



KATHOLIEKE UNIVERSITEIT
LEUVEN



Putting social sciences and humanities research into practice? An exploration of the alleged valorisation-deficit

Project overview and policy recommendations

(VRWI project 2009-2011)

Valorisation in SS&H

Outline

- Research consortium
- Research questions and background
- Valorisation of research in SS&H
 - Valorisation
 - SS&H
- Research design
- Research results
- Recommendations

Valorisation in SS&H

HIVA

ONDERZOEKINSTITUUT VOOR ARBEID EN SAMELEVING

KATHOLIEKE UNIVERSITEIT
LEUVEN

Research consortium



ECOOM



Funding



HIVA
K.U.Leuven
Parkstraat 47
B-3000 Leuven

P. Develtere
C. Gijssels
K. Steensens

Centre for R&D
Monitoring
Dekenstraat 2
B-3000 Leuven

J. Callaert
B. Van Looy
K. Debackere

Legal Theory
Research Group
Universiteit
Antwerpen
Venusstraat 23
B-2000 Antwerpen

B. Hubeau
V. Verlinden

Departement
R&D
VUB
Pleinlaan 2
B-1050 Brussel

W. Ysebaert

Vlaamse Raad voor
Wetenschap en Innovatie
Koloniënstraat 56
B-1000 Brussel

Project coordination: Dr. Caroline Gijssels (HIVA)
Steering committee chaired by Prof. Dr. Filip Abraham

Research questions & Background



Project objectives

1. General introduction, description and reflection on valorisation, including:
 - development of a well-founded typology covering the different valorisation formats in SS&H
 - benchmarking with international studies and findings
2. Mapping valorisation in SS&H in Flanders:
 - analysis of existing government programs,
 - surveying insights and experiences w.r.t. valorisation in SS&H among interfaces of universities and associations,
 - case studies of valorisation in SS&H in Flanders.
3. Detecting bottlenecks and formulating policy recommendations

Valorisation in SS&H

- (Co)accountability w.r.t. social challenges
 - Globally & nationally
 - Knowledge producers & -users
 - Content-wise & financially
- Innovation paradox
- 'Paradox of ubiquity and invisibility'
 - causes:
 - narrow interpretation – aimed merely at creating *economic* value
 - narrow measurement / operationalisation – limited indicators of valorisation (e.g. patents & licenses; spin offs)
 - less research into valorisation in SS&H than in biomedical, exact, applied sciences
 - lack of conceptualisation, operationalisation and data w.r.t. other forms of valorisation,
 - insufficient recognition of actual and potential use of knowledge from SS&H
 - Lower purchasing power and less manifestation as potential stakeholders of an important type of 'clients' of SS&H: public institutes, non-profit organisations or other communities.

Valorisation in the Social Sciences and Humanities

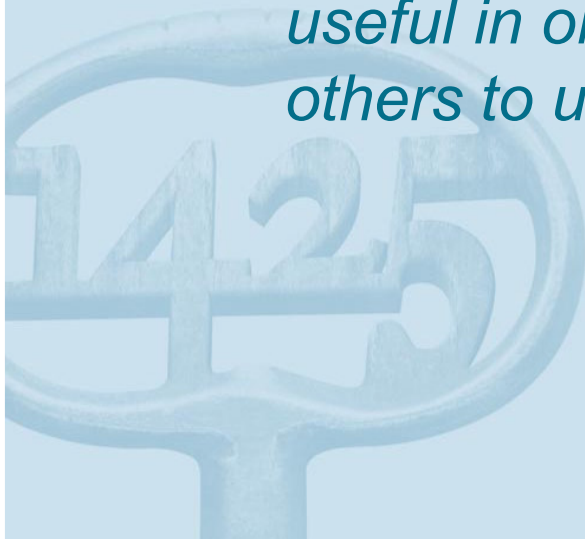
- Definition and delineation



Valorisation:

Cf. Definition AWT (2007)

“a process assuring that scientific knowledge can be used in practice. Valorisation is the act of making research results appropriate and useful in order to enhance opportunities for others to use them.”



