



The ISEKI_Food strategy to promote the employability & entrepreneurship of the PhD students in Food Science and Technology

Paola Pittia

Coordinator of the ISEKI_Food 4 project

***Conegliano, 25 settembre 2013
Università di Padova***

WP5: Third cycle degree in the training of FS&T professional and scientists

1. PhD : chainging role in the education and training of the future generation of the Food scientisis and Technologists (3° level of HE)

☞ Highly qualified and prepared food scientists and technology professionsls

2. Existing need to change the training and education approach of the PhD students

☞ Research-oriented PhD vs industry-oriented PhD

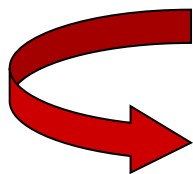
IFOOD 4 - Main objectives

To develop a framework of stakeholders in the food area:

- to lead **innovation in Food studies** education and training to fit the skills requirements of industries
- to promote **innovation** in the Food Science and Technology **academic sector**
- to favour the **internationalisation** of the European Food studies:

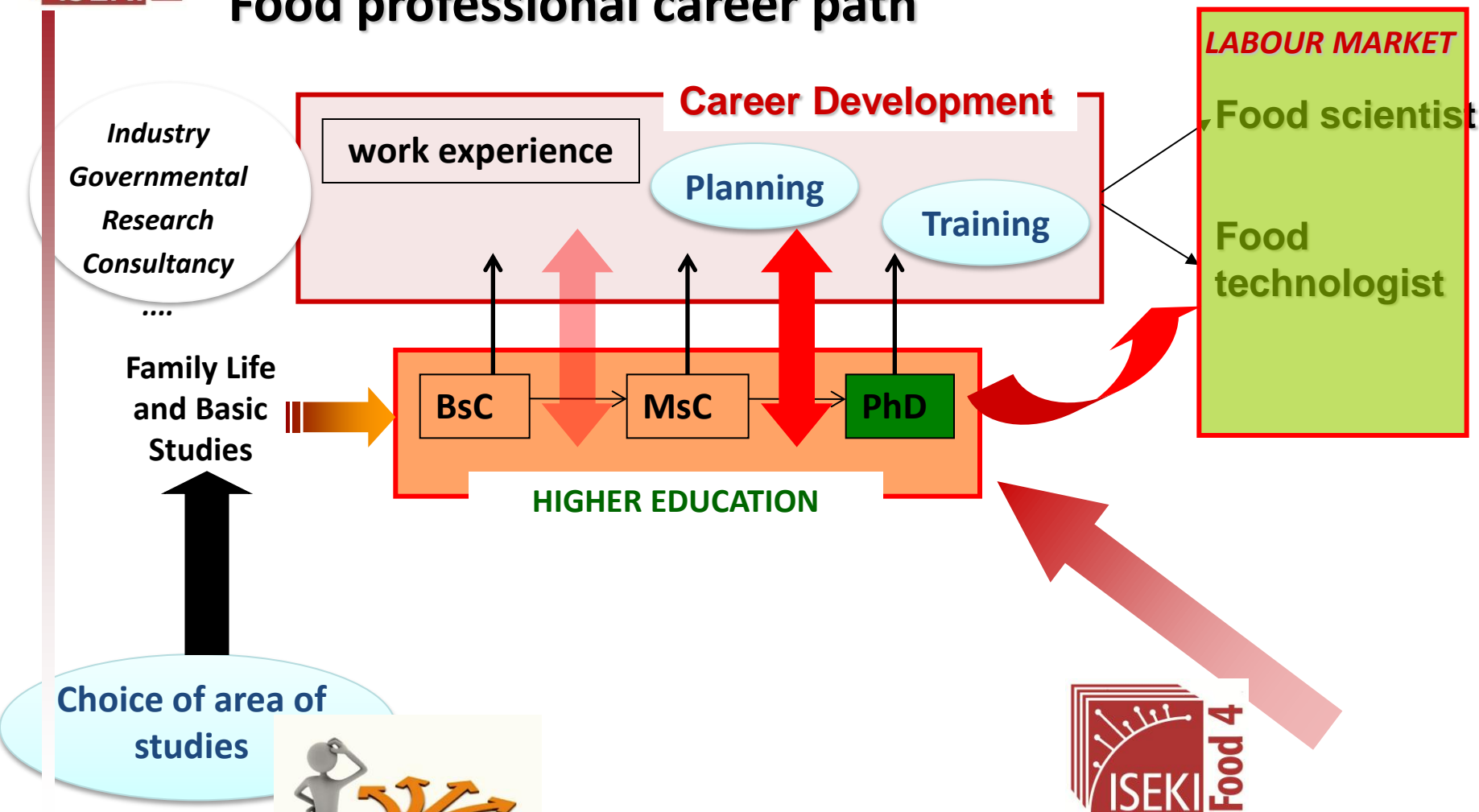
Main “expected” outcomes

- **Toolbox s to implement and modernise Food Studies programmes and promote their internationalisation**
- **Qualification Frame for Higher Education Teaching Staff and the Pilot test Summer School for teachers**
- **Virtual Platform for doctoral candidates** to favour their networking and training with material useful to acquire knowledge and technology transfer skills
- **Innovative teaching materials** (books; e-learning training courses; a pilot Virtual lab)
- **Exploitation: ISEKI e-journal, 3rd ISEKI_Food conference, webinars**
- **Strategic document** on the ethical and social role of the Food studies and food professional



DIFFERENT TARGET END-USERS

Food professional career path



ISEKI_FoodAction plan

For.... A “modern” and “professionally qualified PhD

1. IDENTIFICATION SKILLS FOR IMPLEMENT ITS LABOUR MARKET POTENTIAL

Survey (different forms) to academia and industry/professional representatives

2. DEVELOP/SET NEW TRAINING TOOLS

3. DEVELOPMENT OF A VIRTUAL PLATFORM TO:

- FAVOUR INTERATION AND NETWORKING OF PHD AT EU AND INTERNATIONAL LEVEL**
- DISCUSS ON SPECIFIC ASPECTS**

The ISEKI_Food PhD newsletter

2° issue of the PhD
newsletter: November 2013

**CALL OPEN FOR
SUBMISSION OF
NEWS/INFO FROM
PARTNERS**



PhD in Food Science and Technology Newsletter

ISSUE 1 DECEMBER 2012

Welcome to the 1st edition of PhD Newsletter!

This is the 1st issue of a new newsletter, is the voice of the ISEKI FOOD 4 project financed by the European Commission and is aimed at PhD students in Food sciences of European countries as well as from around the world.

This PhD Newsletter is launched with the aim of reaching with our initiatives not only senior scientists, educators, teachers and food professionals representatives of the numerous institution partners but also a wider and younger audience like the PhD students that represent the future generation of food technologist.

This newsletter, that starts with a yearly edition, is an easy tool for the dissemination of information on topics that could be of interest for a PhD student (events, topics and deadlines, training schools, open positions, calls for projects, ...).

The ISEKI_Food-4 project is also planning a series of complementary initiatives for the PhD students to favour the modernization of the training and education to fit the skill and competences required by the job market. Please visit the the web site of the project (www.iseki-food4.eu) and in that of our association (IFA) (www.iseki-food.net).

We hope to have started with an initiative that you will appreciate and we look forward to producing further attractive, informative and useful newsletter for all the PhD students.

Of course, we welcome back any feedback on this issue and contributions to future issues.

If you are a PhD student in the field of Food Science and Technology we would like also to invite you to share your experiences!

With our best regards,

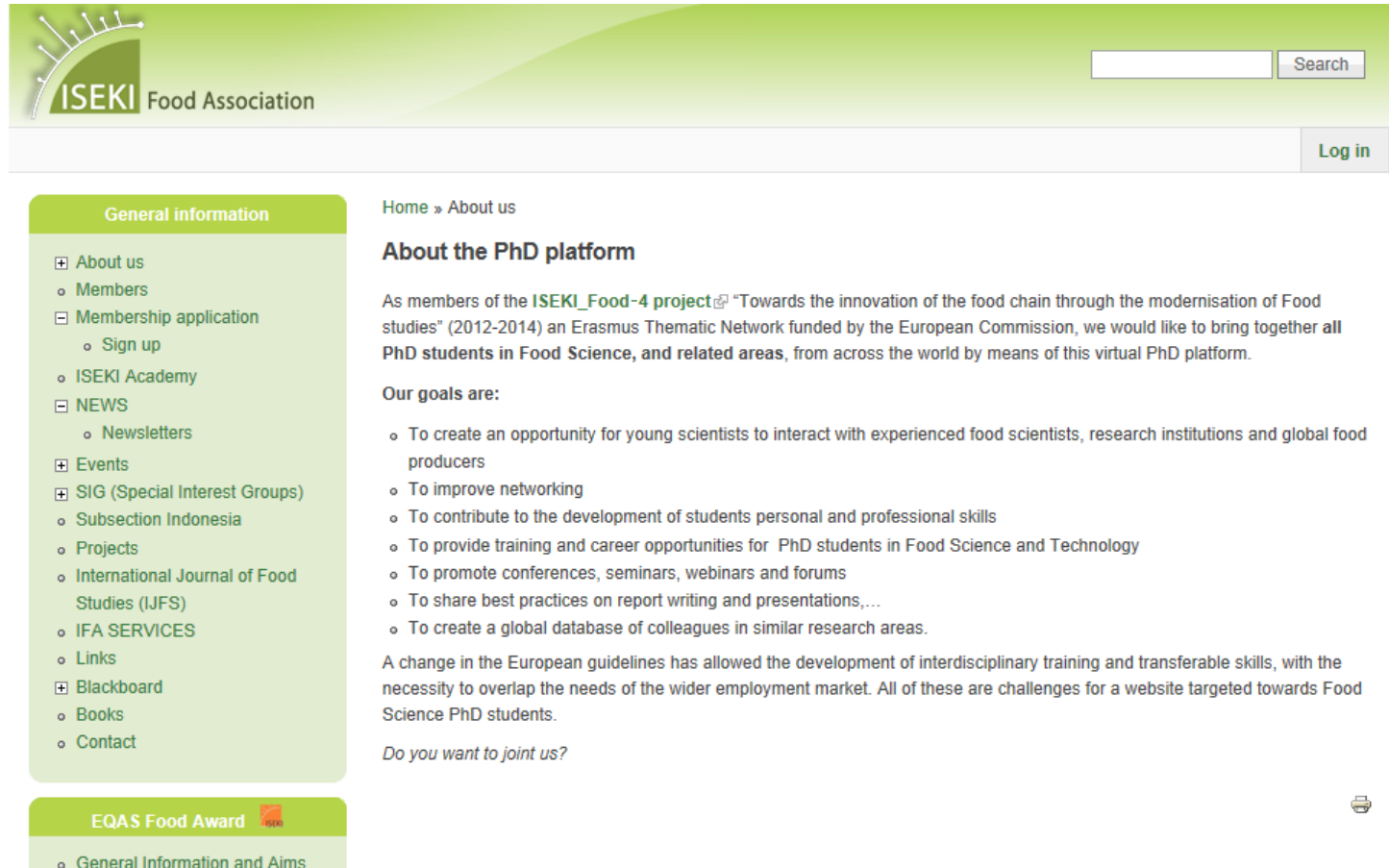
The editorial board and IFood4 coordinator



