Strategic benefits of "openness of metadata" across the RIS ecosystem: Connecting upstream metadata and downstream strategic challenges.

Towards responsible metrics on serial ERC grantees

April 11, 2019 DS Dimensions User Group webinar

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Topics for today

- 1. Framing the case
- 2.Building the case
- 3. Openness in grants data

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Framing the case

Core research dimensions and responsible research perspective

Focus of the case: Responsible Strategy Metrics for research

Research is more than publishing: 4 core dimensions

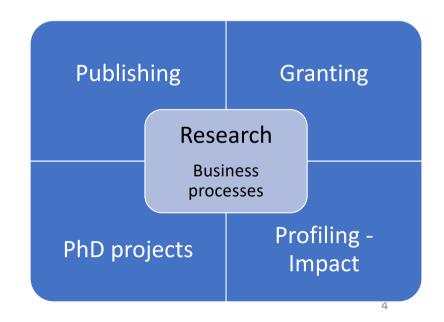
- 1. Publishing
- 2. Granting
- 3. PhD's
- 4. Profiling/Impact

Responsible research metrics 1: Not focusing in one dimension

Focus on full career portfolio

Responsible research metrics 2:

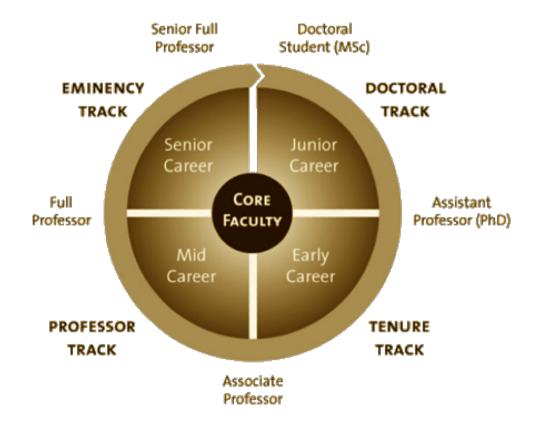
RIS Ecosystem perspective



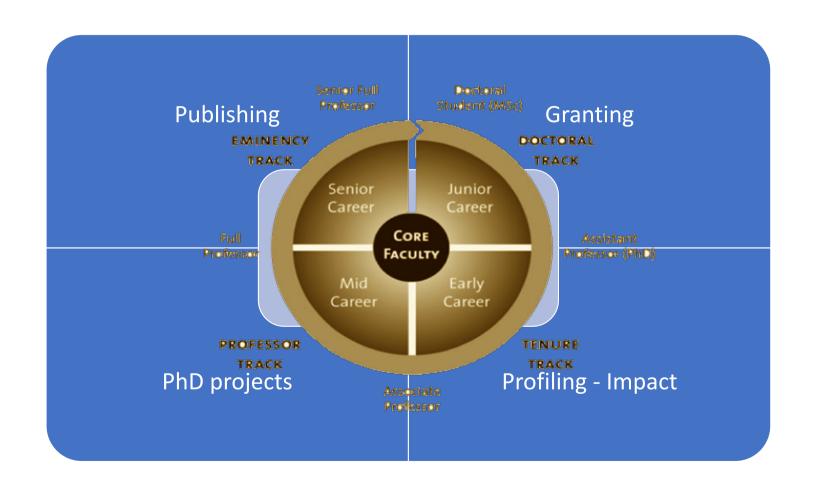
Responsible metrics 1: Career portfolio lens

