



## Impact of Women in Industrial Competitiveness

**Women in Industry** 

#### Context

There is still few research regarding the impact of women in industrial competitiveness. The Women in Manufacturing Expert Group 2021 Report gathered some of it:

Only **1/3** manufacturing professionals

and **1/4** manufacturing leaders are women

Deloitte. Women in manufacturing study. Exploring the gender gap.

Women are underrepresented in Manufacturing and STEM education

**47%** of the labor force is made up by women, but only **20%** of the manufacturing workforce

International Labour Organization. ILO. January 2021.

**3/4** of the female population don't even consider manufacturing as a potential career

UNIDO. Nelson, Judy. (2020, November 10). Why We Have Gender Inequality in Manufacturing. 33% 24% 15% 9% Junior level Mid-level Senior level CEO Staff Staff Staff

Across all industries, women make up on average: World Economic Forum (2016) The Industry Gender Gap Women and Work in the Fourth Industrial Revolution.

 "Gender equality no longer remains just a matter of human rights, but a fundamental question to ensure competitiveness and economic recovery." UNIDO, 2019

Companies in the **top quartile of gender diversity** on executive teams were **25 percent more likely to experience above-average profitability** than peer companies in the fourth quartile. *McKinsey&Company.* (2020, *May*). *Diversity wins How inclusion matters*. A profitable firm at which **30 percent of leaders are women** could expect to add **more than 1 percentage point to its net margin** compared with an otherwise similar firm with no female leaders . *Marcus Noland, Tylor Moran, Barbara Kotschwar. (2016). Is Gender Diversity Profitable? Evidence from a Global Survey.* 



#### Objectives of SPRI 2023 Study on the Impact of Women in Industrial Competitiveness

- The research has a **twofold objective**:
  - To provide a methodology to analyze the correlation between gender equality and industrial competitiveness.
  - To develop a case study that provides data as an objective basis to help prove that a higher rate of gender diversity benefits business competitiveness.

#### METHODOLOGY

Multidimensional and comprehensive assessment of the concepts of competitiveness and gender equality in industrial companies.



#### **CASE STUDY**

Survey launched to 2,500 Basque industrial and/or industrial-related services companies. A sample of 474 companies was achieved.

Characteristics that make the Basque Country a suitable region:

- Weight of industrial activities on GDP: 23,9% (almost 40% of GDP of industrial-related services are considered).
- Weight of women in the labor market: 44%
- Weight of employed women in industry: 21%

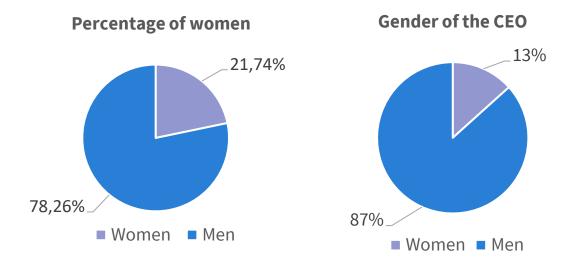


#### Methodology

Two different composite indexes were created, one related to competitiveness and the other to equality. Each index is composed of a set of sub-indexes and variables that are weighted to reflect the importance of each of them.

СОМР	ETITIVENESS INDEX	EQUALITY INDEX		
Sub Index	Variables	Sub Index	Variables	
1. Billing growth index	2021 turnover growth percentage relative to 2019	1. Index of equality between departments	Percentage of women by department	
		2. Index of equality between positions	Percentage of women by position	
2. Employee growth index	2021 employee growth percentage relative to 2019	3. Equality index in selection	Equal candidacy in the selection processes	
z. Employee growth much	2021 employee grown percentage relative to 2010	processes	Equality training for HR staff	
3. Innovation index	<ul> <li>R&amp;D activity</li> <li>R&amp;D department</li> <li>R&amp;D employees</li> <li>Has taken part in some R&amp;D program</li> <li>Percentage of R&amp;D revenues/total</li> </ul>	4. Equality index in conciliation	<ul> <li>Flexibility in working hours</li> <li>Existence of paid parental leave for childcare</li> <li>Leave for serious illness of a family member</li> <li>Continuous working day to care for children</li> <li>Existence of Teleworking option</li> <li>Existence of Strategic commitment to equality</li> <li>Existence of Equality Plan</li> </ul>	
4. Internationalization index	<ul><li>Turnover percentage of exports</li><li>International R&amp;D projects</li></ul>	5. Index of commitment to equality	<ul> <li>Existence of Equality Group</li> <li>Existence of Sexual harassment Protocol</li> <li>Existence of promotion policies for women</li> <li>Existence of positive discrimination</li> <li>Existence of equality training for employees</li> </ul>	