HAPPY NEW YEAR 2013!

The PhD virtual platform

https://www.iseki-food.net/phd/about_us




The screenshot shows the ISEKI Food Association website. At the top, there is a green header with the ISEKI logo and the text "Food Association". To the right of the header is a search bar and a "Search" button. Below the header is a navigation bar with a "Log in" button. The main content area is divided into two columns. The left column contains a "General information" menu with links to "About us", "Members", "Membership application", "Sign up", "ISEKI Academy", "NEWS", "Newsletters", "Events", "SIG (Special Interest Groups)", "Subsection Indonesia", "Projects", "International Journal of Food Studies (IJFS)", "IFA SERVICES", "Links", "Blackboard", "Books", and "Contact". The right column contains the "About the PhD platform" section, which includes a paragraph about the ISEKI_Food-4 project, a list of goals, and a paragraph about the development of interdisciplinary training. At the bottom of the page, there is a green bar with the "EQAS Food Award" logo and a link to "General Information and Aims".

General information

- ▢ About us
 - Members
- ▢ Membership application
 - Sign up
 - ISEKI Academy
- ▢ NEWS
 - Newsletters
- ▢ Events
- ▢ SIG (Special Interest Groups)
 - Subsection Indonesia
 - Projects
 - International Journal of Food Studies (IJFS)
 - IFA SERVICES
- ▢ Links
- ▢ Blackboard
 - Books
 - Contact

Home » About us

About the PhD platform


As members of the **ISEKI_Food-4 project**  "Towards the innovation of the food chain through the modernisation of Food studies" (2012-2014) an Erasmus Thematic Network funded by the European Commission, we would like to bring together all PhD students in Food Science, and related areas, from across the world by means of this virtual PhD platform.

Our goals are:

- To create an opportunity for young scientists to interact with experienced food scientists, research institutions and global food producers
- To improve networking
- To contribute to the development of students personal and professional skills
- To provide training and career opportunities for PhD students in Food Science and Technology
- To promote conferences, seminars, webinars and forums
- To share best practices on report writing and presentations,...
- To create a global database of colleagues in similar research areas.

A change in the European guidelines has allowed the development of interdisciplinary training and transferable skills, with the necessity to overlap the needs of the wider employment market. All of these are challenges for a website targeted towards Food Science PhD students.

Do you want to joint us?

EQAS Food Award 

- General Information and Aims

Work in progress....

3° ISEKI_Food Conference



3rd International ISEKI_Food Conference
ISEKI_Food 2014
 Athens, May 21-23, 2014
 Bridging Training and Research for Industry and the Wider Community
 Food Science and Technology Excellence
 for a Sustainable Bioeconomy

[Past Iseki Conference](#) [ENTER WEBSITE](#)

<http://www.isekiconferences.com/athens2014/>



3rd International ISEKI_Food Conference
ISEKI_Food 2014
 Bridging Training and Research for
 Industry and the Wider Community
 Food Science and Technology Excellence
 for a Sustainable Bioeconomy

Visit: www.isekiconferences.com/athens2014

Logos: ISEKI Food Association, European Union, Lifelong Learning

An International “open” forum for all the stakeholders of the whole food chain (students, researchers, education scientists, Technologists, representative of government agencies, Industry representatives and trainers, Food consumers and Wider community....)

3° ISEKI_Food Conference



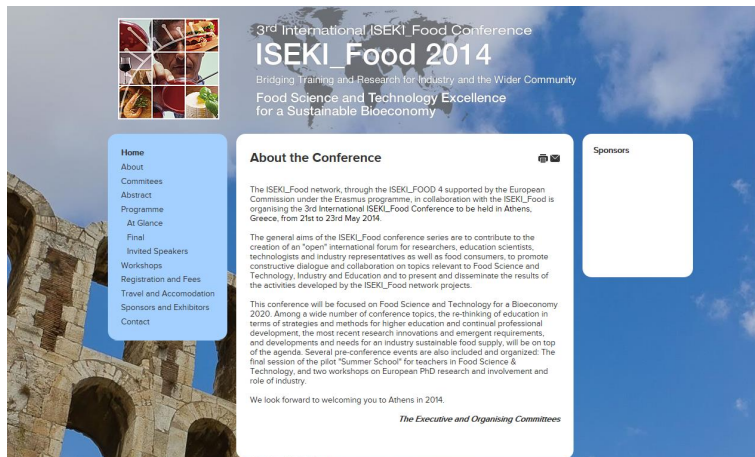
The screenshot shows the homepage of the 3rd International ISEKI_Food Conference website. The header features a collage of food images and the text: "3rd International ISEKI_Food Conference", "ISEKI_Food 2014", "Bridging Training and Research for Industry and the Wider Community", and "Food Science and Technology Excellence for a Sustainable Bioeconomy". A left sidebar contains a navigation menu with links: Home, About, Committees, Abstract, Programme, At Glance, Final, Invited Speakers, Workshops, Registration and Fees, Travel and Accommodation, Sponsors and Exhibitors, and Contact. The main content area is titled "About the Conference" and includes two paragraphs of text describing the conference's goals and focus. A "Sponsors" section is visible on the right. The background of the website features a large image of the Acropolis in Athens.

The conference includes three main sessions:

- > ***Session 1: Re-thinking education: enhancing Food Science & Technology competences for Bioeconomy 2020.***
- > ***Session 2: Knowledge and Innovation in research towards a bioeconomy perspective.***
- > ***Session 3: Food Industry for a sustainable planet food supply.***

<http://www.isekiconferences.com/athens2014/>

3° ISEKI_Food Conference



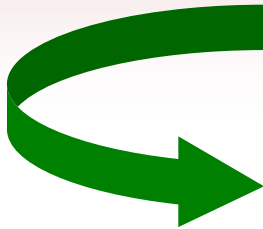
The conference includes 2 Workshops for PhD students (21 May 2014)

- “State of Research in the Field of Food Science and Technology: presentation of PhD student research activities”**
- “Industry meets Academia and PhD programmes”**