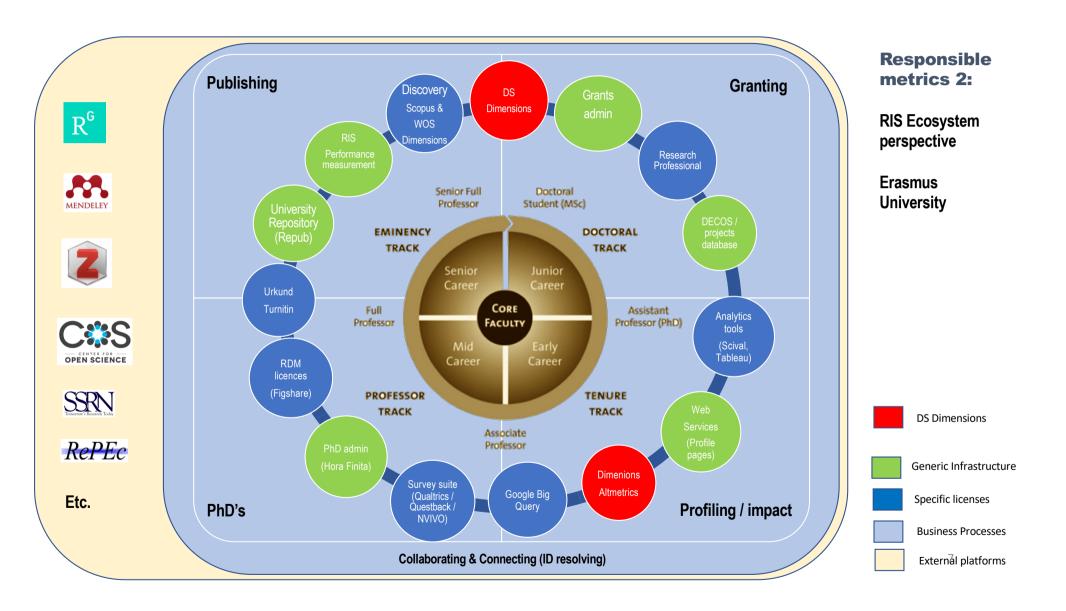
Academic Career Cycle model: focus on 4 faculty development 'tracks'

Responsible research metrics: Focus on full career portfolio

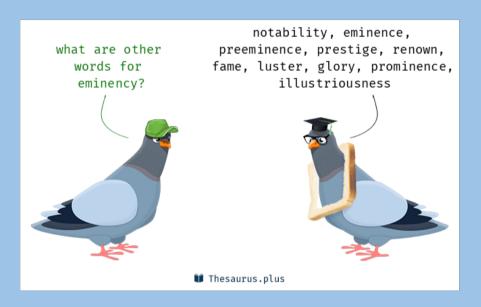


Research metrics = career portfolio metrics: 4 key research elements as focus





2



Building the case

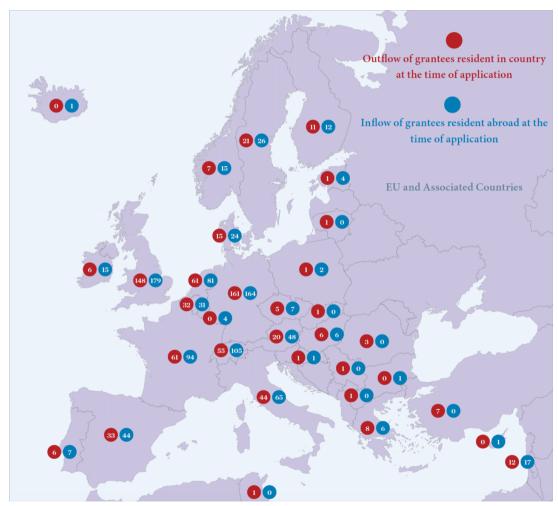
Serial ERC grantholders; towards eminency metrics using DS Dimension evidence