- Women represent 21.74% of the workforce in the sample.
- Only 13% of the companies have a woman at the lead.



• Women are underrepresented regardless their qualification, position or role

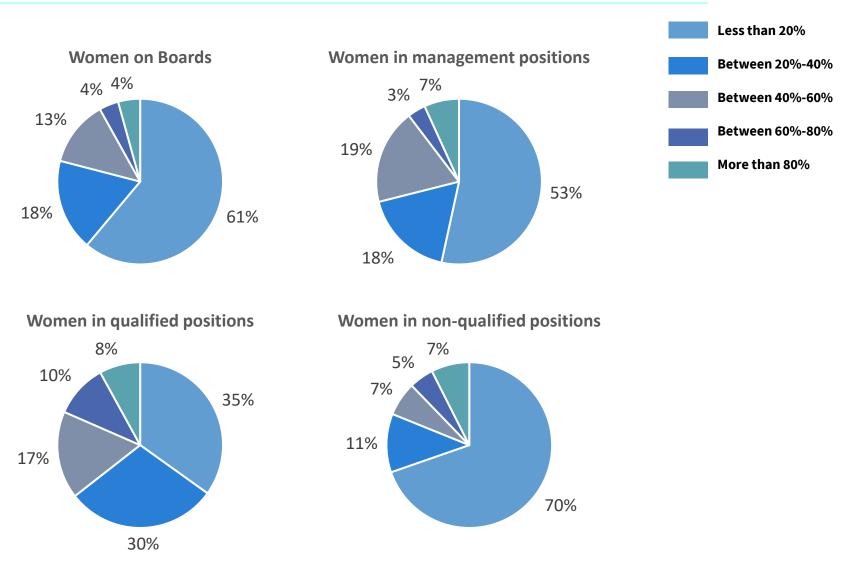
### **Sample characterization**

**Main figures** 

#### Sample characterization. Women are underrepresented regardless their qualification

- Women represent less than 20% on the boards of more than 60% of companies and on management positions in more than 50% of companies.
- Women are more present in qualified positions than in non-qualified ones. This data reveals a significant under-representation of women in decision-making positions despite their qualification.

