past 3 years there was total of 61 protective measures in Polish sample (Table 12 and Graph 20). 19(31,1%) businesses applied for a patent, 13(21,3%) businesses registered a trademark, 8(13,1%) businesses registered a copyright, 6(9,8%) businesses registered industrial design and 15(24,6%) businesses own a database rights.

<u>UK</u>

Moreover, when the businesses were asked on formal actions they have taken to protect innovation in the past 3 years there was total of 153 protective measures in UK sample (Table

12 and Graph 20). 2(12,5%) businesses applied for a patent, 9(56,3%) businesses registered a trademark, 2(12,5%) businesses registered a copyright, 1(6,3%) businesses registered industrial design and 2(12,5%) businesses own a database rights.

| | | All | Percen | C | roatia | Percen | F | Poland | Percen | | UK | Percen |
|------------|----|--------|---------|----|--------|--------|---------|--------|--------|---|--------|--------|
| | | Percen | t of | | Percen | t of | | Percen | t of | | Percen | t of |
| | Ν | t | Cases | Ν | t | Cases | Ν | t | Cases | Ν | t | Cases |
| Datont | 39 | 17,0% | 24,2% | 18 | 11,8% | 16,7% | 1 31,1% | | 46,3% | 2 | 12,5% | 16,7% |
| ratent | | | | | | | 9 | | | | | |
| Trademar | 81 | 35,2% | 50,3% | 59 | 38,6% | 54,6% | 1 | 21,3% | 31,7% | 9 | 56,3% | 75,0% |
| k | | | | | | | 3 | | | | | |
| Copyright | 31 | 13,5% | 19,3% | 21 | 13,7% | 19,4% | 8 | 13,1% | 19,5% | 2 | 12,5% | 16,7% |
| Industrial | 30 | 13,0% | 18,6% | 23 | 15,0% | 21,3% | 6 | 9,8% | 14,6% | 1 | 6,3% | 8,3% |
| design | | | | | | | | | | | | |
| Database | 49 | 21,3% | 30,4% | 32 | 20,9% | 29,6% | 1 | 24,6% | 36,6% | 2 | 12,5% | 16,7% |
| rights | | | | | | | 5 | | | | | |
| Total | 23 | 100,0 | 142,9 | 15 | 100,0 | 141,7 | 6 | 100,0 | 148,8 | 1 | 100,0 | 133,3 |
| | 0 | % | % % 3 % | | % | 1 | % | % | 6 | % | % | |

Table 12. Actions taken to formally protecting ideas

Source: Authors' calculation.

5. Education and Training

In order to identify the appropriate ways to approach business education, respondents were asked which of learning approaches would best suit your employees (Table 13).

<u>All</u>

The following learning approaches are considered by all respondents as the most beneficial:

- 1. learning on the job
- 2. learning based on case studies
- 3. face to face learning

The lowest overall mark was given to self-study, simulations and e-learning.

<u>Croatia</u>

The following learning approaches are considered by all respondents as the most beneficial:

- 1. learning on the job
- 2. learning based on case studies
- 3. face to face learning

The lowest overall mark was given to self-study, simulations and e-learning.

<u>Poland</u>

The following learning approaches are considered by all respondents as the most beneficial:

- 1. face to face learning
- 2. learning on the job
- 3. e-learning

The lowest overall mark was given to learning based on simulations, case studies and self-study.

<u>UK</u>

The following learning approaches are considered by all respondents as the most beneficial:

- 1. learning on the job
- 2. face to face learning
- 3. self-study

The lowest overall mark was given to simulations, learning based on case studies and e-learning.