ERC grants 2007-2018: the selective European league of academic grants



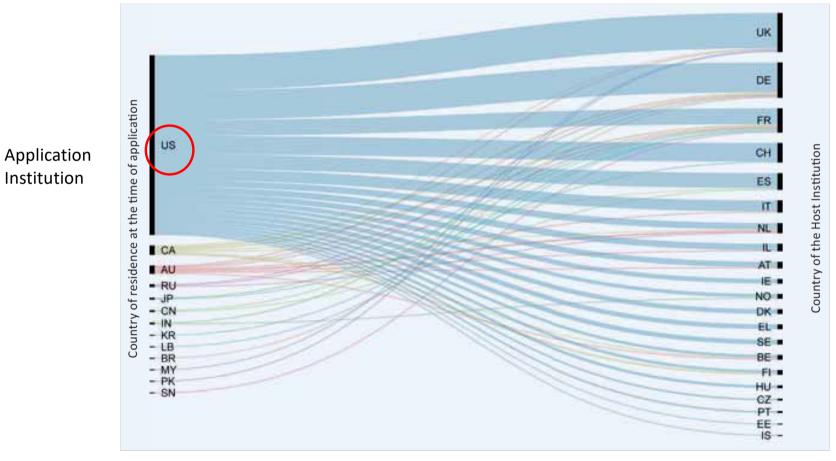
Source: ERC Annual report 2018

ERC grants 2007-2018: Inflow and outflow of grantees talent in Europe



Source: ERC Annual report 2018

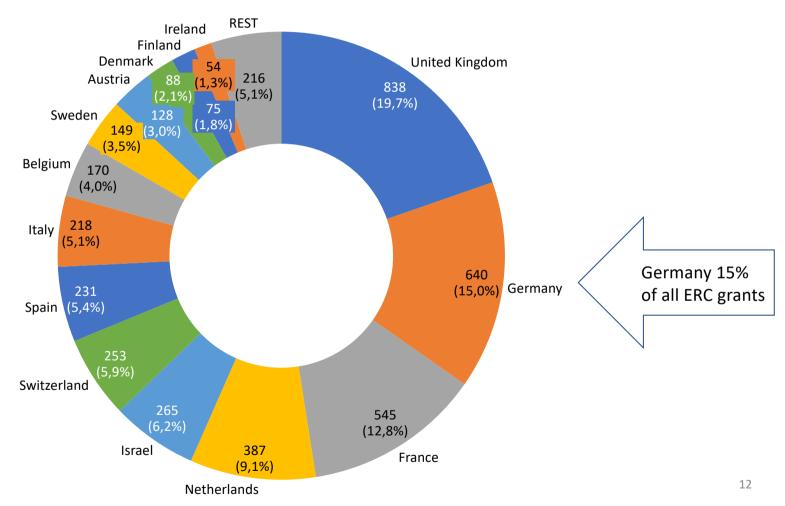
Career mobility to Europe influenced by ERC grants 2007-2018 Lot of *US2EU* dynamics



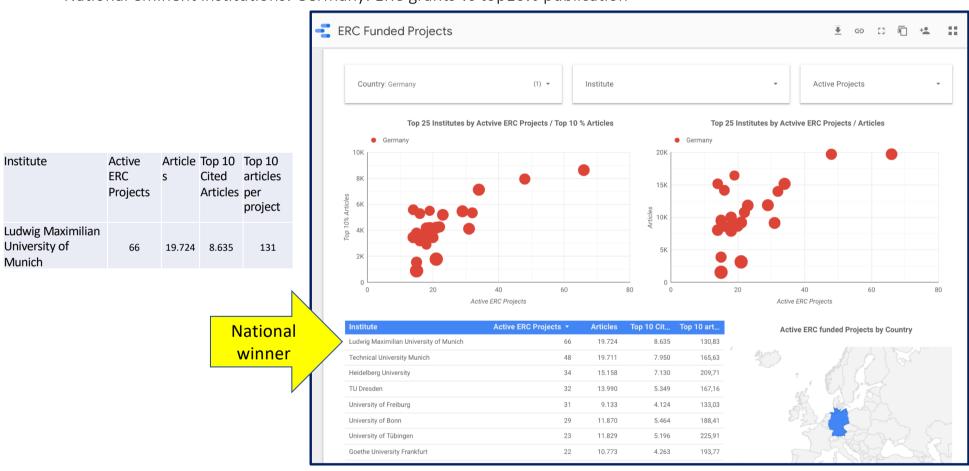
Host Institution

Source: ERC Annual report 2018

ERC 2007-2018 Market share of European Countries > 50 grants (only)



Institutional strategic perspective: competitiveness of insitutions National eminent institutions: Germany: ERC grants vs top10% publication

