EUROPEAN COMMISSION

# Toolkit Gender in EU-funded research

Yellow Window Management Consultants Engender Genderatwork

Directorate-General for Research

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An overall introduction to gender and research INTRODUCTION

Ever since the Treaty of Rome, the European Union has consistently advocated gender equality as one of its core policies. Yet the monitoring and assessment studies of FP5 and FP6 have shown that despite the efforts to promote gender in research, women remain under-represented and the issue of gender is far from being systematically addressed in research projects.

What's more, there are sound reasons for the research community to invest in a gender-sensitive research agenda. Investing in equal opportunities for men and women in research makes for teams that perform better and attracts top-level researchers. Similarly, investing in a gender-sensitive approach to the research content makes for higher quality and validity.

To further promote gender equality in research, the European Commission's Research DG has decided to develop a gender toolkit and training activities. These will provide the research community with practical guidance on how to integrate gender into research.<sup>1</sup> They will:

- help researchers to understand the "gender and science" issue and make them more sensitive towards the gender dimension of/in science;
- help researchers include the gender dimension throughout a research project;
- indicate how to design a more sensitive project;
- help to eliminate gender bias in research projects;
- enable researchers to write a more competitive proposal;
- show why it is important to create a gender-balanced research team;
- help make research results more relevant for society.

"Science is supposed to be the paradigm of objective, rational and critical thought. For many people it is still the ideal model of modernity, social progress and even of enlightened civilisation itself insofar as it confronts customary biases and superstitions. So its continued refusal to examine critically its own gender prejudices, where this occurs, damages that reputation these days."<sup>2</sup>

#### Project team

Yellow Window Management Consultants Engender Genderatwork

<sup>&</sup>lt;sup>1</sup> Since the objective of this project is essentially pragmatic, the focus here is solely on gender. This is of course not to deny the importance of how other differences like race, age, sexuality, etc. might intersect with gender.

<sup>&</sup>lt;sup>2</sup> Harding, S. (2001) "How can women's standpoint advance the growth of scientific knowledge?" in Gender & Research, Conference Proceedings, European Commission

An overall introduction to gender and research

# THEORETICAL FRAMEWORK: DEFINITIONS AND CONCEPTS

- Sex refers to the biologically determined characteristics of men and women in Sex terms of reproductive organs and functions based on chromosomal complement and physiology. As such, sex is globally understood as the classification of living things as male or female.
- Gender refers to the social construction of women and men, of femininity and mas-Gender culinity, which varies in time and place, and between cultures. The notion of gender appeared in the seventies and was put forward by feminist theorists who challenged the secondary position of women in society. It departs from the notion of sex to signal that biology or anatomy is not a destiny. It is important to distinguish clearly between gender and sex. These terms are often used interchangeably while they are conceptually distinctive.
- **Gender equality** This term refers to the situation where individuals of both sexes are free to develop their personal abilities and make choices without the limitations imposed by strict gender roles. The different behaviours, aspirations and needs of women and men are considered, valued and favoured equally.

Equal opportunities for women and men

Equal opportunity indicates the absence of barriers to economic, political and social participation on the grounds of sex. Such barriers are often indirect, difficult to discern and caused by structural phenomena and social representations that have proved particularly resistant to change. *Equal opportunities*, which is founded on the rationale that a whole range of actions are necessary to redress deep-seated sex and gender-based inequities, should be distinguished from equal treatment, which merely implies avoiding direct discrimination.

Gender-sensitive In gender-sensitive research, gender is consistently taken into account throughout research the research cycle.

Gender-specific research focuses on gender itself as a subject matter.

Gender-specific research

Gender-blind research

Gender bias in research Gender-blind research does not take gender into account, being based on the often incorrect assumption that possible differences between men and women are not relevant for the research at hand.