Valorisation:

- Education

‘others’ are students

- Scientific valorisation

‘others’ are peer-scientists

- Valorisation ‘in practice’

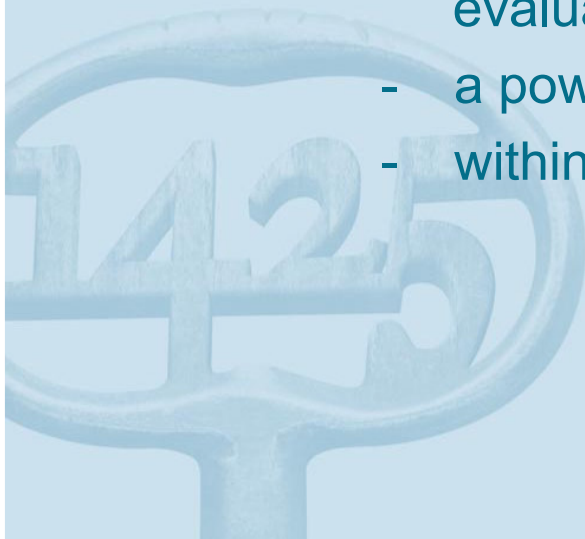
‘social services’

‘others’ are social actors:

Policy makers, managers and employees in the corporate sector and in the civil society, professionals, teaching personnel,... and the general public.

Valorisation:

- an interactive process,
- between academic and non-academic partners,
- whereby the latter should be considered in a broad sense → besides industrial partners, it also concerns partners from the public and third sector
- in the different phases of the research process → from research agenda setting until dissemination and/or evaluation
- a powerful means for achieving multiple impacts
- within different social sectors (public, private, NGO's)



Valorisation in SS&H

Social Sciences and Humanities

(20) Cultural Sciences	(30) Behavioral Sciences
Linguistics	Law
Literature	Criminology
Arts	Economics
History	Psychology
Philosophy	Pedagogy
Theology	Sociology
Regional studies	Political sciences
	Communication sciences
	Anthropology

Valorisation in SS&H

- Research project focus: Valorisation in SS&H
- Findings and recommendations are partly specific to SS&H, but largely generic:
 - Same underlying valorisation processes
 - Same broad range of added value that can be created from valorisation