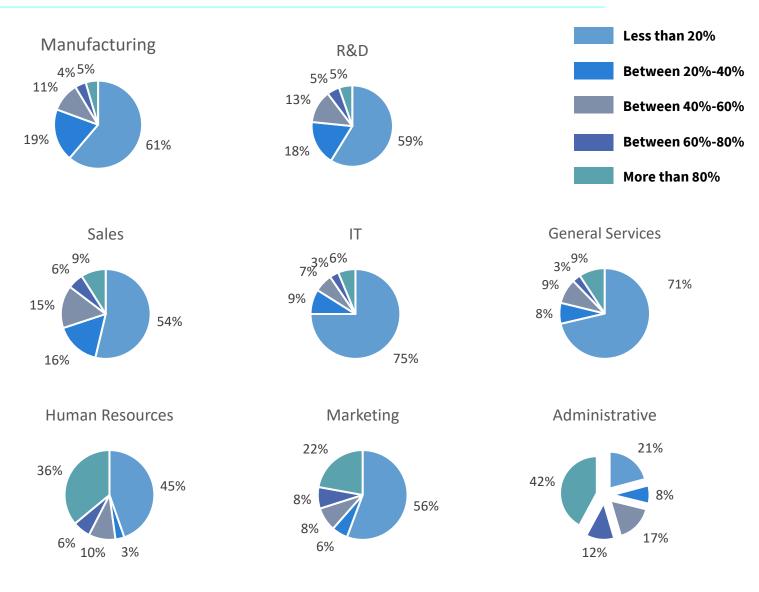




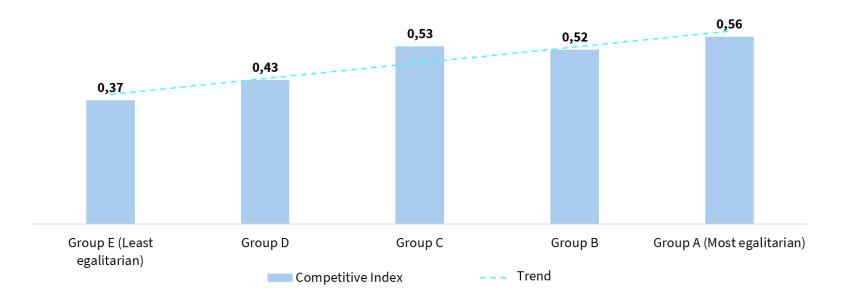
#### Sample characterization. Women are underrepresented regardless their role

- Only 10% of companies show parity between women and men in average, dropping to a 7% in the IT department. In 67% of the companies that responded to the questionnaire, women are represented between 0% and 20% in these departments.
- Women are notably more present in the less technical departments such as sales, marketing, human resources, and administration. They even outnumber the presence of men in the administration departments. In fact, the percentage of companies that show parity in these departments remains at an average of 13%.





• Companies with higher gender inclusion are more competitive



- The most egalitarian companies have better results in:
  - Turnover and employment
  - R&D intensity
  - International activity

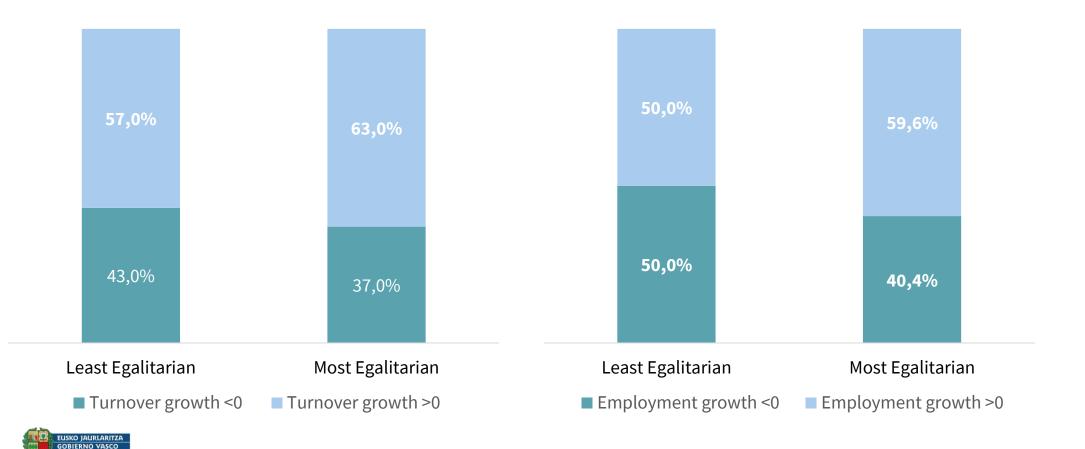
NB: The indexes in the chart shows the average results for each group. The dataset has been distributed by quintiles. The index range is between 0 (Min) and 1 (Max).