| | | 0 1 | - | | | | | | | | | | | | |
|--------------|-----|------|-------|--------------|---------|------|-------|--------------|--------|------|-------|--------------|----|------|-------|
| LA | All | μ | Std | LA | Croatia | μ | Std | LA | Poland | μ | Std | LA | UK | μ | Std |
| ON THE JOB | 346 | 5,33 | 1,572 | ON THE JOB | 212 | 5,27 | 1,605 | FACE TO FACE | 92 | 5,59 | 1,431 | ON THE JOB | 42 | 5,88 | 1,435 |
| FACE TO FACE | 349 | 5,27 | 1,691 | CASE STUDIES | 212 | 5,08 | 1,864 | ON THE JOB | 92 | 5,23 | 1,52 | FACE TO FACE | 45 | 5,8 | 1,44 |
| CASE STUDIES | 347 | 4,89 | 1,854 | FACE TO FACE | 212 | 5,02 | 1,798 | E-LEARNING | 93 | 4,75 | 1,822 | SELF-STUDY | 43 | 4,77 | 1,586 |
| E-LEARNING | 348 | 4,41 | 1,964 | E-LEARNING | 212 | 4,22 | 2,019 | SELF-STUDY | 91 | 4,71 | 1,864 | E-LEARNING | 43 | 4,63 | 1,903 |
| SIMULATION | 345 | 4,13 | 1,975 | SIMULATION | 212 | 3,9 | 2,064 | CASE STUDIES | 94 | 4,66 | 1,864 | CASE STUDIES | 41 | 4,49 | 1,69 |
| SELF-STUDY | 346 | 4,13 | 1,940 | SELF-STUDY | 212 | 3,75 | 1,947 | SIMULATION | 92 | 4,57 | 1,775 | SIMULATION | 41 | 4,37 | 1,771 |
| N | 340 | | | N | 212 | | | N | 88 | | | N | 40 | | |

Table 13. Learning approaches

Graph 21. Learning approaches

■ All ■ Croatia ■ Poland ■ UK

Source: Authors' calculation.

The question was asked on the importance of training in particular areas identified in the literature in helping businesses to bring ideas to market. The results are given in Table 14 and Graph 22.

<u>All</u>

They show that the most important areas perceived by respondents incorporate:

- 1. Use of technology
- 2. In-house communication
- 3. Leadership, creativity and innovation
- 4. Marketing
- 5. Evaluating opportunity

The lowest overall mark is given to the National Innovation System (NIS).

<u>Croatia</u>

They show that the most important areas perceived by respondents incorporate:

- 1. In-house communication
- 2. Use of technology
- 3. Leadership, creativity and innovation
- 4. Evaluating opportunity
- 5. Marketing

The lowest overall mark is given to the National Innovation System (NIS).

<u>Poland</u>

They show that the most important areas perceived by respondents incorporate:

- 1. Leadership, creativity and innovation
- 2. Use of technology
- 3. Marketing
- 4. Evaluating opportunity
- 5. Cooperating with business or scientific partners
- 6. The lowest overall mark is given to the National Innovation System (NIS).

<u>UK</u>

They show that the most important areas perceived by respondents incorporate:

- 1. Marketing
- 2. Evaluating opportunity
- 3. In-house communication
- 4. Use of technology
- 5. Leadership, creativity and innovation

The lowest overall mark is given to the National Innovation System (NIS).

Table 14. Coding of training/education

| 01 | Evaluating opportunity |
|----|---------------------------------------|
| 02 | Business management principles. |
| 03 | Leadership, creativity and innovation |
| 04 | Marketing |
| 05 | Human Resource Management |
| 06 | Business/Company law |
| 07 | Tax/financial regulations |
| 08 | Use of technology |

| 09 | Cooperating with business or scientific partners |
|-----|--|
| 010 | Methods of intellectual property protection |
| 011 | Intellectual property transactions. |
| 012 | Intellectual Property Valuation. |
| 013 | Innovation policy |
| 014 | National Innovation System (NIS) |
| 015 | Systematic/Critical thinking |
| 016 | In-house communication |

| Table 14 Im | nortance o | f training/ | Adjucation i | n hringing | ideas to | market |
|-----------------|-------------|-------------|--------------|----------------|----------|--------|
| 1 abie 14. IIII | por tance o | i u anning/ | euucation | II DI IIIgIIIg | iueas to | market |