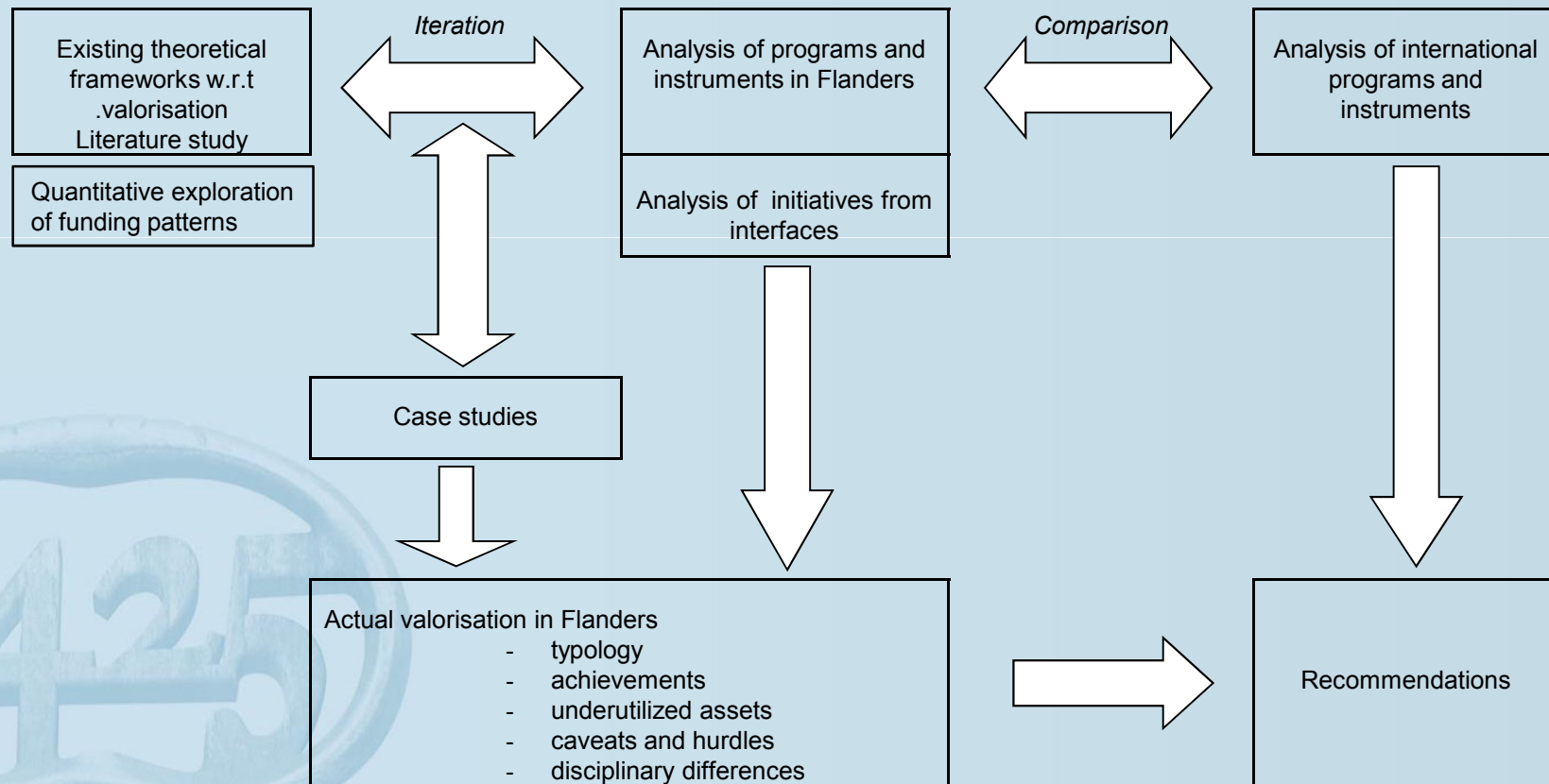


Research Design



Valorisation in SS&H

Onderzoeksdesign



Valorisation in SS&H

20 CASES

- Spread over associations and disciplines
- Spread over different “valorisation trajectories”
 - publications, presentations, productions, performances,
 - spin-offs / patents / licences,
 - contract research,
 - consultancy,
 - collective research,
 - exchange of people,
 - training and education
 - ‘other’.
- Objective
 - To show which form valorisation in SS&H can take and how the processes evolve + to come to a typology
 - Identifying catalysators, caveats and hurdles
 - Proposing policy recommendations to strengthen the realization of valorisation potential
- Survey of researchers and users (separately) based on the genesis of their case

Valorisation in SS&H

Exploratory analysis of funding channels

- Flemish universities
- 1st, 2nd, 3rd and 4th money streams
- Per ZAP (research institutes and –centers only by ZAP)
- Comparing disciplines

Survey Interfaces

- How do they interpret valorisation?
- How are they supporting valorisation?
- Do they observe inter-disciplinary differences in valorisation patterns?
- Which caveats and hurdles do they come across?
- Which policy recommendations would they propose for strengthening the realization of valorisation potential?

Analysis of existing policy instruments for supporting valorisation

- Financing instruments (government, Flemish level)
- Interfaces

Exploratory analysis international policy w.r.t. valorisation of research (in the SS&H)

- Analysis of science policy councils, financing bodies and academies
 - Document analysis
 - Additional information and requests for further explanation: by telephone and email
- Netherlands, United Kingdom, Finland, Canada
 - United Kingdom: AHRC & ESRC
 - Netherlands: AWT, NWO & KNAW
 - Finland: Research and Innovation Council, Academy of Finland, RC for Culture and Society, Committee for Public Information, TEKES
 - Canada: SSHRC

Research Results



- **Primary finding:**

- **Valorisation in SS&H is present in Flanders!**

- Quantitative indications: interdisciplinary comparison analysis of money streams
 - Qualitative indications: cases show a broad range of valorisation trajectories and –forms



Quantitative evidence: Money streams (Callaert & Van Looy, 2011)

G1	G2	G3	G4
<i>1^{ste} geldstroom:</i> <i>Basisfinanciering, gewone werkingstoelagen van de overheid</i>	<i>2^{de} geldstroom:</i> <i>Overheidsbijdragen voor fundamenteel wetenschappelijk onderzoek</i>	<i>3^{de} geldstroom:</i> <i>Overheidsbijdragen voor toegepast of beleidsgericht wetenschappelijk onderzoek</i>	<i>4^{de} geldstroom:</i> <i>Contractonderzoek en wetenschappelijke dienstverlening</i>
	<p>Het betreft hier o.a.:</p> <ul style="list-style-type: none"> - BOF (incl Hercules, Methusalem,...) - FWO (incl. Odysseus) - IUAP (Interuniversitaire AttractiePolen) - ... 	<p>Omvat in principe alle overheidsfinanciering die niet onder de 1^{ste} of de 2^{de} geldstroom thuishoort.</p> <p>Het betreft hier o.a.:</p> <ul style="list-style-type: none"> - IOF - Federale Overheidsdiensten (o.a. impulsprogramma's,...) - Vlaamse Gemeenschap: ministeries, IWT (enkel projectmiddelen, incl SBO financiering), andere Vlaamse instellingen - Steden en gemeenten - Provincies - Europese Unie (o.a. kaderprogramma's) - Internationale instellingen - Buitenlandse overheidsinstellingen 	<p>Het gaat hier om bijdragen afkomstig van het bedrijfsleven en andere private partijen, die verkregen zijn in het kader van contractonderzoek en wetenschappelijke dienstverlening (tegen betaling aanbieden aan derden van kennis, technologie of apparatuur).</p>