Third cycle degree in the training of FS&T professional and scientists

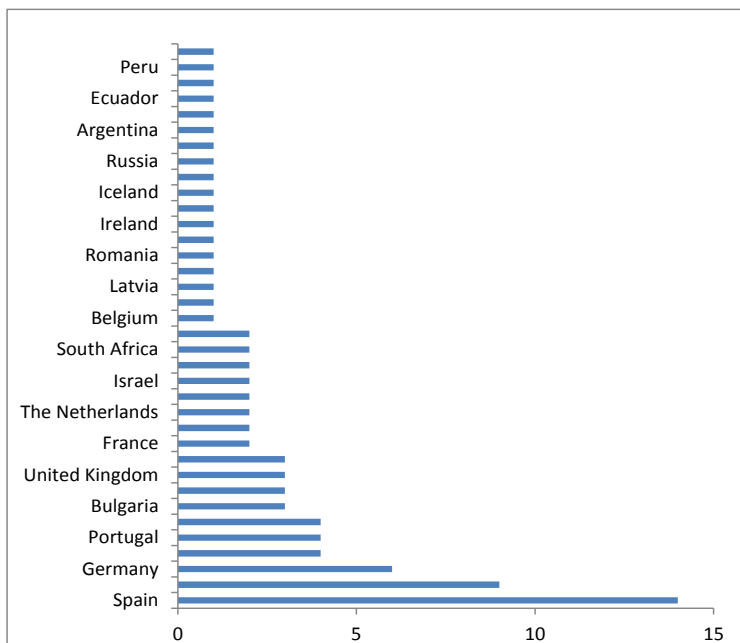
IDENTIFICATION SKILLS FOR IMPLEMENT ITS LABOUR MARKET POTENTIAL

Survey (different forms) to academia and industry/professional representatives

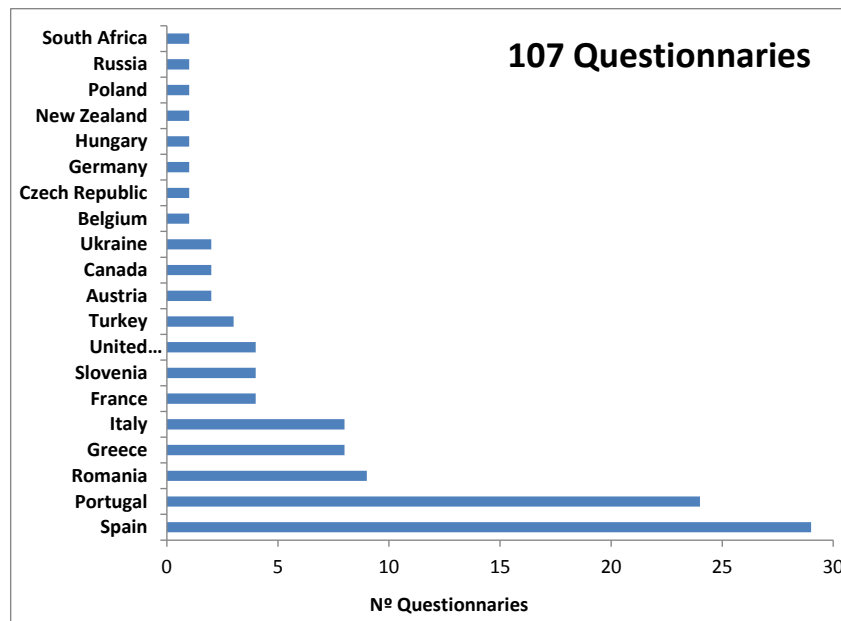


RESULTS....

WP5: Third cycle degree in the training of FS&T professional and scientists



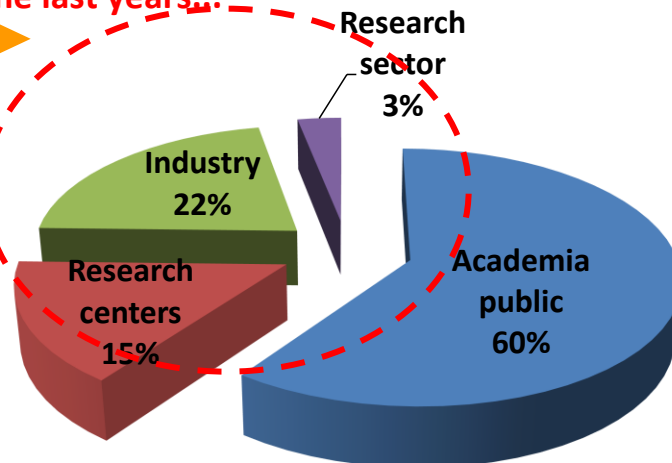
**ACADEMIA: 87 replies from
36 countries**



**INDUSTRY: 107 replies, from
20 countries**

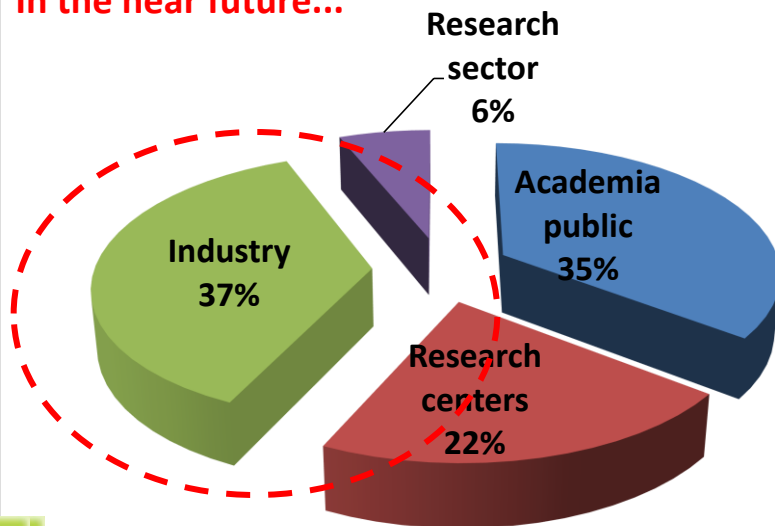
In the last years, most of your PhD students have found a job in the following sectors:

In the last years...



PhD students find a job

In the near future...

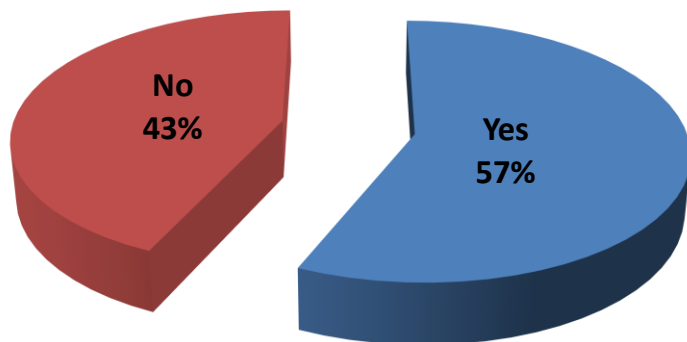


PhD students find a job in

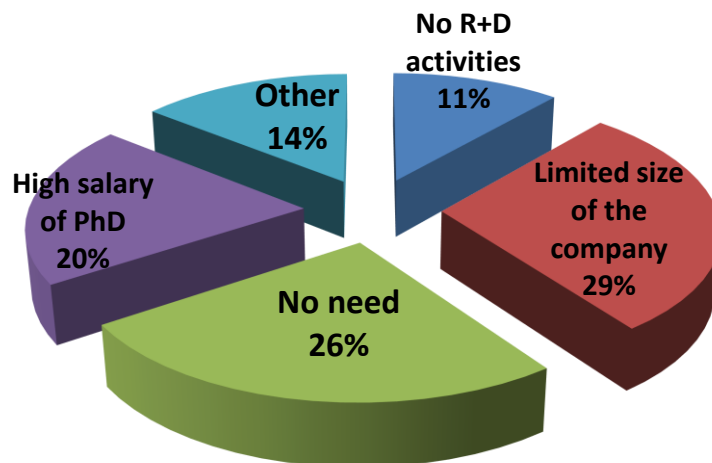
In the near future, probably most of your PhD students will find a job in the following sectors.

Do you have employees with a PhD degree?
If not, why ?

Employees with a PhD degree



If not, why?

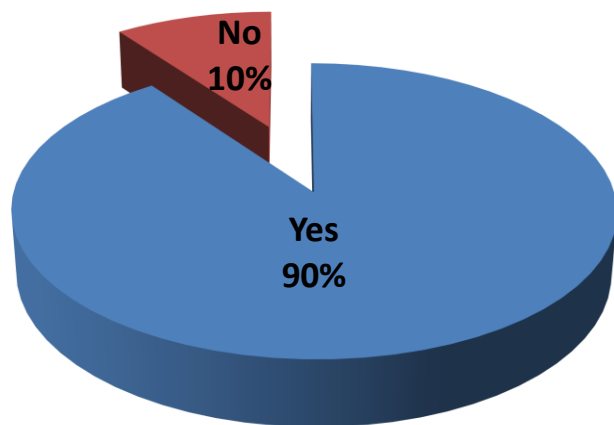


INDUSTRY

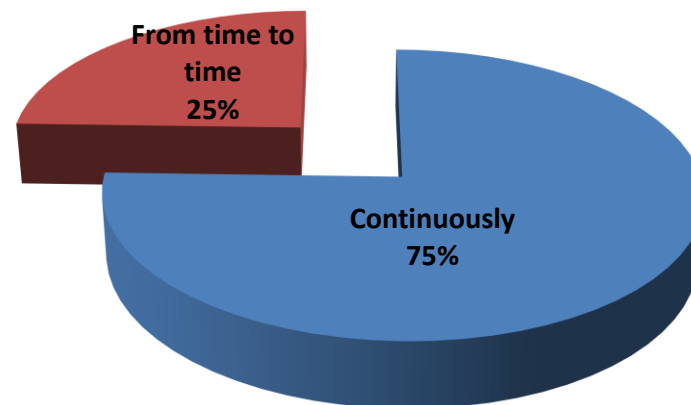
INDUSTRY

Does your organization conduct R+D activities?

R+D activities



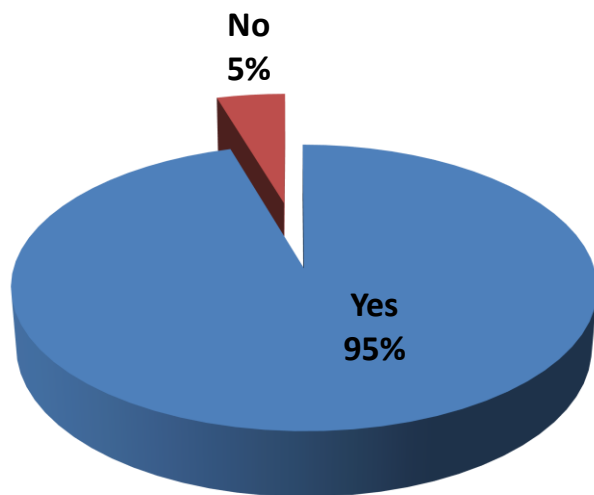
How often?



