

### **Research Culture** Joeri Tijdink 25th October 2024 NRIN symposium







### What are we going to discuss?

- A case
- Introduction to research culture
- Topics that may influence research practices
- What to do?
- Research agenda



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# What is the most important element of research culture?

(i) Start presenting to display the poll results on this slide.

# A (couple of) definition

Culture, climate, and environment are distinct but interconnected and overlapping concepts:

- Culture refers to the beliefs, customs, practices, values, and behaviors that define a group of people or society. It includes language, traditions, arts, and social norms.

- Climate refers to the prevailing attitudes, behaviors, and atmosphere within an organization or community. It is often about the social or emotional "weather," like workplace morale or societal tolerance.

- Environment refers to the physical surroundings or conditions, including natural and human-made elements, that affect living organisms or communities. It can be natural (forests, oceans) or built (cities, schools).

Research climate is referred to as:

"the shared meaning organisational members attach to the events, policies, practices and procedures they experience and the behaviours they see rewarded, supported, and expected."



### **Research Environment (as defined by SOPs4RI):**

to nurture a supportive environment. Hyper-competition, harmful publication pressure, detrimental power imbalances, and conflicts should be explicitly addressed and adequately handled. Fair, transparent, and responsible policies for assessing, appointing, and promoting researchers must be in place. Diversity and inclusion must be actively promoted. Collegiality, openness, reflection, and shared responsibility are vital elements of a working environment where the risk of major and minor breaches of research integrity is minimised.



### **RESEARCH CULTURE**



"Provide an open, safe and inclusive *research culture*..." (p. 20) Danish Code of Conduct for Research Integrity

November 201

"Fostering a *culture of research integrity* is a key element for ensuring high quality and integrity in research." (p.16)

"Research leaders and supervisors should receive specific research integrity teaching and training to support their mentoring roles in fostering a culture of research integrity" (p18)



The European Code of Conduct for Research Integrity REVISED EDITION



"Research institutions and organisations promote awareness and ensure a prevailing *culture of research integrity.*" (p. 5)

### **RESEARCH CULTURE**





"Provide an open, safe and inclusive *research culture*..." (p. 20)

(2024). Adviesrapport. Evaluatie Nederlandse gedragscode wetenschappelijke integriteit. Amsterdam, Evaluatiecommissie NGWI.

### **RESEARCH CULTURE**



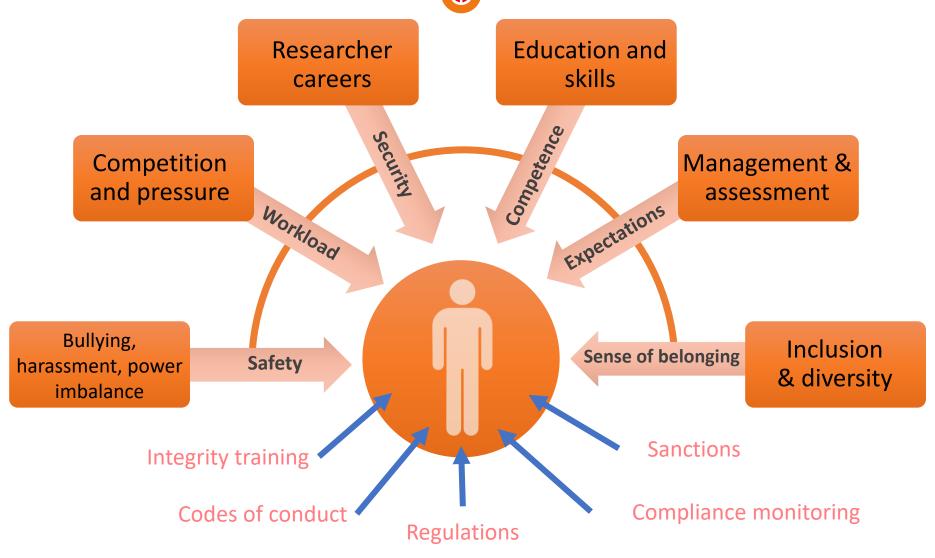


"The committee advises placing active promotion of a **healthy research culture at the center.** Confidential advisors can take on a greater role in enhancing the learning capacity of the institution by making issues known to the administrators. It is important that institutions encourage discussions on research integrity in the workplace."

