

A black and white photograph of two young people, a Black male on the left and a white female on the right, both wearing augmented reality (AR) glasses. They are looking towards the right, with a blurred background of bookshelves filled with books. The image has a high-contrast, artistic feel.

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Shaping Tomorrow's Campus

Ethics, Public Values, and XR in Education

12 September, 2024

8

Trend 8: Growing importance of ethical awareness and safeguarding public values in the use of technology in education

| Welcome



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| The Spectrum of eXtended Reality / Immersive Technologies

Augmented Reality

Computer-generated images are displayed over the real world.

AR



Google Glass

Mixed Reality

Looking through the headset's cameras to the world.

MR



Quest Pro

Virtual Reality

Head mounted devices that are focused on immersive simulations

VR



HTC Vive

| XR In Education

A National Impact

Continuous development, piloting and experimentation in many institutions.

XR tech inspires new ways of visualising education (and research) and are practically focused; less practical to implement.

Leaves a lasting impression on its users.



Npuls

XR Pilothub



Creative Industries Immersive
Impact Coalition
(CIIC)

DUTCH

Digital United Training
Concepts for Healthcare

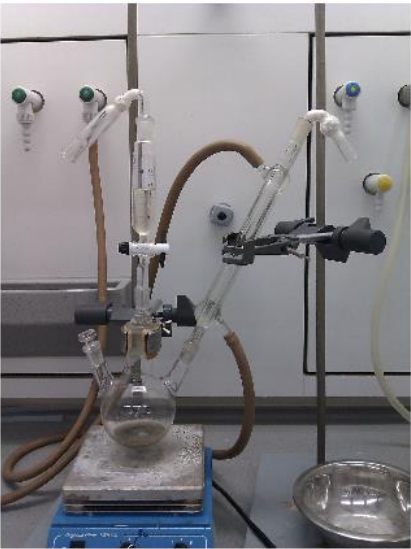


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Studenten rechten kunnen pleiten oefenen in een levensechte virtuele rechtszaal



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Computer-mediated feedback
on effective and ineffective
body language



VR Presentation Trainings

8

Trend 8: Growing importance of ethical awareness and safeguarding public values in the use of technology in education

So What?

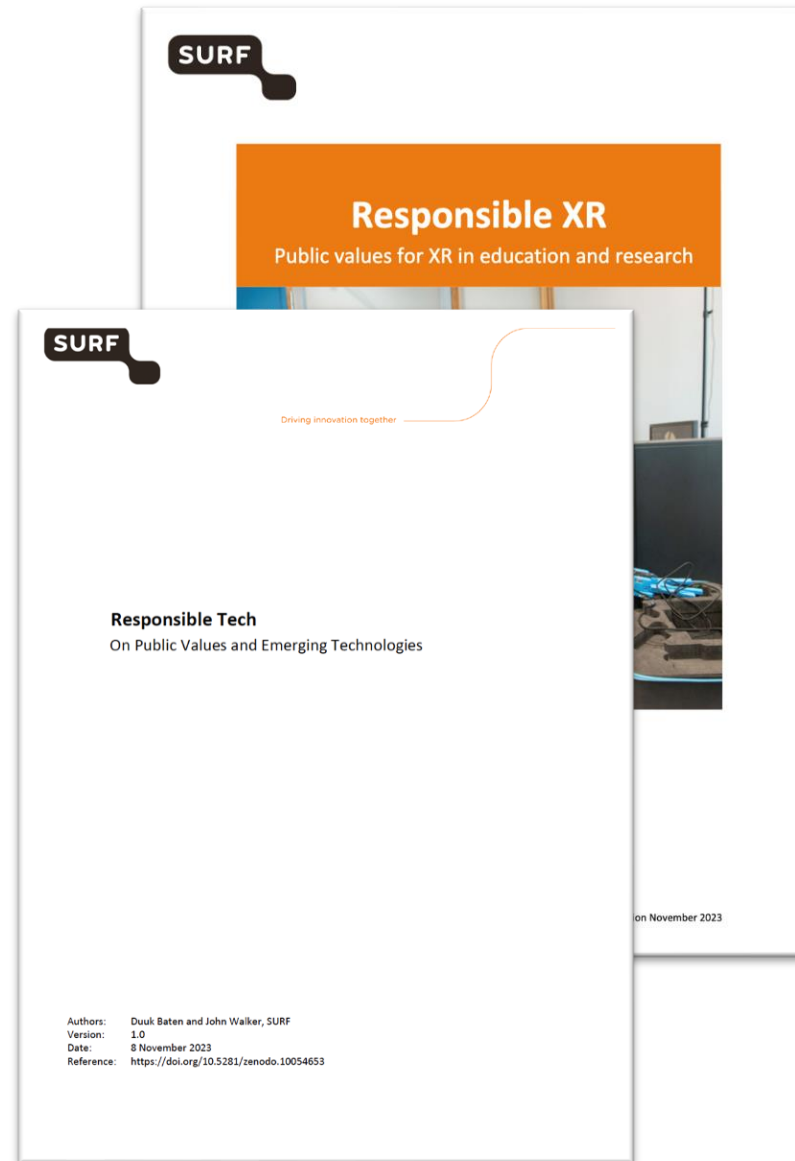
| What is trending?