### Key Findings -Competitiveness

perspective

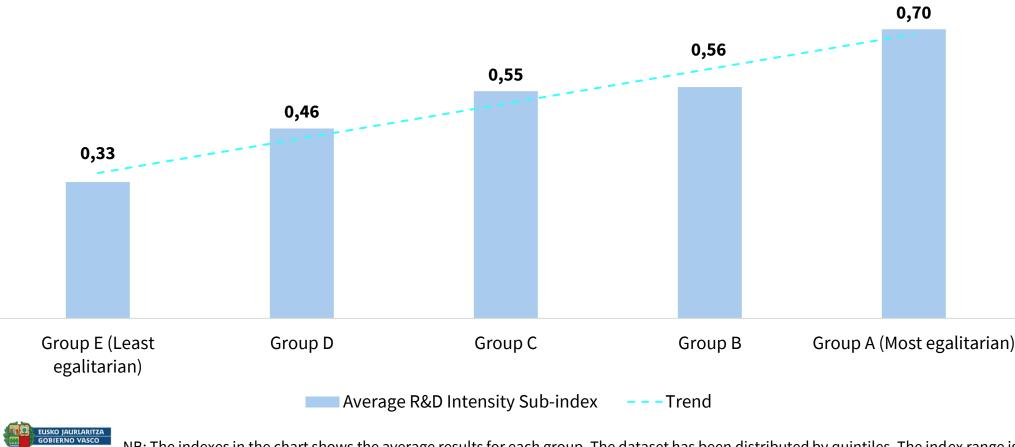
## The most egalitarian companies have grown more than the least egalitarian

'19-'21 Billing and Employment Growth Sub-Index according to the equality ranking



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## The most egalitarian companies show a level of R&D&i intensity significantly higher than the least egalitarian



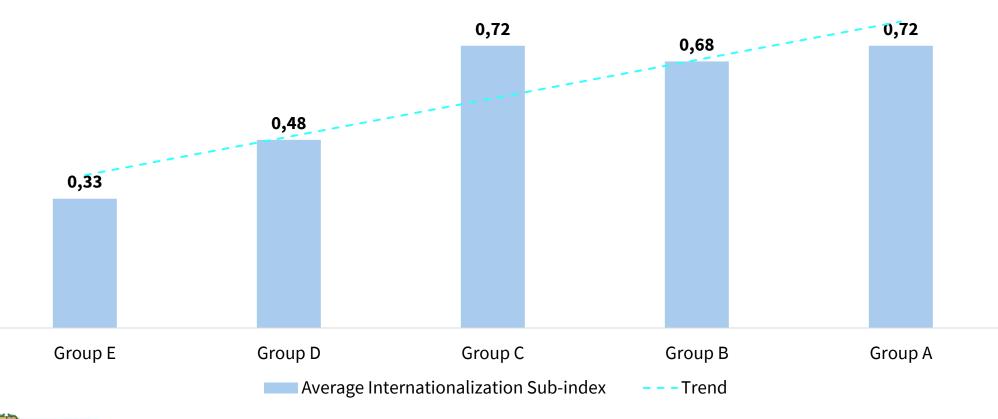
Innovation Sub-index Average of Companies according to the Equality Ranking



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## The most egalitarian companies are more projected on the international business scenario than the least competitive

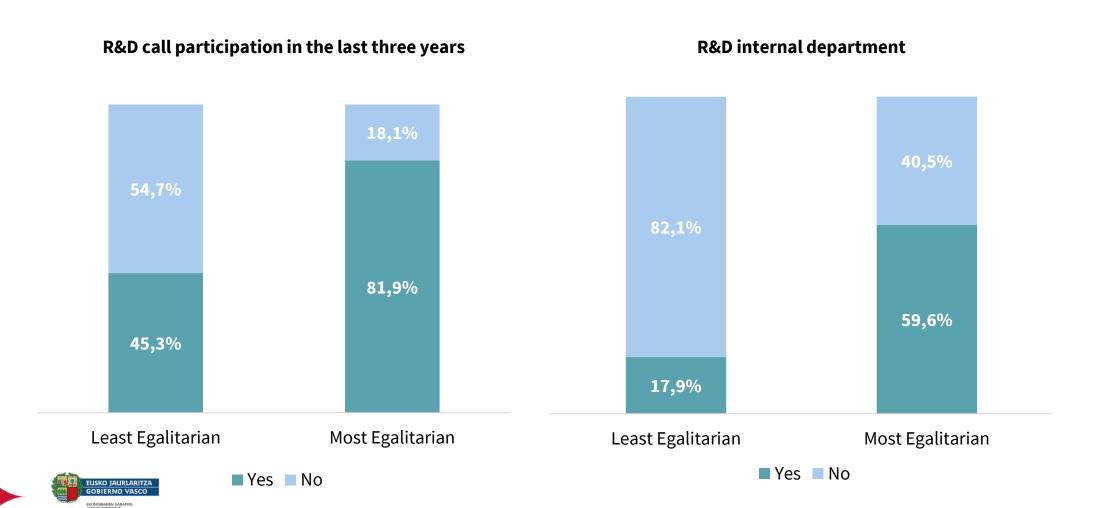
Average Internationalization Sub-index of Companies according to the Equality Ranking





