



Wir schaffen Wissen – heute für morgen

Workshop Research Integrity 2014 **Collaborative Research** Tuesday June 3, 2014, 13.30 – 17.00 @ PSI Thursday June 5, 2014 14.00 – 17.00 @ WSL Louis Tiefenauer, PSI



13.30 Start:	Welcome / Ethics in science	
13.30 - 13.40	Introduction of participants	all
13.40 - 14.40	"Collaborative research"	TL
14.40 - 14.50	Collaborations at PSI	MS
14.50 – 15.10	Coffee break	
15.10 – 16.00	Workshop in 2 groups	TL/MS
15.10 – 16.00 16.00 – 16.30	Workshop in 2 groups Reporting group discussions	TL / MS all
16.00 – 16.30	Reporting group discussions	
16.00 – 16.30 16.30 – 16.45	Reporting group discussions Plenary discussions	all



Research definition (goals and how)

Research can be defined as search for knowledge [technology 1], or as any *systematic investigation*, to establish *novel facts*, solve new or existing *problems*, prove *new ideas*, or develop *new theories [science]*, usually using a scientific method [technology 2]. The primary purpose for basic research (as opposed to applied research [technology 3]) is discovering, interpreting, and the development of methods and systems for the advancement of human knowledge on a wide variety of scientific matters of our world and the universe.

(Wikipedia)

You are creating options for the future !

Criteria of science: commonly accepted, accessible, independent, revisable

Research

Cooperation

Benefits

- <u>more means</u>
- working times
- methods
- influence
- reputation
- Ideas
- etc.



Competition

Risk

- shared means
- waste of time
- Loss of credit
- influence
- damaged reputation
- etc.



Added values



1. Integrity:

<u>Collaborating</u> partners should take <u>collective</u> responsibility for the *trustworthiness* of the <u>collaborative</u> research and <u>individual</u> *trustworthiness* of their own contributions.

2. Trust:

The behavior of each <u>collaborating</u> partner should be worthy of the trust of <u>all other partners</u>. Responsibility for establishing and maintaining this level of trust lies with <u>all collaborating</u> partners.

Project partners

- behaviour & responsibilty
- <u>collective</u> & individual

Trust Foster by regular & respectful communication





3. Purpose: <u>Collaborative</u> research should be initiated and conducted for purposes that advance knowledge to the benefit of humankind.

4. Goals: Collaborating partners should <u>agree</u> at the outset on the goals of the research. Changes in goals should be negotiated and <u>agreed</u> to by <u>all partners</u>.

Purpose

- create knowledge
- options for society
- transfer: benefit

Research goals

- plan at beginning: novelty!, benefits
- negotiate changes



5. Communication:

<u>Collaborating</u> partners should communicate with each other as frequently and openly as necessary to foster full, mutual understanding of the research.

6. Agreements:

Agreements that govern collaborative research should be understood and ratified by all <u>collaborating</u> partners. Agreements that unduly or unnecessarily restrict dissemination of data, findings or other research products should be avoided.





7. Compliance with Laws, Policies and Regulations:

The <u>collaboration</u> as a whole should be in compliance with all laws, policies and regulations to which it is subject. <u>Collaborating</u> partners should promptly determine how to address conflicting laws, policies or regulations that apply to the research.

8. Costs and Rewards:

The costs and rewards of <u>collaborative</u> research should be distributed <u>fairly</u> among <u>collaborating</u> partners.

Frame checks

- Conflicts to laws, policies, regulations
- Regulations: finance, safety, employment
- Policies: guidelines (RI), data management

Avoid conflicts:

fair rewarding / working load

- publication & patents (autorship)
- meeting organisation / speakers

HOW DARE YOU	DON'T FORSET
PLAGIARIZE	J'M YOUR
MY RESEARCH!	CLONE!
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9. Transparency: <u>Collaborative</u> research should be conducted and its results disseminated transparently and honestly, with as much openness as possible under existing <u>agreements</u>. Sources of funding should be fully and openly declared.

10. Resource Management: Collaborating partners should use human, animal, financial and other resources responsibly.

11. *Monitoring:* <u>Collaborating</u> partners should monitor the progress of research projects to foster the integrity and the timely completion and dissemination of the work.



http://www.psi.ch/integrity/

Executing

- Declare fundings
- Use resources responsibly

Communication from the start, continuously

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Research



Funders & stakeholders



12. Roles and Responsibilities:

<u>Collaborating partners should come to mutual understandings</u> about their roles and responsibilities in the planning, conduct and dissemination of research. Such <u>understandings</u> should be renegotiated when roles or responsibilities change.