| All | N | Mean | Std | Croatia | N | Mean | Std | Poland | N | Mean | Std | UK | N | Mean | Std |
|-----|-----|------|-------|---------|-----|------|-------|--------|----|------|-------|-----|----|------|-------|
| 08 | 350 | 5,04 | 1,720 | 016 | 212 | 5,20 | 1,865 | 03 | 97 | 5,13 | 1,693 | 04 | 41 | 5,68 | 1,524 |
| 016 | 340 | 5,03 | 1,838 | 08 | 212 | 5,10 | 1,778 | 08 | 96 | 4,89 | 1,621 | 01 | 38 | 5,45 | 1,899 |
| 03 | 347 | 4,97 | 1,734 | 03 | 211 | 4,90 | 1,708 | 04 | 96 | 4,76 | 1,608 | 016 | 37 | 5,19 | 1,913 |
| 04 | 349 | 4,92 | 1,683 | 01 | 212 | 4,89 | 1,835 | 01 | 95 | 4,76 | 1,687 | 08 | 42 | 5,07 | 1,659 |
| 01 | 345 | 4,92 | 1,808 | 04 | 212 | 4,84 | 1,714 | 09 | 94 | 4,69 | 1,784 | 03 | 39 | 4,92 | 1,979 |
| 02 | 346 | 4,61 | 1,679 | 07 | 212 | 4,72 | 1,783 | 02 | 97 | 4,60 | 1,669 | 02 | 38 | 4,74 | 1,899 |
| 015 | 338 | 4,60 | 1,769 | 015 | 212 | 4,71 | 1,798 | 05 | 94 | 4,60 | 1,498 | 015 | 33 | 4,48 | 1,922 |
| 07 | 349 | 4,54 | 1,793 | 02 | 211 | 4,59 | 1,649 | 016 | 91 | 4,55 | 1,668 | 09 | 36 | 4,25 | 1,610 |
| 05 | 346 | 4,51 | 1,728 | 05 | 212 | 4,59 | 1,746 | 013 | 94 | 4,54 | 1,657 | 07 | 40 | 4,08 | 1,966 |
| 09 | 342 | 4,28 | 1,789 | 013 | 211 | 4,21 | 1,908 | 010 | 94 | 4,43 | 1,669 | 06 | 40 | 4,00 | 1,935 |
| 013 | 338 | 4,23 | 1,831 | 09 | 212 | 4,10 | 1,797 | 015 | 93 | 4,40 | 1,643 | 05 | 40 | 3,93 | 2,043 |
| 06 | 347 | 4,05 | 1,743 | 06 | 211 | 4,09 | 1,753 | 07 | 97 | 4,34 | 1,701 | 010 | 33 | 3,48 | 1,679 |
| 010 | 339 | 3,99 | 1,841 | 012 | 212 | 3,98 | 1,904 | 011 | 94 | 4,23 | 1,694 | 013 | 33 | 3,45 | 1,583 |
| 012 | 337 | 3,96 | 1,886 | 010 | 212 | 3,88 | 1,908 | 012 | 92 | 4,18 | 1,827 | 012 | 33 | 3,27 | 1,825 |
| 011 | 337 | 3,78 | 1,851 | 011 | 212 | 3,66 | 1,907 | 06 | 96 | 3,99 | 1,651 | 011 | 31 | 3,23 | 1,687 |
| 014 | 333 | 3,62 | 1,809 | 014 | 211 | 3,64 | 1,930 | 014 | 92 | 3,78 | 1,616 | 014 | 30 | 3,00 | 1,339 |
| N | 312 | | | Ν | 208 | | | N | 79 | | | N | 25 | | |

Table 22. Importance of training/education in bringing ideas to market

The final question wanted to draw the attention to the existing level of education, i.e. training or support which businesses conduct in the areas identified in the literature as beneficial and important. Hence the question was asked whether during the last 3 years their business has received training or support in any of the identified areas.

