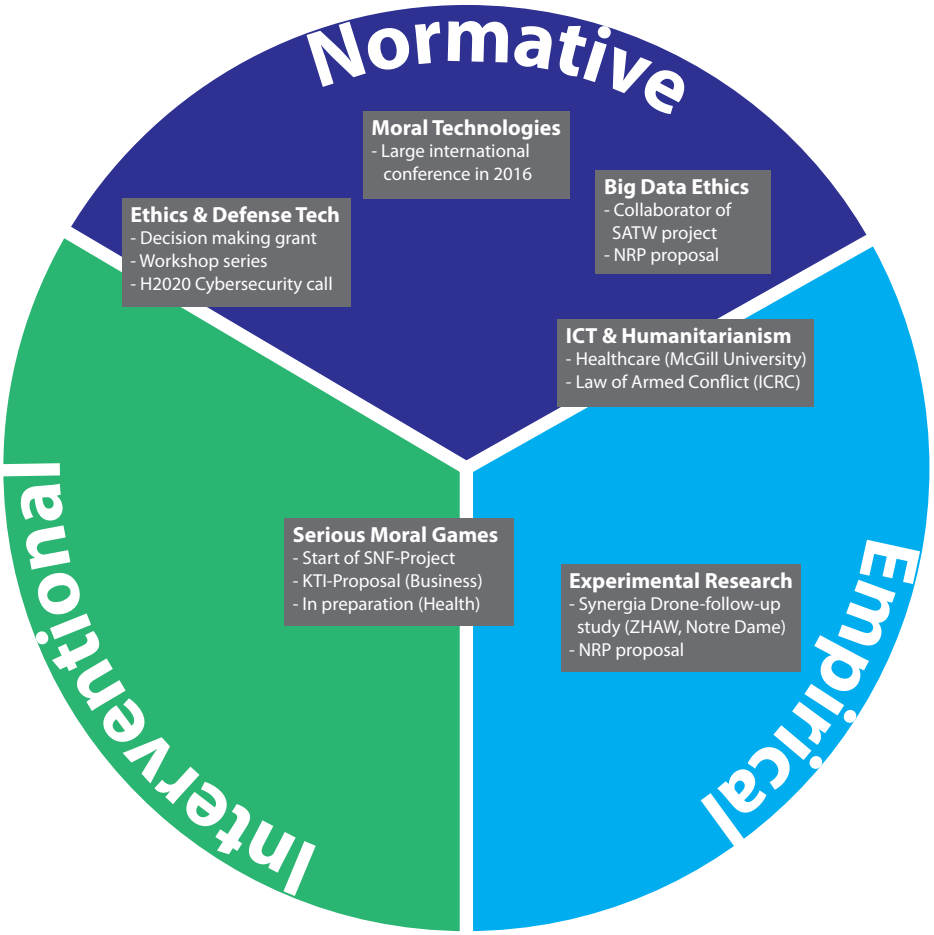
NEMOS Annual Report 2015

The research network "Ethics of Monitoring and Surveillance" (NEMOS) investigates moral consequences of ICT systems that record, accumulate and analyze information on human behavior to allow for specified social interventions. Within NEMOS, normative questions on the legitimate use of such ICT based monitoring and surveillance and empirical questions regarding their impact on human moral psychology are investigated. This annual report provides an overview on the activities within NEMOS in its second year.

NEMOS aims to build up a research network within three years; the focus of the second year (2015) was to initiate funded research projects and to complement the grant proposal portfolio with selected topics.

NEMOS 2015 achievements in a nutshell:

- Start of a 3 year research project on **moral sensitivity enhancement** using new media funded by the Swiss National Science Foundation.
- **Ethics of Big Data** has become one of the six thematic fields currently under investigation (see overview chart on the right side).
- So far, **four grant proposals** were successfull, eight proposal failed, three of which are in the process of resubmission. Two proposals are pending, three proposals are in planning.
- **Two thematically related workshops** have been organized to support the built-up of the collaboration network, eight talks have been given at conferences, public events etc.
- New **collaborations** have been set up to researchers of the University of Applied Sciences Chur and the US Air Force Academy.



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

- **Normative:** Four themes of research focus mainly 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:** One theme of research relate to the development of tools hat support the responsible use of technology.

Main changes compared to 2014: Two thematic fields have been abandonded due to failure in getting funing, one new field (Big Data) has been added.

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

NEMOS 2015: Short description of research themes & collaborators

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 (Delft University of Technology), Darcia Narvaez (University of Notre Dame), Jeroen van den Hoven (Delft University of Technology). Roberto Weber (University of Zürich).

Initiatives 2015:
- Three successful applications for preparing the 2016 Moral Technologies conference (University of Oregon GSI, Centro Stefano Franscini, Cogito Foundation)
- „White Paper" and book publication on Moral Technologies in preparation.

Ethics and Defense Technologies

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

Collaborators: Among others: Neil Davison (ICRC), Don Howard (University of Notre Dame), Quentin Ladetto (Armasuisse), Wilbur Scott (US Air Force Academy), John Sullins (Sonoma State University) and Mariarosaria Taddeo (University of Oxford).

Initiatives 2015:
- Second workshop in November 6/7, 2015.
- Joint research proposal with United States Air Force Academy and University of Notre Dame on moral decision making in RPAs.
- H2020 Proposal for DS-7-2015 on Cybersecurity.

Ethics of Big Data

Aim: To increase the understanding of the ethical impact of Big Data in research and applications with respect to core values like autonomy, privacy, fairness and responsibility.

Collaborators: Among others: Christian Hauser (University of Applied Sciences Chur), Rolf Weber (University of Zurich), Stefan Weiss (Swiss Re), and members of the Ethics Advisory Board (EAB) of the Human Brain Project (HBP).

Initiatives 2015:
- Contribution to a Big Data Ethics project of the Swiss Academy of Technical Sciences.
- Member of the Big Data Roundtable in the insurance industry.
- Big Data workshop at the HBP summit.
- In preparation: NRP project on the ethics of Big Data in the insurance industry.

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 2015:
- (Failed) submission of a research project on the use of video game simulation tools for supporting LOAC adherence.
- (Failed) submission related to health (lead: McGill University).

Both proposals will be resubmitted in 2016.

Research on moral effects of ICT

Aim: To experimentally investigate how the digital vizualization 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 2015:
- In preparation: SNF Synergia project to extend current drone simulation research (ZHAW & University of Notre Dame).
- In preparation: National Research Program (NRP) project on standards for visualizing high ethical valence data to improve moral decision-making.

Serious Moral Games (SMG)

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 & Zeppelin Universität).

Initiatives 2015:
- Start of successfull SNF project application on moral sensitivity enhancement.
- Resubmission of a failed KTI proposal on SMGs in finance in spring 2016.
- Another proposal for SMGs in health is in preparation (with Dialog Ethik).

NEMOS Statistics

Collaborators:	**2 PhD students** **2 master students**	**Papers:**	**7 are published** **7 are submitted**
Workshops:	**2 in 2014** **2 in 2015**	**Grant proposals:**	**6 in total were successfull** **8 in total failed** **of which 3 are resubmitted** **2 in total are pending (end of 2015)** **3 are in preparation (submission in 2016)**
Talks:	**3 in 2014** **8 in 2015**		