**EUSKO JAURLANITZA GOBIERNO VASCON**B: The indexes in the chart shows the average results for each group. The dataset has been distributed by quintiles. The index range is between 0 (Min) and 1 (Max).

## Innovation intensity in the most-egalitarian companies is mainly based on higher level of investment and internal R&D activities



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competitive ones 0,52 0,47 0,42 0,41 0,37 Group E (Least Group D Group C Group A (Most Group B competitive) competitive) Equality Index Trend

The most competitive companies are more egalitarian than the least

- The most competitive companies :
  - Have more gender-balanced departments
  - Have more gender-balanced structure by role/position
  - Apply more work-life balance policies more efficiently
  - Show greater commitment to promote women and in the implementation of gender-based policies

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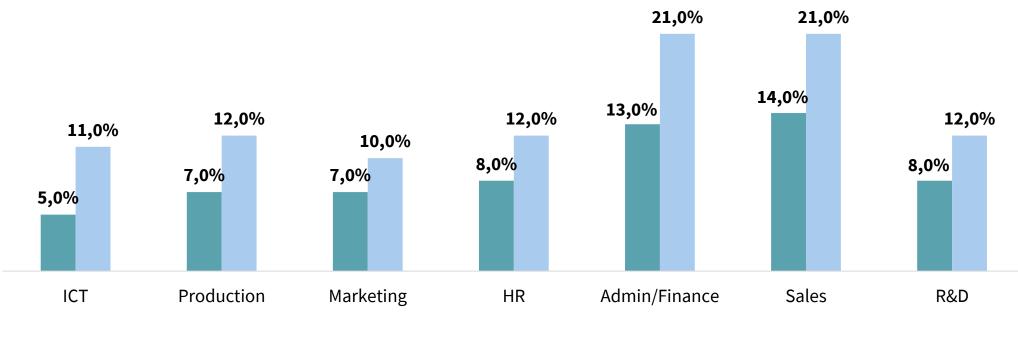
### **Key Findings**

### **Equality perspective**

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## Most competitive companies have more gender-balanced departments

Least competitive vs. most competitive: 40%-60% men to women ratio of employees by department



Least competitive Most competitive



## Most competitive companies have more gender-balanced departments

	Women %	ICT	Production	Marketing	HR	Admin./Finance	Sales	R&D
<u>s</u>	Less than 20%	83%	71%	77%	59%	31%	62%	82%
etit	20%-40%	6%	16%	6%	3%	12%	14%	5%
d uo	40%-60%	5%	7%	7%	8%	13%	14%	8%
Least-competitive	60%-80%	5%	4%	7%	7%	9%	5%	2%
Lea	More than 80%	2%	2%	3%	23%	36%	5%	3%
ive	Less than 20%	<b>70%</b>	<b>52%</b>	<b>42%</b>	<b>28%</b>	11%	<b>42%</b>	<b>64</b> %
etit	20%-40%	8%	24%	4%	2%	3%	17%	12%
dmo	40%-60%	11%	12%	10%	12%	21%	21%	12%
Most-competitive	60%-80%	7%	7%	11%	7%	21%	<b>6%</b>	<b>6%</b>
ε	More than 80%	4%	5%	34%	<b>51%</b>	44%	14%	<b>6%</b>

