

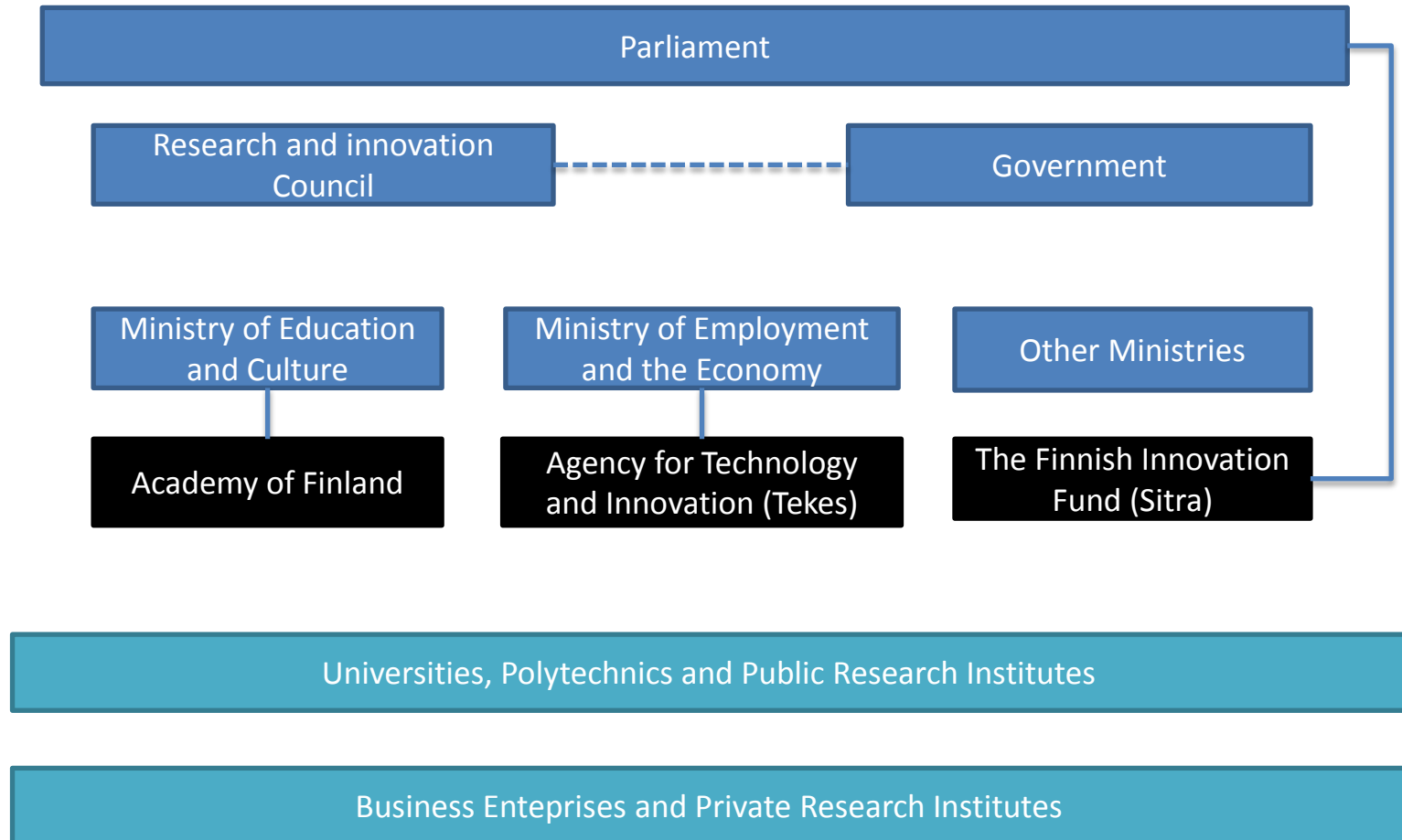
National CRIS development in Finland

Aija Kaitera

Research Administration

University of Helsinki

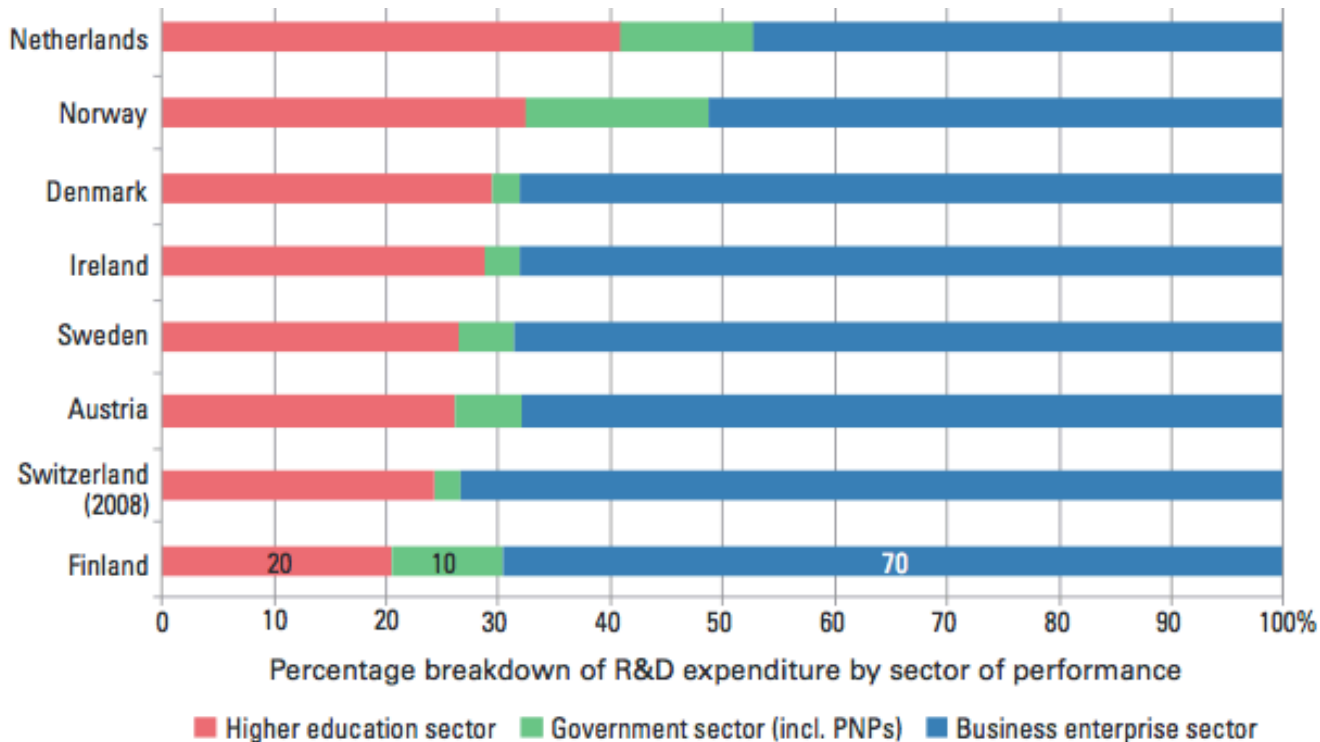
Finnish Science and Technology System



University reform 1.1.2010

- Universities reconstituted as independent institutions under public law
- Aim greater autonomy for universities, which should
 - Increase reactivity, cooperativeness internationally, target resources to top-level research, give strengthened role within the system of innovation
- University's core funding still comes from the state budget through the Ministry of Education and Culture.
 - Increased need for the Ministry's monitoring