Rathenau Quick Scan (EN/NL)

- Impact on Society
- Policy thought leadership
- Analyses on the risks through the lens of public values

Rathenau Instituut



European Funded Projects

- Provide guidance and tools
- Equitable, Inclusive, and Human-Centered development of XR Technologies

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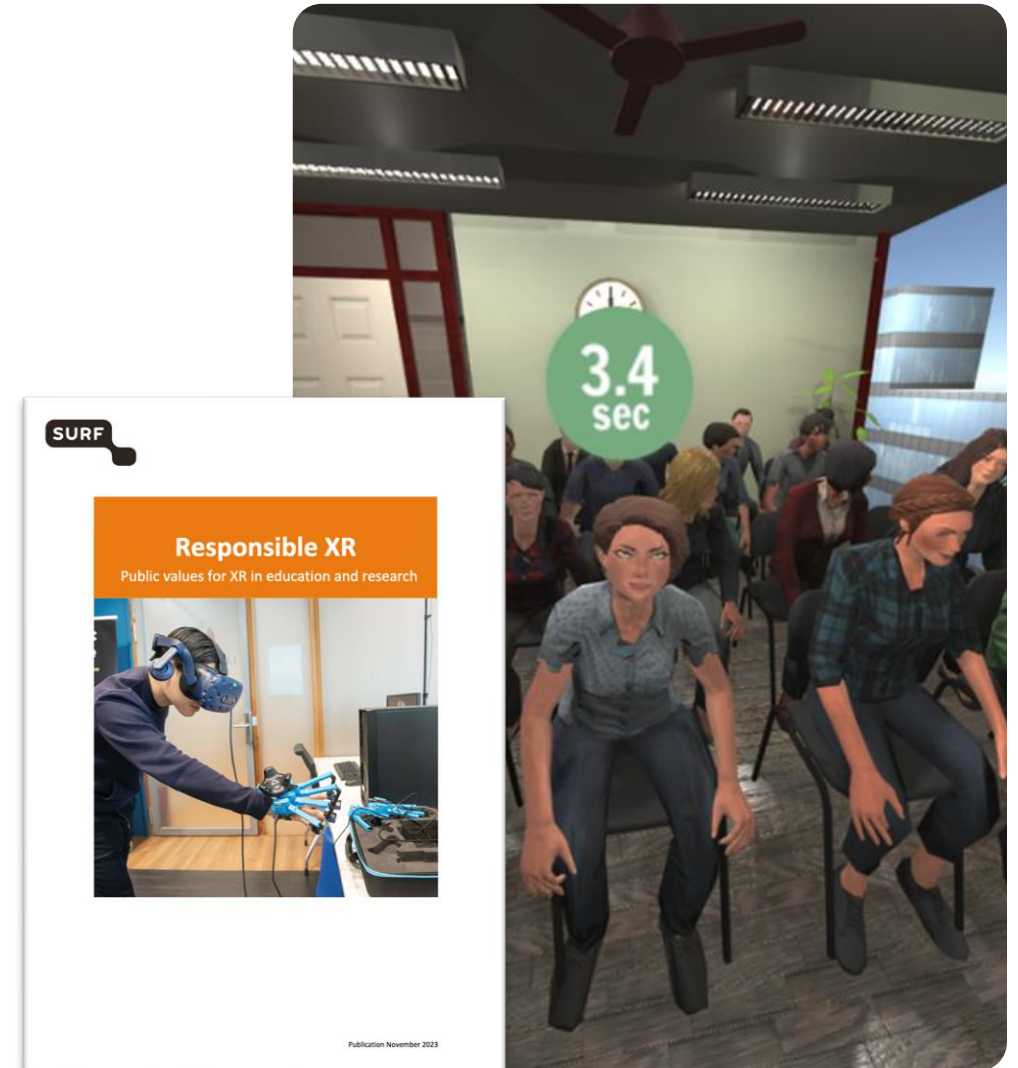
| What questions can we ask with public values in mind?