#### Least competitive vs. most competitive: women participation by departmet

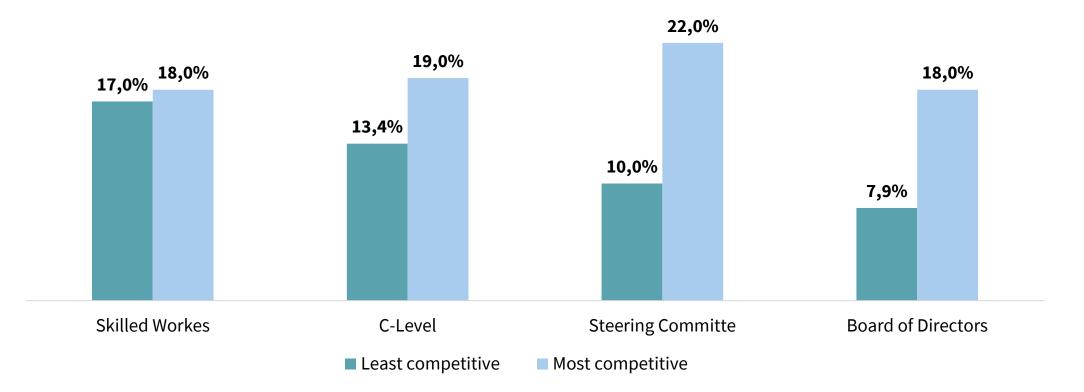


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## Most competitive companies have more gender-balanced structure by role/position

Least competitive vs. most competitive: 40%-60% men to women ratio of employees by role





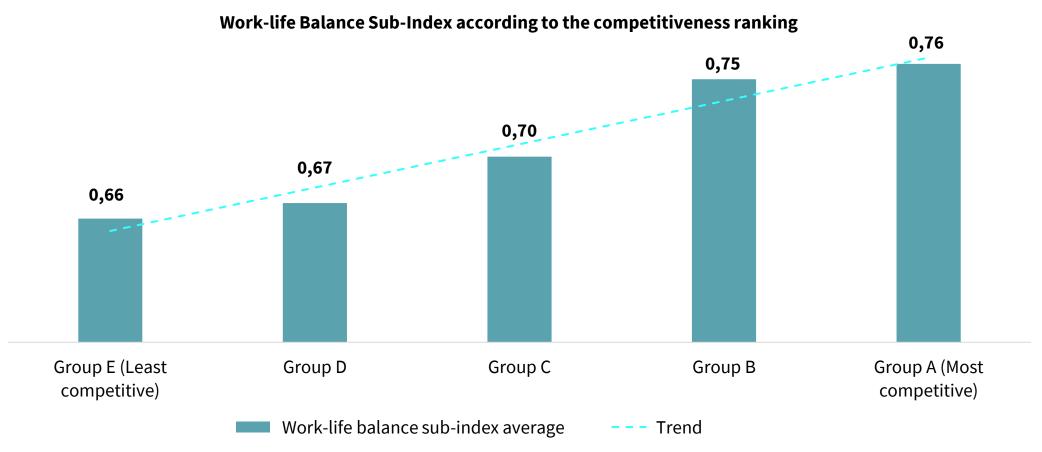
## Most competitive companies have more gender-balanced structure by role/position

	Women %	Skilled workers	C-Level	Steering Committee	<b>Board of Directors</b>
ive	Less than 20%	43%	66%	68%	70%
etit	20%-40%	24%	13%	19%	14%
duc	40%-60%	17%	13%	10%	8%
Least-competitive	60%-80%	8%	2%	1%	4%
Leas	More than 80%	8%	5%	1%	4%
ive	Less than 20%	21%	53%	46%	54%
bet it	20%-40%	43%	20%	27%	25%
- duo	40%-60%	18%	19%	22%	18%
Most-competitive	60%-80%	12%	2%	2%	2%
δ	More than 80%	6%	4%	2%	1%

