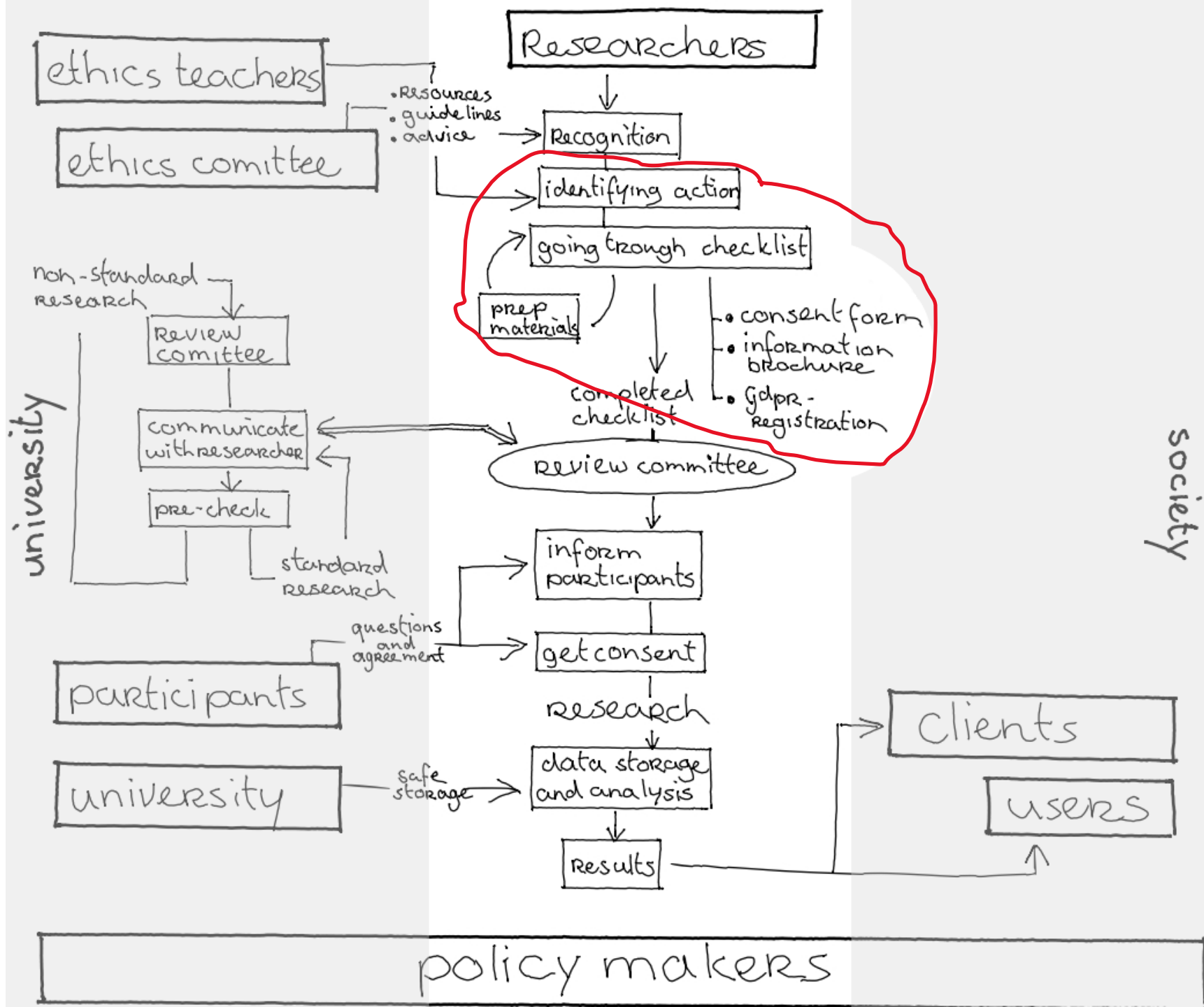


Ethics in Interaction

Ethics pre-assessment preparation tool

Dennis Reidsma, George Hadjidemetriou, Amy de Lange, Laura Kester



Literature: HCI and research ethics

- Guidelines hard to apply
- Guidelines do not promote working with diverse and vulnerable target groups
- Researchers' skills with preparing materials are often insufficient
- There is a lack of general insight into how to deal with the situational ethics in HCI
(in design, things end up being different from what you prepared)

Our researchers struggle

Preparing materials for EC assessment

Know about ethics, but

- “What are the relevant ethical factors in *my* work?”
- “What is a good way to communicate things with participants?”

Copy and adapt existing examples from peers

→ but there are many typical patterns of research; the taken example may not quite fit and their selections and adaptations are not always great

Our researchers struggle

- Beginner mistakes, but also unaware of best practices
- Examples from peers do often not quite fit the new project
(better examples would have existed but were not found)
- We give repeated patterns of advice for similar recurring projects
(lots of work for team of ethics advisers)
- Higher quality research is sometimes possible...