- Number of universities down to 14 (prev. 20)
 - Unit size still too small
- Impacts are mainly seen in universities' strategic governance and management.
 - University boards and rectors gained a stronger position

R&D activities by sector of performance (contribution of different sectors as a percentage of national R&D expenditure) in 2010



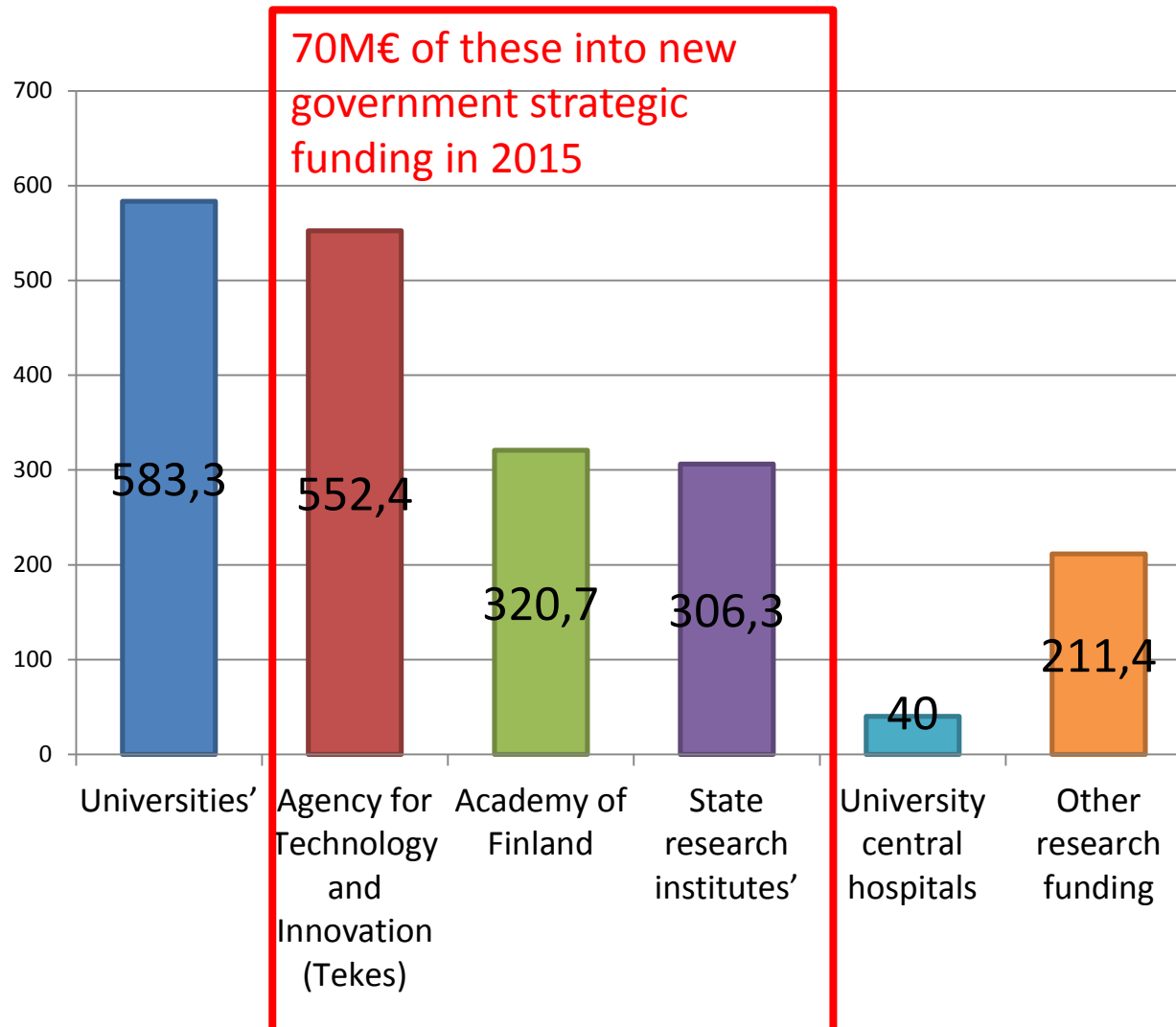
The State of Scientific Research in Finland 2012, figure 9: R&D activities by sector of performance (contribution of different sectors as a percentage of national R&D expenditure) in 2010. Source: OECD Research and Development Statistics (RDS), June 2012.