Gender bias is the often unintentional and implicit differentiation between men and women by placing one gender in a hierarchical position relative to the other in a certain context, as a result of stereotypical images of masculinity and femininity. It influences both the participation of men and women in research (hence the underrepresentation of women) and the validity of research. An example of gender bias in research is research that focuses on the experience and point of view of either men or women, while presenting the results as universally valid.

# An overall introduction to gender and research A LEGAL OBLIGATION

**Gender equality** draws on a long history of policy development at European Union (EU) level, the origins lying in the EEC Treaty signed in Rome in 1957. Since then the European Union has adopted 13 directives in the field of gender equality, for instance those on equal pay and social security, protection of pregnant women and people on parental leave, and access to goods and services.

Following the Amsterdam Treaty of 1999, which established equality between men and women as a specific task of the Community and as a horizontal objective affecting all Community tasks, the European Commission (EC) formalised its commitment to advance gender equality in research in its Communication *Women and Science: mobilising women to enrich European research*.<sup>1</sup>

The decision on the 7th Framework Programme (FP7) states that "the integration of the gender dimension and gender equality will be addressed in all areas of research".  $^2$ 

# 4

# **GENDER IN RESEARCH**

The European Commission pursues a systematic and visible strategy to promote gender equality in science and research.

This **strategy** recognises that the relationship between women and research is threefold:

women's participation in science and research must be encouraged;

research must address women's needs as well as men's;

there should be research on the gender question itself, to enhance understanding of gender issues in science and research.

<sup>2</sup> Decision n° 1982/2006/EC of 18/12/2006, OJ L 412, 30/12/2006, p.1

<sup>&</sup>lt;sup>1</sup> European Commission (1999), Women and Science: mobilising women to enrich European research. Communication of the European Commission, Brussels: European Commission

Gender in research therefore requires actions relating both to the participation of women in research and to the gender dimension of research:

Improving women's participation in research requires including female researchers in teams at all levels while offering gendersensitive working conditions and culture. In all countries, despite very different education and employment systems, women disappear from the higher rungs of the academic ladder (a phenomenon called the "leaky pipeline"). To support gender equality, actions are necessary in recruitment, working conditions, monitoring and management. Addressing the gender dimension of research implies that gender is considered as a key analytical and explanatory variable in research. If relevant gender issues are missed or poorly addressed, research results will be partial and potentially biased. Gender can thus be an important factor in research excellence. To support this process, it is also essential to devote research resources to specific gender research.

Equal opportunities for men and women in research Encourage equal participation of men and women in research teams at all levels

Create working conditions and culture that allow men and women to have equally fulfilling careers

Address both women's and men's realities

Consider gender-specific research to fill knowledge gaps

ਿ HOW

WHAT

**WHO** 

Gender in research content

# An overall introduction to gender and research GENDER IN FP7

#### FP7 seeks to support gender equality by:

Actively promoting the role of women in science – a target of 40% women's participation at all levels has been set;

Equally addressing women's and men's realities as an integral part of the research to ensure the highest level of scientific quality: *"Wherever human beings are involved in the research, for example as consumers, users and patients, or in trials, gender will be an issue and should be considered and addressed"*. <sup>5</sup>

To **effectively implement** the commitments on gender equality in FP7, **actions** are expected at different levels of the programme and on the part of various actors at programme and project levels.

**Research teams** are encouraged to integrate gender and promote equality starting at the proposal stage. Gender aspects can be addressed in a specific work package or as a task within a work package.

In terms of promoting gender equality, subscribing to the principles<sup>6</sup> of the *European Charter and Code of Conduct for the Recruitment of Researchers* is good practice (e.g. open and impartial selection procedure and fair working conditions and culture).

The *FP7 Negotiation Guidance Notes* also give concrete examples of actions to be adopted by research teams and universities to support the commitment to gender equality.

At the end of projects, research teams have to report on workforce statistics and project holders have to submit a compulsory deliverable relating to awareness and wider societal implications including gender-related aspects.