Do you think PhD students will need new skills for facing the future labour market perspectives?

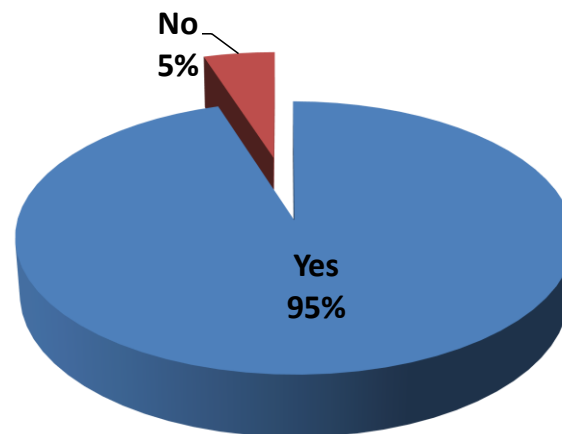
ACADEMIA

PhD students will need new skills



INDUSTRY

PhD students will need new skills

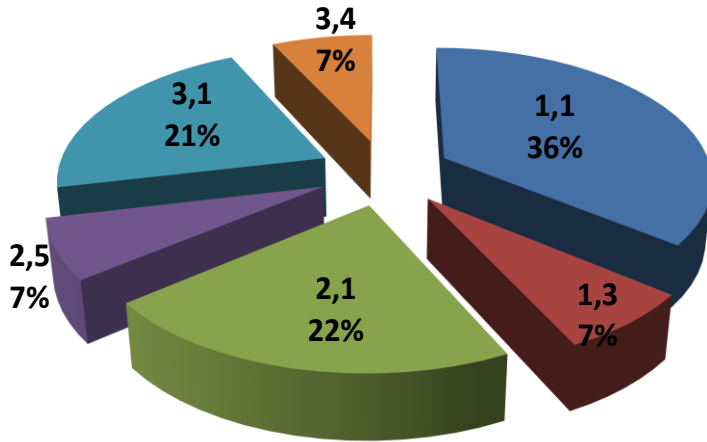


ACADEMIA *versus* INDUSTRY

GENERIC/personal COMPETENCES

Academia

Generic competences



First



36% Personal effectiveness

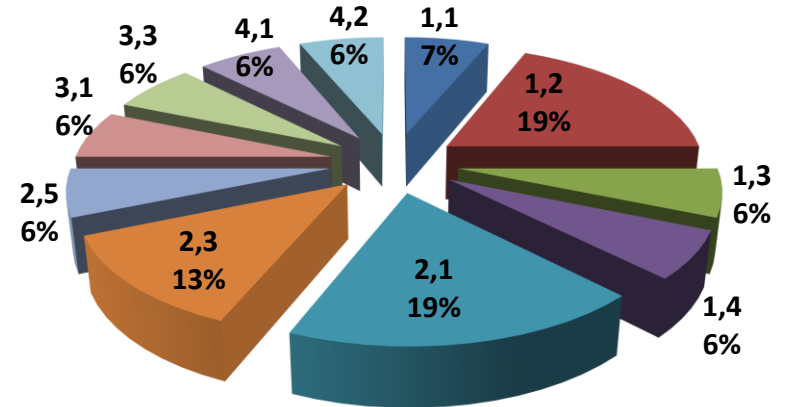
22% Communication skills

21% Networking and team working

57% Communication skills



Generic competences



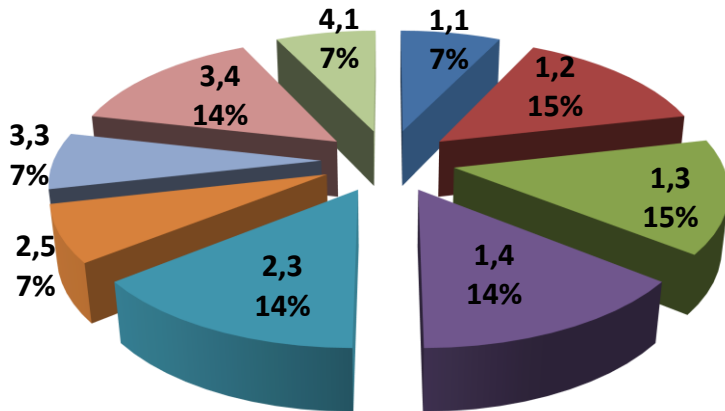
Second



44% Personal effectiveness

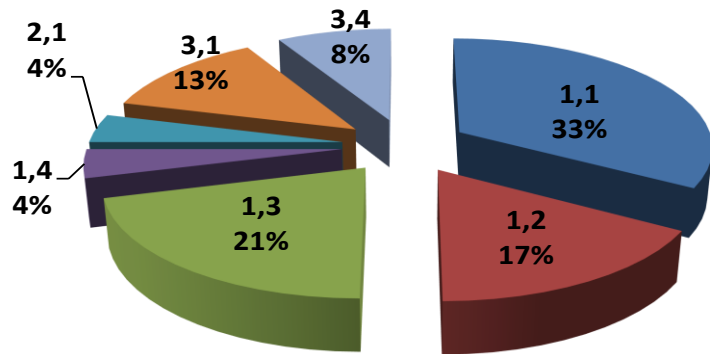
22% Communication skills

Generic competences



Third

Generic competences



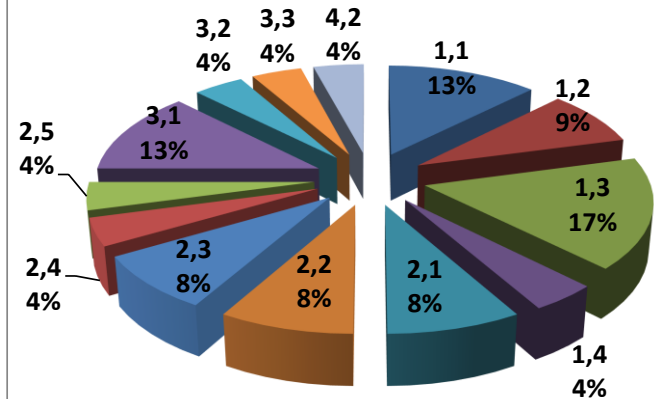
1st

GENERIC/Personal COMPETENCES Industry

75% Personal effectiveness

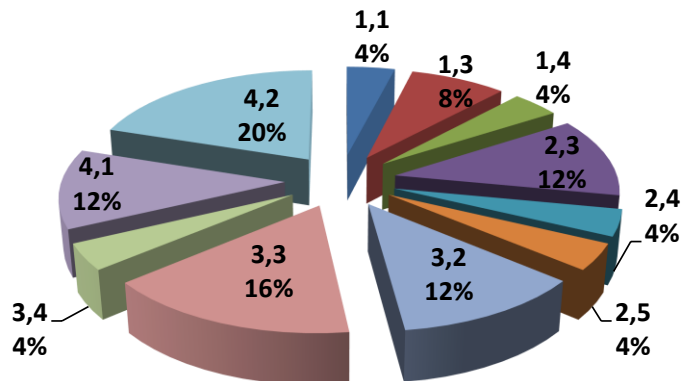
43% Personal effectiveness
32% Communication skills