Research overview of two cases

What public values were chosen and why

What questions arose from these public values and how educators and researchers alike benefit from these discussions perspectives

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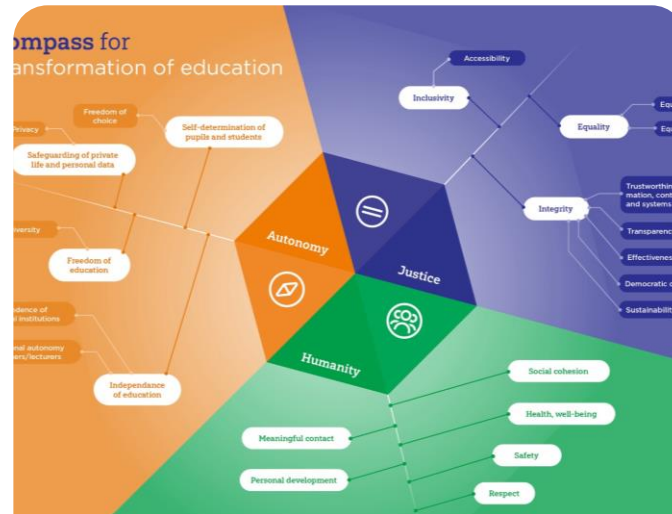


3 Key Takeaways



1

XR trainings have shown to be effective in specific uses and application, leading to new transformations in both lab training and communication.



2

Public values guide critical reflection on XR technologies.



3

Moving forward requires both public values and responsible practices

Can we do more?
And how?

Responsible Tech @ SURF



Promote Responsible Innovation

Increase our thought-leadership

Invitations

Talks

Leadership



Stimulate Collaboration

Connecting Needs

Wiki

Articles

Podcasts



Activate Public Values in Action

Ensure we scale our impact

Workshops

Tools

Events



Responsibility as a practice

Building and maintaining expertise

Npuls connections

Advising

| Responsible Tech in a Nutshell



Responsibility as a
Practice



Public Values in
Action



What's at stake

Toekomst scenario's

Het 'Groeï'-scenario



[bekijk dit scenario](#)

Het 'Discipline'-scenario



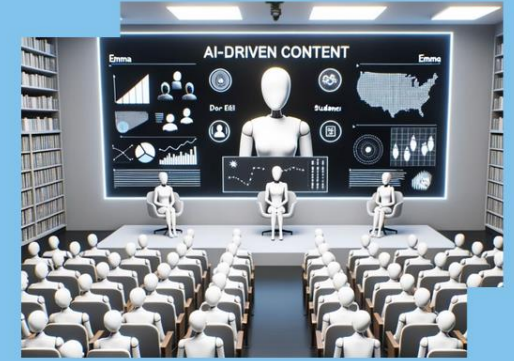
[bekijk dit scenario](#)

Het 'Transformatie'-scenario



[bekijk dit scenario](#)

Het 'Ineenstorting'-scenario



[bekijk dit scenario](#)