#### Least competitive vs. most competitive: women participation by role



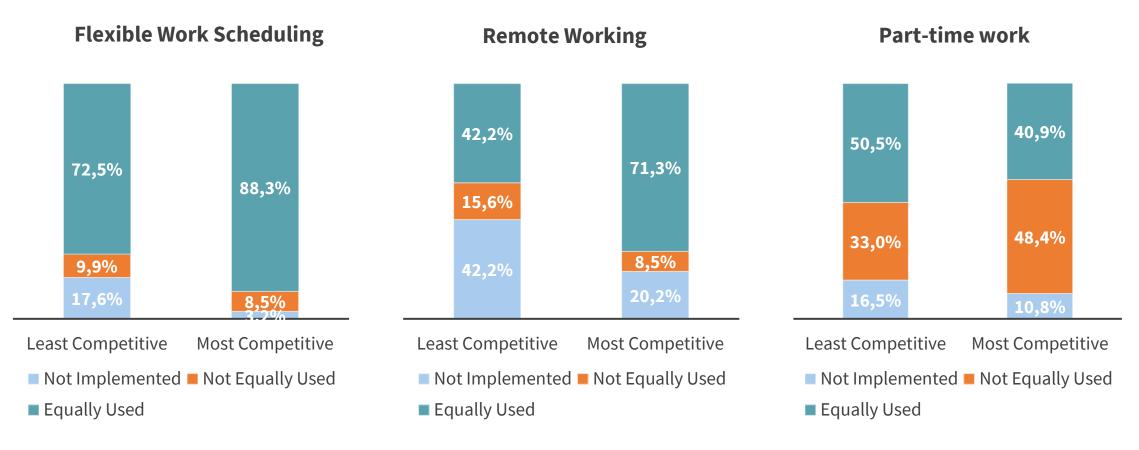
## Most competitive companies apply more work-life balance policies more efficiently





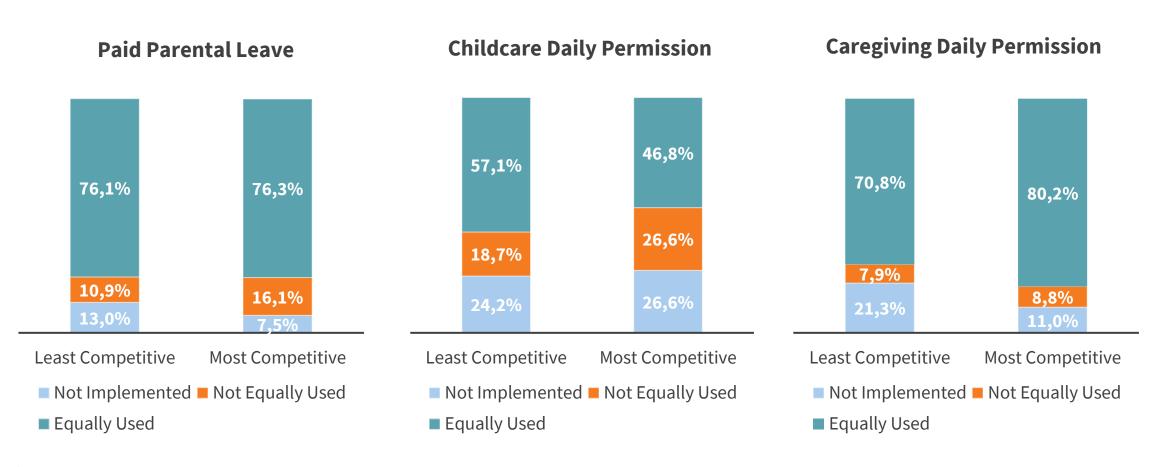
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## The most popular policies to engage women at work are based on flexibility (1/2)