<sup>&</sup>lt;sup>5</sup> European Commission (2009), FP7 Negotiation Guidance Notes – Collaborative Projects, Networks of Excellence, Coordination and Support Actions, Research for the benefit of specific groups (in particular SMEs), version 27 January 2009, Brussels: European Commission

<sup>&</sup>lt;sup>6</sup> European Commission (2005), Commission Recommendation 2005/251 of 11 March 2005 OJ L75/67, 22/3/2005

### An overall introduction to gender and research

# EXCELLENT RESEARCH IS GENDER-SENSITIVE

There are sound reasons for the research community to invest in a gender-sensitive research agenda. These concern both the 'equal opportunities' aspect and the 'gender in research content' aspect.

Investing in equal opportunities for men and women in research makes for teams that perform better, and attracts top-level researchers

#### The best possible team

To achieve excellent research you need to constitute the best possible team. And the best possible team is a mixed team. Research has shown that mixed teams – if well-managed – are more efficient than single-sex teams: mixed teams are more creative, contain more diverse points of view and show an improved quality of decision-making. Also, in general, both men and women prefer working in well-managed mixed teams.

### The best possible talent

To achieve excellent research you need to get the best talent from the entire potential talent pool. In order to do so, you need to create working conditions and culture that allow men and women to have equally fulfilling careers. This helps to attract and keep the best male and female talents and encourages and motivates women and men who want to combine work and private life in a satisfactory manner.

# Investing in a gender-sensitive approach to the research content makes for higher quality and validity

#### The best possible research validity

Gender-sensitive research is qualitatively better and more valid: if research takes into account the differences between men and women in the research population, the results will be more representative. General categories such as 'people', 'patients' or 'users' do not distinguish between men and women. Research based on such categories may well draw partial conclusions based on partial data. For example, research on a new breast cancer treatment should include male patients, so as to draw a complete picture. Research on economic migrants cannot limit itself to male points of view if it wants to understand the whole migrant population.

#### The best possible research utility

Gender-sensitive research will reach a broader group of end-users in a more relevant way. Research that does not concern a human research population might still have human end-users. Again this population consists of men and women, with their different needs and aspirations. And these gender differences might very well influence the use of the research outcome. Taking gender into account and asking from the start who will use the results, when and how, can avoid an unintentional gender bias in the outcome.

# How to make research gender-sensitive THE GENDER-SENSITIVE RESEARCH CYCLE

# Take gender into account at all stages of the research cycle

Gender-sensitive research takes a twin approach: it pays attention to the participation of women and men, providing equal opportunities for all, and it integrates gender into the research content all the way from the initial research idea to the dissemination of results.



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## How to make research gender-sensitive PARTICIPATION OF WOMEN AND MEN IN RESEARCH

Academic research on inequalities in the research sector and on the loss of women from the profession has shown that these are a consequence of an accumulation of many differences and biases. Some are small, while others are overt forms of discrimination and resistance. Many are implicit, unconscious, but often very powerful, biases in values, priorities and practices.

### Selection and recruitment

There is evidence that men and women are not assessed on the same basis, and neither are their respective achievements. To avoid gender bias, it is important to:

ensure open and impartial selection procedures: use mixed selection panels, train panel members on gender bias, advertise open posts widely, explicitly encourage women to apply, accommodate atypical career patterns;

use explicit, precise and transparent selection criteria: set standards that are relevant to the pursuit of scientific knowledge, use appropriate indicators of performance that fit the life-cycle productivity of both men and women.

### Working conditions and culture

The culture of the workplace influences whether women scientists, and increasingly also men, feel welcome. What is needed is a working culture that fosters equal working conditions (pay, opportunities for training, access to grants and funding), is aware of different possibilities in terms of geographical mobility, and accommodates private commitments or different career structures. This is also relevant within projects, for instance in scheduling and organising meetings or activities requiring mobility.

### Monitoring and management measures

To improve equality it is important to acknowledge that bias and discrimination might indeed exist and to investigate what is going wrong. Reducing gender bias in research calls for the active involvement of all participants in the process, both men and women, at all levels. Actions may include: setting ratios for participation, putting in place monitoring systems, installing feedback mechanisms and appointing a trained gender equality officer.