Aim of this project^(*)

- Streamline assessment process
- Higher quality first time submission & generally improving skills
- Through interactive *tailored advice*
- Plus integration with micro teaching units

^(*) thanks to support so far already: LISA, EEMCS, HMI

Aim of this project

- Higher quality first time submission & generally improving skills
- Through a **tool** that provides *tailored* advice in an interactive way
 - beyond manual / guideline!
 - advanced advice for typical patterns of doing research in this group
 - *which* of these patterns are actually in use by the requesting researcher ?
- Highest level of usability for front end user
- Link from advice to “further reading” / micro teaching units

TOOL PROTOTYPE

- Design Amy de Lange
- Implementation George Hadjidemetriou
- Advice content Laura Kester



Ethics pre-assessment preparation tool prototype

Front-end prototype / design: help researcher prepare materials

- Probe: Which typical patterns of research?
- Provide bundle of *advice / best practices* for parts of the project
- Provide tailored templates for fragments of consent form, info brochure, etc



Simple research plan? → simple process and output

Complex research plan? → more extensive advice

Demo front-end

Navigation icons: Home, Menu

Ethics Preparation Support

User mode  

Questionnaires

Files

Extra information

About

Help

Sections

- Section 1 - Participant demographic ^
Please, select the box below to s...
[Do you plan on doing research ...](#)
[Are your participants going to b...](#)
[Do your participants belong to a ...](#)
- section 2 - Activities and risks of research v
- Section 3 - Data gathering v

Section 1 - Participant demographic

1 — 2 — 3 — 4

Do you plan on doing research with participants?
participants:*

Yes
 No

Back Next

Temp Save

Progress:

Ethics pre-assessment preparation tool prototype

But research practices change...

New types of research emerge...

This requires tool that can evolve with these developments

e.g., the case of Animal Computer Interaction

(designing playful systems for monkeys at Apenheul; more to come...)

Ethics pre-assessment preparation tool prototype

Backend prototype / design:

build collection of advice patterns for a research group

- Build / modify the cascaded questionnaire to probe typical patterns to give advice
- Build / modify advice fragments & rules how to combine given questionnaire

Demo back-end questionnaire editor



Elements to drag & drop

- + Add new section
- + Add new frame

Floating elements

- occur_mental_disability [single_choice]
- explain_mental_disability
 - Linked to
 - HMI_proxy_information_brochure
 - A2_info_target_group
 - D3_info_mental_disability
 - HMI_proxy_consent_from
 - A3_summary_activities
 - HMI_stopprotocol

- occur_mental_disability [single_choice]
 - Answer_type: single_choice
 - User input: radiobuttons
 - Option 1: Yes
 - Option 2: No

EEMCS/HMI Questionnaire Version 2

Personal info + add activation rule

frame_basic_info
What's your name, university, faculty, email address (phone number)?
faculty_user university_user email_user
department_user name_f_user name_l_user
phone_user

frame_degree_info
What is your current position within the university?
user_degree [single_choice]

frame_supervisor_info
What is the name, department, email (and phone number) of your supervisor?
user_degree == bachelor student OR
user_degree == Master student OR
user_degree == PhD researcher

Project info + add activation rule

Working with participants + add activation rule

frame_occur_parti
Will you collect data from participants yourself for your project?

Save

Last saved on March 4 13:33

Personal info > frame_basic_info

Frame_name frame_basic_info

Activation_rule
variable is equal to option +
+ add activation rule

Question_text What's your name, university, faculty, email address (phone number)?

Explanation_top Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam

Explanation_bottom Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam

Question(s)

name_f_user	Placeholder_text
Answer_type: text	Fill in your first name
Required: yes	Label: First name

name_l_user university_user department_user

Designs for advice document editor

The image displays a web-based editor for creating advice documents, titled "Ethics Preparation Support". The interface is divided into three main sections:

- Header:** Includes a home icon, the title "Ethics Preparation Support", and a toggle for "Editor mode" (currently off), along with notification and user profile icons.
- Left Sidebar (Elements to drag & drop):** Contains buttons for "Add new block", "Add new paragraph", "Add new textbox", and "Add content of variable". Below these is a "Floating elements" section with a dashed border, listing "Block_pandemic" and "Block_autism" (which has an associated rule "occur_autism == yes").
- Main Workspace (HMI - Consent Form Adult - version 2):** Shows a draft document with several sections:
 - Activation rules:** A red-bordered box containing the rule "occur_parti == yes" and "parti_age == above 18".
 - A1_intro:** A section with a red rule "occur_parti == yes". It contains a blue-bordered text box with the heading "Consent to be given at the end of data collection:" and a paragraph of text. Below the text is a blue-bordered input field "contact_info_department" and two radio button options: "Yes, I give consent for this." and "No, I don't give consent for this.". Below this is a grey-bordered text box with placeholder text.
 - A2_contact_info:** A section with a red rule "corpus_type == corpus with personally identifiable information such as video" and a red rule "occur_parti == yes". It contains a blue-bordered text box with the heading "Consent to be given at the end of data collection:" and a paragraph of text.
 - A2_1_info_EC_HMI:** A section with a red rule "department == hwi". It contains a blue-bordered text box with the heading "Consent to be given at the end of data collection:" and a paragraph of text, followed by a blue-bordered input field "contact_info_department".
- Right Panel (Editor mode):** A "Save" button is visible. Below it, the text "Last saved on March 4 13:33" is shown. The panel title is "A1_intro > Textbox". It features a rich text editor toolbar with icons for bold, italic, underline, link, list, and image. The main content area shows the text from the "A1_intro" section, with the heading "Consent to be given at the end of data collection:" and the paragraph of text.

What's next?

- Implement prototype further
 - “advice document editor”
 - missing design details throughout
 - full collection of advice snippets for HMI
 - Start using tool in first research group and teaching program
- Work with other groups to tailor to their typical patterns of research and corresponding typical best practice advice
- Towards having tool available to streamline and improve research ethics

OUTCOME

- Unique support tool: no-one in world has anything like it
- Increase in academic integrity practice
- Less time (money) lost on preparing research ethics
- Less time (money) lost on reviewing research ethics on obvious issues
- Increased research ethics awareness and skills at UT
- More research impact because more inclusive, human-appropriate methods

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