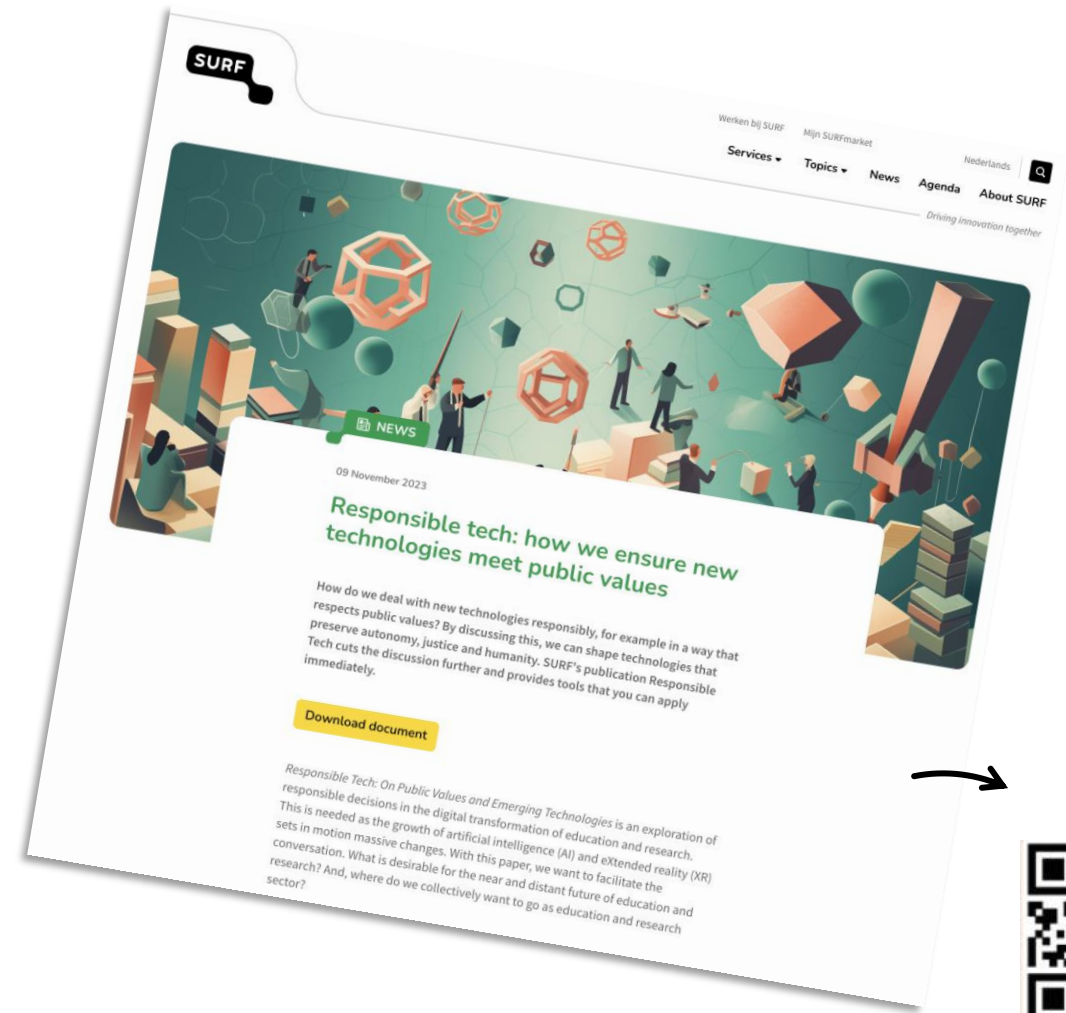
So how can we strive for a more responsible future with technology?