## How to make research gender-sensitive GENDER IN RESEARCH CONTENT

## Research ideas and hypotheses

The relevance of gender for and within the subject matter needs to be analysed and an assessment made of the state of knowledge in this respect. The formulation of hypotheses can draw upon previous research and existing literature. Indeed, the body of knowledge on gender issues has been steadily growing over recent decades, and can serve as interesting reference material to build new hypotheses for future research.

### Project design and research methodology

While research methodologies may vary, they all strive to represent (aspects of) reality. Whenever this reality concerns humans, any scientifically sound methodology should differentiate between the sexes and take into account men's and women's situations equally. Groups such as 'citizens', 'patients', 'consumers', 'victims' or 'children' are therefore too general as categories.

### **Research implementation**

**Data collection tools** (such as questionnaires and interview checklists) need to be gender-sensitive, use gender-neutral language, and should make it possible to detect the different realities of men and women. This will help to avoid gender bias. For example, answers to be provided by the 'head of household' are not necessarily valid for all household members.

**Data analysis:** In most research concerning human subjects, data are routinely disaggregated by sex, which would logically lead to analyses according to sex. However to date this is still not common practice. Systematically taking sex as a central variable, and analysing other variables with respect to it (e.g. sex and age, sex and income, sex and mobility, sex and labour) will provide significant and useful insights. Involving gender-balanced end-user groups in the course of the research is also a good way of guaranteeing the highest impact.

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### Dissemination phase – reporting of data

Collecting and analysing gender-specific data is not enough if they are omitted from the published results. Gender should be included in 'mainstream' publications as it is as much part of daily reality as any other variable studied.

Specific dissemination actions (publications or events) for gender findings can be considered. Institutions and departments that focus on gender should be included in the target groups for dissemination. Publications should use gender-neutral language.

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|---|---|
|   | How to make research gender-sensitive   |
|   | CHECKLIST FOR GENDER  |
|   | IN RESEARCH   |
|   |   |
|   | Equal opportunities for women and men in research   |
|   | Is there a gender balance in the project consortium and team, at all levels and in decision-making posi-<br>tions?  |
|   | Do working conditions allow all members of staff to combine work and family life in a satisfactory manner?  |
|   | Are there mechanisms in place to manage and monitor gender equality aspects, e.g. workforce statistics, as required by FP7?   |
|   | Gender in research content  |
|   | Research ideas phase:   |
|   | If the research involves humans as research objects, has the relevance of gender to the research topic been analysed?   |
|   | If the research does not directly involve humans, are the possibly differentiated relations of men and women to the research subject sufficiently clear?  |
|   | Have you reviewed literature and other sources relating to gender differences in the research field?  |
|   | Proposal phase:   |
|   | Does the methodology ensure that (possible) gender differences will be investigated: that sex/gender-<br>differentiated data will be collected and analysed throughout the research cycle and will be part of the final<br>publication? |
|   | Does the proposal explicitly and comprehensively explain how gender issues will be handled (e.g. in a specific work package)?   |
|   | Have possibly differentiated outcomes and impacts of the research on women and men been considered?   |
|   | Research phase:   |
|   | Are questionnaires, surveys, focus groups, etc. designed to unravel potentially relevant sex and/or gender differences in your data?  |
|   | Are the groups involved in the project (e.g. samples, testing groups) gender-balanced?<br>Is data analysed according to the sex variable? Are other relevant variables analysed with respect to sex?                                    |
|   | Dissemination phase:  |
|   | Do analyses present statistics, tables, figures and descriptions that focus on the relevant gender differences that came up in the course of the project?   |
|   | Are institutions, departments and journals that focus on gender included among the target groups for dissemination, along with mainstream research magazines?   |
|   |   |

How to make research gender-sensitive

## FURTHER READING

Bíziková, L., Sedová, T., and Szapuová, M. (2007), *Why Gendered Science Matters. How to Include Gender Dimension into Research Projects* (accessible at http://www.cec-wys.org/prilohy/aedc08b1/manual%20main%20body%20final.pdf).