Generic competences



2nd

Generic competences

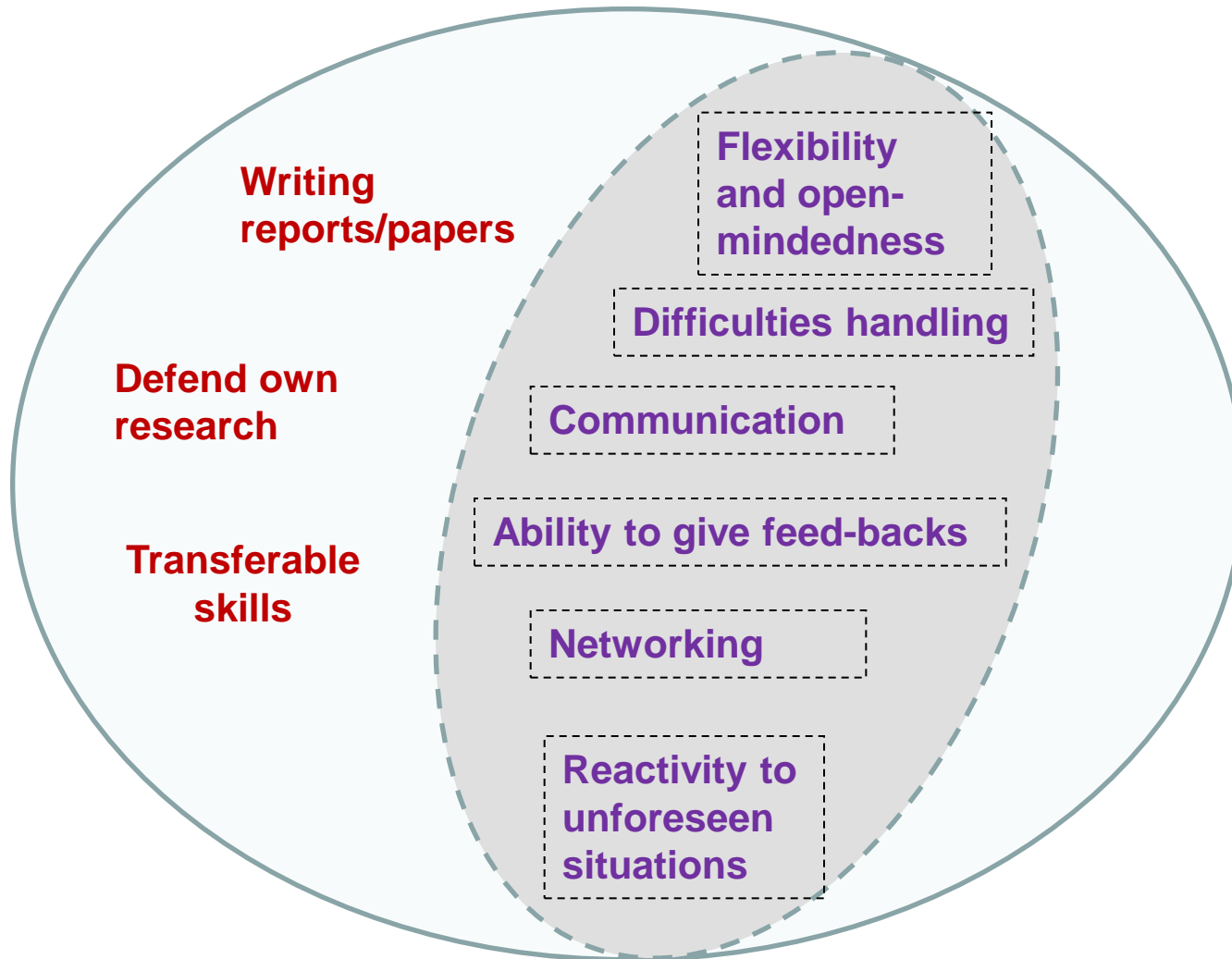


3rd

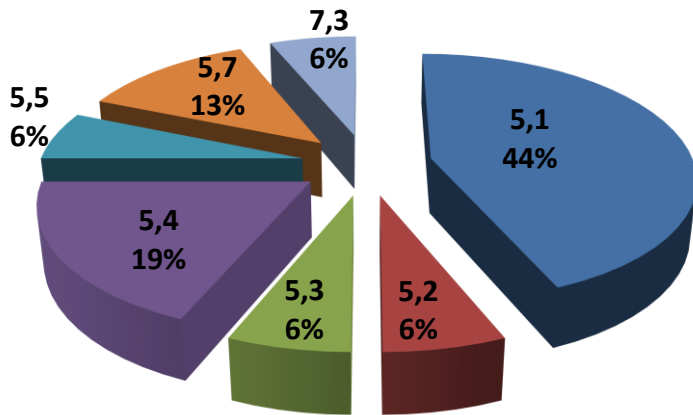
32% Networking and team working
32% Career management