Valorisation in SS&H

Annual average per ZAP (k€) by domain (Callaert & Van Looy, 2011)

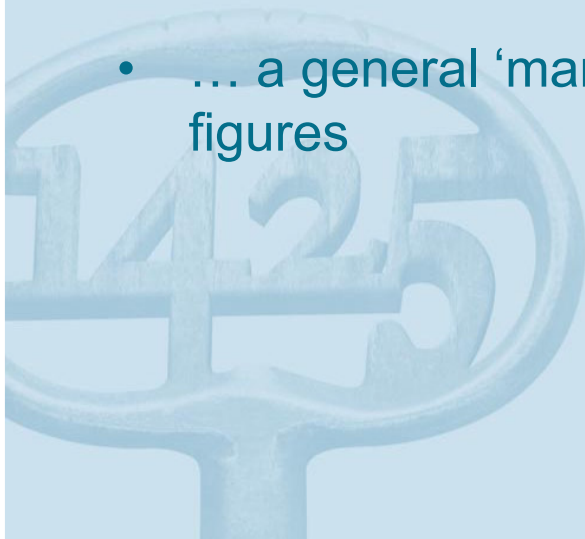
	G1 per ZAP	G2 per ZAP	G3 per ZAP	G4 per ZAP
Exact & Applied Sciences	67,60	109,39	113,82	55,32
Social Sciences & Humanities	56,03	53,96	60,57	23,45
Medical sciences	71,21	113,65	108,08	123,21
Total	63,94	90,57	93,93	56,72
N	145	229	229	203
Sign ANOVA	n.s.	***	***	***
Adjusted R ²	0,015	0,096	0,055	0,146

Caution!:

- Lower infrastructure costs in SS&H
- Figures hide large differences between lower level-disciplines
- Budgets of research institutes (like HIVA) not included
- Figures only available for universities and even then, some specs are missing

Indications that...

- ... complementary structures between money streams are domain specific; but no revelation of any substitution effect
- ...SS&H are characterized by lower financing levels in all money streams – niet necessarily more outspoken for third and/or fourth stream
- ... consideration needed at the level of subdisciplines
- ... a general 'market failure' in SS&H is not confirmed by these figures



- **Typology**
 - Based on analysis of SS&H cases,
 - ... but underlying processes and trajectories are equally valid for valorisation in Exact, Applied and Biomedical sciences.



