

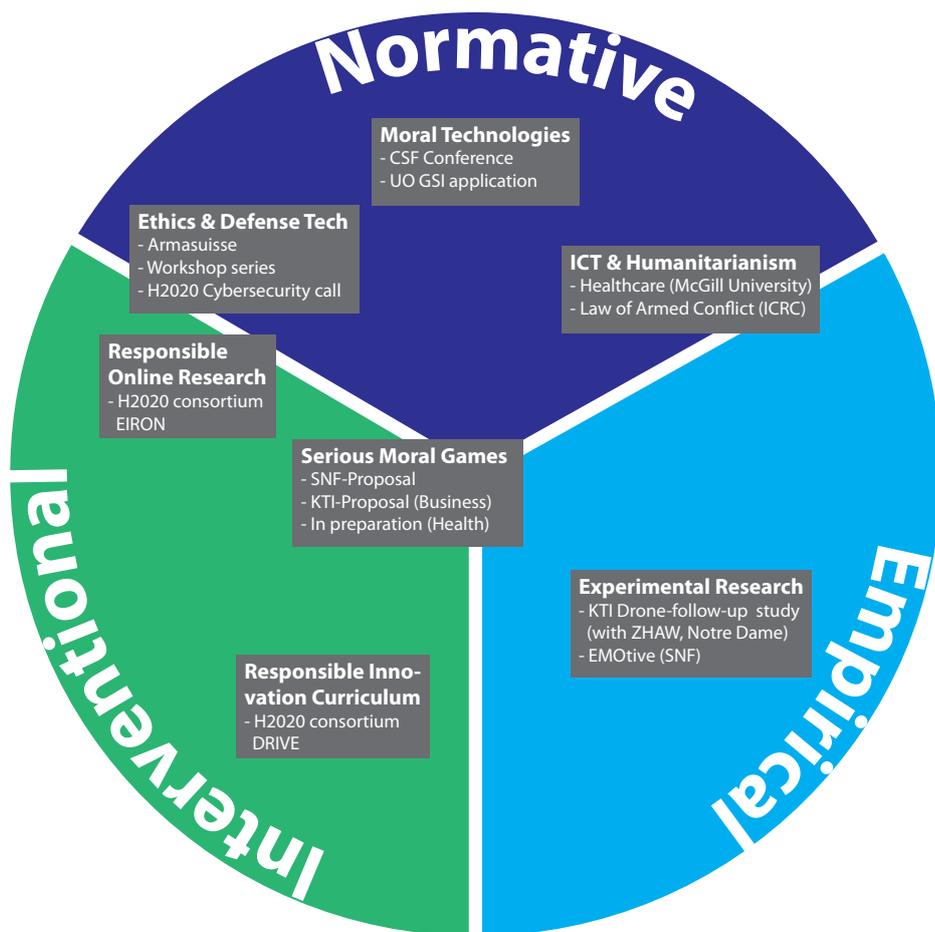


The research network “Ethics of Monitoring and Surveillance” investigates moral consequences of ICT systems that record, accumulate and analyze information on human behavior to allow for specified social interventions. Such systems may be used both for monitoring, where humans (partly) agree to ICT based data collection, and surveillance, where third parties observe humans without their consent. Within NEMOS, both normative questions on the legitimate use of such ICT based monitoring and surveillance systems (MSS) and empirical questions regarding their impact on human moral psychology are investigated. The network is organized in projects that analyze different aspects on how MSS are used in various contexts. This annual report provides an overview on the activities within NEMOS in its first year (2014).

NEMOS aims to build up a research network within three years; the focus of the first year was to set up collaborations with (inter-)national partners by preparing grant proposals.

NEMOS achievements in a nutshell:

- Start in **January 2014** as part of the University Research Priority Program Ethics of the University of Zurich.
- Research activities have been developed in **seven themes** (see overview chart on the right side).
- So far, **nine grant proposals** (as PI or as collaborator) have been submitted, five additional proposals are in planning.
- First **funded projects** will start in Spring 2015.
- **Three preparatory workshops** have been organized to support the built-up of the collaboration network.
- Among others, **collaborations** have been set up to researchers of the Technical University Delft, the University of Notre Dame, the University of Oregon and the Zurich University of Applied Sciences.



For further information contact the NEMOS coordinator:
Dr. sc. ETH Markus Christen:
christen@ethik.uzh.ch
http://www.ethik.uzh.ch/ufsp/forschungsprojekte/nemos_en.html

Major thematic fields that are of interest for NEMOS (for details see page 2):

- **Normative:** Five themes of research focus mainly or at least partially on the legitimate use of certain technologies in different social contexts.
- **Empirical:** Three themes of research involve mainly or at least partially empirical (survey-based or experimental) research to investigate the morally relevant effects of certain technologies on humans.
- **Interventional:** Four themes of research mainly or at least partially relate to the development of tools that support the responsible use of technology.