GENERIC COMPETENCES

INDUSTRY- ACADEMIA



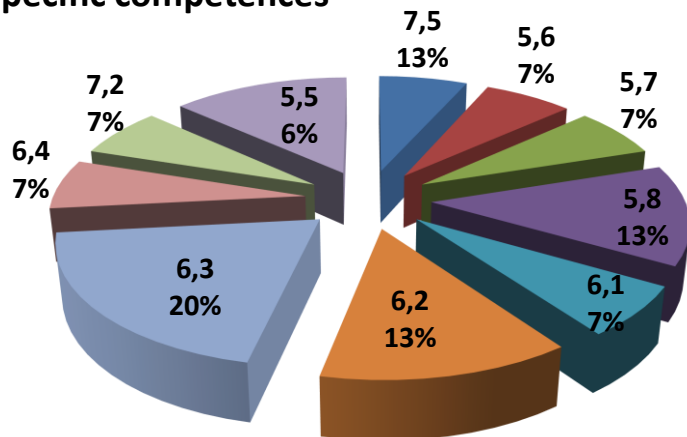
Specific competences



First

44% Research management

Specific competences



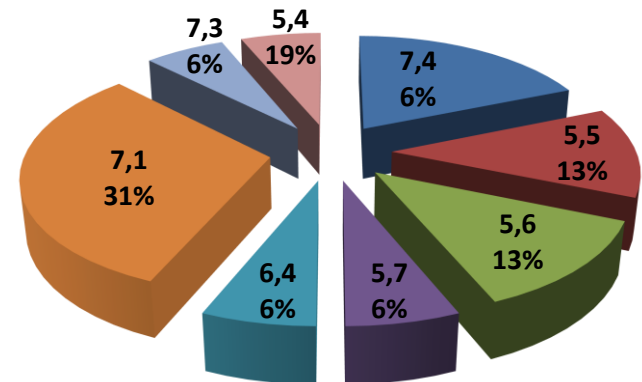
Third

SPECIFIC-TECH. COMPETENCES

Academia

94% Research skills and techniques

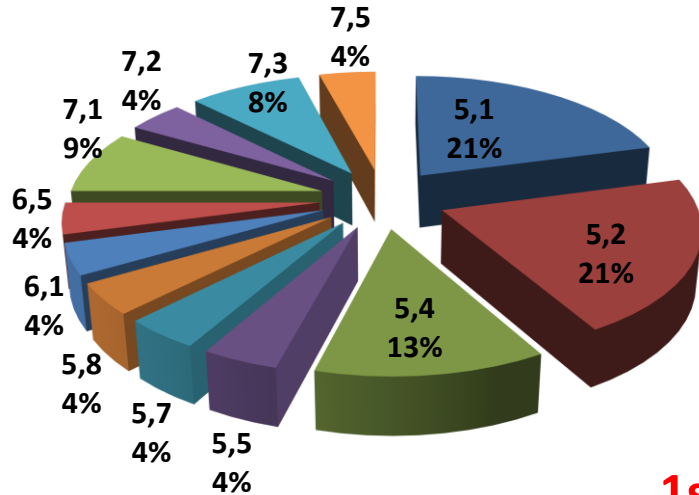
Specific competences



Second

**47% Research environment
21% Research management**

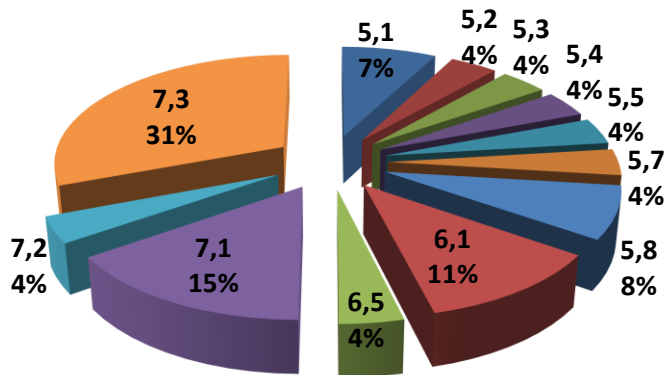
Specific competences



1st

60% Research skills and techniques

Specific competences

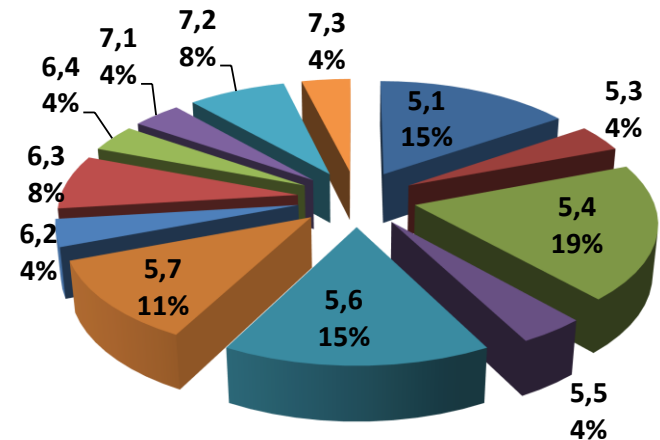


3rd

SPECIFIC / TECH. COMPETENCES Industry

63% Research skills and techniques
29% Research management

Specific competences

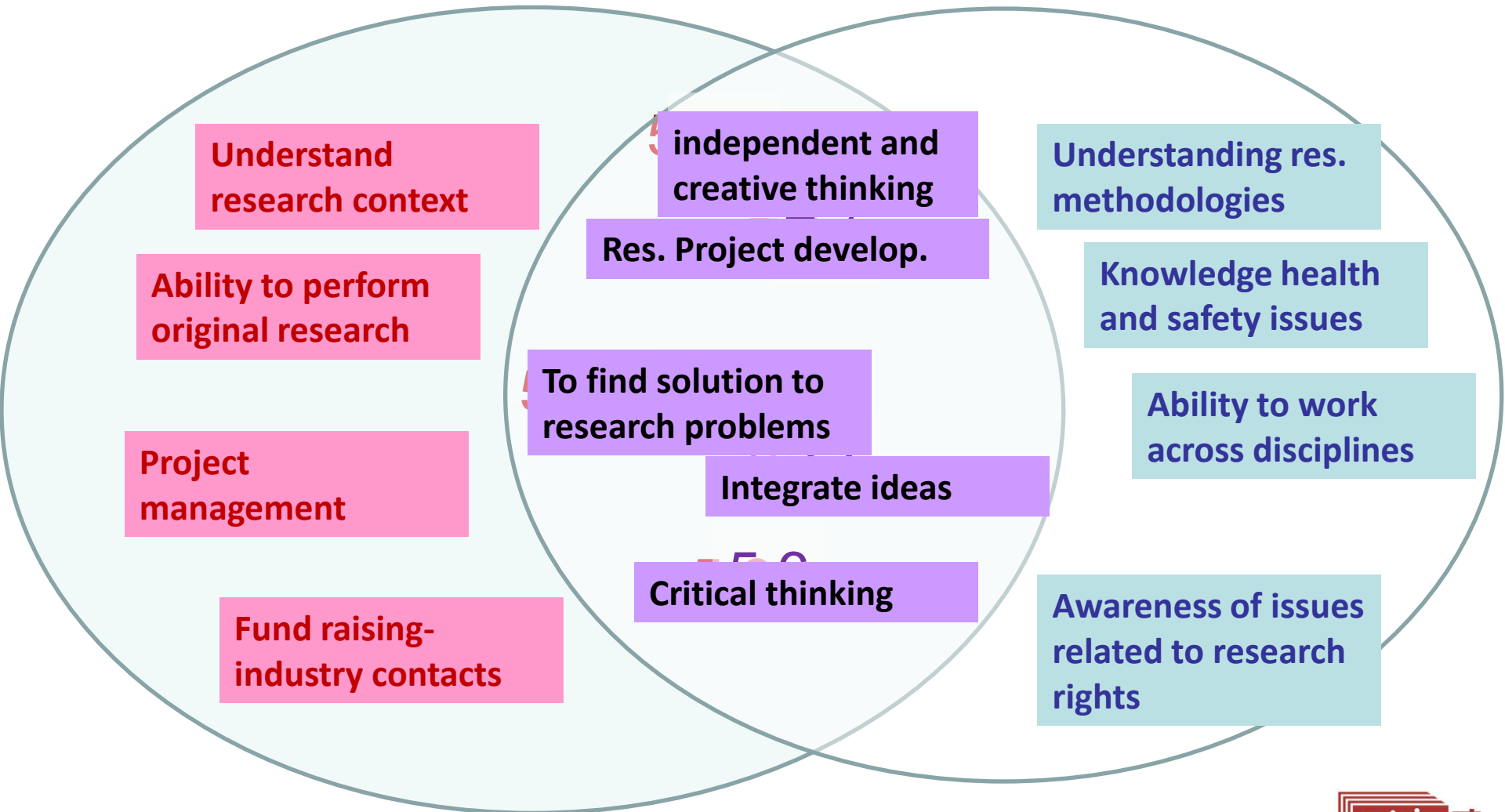


2nd

46% Research management
11% Research environment

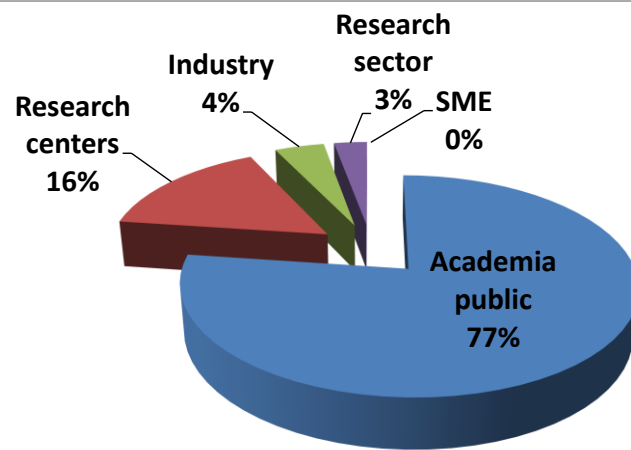
SPECIFIC/TECHNICAL COMPETENCES

INDUSTRY- ACADEMIA

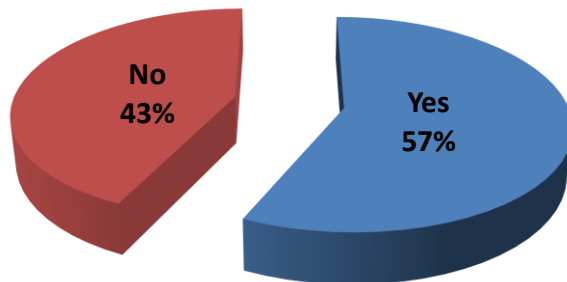


Do you consider attainment of a PhD degree increases your job opportunities /better paid job/salary?

ACADEMIA

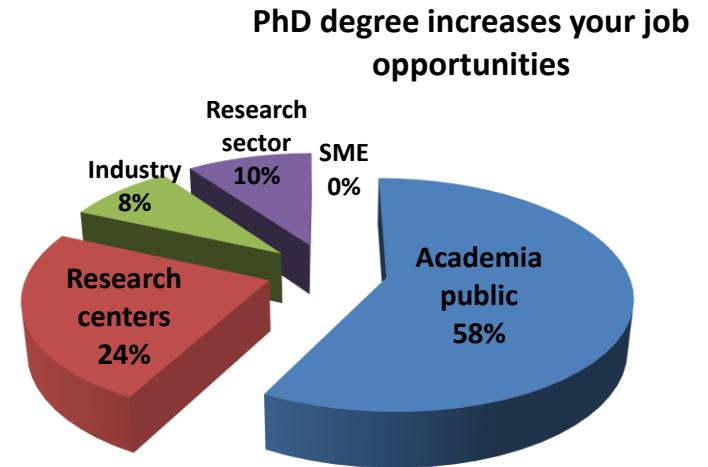


PhD degree increases your job opportunities

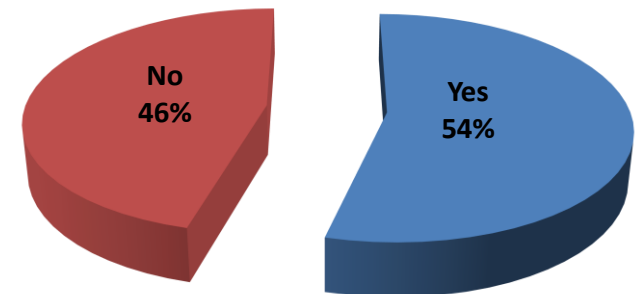


PhD degree means finding a better paid job/salary

INDUSTRY

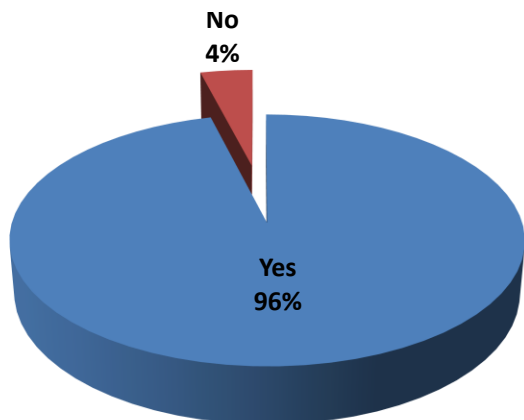


PhD degree means finding a better paid job/salary



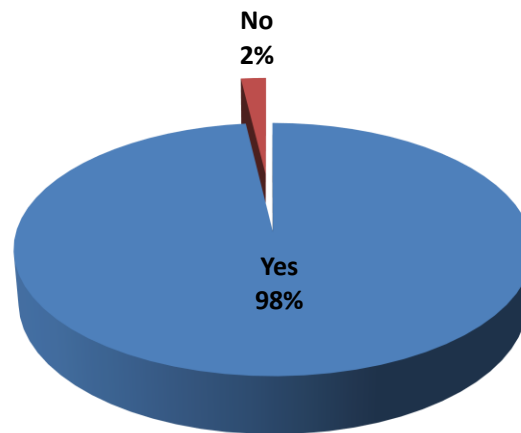
ACADEMIA/INDUSTRY: Post-docs in your country are well trained for ...

ACADEMIA: 92%



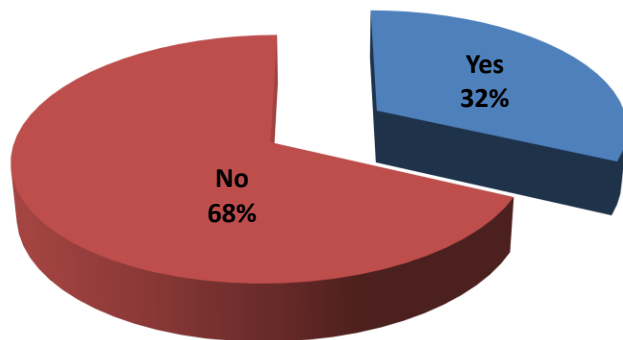
Academia

ACADEMIA: 90%



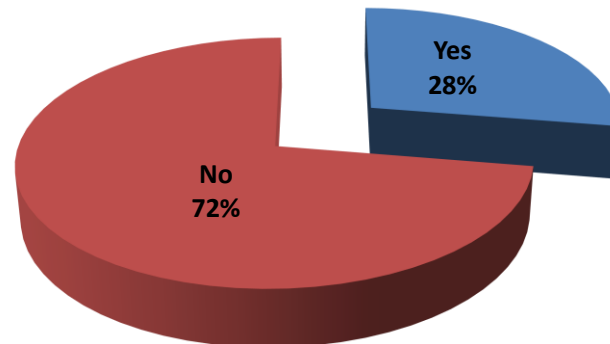
Research

ACADEMIA: 58%



Industry

ACADEMIA: 21%



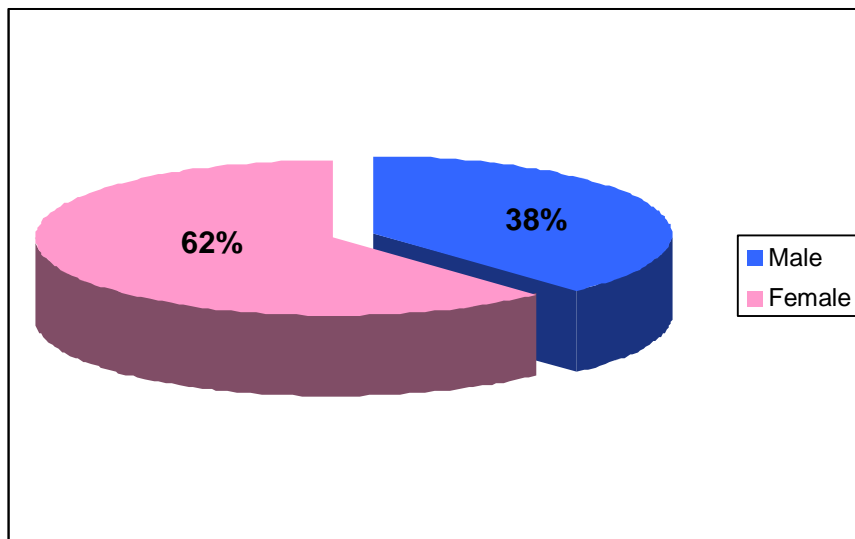
Bussiness

What about the opinion of the PhD students?