Valorisation in SS&H

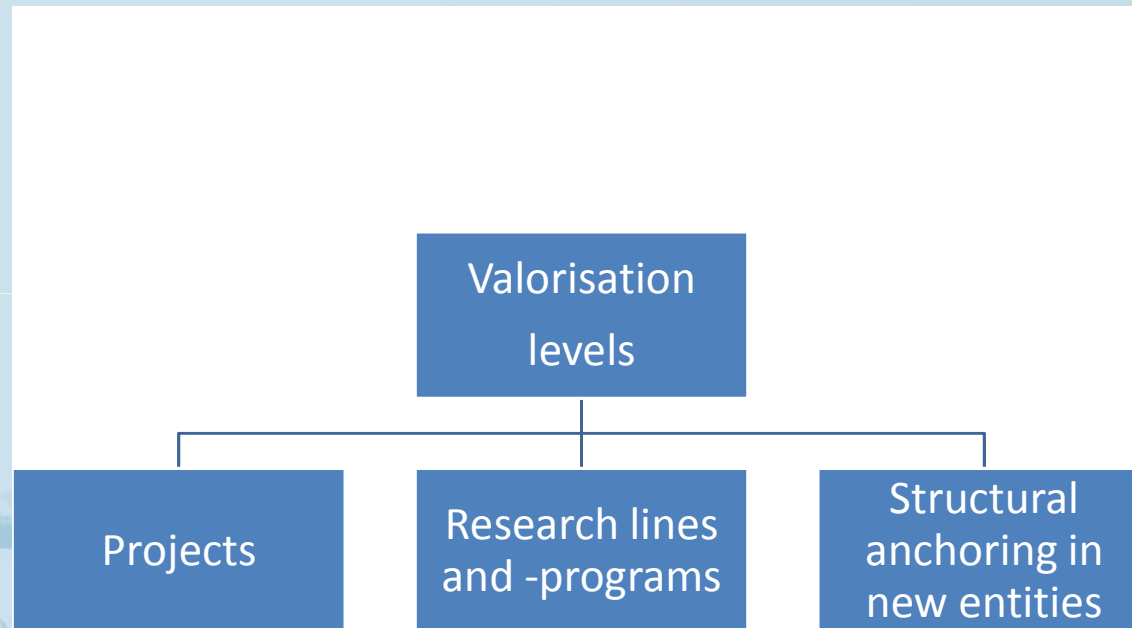
Valorisation typology

- Based on 20 cases from SS&H
 - But processes and dimensions are generic
- Dimensions:
 - Valorisation levels
 - Project-based valorisation
 - Research lines and –programs
 - Structural anchoring in new entities
 - Origin of the need for valorisation
 - Supply-driven (push scenario)
 - Synergy between supply and demand
 - Demand driven (pull scenario)
 - Participation
 - Financial input of users
 - Inclusiveness (who participates?)
 - Broadness (which phases?)
 - Locus (location / type of collaboration / coordination)
 - Intensity (impact of users on project)

Valorisation in SS&H

Valorisation typology

➤ Valorisation levels (Steenssens & Gijssels, 2011)