NB: Data for Switzerland from 2008. The countries are listed in the order of the higher education sector's proportion of R&D activities. The higher education sector includes universities, polytechnics and (e.g. in Finnish statistics) university hospitals. The government sector comprises other public organisations that engage in R&D. In Finland, government research institutes account for the bulk of government-sector R&D. In this Figure, the government sector also includes private non-profit organisations (PNPs), which in Switzerland accounted for 1.6% of R&D expenditure and in other countries for 0–0.7%, the Finnish figure in 2010.

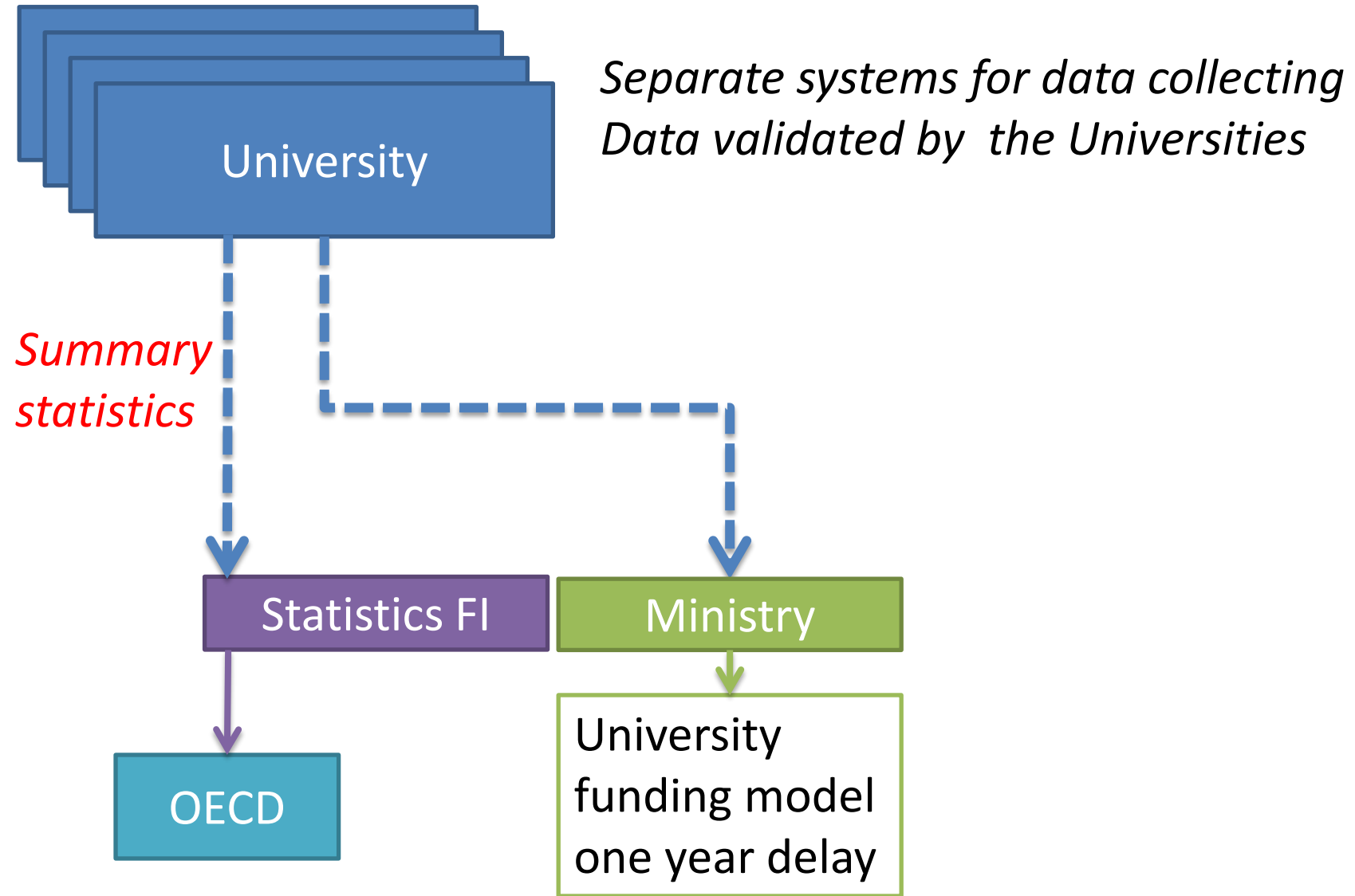
[The state of scientific research in Finland 2012](#)

R&D funding in the state budget in 2012 (M€).