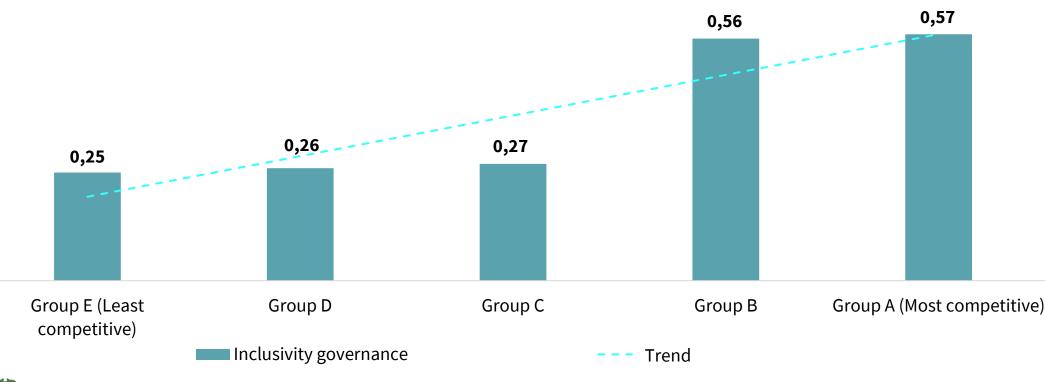




#### The most popular policies to engage women at work are based on flexibility (2/2)



# Most competitive companies show greater commitment to promote women and in the implementation of gender-based policies



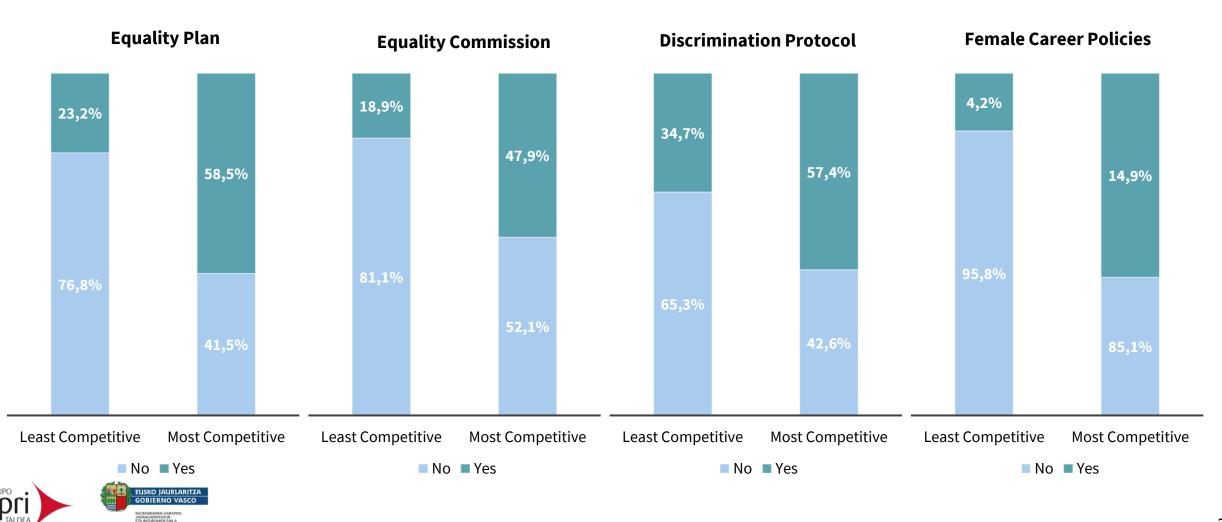
Inclusivity by governance Sub-Index according to the competitive ranking



EUSKO JAURLARITZA

NB: The indexes in the chart shows the average results for each group. The dataset has been distributed by quintiles. The index range is between 0 (Min) and 1 (Max).

## Gender governance in the most-competitive companies is carried out through of a wide range of instruments (1/2)



## Gender governance in the most-competitive companies is carried out through of a wide range of instruments (2/2)



#### Conclusions

- This report represents an important step to measure and demonstrate the impact of women in industrial competitiveness, as well as an innovative approach in understanding the phenomenon.
- The study identifies the keys to promoting competitiveness from equality:
  - Horizontal equality (by departments)
  - Vertical qeuality (by level of responsibility)
  - Work-life balance measures (flexible hours, teleworking, care leave...)
  - Internal equality policies (plans, commissions, training and equality protocols)
- The result of this research lays the foundation for further advancement by extending the application of this methodology to diverse contexts beyond the Basque region.
- The conclusions drawn from this research hold massive potential as a motivational tool for the implementation of gender inclusive policies in companies and governments.



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