| Table 15. Trair | ning/education conducted | in bringing ideas to mar! | ket during the last 3 vears | (coding is given in table 14) |
|-----------------|--------------------------|---------------------------|-----------------------------|-------------------------------|
| 10010 101 11011 | , caacation contaactea | | | |

| All | Yes | All | YM | All | No | Croatia | Yes | Croatia | YM | Croatia | No | Poland | Yes | Poland | YM | Poland | No | UK | Yes | UK | YM | UK | No |
|-----|-----|-----|-----|-----|-----|---------|-----|---------|----|---------|-----|--------|-----|--------|----|--------|----|-----|-----|-----|----|-----|----|
| 08 | 78 | 03 | 139 | 014 | 288 | 08 | 67 | 016 | 94 | 014 | 166 | 02 | 27 | 03 | 36 | 014 | 80 | 02 | 4 | 04 | 15 | 011 | 42 |
| 07 | 72 | 08 | 128 | 011 | 276 | 016 | 50 | 03 | 93 | 011 | 163 | 04 | 26 | 08 | 34 | 015 | 76 | 03 | 4 | 03 | 10 | 014 | 42 |
| 016 | 60 | 016 | 124 | 012 | 267 | 07 | 48 | 02 | 91 | 012 | 154 | 06 | 21 | 09 | 26 | 012 | 73 | 04 | 4 | 02 | 9 | 013 | 41 |
| 02 | 59 | 04 | 123 | 013 | 245 | 02 | 28 | 04 | 90 | 013 | 136 | 07 | 20 | 016 | 22 | 011 | 71 | 06 | 4 | 08 | 9 | 010 | 40 |
| 04 | 57 | 02 | 118 | 010 | 240 | 04 | 27 | 08 | 85 | 09 | 135 | 05 | 18 | 07 | 21 | 01 | 68 | 07 | 4 | 016 | 8 | 012 | 40 |
| 06 | 50 | 01 | 105 | 09 | 233 | 015 | 26 | 01 | 80 | 010 | 133 | 010 | 12 | 01 | 20 | 013 | 68 | 01 | 3 | 07 | 7 | 015 | 38 |
| 05 | 40 | 07 | 102 | 015 | 223 | 06 | 25 | 015 | 77 | 06 | 125 | 01 | 8 | 013 | 20 | 010 | 67 | 05 | 3 | 05 | 6 | 09 | 36 |
| 03 | 36 | 05 | 98 | 01 | 216 | 03 | 24 | 05 | 74 | 05 | 118 | 03 | 8 | 02 | 18 | 016 | 66 | 08 | 3 | 09 | 6 | 01 | 35 |
| 015 | 33 | 015 | 94 | 06 | 216 | 01 | 19 | 07 | 74 | 01 | 113 | 08 | 8 | 04 | 18 | 09 | 62 | 016 | 3 | 01 | 5 | 05 | 35 |
| 010 | 32 | 09 | 92 | 05 | 211 | 05 | 19 | 06 | 62 | 015 | 109 | 016 | 7 | 05 | 18 | 05 | 58 | 09 | 2 | 06 | 5 | 06 | 35 |
| 01 | 30 | 06 | 82 | 03 | 175 | 010 | 18 | 010 | 61 | 03 | 95 | 09 | 5 | 011 | 17 | 06 | 56 | 010 | 2 | 015 | 3 | 07 | 33 |
| 09 | 24 | 013 | 79 | 02 | 173 | 013 | 18 | 09 | 60 | 04 | 95 | 011 | 5 | 06 | 15 | 04 | 51 | 015 | 2 | 010 | 2 | 016 | 33 |
| 013 | 24 | 010 | 76 | 07 | 173 | 09 | 17 | 013 | 58 | 02 | 93 | 013 | 5 | 012 | 14 | 03 | 50 | 011 | 1 | 012 | 2 | 02 | 31 |
| 012 | 18 | 012 | 61 | 04 | 171 | 012 | 13 | 012 | 45 | 07 | 90 | 014 | 5 | 015 | 14 | 07 | 50 | 012 | 1 | 013 | 1 | 08 | 31 |
| 011 | 17 | 011 | 55 | 016 | 167 | 011 | 11 | 011 | 38 | 016 | 68 | 015 | 5 | 010 | 13 | 08 | 50 | 013 | 1 | 011 | 0 | 03 | 30 |
| 014 | 14 | 014 | 48 | 08 | 141 | 014 | 8 | 014 | 38 | 08 | 60 | 012 | 4 | 014 | 10 | 02 | 49 | 014 | 1 | 014 | 0 | 04 | 25 |