Total 2 010.1 M€

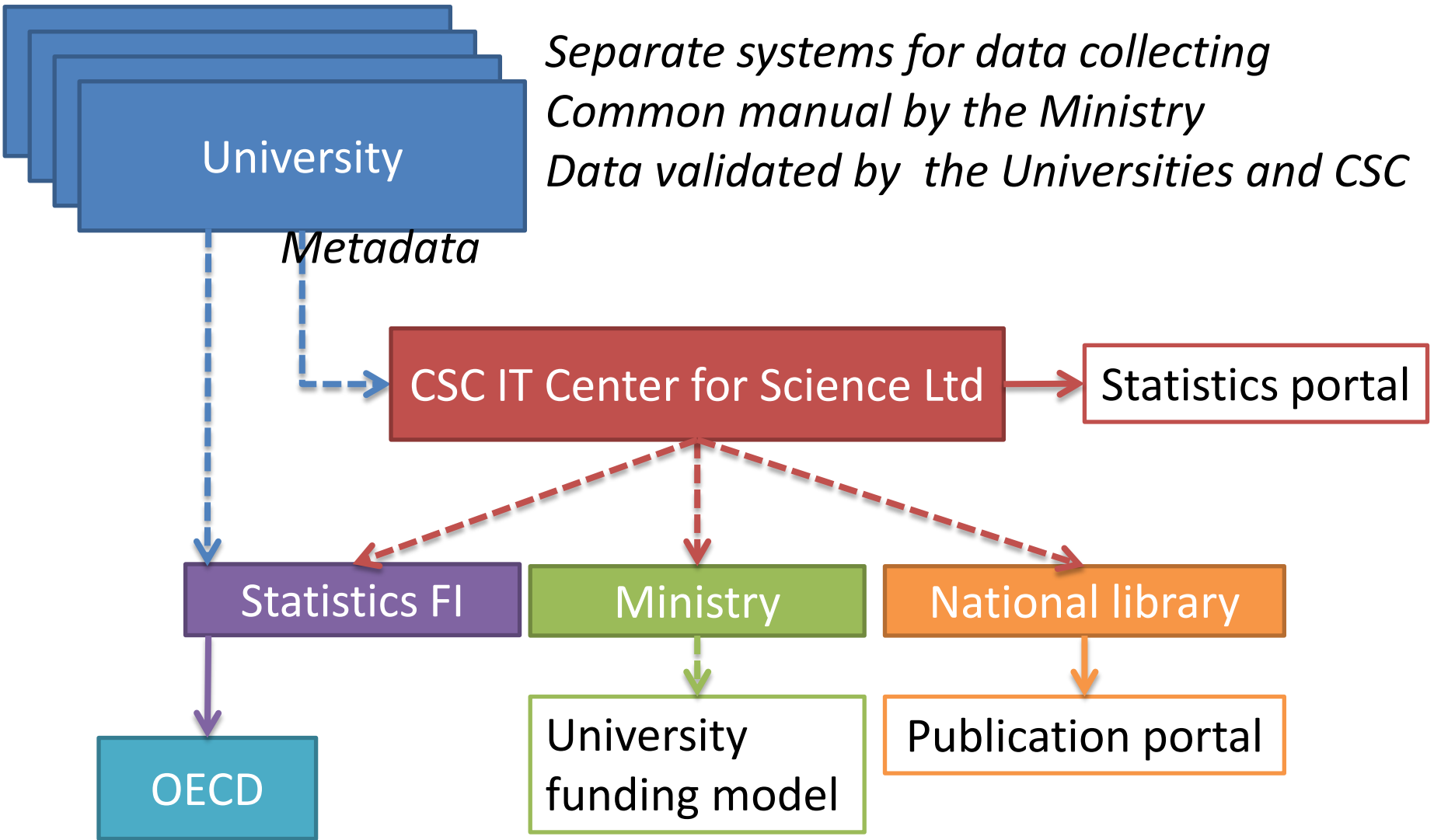


University annual data flow (until 31.12.2009)





University annual data flow (1.1.2010 onwards)