"Provide an open, safe and inclusive *research culture*..." (p. 20)

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### Research Environment impact researchers' actions



Adapted from Stroobants & Aubert-Bonn 2023

# Culture & integrity



- hypercompetition
- low risk high rewards
- publication cycle
- Poor funding rates

# Culture

- Publication Pressure
- Role models
- No RCR education
- No clear guidance
- Unwritten rules
- Insufficient supervision
- Social safety

# Individual

- justifying misbehavior
- conflicts of interest
- moral attitudes
- personal beliefs
- personality traits



### **Research culture and research practices**

Survey in Amsterdam among >1000 researchers Research misbehaviours are explained by responsible research climate (22%) and publication pressure (16%)

> Haven et al. Research Integrity and Peer Review https://doi.org/10.1186/s41073-021-00110-w

(2021) 6:7

Research Integrity and Peer Review

#### RESEARCH

**Open Access** Explaining variance in perceived research misbehavior: results from a survey among academic researchers in Amsterdam



Tamarinde Haven<sup>1\*</sup>, Joeri Tijdink<sup>1,2</sup>, Brian Martinson<sup>3,4,5</sup>, Lex Bouter<sup>1,6</sup>, and Frans Oort<sup>7</sup>

### How does research culture relate to research practices?

- Relation between publication pressure, emotional exhaustion and research misbehaviours.
- Publication pressure is associated with misbehaviours

Research Environments

#### Publication Pressure and Scientific Misconduct in Medical Scientists

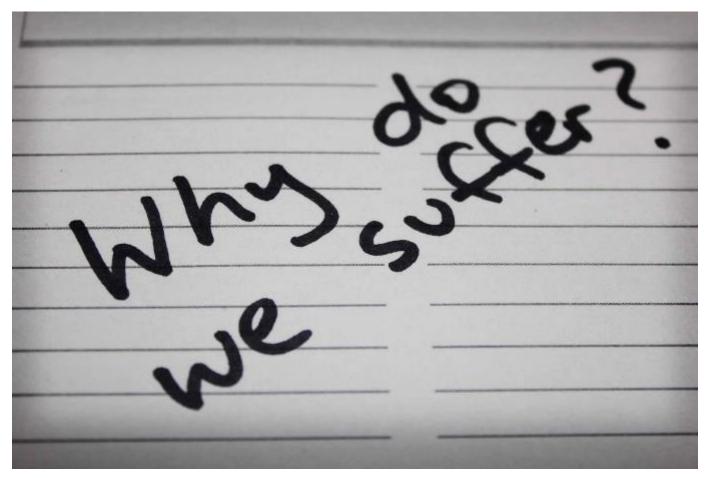
Joeri K. Tijdink<sup>1,2</sup>, Reinout Verbeke<sup>3</sup>, and Yvo M. Smulders<sup>1</sup>

#### Abstract

There is increasing evidence that scientific misconduct is more common than previously thought. Strong emphasis on scientific productivity may increase the sense of publication pressure. We administered a nationwide survey to Flemish

Journal of Empirical Research on Human Research Ethics 2014, Vol. 9(5) 64–71 © The Author(s) 2014 Reprints and permissions: sagepub.com/journalsPermissions.nav DOI: 10.1177/1556264614552421 Jre.sagepub.com SAGE





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# Why are researchers overburdened?

- Mental Health under pressure
- 1. Lack of supervision
- 2. Publish and Perish/Publication pressure
- 3. Poor job opportunities for ECRs
- 4. Too many tasks
- 5. Power relations (fear to speak up)
- 6. Unhealthy work ethos/working hours
- 7. Unwritten rules
- 8. Quantitative assessment criteria
- 9. Personality
- 10.Vulnerability
- 11.Work-life balance
- 12....