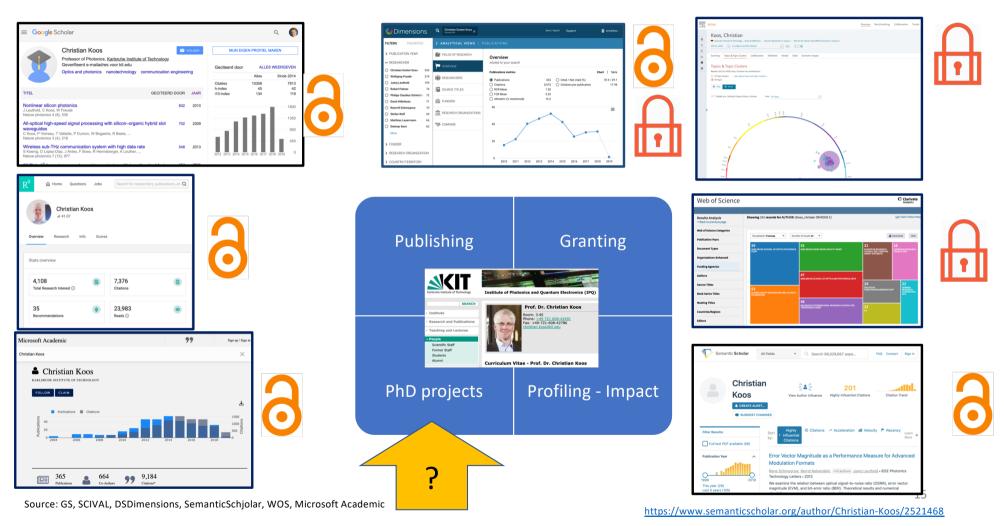


Who are they ERC champions? Serial ERC grantees, 3 / 4 ERC grants, minimal 5 Meuro total grant value Only 21 of 9500 grantees reached this level

Researcher	Institute	Country	Nr of ERC grants	Amount in Meuro	Period
Christian Gunter Koos	Karlsruhe Institute of Technology	Germany	4	5.1	2006 - 2023
Yardena Rachel Samuels	Weizmann Institute of Science	Israel	4	4.4	2007 - 2023
Christiaan Innocentius De Zeeuw	Erasmus University Medical Center	Netherlands	4	3.6	2012 - 2018
Graham John Hutchings	Cardiff University	United Kingdom	4	3.3	1999 - 2023
Andreas Reinhold Hierlemann	Swiss Federal Institute of Technology in Zurich	Switzerland	3	7.3	2011 - 2021
Juergen Arthur Knoblich	Institute of Molecular Biotechnology	Austria	3	6.7	2010 - 2021
Johannes Carolus Clevers	Royal Netherlands Academy of Arts and Sciences	Netherlands	3	6.5	2009 - 2020
Adriano A Aguzzi	University of Zurich	Switzerland	3	6.3	1993 - 2022
Didier Trono	Swiss Federal Institute of Technology in Lausanne	Switzerland	3	6.2	1992 - 2021
Bradley James Nelson	Swiss Federal Institute of Technology in Zurich	Switzerland	3	6.2	1996 - 2022
Uri Banin	Hebrew University of Jerusalem	Israel	2	6.2	2004 - 2022
Detlef Lohse	University of Twente	Netherlands	2	6.1	2005 - 2022
Ulf Thomas Edvard Helleday	Karolinska Institute	Sweden	3	6.0	2011 - 2021
Nektarios Tavernarakis	Foundation for Research and Technology Hellas	Greece	3	5.9	2003 - 2021
Carol Vivien Robinson	University of Oxford	United Kingdom	3	5.7	2002 - 2021
Erin Margaret Schuman	Max Planck Institute for Brain Research	Germany	2	5.7	1990 - 2022
Elly Margaret Tanaka	Research Institute of Molecular Pathology	Austria	2	5.6	2010 - 2022
Jonathan Mark Harrington	Ludwig Maximilian University of Munich	Germany	3	5.4	2003 - 2022
Alfio Maria Quarteroni	Polytechnic University of Milan	Italy	3	5.3	1991 - 2022
Victor Armand Malka	Weizmann Institute of Science	Israel	3	5.2	2009 - 2020
Frank Uhlmann	The Francis Crick Institute	United Kingdom	2	5.2	2003 - 2021

Source: DS Dimension/analytical views/researchers

Eminency metrics of ERC champion in RIS ecosystem perspective? Need for openness & standardization



3

Openness in grants data?

Noblesse oblige: open output, open input, open process?

Towards agreements between stakeholders in the RIS ecosystem?

Stakeholders, entities & data governance in the grants value chain