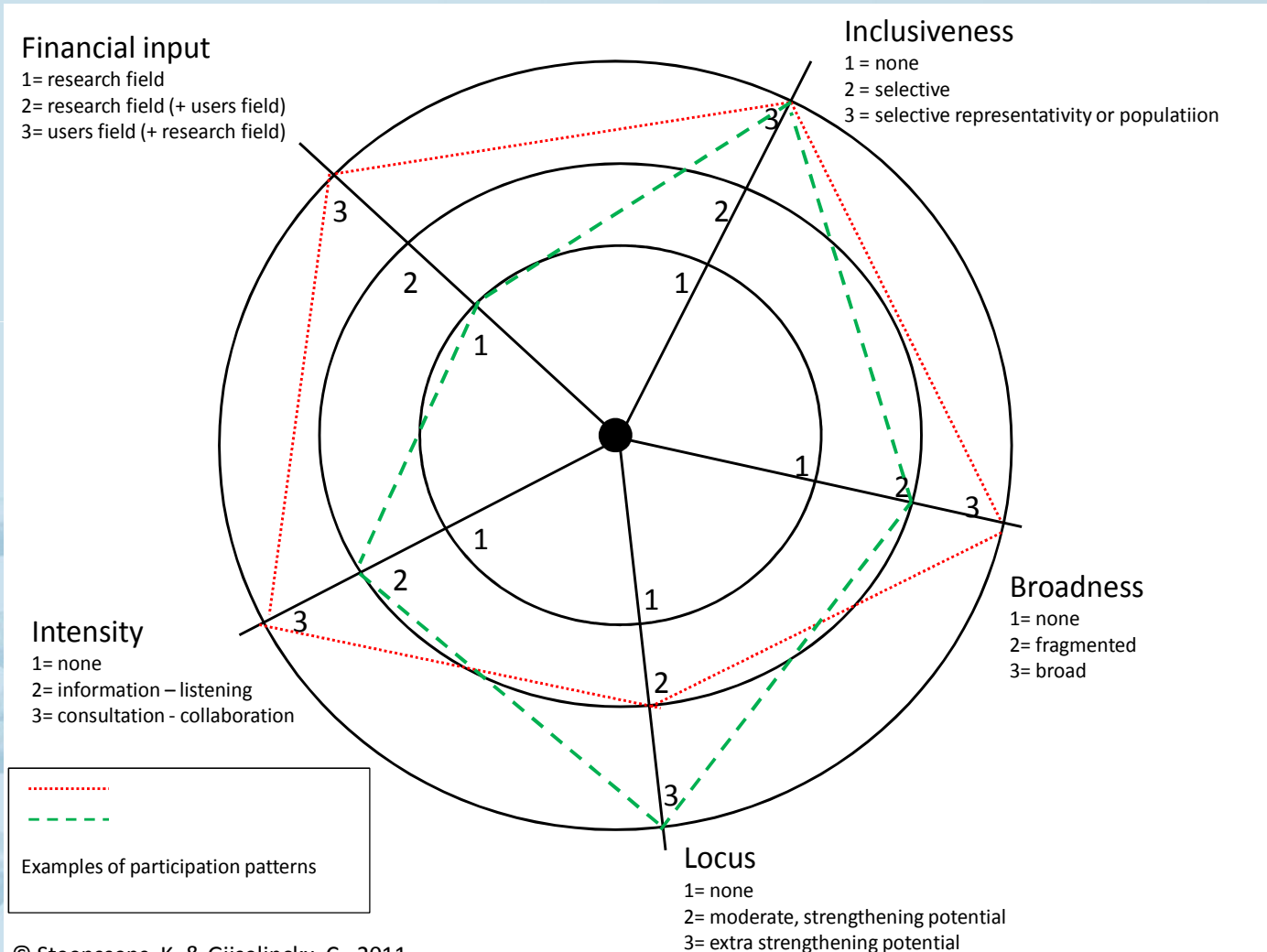


© Steenssens, K. en Gijssels, C., 2011

Valorisation in SS&H

Valorisation typology

➤ Participation diamant (Steenssens & Gijssels, 2011)



- Types of project-based valorisation based on underlying dimensions (in cases)
 - Supply-driven, non-participative project-based valorisation
 - Demand-driven, low/moderate participation project-based valorisation
 - Synergy-driven, high participation project-based valorisation
 - Demand-driven, high participation project-based valorisation

- 2 types of structural anchoring in entities
 - Sustainable bundling of expertise
 - Commercialisation



Second finding:

At present, the importance of valorisation of research in SS&H is only to a limited extent recognized, acknowledged and made explicit



Bottlenecks, hurdles, obstacles

- at the level of Flemish science and innovation policy instruments
- at the level of knowledge institutes
- at the level of individual researchers and users



- **Third finding**

Situation abroad (cf. analysis Netherlands, United Kingdom, Finland, Canada):

- Growing attention, recognition and acknowledgment for valorisation in SS&H
- Emergence of 5 basic principles for a stimulating valorisation policy
 - Broad view on the concept of valorisation
 - On all levels
 - Stimulating and supporting collaboration within and between all involved parties
 - Special attention for SS&H
 - Broad and flexible instruments, tuned to the multiple forms of valorisation

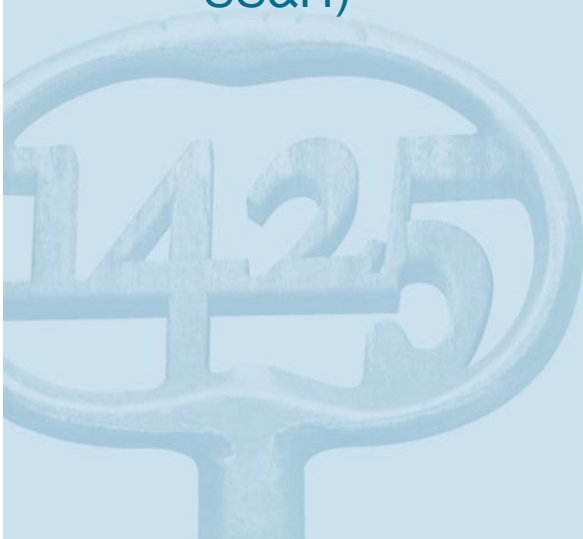
Policy Recommendations



Valorisation in SS&H

In general:

- Involvement and engagement of all actors within the knowledge- and innovation system
- Not only aiming at realizing 'more'... but also at recognizing, making visible, appreciating and supporting what is already present
- Most recommendations are generic (also applicable to other domains besides SS&H)



Valorisation in SS&H

- **Defining the concept of valorisation**
 - broader and more clearly
- **Measuring valorisation**
 - development and use of indicators for broader concept
- **Widening instruments**
 - towards broader concept
 - making it available for all disciplines
- **Organisational and cultural change**
 - appreciation
 - multidisciplinary
 - optimal scale of research groups
 - modalities of collaboration

Valorisaton in SS&H

HIVA

ONDERZOEKINSTITUUT VOOR ARBEID EN SAMELEVENING

KATHOLIEKE UNIVERSITEIT
LEUVEN

Detailed project report available:

*VRWI Studiereeks 22 – Naar waarde geschat: Valorisatie van onderzoek
in de humane en sociale wetenschappen*

Online: <http://www.vrwi.be/publicaties/studiereeks-22>