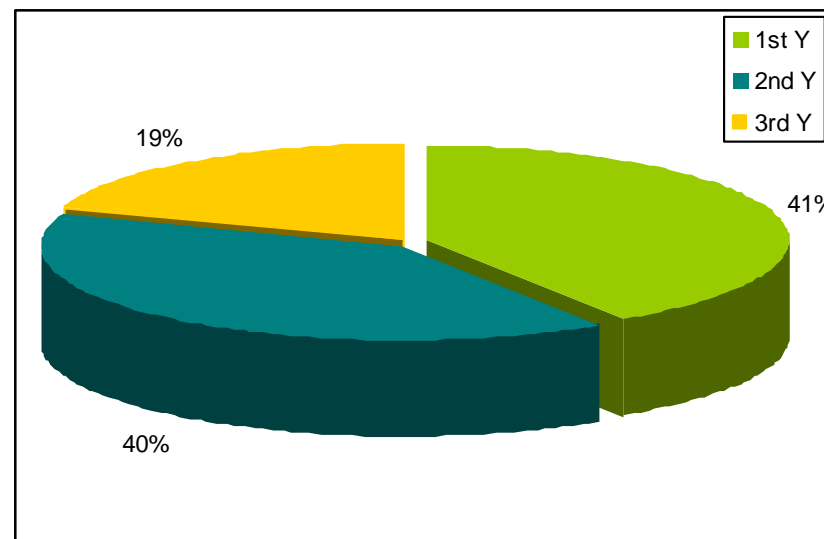


RESULTS of the survey carried out last year

PANEL: 108 respondents
 17 different Italian PhD courses

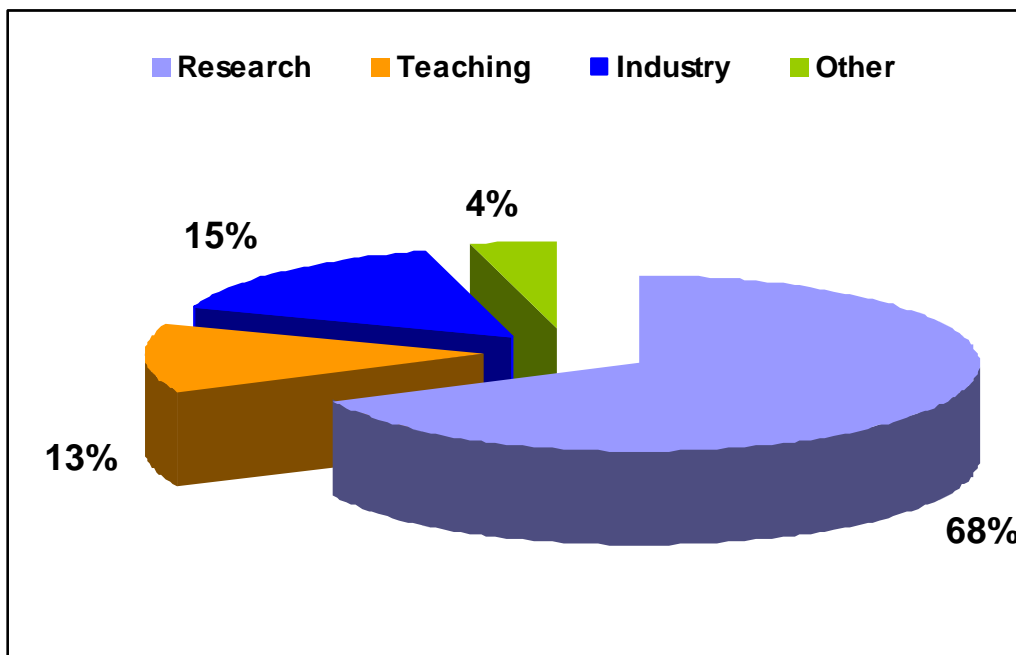


Distribution of the respondents by gender



Distribution of the respondents by PhD year

Question 4 (Q4): Planned future working position



Planned working sector of the respondents (Q4)

Question 5: In the future you are planning to find a job in the following sectors. Please rank them in order of importance, from 1st to 5th.

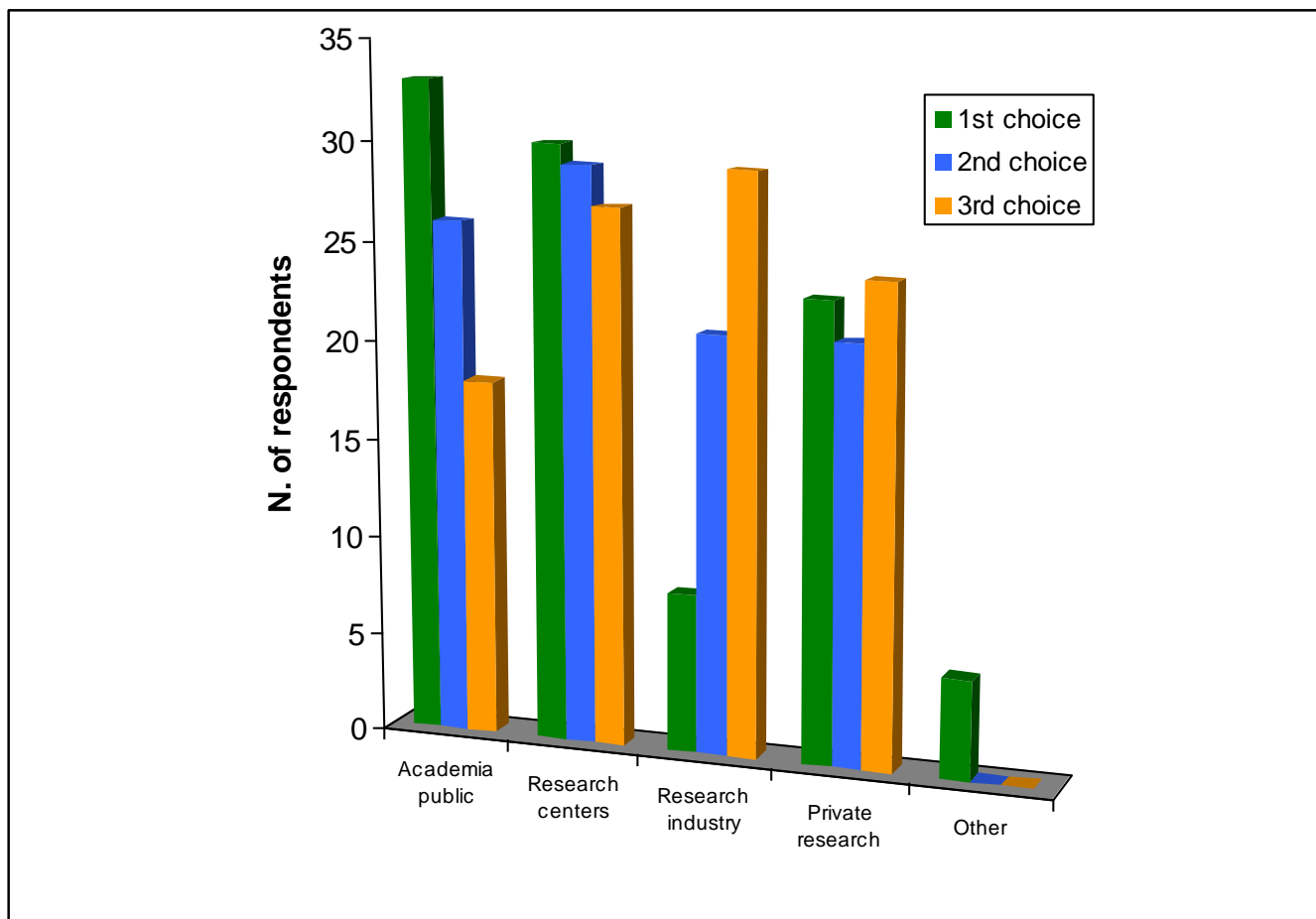
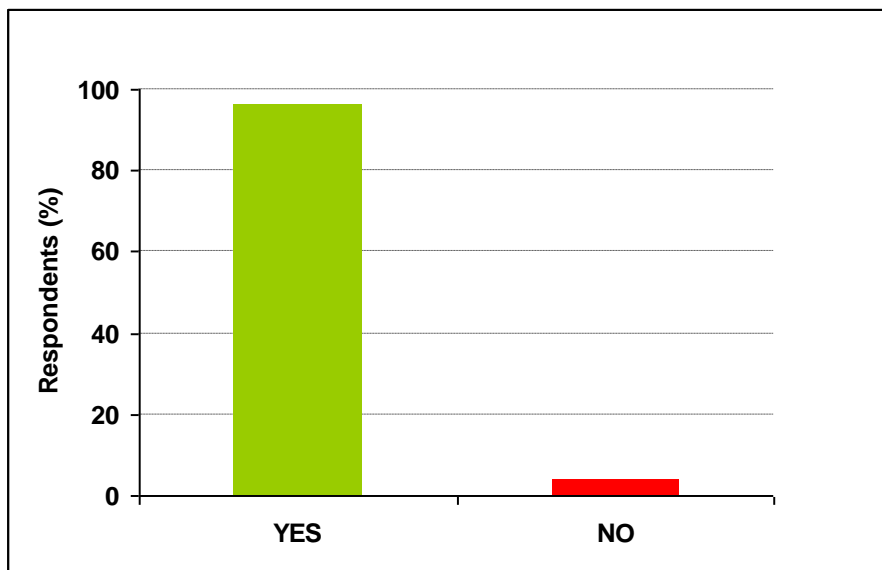


Figure 2.4. Number of responses for type of planned work sector after achievement of the PhD degree ranked from the 1st to the 3rd choice (Q5, n. respondents: 108).