How to start with responsible tech

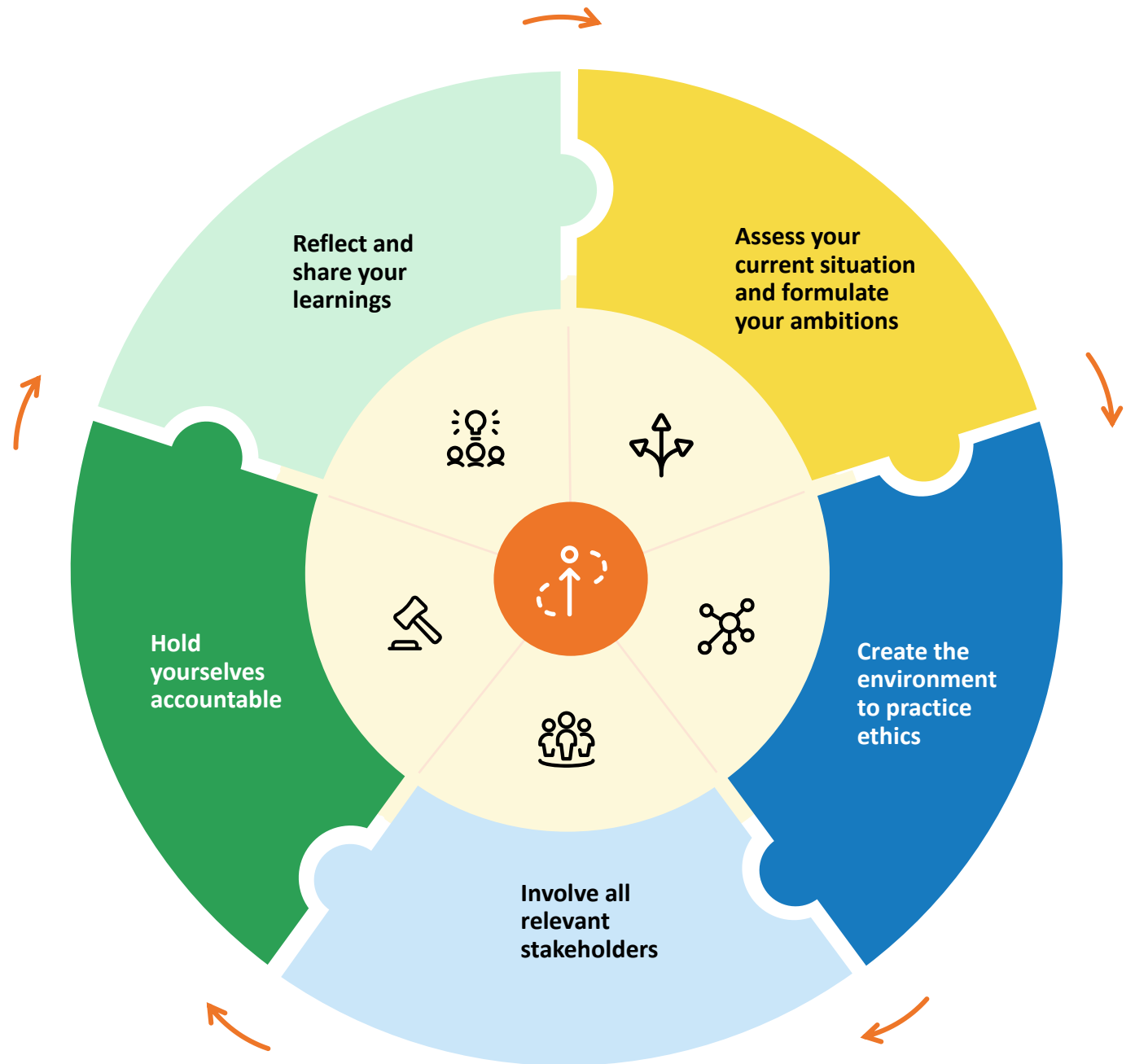
A good start in 5 steps

We formulated 5 recommendations in our discussion paper

‘Responsible tech: how we ensure new technologies meet public values’



Starting well means asking better questions



Example

- Acknowledge where you stand. E.g. with impact assessments (IAMA) or AI ethics maturity model.
- Formulate your ambitions. What are you trying to achieve, what values are central?
- Make choices, do you want to use certain technologies?



Are there any questions?

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Future
Campus



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Thank you