Avaa raportti uuteen ikkunaan

Yliopistojen julkaisut julkaisutyypeista A-E

	A1	A2	A3	A4	B1	B2	B3	C1	C2
☐ 2010	13 929	700	2 859	4 460	2 306	1 784	1 594	541	793
☒ Aalto yliopisto	1 324	24	167	1 155	52	96	235	22	43
☐ Helsingin yliopisto	4 124	239	1 085	558	815	539	382	243	248
Teologinen koulutus	61	6	109	11	58	53	7	16	19
Humanistinen koulutus	213	24	374	107	204	179	73	57	91
Kasvatustieteellinen koulutus	127	3	64	43	31	54	4	14	12
Yhteiskuntatieteell. koulutus	282	25	233	41	147	111	35	95	51
Psykologian koulutus	114	2	41	12	13	12	3	5	8
Oikeustieteellinen koulutus	73	8	97	5	69	47	7	24	15
Luonnontieteellinen koulutus	1 279	32	98	216	86	39	154	24	31
Maatalous-metsätiet. koulutus	278	32	25	59	21	31	86	4	7
Lääketieteellinen koulutus	1 410	89	33	31	169	13	3	4	13
Hammaslääketieteell. koulutus	73	3	3	5	6				
Eläinlääketieteell. koulutus	110	4	6	18	7		10		
Farmasian koulutus	104	11	2	10	4				1

Title [Advanced](#)

Retain my current filters

Search:

Showing 1 - 20 of 70 for search: "", query time: 0.06s

Sort

Narrow Search

Remove Filters

Associations of Breast Cancer Risk Factors With Tumor Subtypes - A Pooled Analysis From the Breast Cancer Association Consortium Studies

Author(s): Yang, Xiaohong R.; Chang-Claude, Jenny; Goode, Ellen L.; Couch, Fergus J.; Nevanlinna, Heli; Milne, Roger L.; Gaudet, Mia; Schmidt, Marjanka K.; Broeks, Annegien; Cox, Angela; Fasching, Peter A.; Hein, Rebecca; Spurdle, Amanda B.; Blows, Fiona; Driver, Kristy; Flesch-Janys, Dieter; Heinz, Judith; Sinn, Peter; Vrieling, Alina; Heikkinen, Tuomas

Journal of the National Cancer Institute. Monographs, 2011

A1 Journal article (refereed), original research

- Institution: University of Helsinki
- Institution: University of Oulu
- Publication Forum Class: 3

Associations of common variants at 1p11.2 and 14q24.1 (RAD51L1) with breast cancer risk and heterogeneity by tumor subtype - findings from the Breast Cancer Association Consortium

Author(s): Figueroa, J. D.; Garcia-Closas, M.; Humphreys, M.; Platte, R.; Hopper, J. L.; Southey, M. C.; Apicella, C.; Hammet, F.; Schmidt, M. K.; Broeks, A.; Tollenaar, R. A.; Van't Veer, L. J.; Fasching, P. A.; Beckmann, M. W.; Ekici, A. B.; Strick, R.; Peto, J.; Dos, Santos Silva I.; Fletcher, O.; Johnson, N.; Sawyer, E.; Tomlinson, I.; Kerin, M.; Burwinkel, B.; Marme, F.; Schneeweiss, A.; Sohn, C.; Bojesen, S.; Flyger, H.; Nordestgaard, B. G.; Benitez J.; Milne, R. L.; Ignacio, Arias J.; Zamora, M. P.; Brenner, H.; Miller H.; Arndt, V.; Rahman, N.; Turnbull, C.; Seal, S.; Renwick, A.; Brauch, H.; Justenhoven, C.; Brning T.; The GENICA Network; Chang-Claude, J.; Hein, R.;

Wang-Gohrke, S.; Dörk, T.; Schrmann P.; Bre

Human Molecular Genetics, 2011

A1 Journal article (refereed), original research

- Institution
- University of Helsinki ✓
 - University of Oulu ✓
 - University of Eastern Finland (20)
 - University of Turku (18)
 - University of Tampere (10)
 - more ...

- Author
- Järvelin, Marjo-Riitta (11)
 - Hartikainen, Anna-Liisa (10)
 - Tuomilehto, Jaakko (8)
 - Laakso, Markku (7)
 - Palotie, Leena (7)
 - more ...

[Get full text »](#)

<http://www.juuli.fi>

Efforts taken to create flow (1)

- RAKETTI (Rocket) project “towards uniformity in information management of higher education institutions”
- Common Conceptual Model
 - Base for data warehouse model
 - covers the majority of reporting needs of the higher educational institutes and the Ministry of Education
 - <http://tietomalli.csc.fi>, teemu.kemppainen@csc.fi