In the “other” answer, the following jobs were cited: consultant, pharmaceutical, entrepreneur, Non-Government Organisation (FAO), teacher (school)

Question 6 (Q6): Do you think PhD students will need new skills for facing the future labour market perspectives?



Ranking new skills: Personal effectiveness

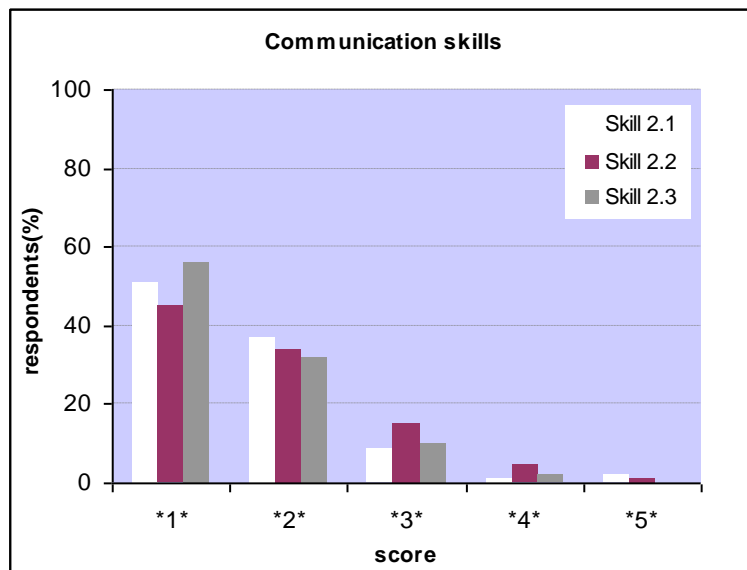


1.1 Flexibility and open-mindedness

1.2 Ability to handle difficulties in research or other professional activities

Distribution of the responses (as %) by score: generic skills-personal effectiveness

Ranking new skills: communication skills



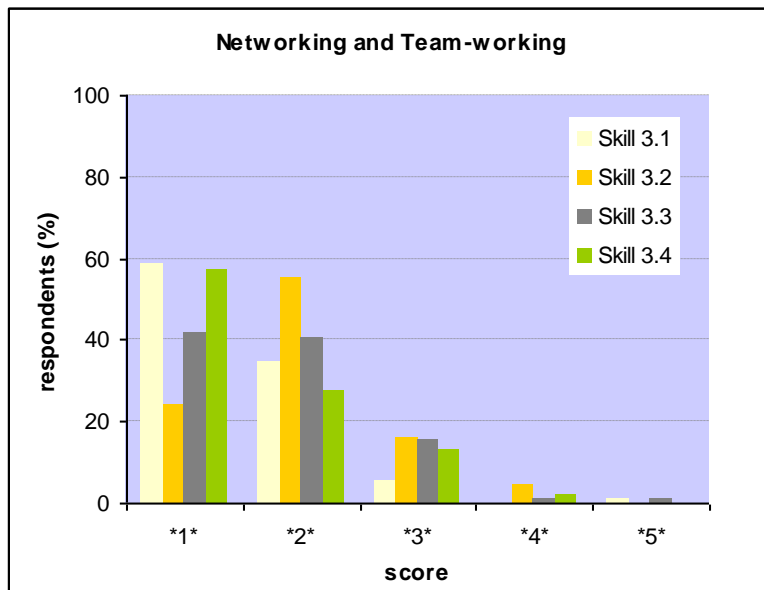
2.1 To write (report) fluently and efficiently scientific publications

2.2 To defend own papers in scientific conferences

2.3 To show ability to communicate effectively to a broad framework of audiences (interdisciplinary teams, expert conferences, science for society, workshops)

Distribution of the responses (as %) by score: generic skills-communication

Ranking new skills: networking and Team working

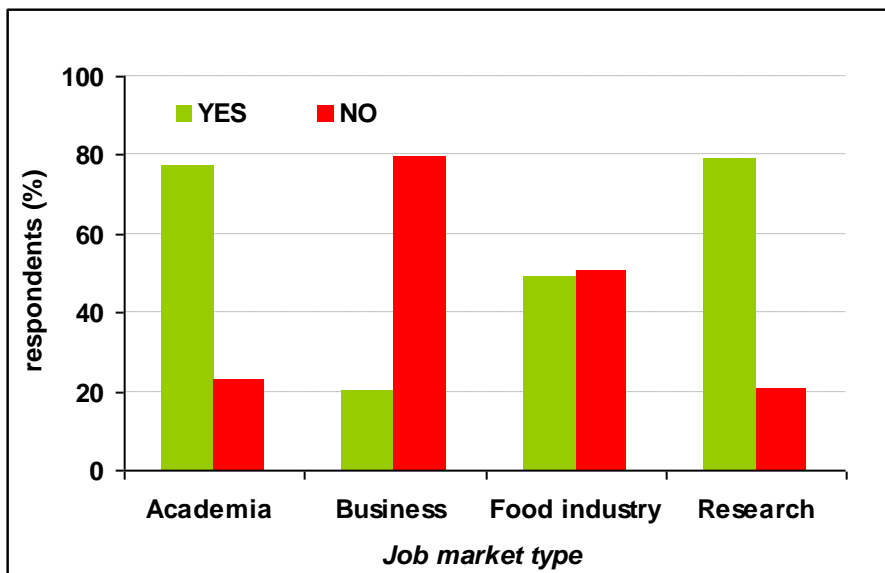


Distribution of the responses (as %) by score: generic skills-networking and team working

3.1 To develop and maintain co-operative networks and working relationships with supervisors, colleagues and peers within the institution and the wider research community	1,50
3.2 To understand one's behavior and impact on others when working in and contributing to the success of formal and informal teams	2,01
3.3 To listen, give and receive feedback and respond perceptively to others	1,79
3.4 To develop capacity to engage in multidisciplinary works	1,60

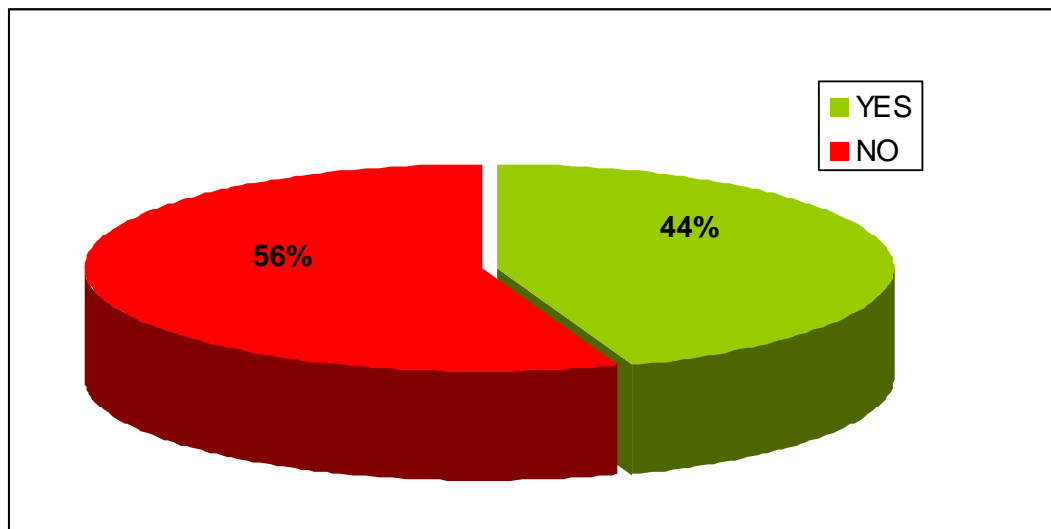
Question 9 (Q9): Do you think post-docs (after obtaining a PhD degree) in your country are well trained for which labour market (answer type: yes/no):

- Academia
- Business
- Food sector (industry)
- Research



Skills and competences of the current PhD graduates according to the food sector (n. respondents: 108)

Question 8 (Q8): Do you consider a PhD degree means finding a better paid job/salary?



Economic added value of the PhD degree

Thank you for your kind attention



<http://www.isekiconferences.com/athens2014/>



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