CGIAR, Gender & Diversity: Database of women scientists & professionals (accessible at http:// www.genderdiversity.cgiar.org/cast\_the\_net/default.asp).

European Commission (2000), Science Policies in the EU: Promoting Excellence through Mainstreaming Gender Equality, ETAN Report (accessible at ftp://ftp.cordis.europa.eu/pub/ improving/docs/g\_wo\_etan\_en\_200101.pdf)

European Commission (2001), *Gender & Research, Conference proceedings* (accessible at ftp://ftp4.cordis.lu/pub/improving/docs/women\_conference\_proceedings\_08112001.pdf#page=145).

European Commission (2001), Gender in Research – Gender Impact Assessment of the specific programmes of the Fifth Framework Programme – Synthesis Report (accessible at ftp://ftp.cordis.europa.eu/pub/science-society/docs/women\_gender\_impact\_fp5\_en.pdf).

European Commission (2002), *Women in industrial research: a wake up call for European industry* (accessible at http://ec.europa.eu/research/science-society/women/wir/pdf/wir\_final.pdf).

European Commission (2003), Waste of Talents: Turning Private Struggles into a Public Debate (accessible at http://ec.europa.eu/research/science-society/women/enwise/pdf/enwise-report-02-intro.pdf).

European Commission (2004), Gender and Excellence in the Making (accessible at http://ec.europa.eu/research/science-society/pdf/bias\_brochure\_final\_en.pdf).

European Commission (2005), The European Charter for Researchers – The Code of Conduct for the Recruitment of Researchers (accessible at http://ec.europa.eu/eracareers/pdf/am509774CEE\_EN\_E4.pdf).

European Commission (2005), Women and Science – Excellence and Innovation – Gender Equality in Science (accessible at http://ec.europa.eu/research/science-society/pdf/documents\_women\_ sec\_en.pdf).

European Commission (2006), Women in Science and Technology – The Business Perspective (accessible at http://ec.europa.eu/research/science-society/pdf/wist\_report\_final\_en.pdf).

European Commission (2008), *Mapping the Maze: Getting More Women to the Top in Research* (accessible at http://ec.europa.eu/research/science-society/document\_library/pdf\_06/ mapping-the-maze-getting-more-women-to-the-top-in-research\_en.pdf).

European Commission (2008), *Gender equality report 6th Framework Programme*, http://ec.europa.eu/research/science-society/document\_library/pdf\_06/gender-equality-report-fp6-final\_en.pdf (08/06/2009).

European Commission (2009), *The Gender Challenge in Research Funding – Assessing the European national scenes*, Office for Official Publications of the European Communities, Luxembourg.

European Commission (2009), *She Figures 2009 – Women and Science, Statistics and Indicators* (accessible on http://ec.europa.eu/research/science-society/index.cfm?fuseaction=public. topic&id=27).

European Commission (2009), Monitoring progress towards gender equality in the 6th Framework Programme.

Foschi, M. (2000), Double Standards for Competence: Theory and Research, Annual Review of Sociology, 26(1): 21-42.

UPGEM, Ed. (2008), Draw the line! Universities as workplaces for male and female researchers in Europe, Tartu University Press, Tartu (accessible at http://www.dpu.dk/Everest/Publications/subsites%5Cupgem/20080616093832/CurrentVersion/Table%20of%20contents%20&%20 General%20Introduction.pdf?RequestRepaired=true).

Wenneras, C. and A. Wold (1997). *Nepotism and sexism in peer-review*, Nature 387/22(6631): 341-343 (accessible at http://dx.doi.org/10.1038/387341a0).

For further information and useful links, please consult the Gender in Research Toolkit and Training website under www.yellowwindow.com/genderinresearch.



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