Moral Technologies

Aim: To investigate conceptual, scientific and normative questions of intervening in a non-explicit way into moral behavior using pharmacological, psychological and technological means.

Collaborators: Among others: Mark Alfano (University of Oregon), Darcia Narvaez (University of Notre Dame), Peter Schaber (University of Zürich), Carmen Tanner (University of Zürich) Jeroen van den Hoven (Technical University Delft) and Roberto Weber (University of Zürich).

Initiatives:

- One workshop in May 28, 2014.
- One application for the Global Oregon Faculty Collaboration Fund (PI: M. Alfano, for a research stay in summer 2015).
- One conference application for the Centro Stefano Franscini for 2016.

Ethics and Defense Technologies

Aim: To advance the understanding of ethical issues in future defense research & technology and procurement.

Collaborators: Among others: Don Howard & Robert Latiff (both University of Notre Dame), Quentin Ladetto (Armasuisse) John Sullins (Sonoma State University), Mariarosaria Taddeo (University of Warwick) and Neil Davison (ICRC).

Initiatives:

- One workshop in October 21/22, 2014.
- One successful research application (Armasuisse Research & Technology; details to be defined, start in Spring 2015).
- In preparation: H2020 Consortium for DS-7-2015 on Cybersecurity.

The role of ICT in Humanitarian Work

Aim: To analyze the role of ICT and new media use for supporting the work of humanitarian organizations in war and disaster zones with a particular focus on ethical problems and dilemmas.

Collaborators: Among others: Matthew Hunt (McGill University) and Christian Rouffaer (International Committee of the Red Cross).

Initiatives:

- In preparation: A joint research project on the use of video game simulation tools for supporting adherence to the law of armed conflicts (with ICRC and other partners).
- Another grant proposal related to health (lead: McGill University) is in preparation.

Research on moral effects of ICT

Aim: To experimentally investigate how the digital visualization of morally relevant information impacts moral reasoning and decision making with a particular focus on using „drones“ and visual displays.

Collaborators: Among others: Chuck Crowell & Mike Villano (both University of Notre Dame), Sara Fabrikant (University of Zürich), and Peter Marcus Lenhart (Zürich University of Applied Sciences).

Initiatives:

- In preparation: two research grants (one Swiss based: KTI, one US-based) to extend current drone simulation research.
- EMotive project (SNF, lead: Sara Fabrikant, start in Spring 2015) on affectively responsive visual displays for decision making in morally ambiguous situations.

Serious Moral Games

Aim: To create video game based tools that allow to analyse mechanisms of moral behavior and to train moral competences. This includes normative investigations on the legitimate use of such tools in practical contexts (e.g.: Business and Medicine).

Collaborators: Among others: Ruth Baumann-Hölzle (Dialog Ethik Zürich), Martijn de Kiewit (KPMG Schweiz), Ulrich Götz (Zürich University of the Arts), Ralf Mauerhofer (Koboldgames), Carmen Tanner (University of Zürich).

Initiatives:

- SNF grant proposal (together with Carmen Tanner) on moral sensitivity enhancement
- KTI grant proposal on Serious Moral Games as instruments for improving integrity, management and compliance training (submitted in January 2015).
- Another grant proposal is in preparation.

Responsible Online Research

Aim: To create a european-wide platform that allows for participant recruitment and data sharing in social sciences and humanities. This research focus resulted from the rejected H2020 proposal „deep3“ that has been initiated by NEMOS in spring 2014.

Collaborators: The Consortium includes (beside UZH) 7 partners: TU Delft (Netherlands), the Universities of Tarragona (Spain), Pisa (Italy), Hamburg (Germany), Leuven (Belgium), the University of Applied Sciences Berne and the company JonDonym.

Initiatives:

- Application for the H2020 EINFRA-9 programm „ e-Infrastructures for virtual research environments“, submitted in January 2015: EIRON consortium (European Infrastructure for Responsible Online Research).

Responsible Innovation Curriculum

Aim: To develop a state of the art reference curriculum for teaching Responsible Research and Innovation (RRI) to science and engineering students. NEMOS is part of a H2020 consortium that has been initiated by the TU Delft.

Collaborators: The Consortium includes (beside UZH) 5 partners from the Netherlands, Germany, Sweden, Norway and Denmark. The Swiss team consists of four members of the Centre for Ethics of the University of Zurich.

Initiatives:

- Application for the H2020 H2020-SEAC-2014-1 Coordination and support actions, submitted in October 2014: DRIVE consortium (Developing a Reference curriculum for responsible research and Innovation education for Engineers).