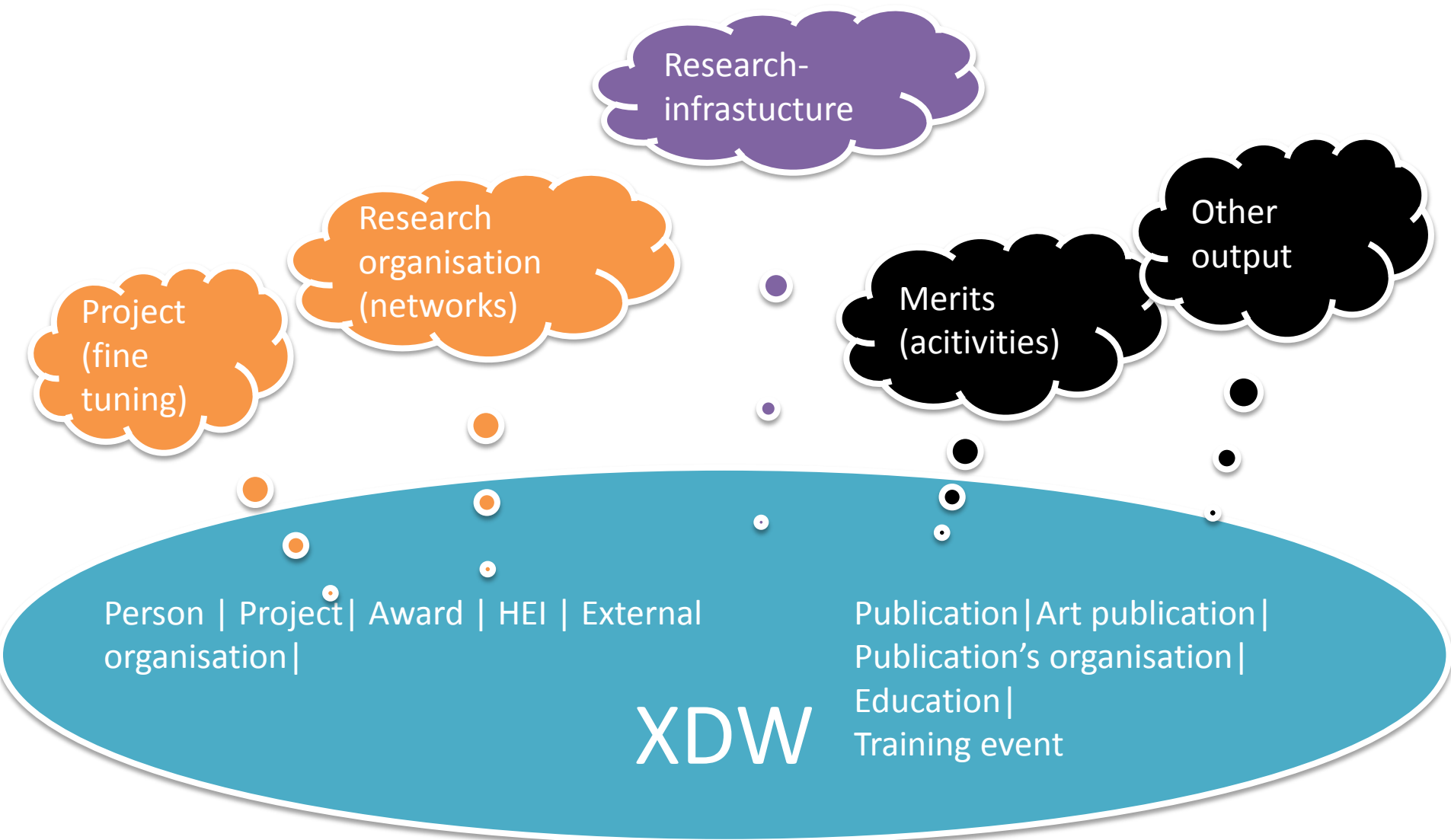
Efforts taken to create flow (2)

- National publication project 2009-2011
 - was terminated, some success though:
- Detailed manual for bibliographical data
 - Incl. classifications for publications and fields of Science
- [Publication Forum](#) according the Norwegian model (2012, in 2015 funding model)

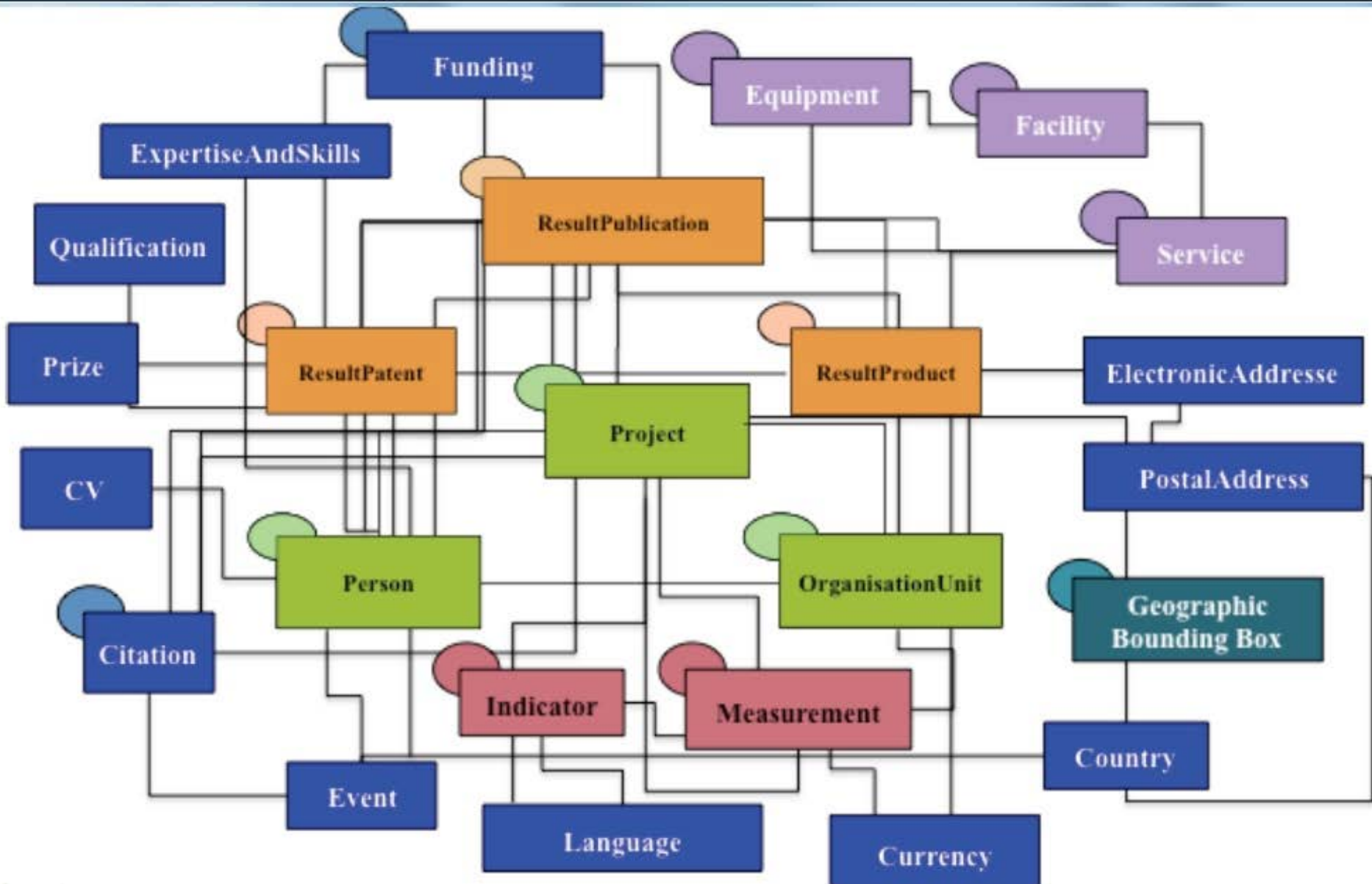
Efforts taken to create flow (3), perspective change

