



AI used in the labour market needs to be trustworthy and responsible.

addressing and mitigating algorithmic biases. AI is increasingly deployed in the labour market to recruit, train, and engage employees or monitor infractions that can lead to disciplinary proceedings. One type of AI are tools based

The BIAS project aims to empower the Artificial Intelligence (AI) and Human Resources Management (HRM) communities by

on Natural Language Processing (NLP) that can analyse text to make inferences or decisions. However, NLP-based systems face the implicit biases of the models they are based upon. Such biases, often rooted on societal stereotypes regarding gender or other personal characteristics, can already be encoded in the data used for machine learning training. Therefore, these biases can be reflected inside the models and the decision-making, leading to unfair decisions.

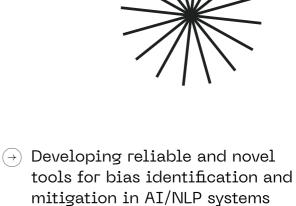
The BIAS project will investigate how the AI used in

the labour market either

contributes to or can help

What are our goals?

mitigate this discrimination by:



- (+) Engaging in robust stakeholder engagement and co-creation for developing the Debiaser, the BIAS proof-of-concept technology that
- (+) Empowering the AI and HRM communities through awareness raising and capacity building, thus equipping them with tools to develop better technology and promote better practices that reduce algorithmic bias

will identify and mitigate biases and unfairness in decision making

practices, advances the field of worker studies, and contributes to impactful capacity building (+) Informing future trajectories of NLP and AI research with increased involvement of underrepresented

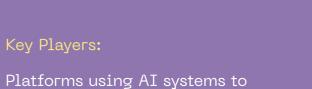
> persons in the AI design, development, training, and

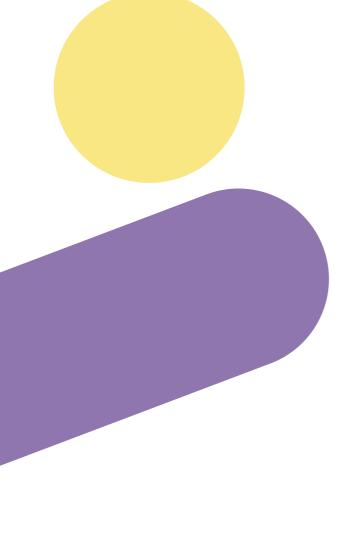
(→) Gaining a richly detailed

understanding of biases in

recruitment that enhances HRM

deployment → Reducing biases from the hiring process by creating more equal and fairer practices





Advocates: Labour unions and individual workers Educators Citizen groups and advocacy

organisations that promote gender

equality and diversity

How can they

benefit from

the BIAS?

For whom?

Context setters:

analyse data

Local, national and international

New technologies developers

Public and private investors

Standardisation organisations Professional networks and

recruitment platforms

Through:

National labs

Interviews and

Co-creation

workshops

surveys

each country (communities of practitioners, employees, HRM, and AI specialists with a special focus on underrepresented communities). Members of the National Labs, and other interested stakeholders, will participate in needs analysis and stakeholder involvement through surveys, interviews and co-creation workshops (-) AI research and development with a focus on Natural Language

Processing (NLP) and Case-based

Reasoning (CBR)

 \rightarrow The creation of national labs in

The BIAS project will follow an interdisciplinary research

The **research methodology** is based on the following pillars:

and impact methodology.

These strands will be combined with a detailed and extensive impact strategy consisting of:

Capacity building

and awareness raising sessions

Trustworthy

Policymaking

The Debiaser

open-source

AI helix

activities

software

countries providing information about current experiences and future scenarios of the use of AI in employment settings

(-) The creation of the Debiaser, our proof-of-concept technology with modules that both identify and mitigate bias and unfairness in decision making, that will be made available to the AI community

(+) Ethnographic fieldwork with

employers, employees, and AI

developers from different European

The BIAS consortium is made of 4 universities, 3 communication partners, 1 large industrial organisation and

1 SME (Small and Medium Enterprise) in these main areas:

→ AI/NLP solutions and research (-) SSH (Social Sciences and Humanities) knowledge

(-) Diversity and inclusion in organisations in HR practices

(>) Dissemination and communication

(-) Industrial uptake and commercialization

- - Partner organisations of the BIAS project



More information at