13. Customary Practices and Assumptions:

<u>Collaborating</u> partners should openly discuss their customary practices and assumptions related to the research. Diversity of perspectives, expertise and methods, and differences in practices, standards and assumptions that could compromise the integrity of the research should be addressed openly.

Communication at meetings

- Define roles
- Present & discuss progress critically
- Discuss revisions
- Adjust reserarch plan

Communication details

- Announce changes early
- Address openly differences affecting integrity
- Renegotiate responsibilities



14. Conflict:

<u>Collaborating</u> partners should seek prompt resolution of conflicts, disagreements and misunderstandings, at the individual or institutional level, as necessary.

15. Authority of Representation:

<u>Collaborating</u> partners should come to <u>agreement</u> on who has authority to speak on behalf of the <u>collaboration</u>.

Conflict management

- Individual & institutional level
- Disagreements
- Misunderstanding



Communication

Who speaks to outside



16. Data Intellectual Property and Research Records:

<u>Collaborating</u> partners in research <u>collaborations</u>, especially junior partners, should receive full and appropriate recognition.

17. Publication:

<u>Collaborating</u> partners should come to <u>agreement</u>, at the outset and later as needed, on how publication and other dissemination decisions will be made.

Recognition

- fair
- junior partners

Agreement on procedures for

- Publication: what, who, when, where
- Patent: what, who, when
- Go public: what, who, when





18. Authorship and Acknowledgement:

<u>Collaborating partners should come to agreement</u>, at the outset and later as needed, on standards for authorship and acknowledgement of joint research products. Publications and other products should state the contributions of all <u>contributing parties</u>.





19. Responding to Irresponsible Research Practice:

The <u>collaboration</u> as a whole should have procedures in place for responding to allegations of misconduct or other irresponsible research practice by any of its members. <u>Collaborating</u> partners should promptly take appropriate action when misconduct or other irresponsible research practice by any partner is suspected or confirmed.

20. Accountability:

<u>Collaborating</u> partners should be accountable to each other, to funders and to other stakeholders in the accomplishment of the research.

Irresponsible research practice

- Address openly differences affecting integrity (stat. 13)
- Allegations: suspected or confirmed
- <u>Define: common</u> procedure
- Take actions

All are accountable to

- <u>each other</u>
- <u>funders, stakeholders</u>



Ethical issues are

- fairness, rewards
- benefit for the society
- avoid conflicts of interest
- respect

Researchers want:

- publications
- credits
- respect & fairness

Project management

General management tasks

- Define clear goals
- Let participate all in decisions
- Check compliance to frame issues
- Optimize benefits & transfer
- Communicate to funder & stakeholders

Meetings issues on different levels

Basis: honesty, trust & sense of respons.

- open discussions, irrespond. practices
- respectful change management
- fair credits (publications, acknowledg.)

Agreements in collaborative research • allocation of means: clear & fair

Define common procedure if misconduct

Define & update of responsibles

Frame is given by

- laws
- regulations
- guidelines
- facilities
- finance

Society expects

- new options
- transfer (patents)
- no harms
- effective research
- low costs

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Research







Group discussions

be back 16.00 16.15 (WSL)

- 1. Select 2 or 3 statements
- 2. Appoint a speaker
- 3. Discuss
 - a. What are your experiences with the selected issues ?
 - b. How should these issues *correctly* be handled ?
 - c. How can this be achieved (persons, time, procedure)



Simple research project



Workshop Research Integrity «Collaborative Research» at PSI /WSL 2014



Collaborative Research





Preamble. Research collaboration that crosses national, institutional, disciplinary and sector boundaries is important to the advancement of knowledge worldwide. Such collaborations present special challenges, however, for the **responsible** conduct of research, because they may involve substantial differences in regulatory and legal systems, organizational and funding structures, research cultures, and approaches to training. It is critically important, therefore, that researchers be aware of and able to address such differences, as well as issues related to integrity that may arise in cross-boundary research collaborations. Fostering the integrity of collaborative research is the responsibility of all individual and institutional partners.



Preambel cont.

Researchers should adhere to the professional responsibilities set forth in the *Singapore Statement on Research Integrity*. In addition, the following responsibilities are particularly relevant to collaborating partners at the individual and institutional levels and fundamental to the integrity of collaborative research.