- Primarily university collaboration
 - Coordination at CSC
 - Ministry and other national funding bodies participating
- Task 1: To compare Finnish common model with CERIF
 - Basic concepts are aligned, some challenges identified
 - CERIF has more connections
- Task 2: To Identify concepts relevant for Finnish HEI but currently missing in the Finnish common model (XDW)
 - Five concepts missing or need clarification (next slide)

Concepts needed for HEIs, missing currently in the FI common model (XDW)



CERIF

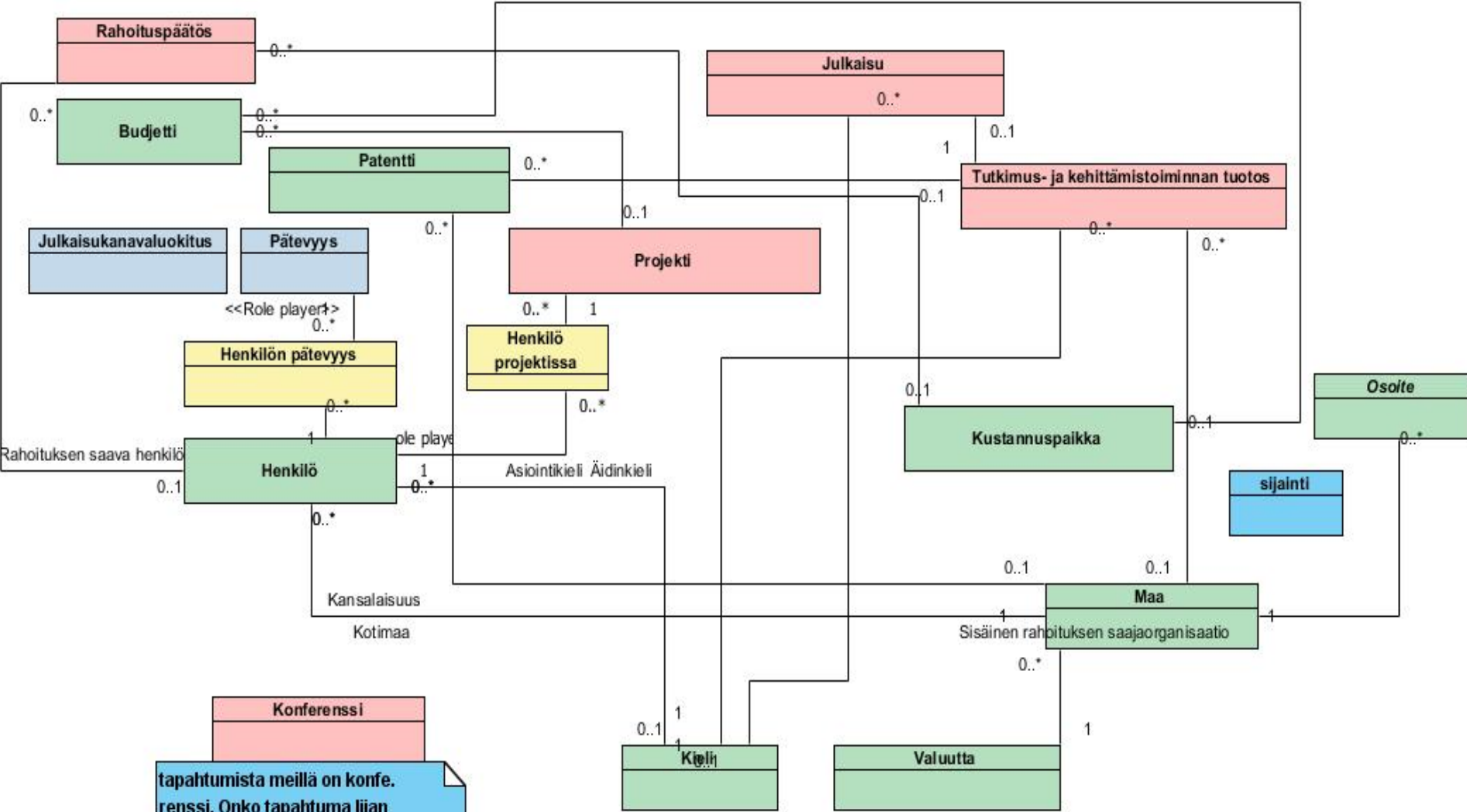


CERIF vs XDW

Challenges:

- Identify relevant connections
- Define model for general concepts (e.g. facility, service)
- Define measurement and Indicator concept
- Create conversion rules

CERIF connections in XDW



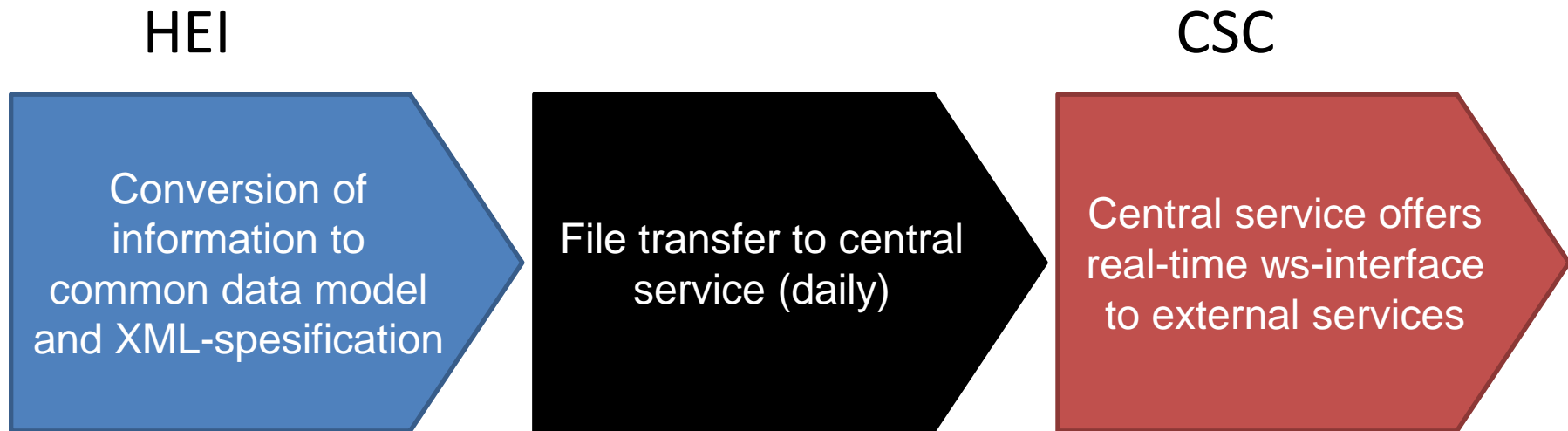
tapahtumista meillä on konfe-
renssejä. Onko tapahtuma liian
yleinen käsite kuten esim-

Teaching activities and pedagogical competence	Officially appointed instructor...to students Responsible teacher for course Head of degree program Development of curriculum, courses and teaching methods Development of teaching material Pedagogical training and competence	Organisation and particip. in conferences, workshops, courses, seminars	Chair/member/secretary of prg./sci. committee Chair/... of organizing committee Chair of workshop or session, panel member Conference organization Conference participation