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- Cultural factors



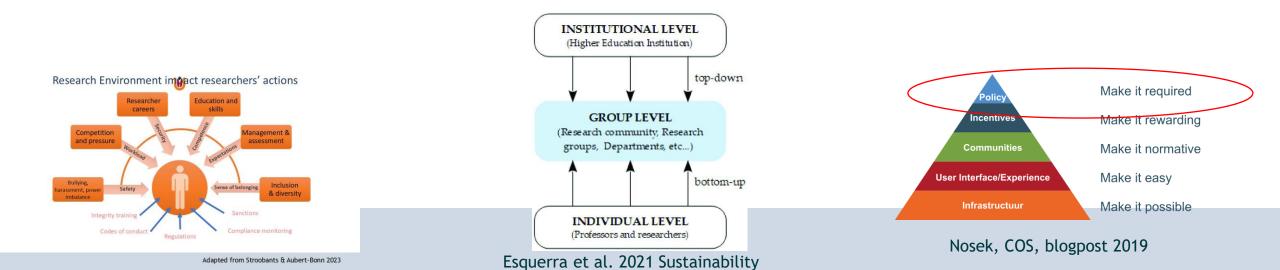
### How can we change a culture?







- PhD-quality guidelines
- Anchoring research culture in codes
- SOPs4RI Research Environment



# Research Environment



### Sub-topics included in Research Environment

- Culture building
- Diversity issues
- Education and skills training
- Fair procedures for appointments, promotions and numeration
- Managing competition & publication pressure
- Supporting a responsible research process



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TOOLBOX TOOLS RESEARCH ENVIRONMENT

# Research environment

To foster integrity and minimize research misconduct and questionable research practices, RPOs need to nurture a supportive environment. Competition, publication pressure, detrimental power imbalances, and conflicts must be explicitly addressed and adequately handled. Fair, transparent, and responsible policies for assessing, appointing, and promoting researchers must be in place. Diversity and inclusion must be actively promoted. Collegiality, openness, reflection, and responsibility are vital elements of a working environment where the risk of major and minor breaches of good research practices is minimized.



#### **Tool categories**

Culture building	Diversity issues	Education & training	Fair procedures for appointments and promotions	Managing competition & publication pressure	Supporting a responsible research process
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### **Incentives and responsibilities**

- Anchor RC in Recognition & Rewards criteria
- Support and incentivize culture guardians (leaders, individuals, RIofficers)
- Fund research on research culture to improve knowledge on RC





NATIONAL CENTRE FOR

- National Centre Research Culture
  - Contact points
- Conferences (like these)
- The Research Culture Enablers Network (RCEN-UK)
- Recognition and Rewards RC assessment
  - Collaboration, Team science, Supervision



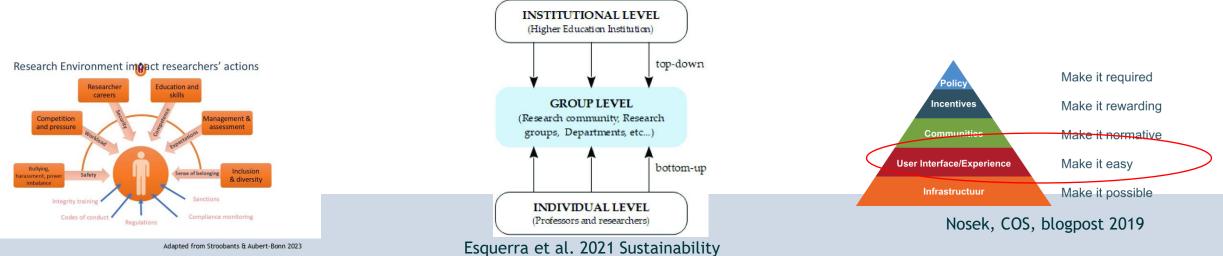


Activities and events:

- Engagement activities (eg. UK)
- Discussion events at universities
- Training and workshops
- Concrete recommendations
- Peer support

### Examples

- Mpower project how to empower early career researchers
- Best practices in Recognition & Reward structures
- Social safety initiatives
- Training on research culture





- Support networks on institutional and national levels by funders/institutions/governmental bodies
- Create Research Culture champions at universities
- Create a knowledge base with interventions and best practices
- Do research on RC



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### To summarize - a concerted effort

- Research culture encompasses a wide variety of topics
- Initiatives that foster research culture are scarce
- More attention is needed to the less tangible aspects of academia
- How can we build a responsible research culture?
- The department plays a pivotal role in research culture change





### Next steps to the future?

Research Agenda:

- What practices are effective for positive research culture building?
- Revalue the importance of 'soft skills' in academia
- The role of academic leaders







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### jk.tijdink@amsterdamumc.nl