<u>All</u>

The highest amount of training and education was received in:

- 1. Use of technology (78 respondents)
- 2. Tax/financial regulations (72 respondents)
- 3. In-house communication (60 respondents)
- 4. Business management principles (59 respondents)
- 5. Marketing (57 respondents)

The respondents identified that some training was received but more is needed in the following areas:

- 1. Leadership, creativity and innovation (139 respondents)
- 2. Use of technology (128 respondents)
- 3. In-house communication (124 respondents)
- 4. Marketing (124 respondents)
- 5. Business management principles (118 respondents)

The results have shown that the least training was received in:

- 1. National Innovation System (NIS) (288 respondents)
- 2. Intellectual property transactions (276 respondents)
- 3. Intellectual Property Valuation (267 respondents)
- 4. Innovation policy (245 respondents)
- 5. Methods of intellectual property protection (240 respondents)

Graph 23. Training/education conducted in bringing ideas to market during the last 3 years (All)

<u>Croatia</u>

The highest amount of training and education was received in:

- 1. Use of technology (67 respondents)
- 2. In-house communication (50 respondents)
- 3. Tax/financial regulations (48 respondents)
- 4. Business management principles (28 respondents)
- 5. Marketing (27 respondents)

The respondents identified that some training was received but more is needed in the following areas:

- 1. In-house communication (94 respondents)
- 2. Leadership, creativity and innovation (93 respondents)
- 3. Business management principles (91 respondents)
- 4. Marketing (90 respondents)
- 5. Use of technology (85 respondents)

The results have shown that the least training was received in:

- 1. National Innovation System (NIS) (166 respondents)
- 2. Intellectual property transactions (163 respondents)
- 3. Intellectual Property Valuation (154 respondents)
- 4. Innovation policy (136 respondents)
- 5. Cooperating with business or scientific partners (135 respondents)

Graph 24. Training/education conducted in bringing ideas to market during the last 3 years (Croatia)

Source: Authors' calculation.

<u>Poland</u>

The highest amount of training and education was received in:

- 1. Business management principles. (27 respondents)
- 2. Marketing (26 respondents)
- 3. Business/Company law (21 respondents)
- 4. Tax/financial regulations (20 respondents)
- 5. Human Resource Management (18 respondents)

The respondents identified that some training was received but more is needed in the following areas:

- 1. Leadership, creativity and innovation (36 respondents)
- 2. Use of technology (34 respondents)
- 3. Cooperating with business or scientific partners (26 respondents)
- 4. In-house communication (22 respondents)
- 5. Tax/financial regulations (21 respondents)

The results have shown that the least training was received in:

- 1. National Innovation System (NIS) (80 respondents)
- 2. Systematic/Critical thinking (76 respondents)
- 3. Intellectual Property Valuation (73 respondents)
- 4. Intellectual property transactions (71 respondents)

This project has been funded with support from the European Commission.

This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

5. Evaluating opportunity (68 respondents)

Graph 25. Training/education conducted in bringing ideas to market during the last 3 years (Poland)

<u>UK</u>

The highest amount of training and education was received in:

- 1. Business management principles (4 respondents)
- 2. Leadership, creativity and innovation (4 respondents)
- 3. Marketing (4 respondents)
- 4. Business/Company law (4 respondents)
- 5. Tax/financial regulations (4 respondents)

The respondents identified that some training was received but more is needed in the following areas:

- 1. Marketing (15 respondents)
- 2. Leadership, creativity and innovation (10 respondents)
- 3. Business management principles (9 respondents)
- 4. Use of technology (9 respondents)
- 5. In-house communication (8 respondents)

The results have shown that the least training was received in:

- 1. Intellectual property transactions (42 respondents)
- 2. National Innovation System (NIS) (42 respondents)
- 3. Innovation policy (41 respondents)
- 4. Methods of intellectual property protection (40 respondents)
- 5. Intellectual Property Valuation (40 respondents)

Graph 26. Training/education conducted in bringing ideas to market during the last 3 years (UK)