Public appearances	Presentations and posters Invited presentations and tutorials Media visibility Social media	Memberships in councils, boards, committees and networks	Chair/Secretary/etc. in societies Member in societies Chair/member in expert groups, eval. or steering committees Positions of trust in in companies Chair/member of an award committee or jury
Editorial work and peer-review	Membership in editorial board Editor-in-chief/associate editor/guest editor/Editor of journals Reviewer of scientific and scholarly journals/conference articles/other publications	Expert and evaluation tasks	Expert tasks in the public sector Expert tasks in the private sector Experts tasks in research organizations Eval. of funding applications Eval. of academic/sci/art/teach. competence Evaluation of res./art./teaching activities
Awards, prizes and honours	Award or honour based on academic career Award or honour for scientific/artistic/research/teaching merits	Service and leadership	Management of research unit/group/project Mentoring and tutoring Service at the university Service at higher education institutions/research organisations
Visits	Visits abroad (research/artistic/teaching) Visitors to the organisation (research/artistic/teaching) Studies abroad	Other activity or merit	Other

Future issues in annual reporting

- Currently publications and personnel of universities and polytechnics are collected
- Possible extensions in the future:
 - researcher identifiers for authors of publications
 - data from state research institutes and university hospitals

Final flow



- HEI is responsible
 - for the transfer of information and
 - about the contents as the Registrar
- Ministry of Education and Culture as a service provider (delegated to CSC)