



## ~~How to~~ let's make open science fair(er) (not FAIR)

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Hi, can you do a keynote?

Sure what you want me to talk about?

Standards?

I don't know enough of them..

Then just talk whatever you want to

... that I can do!



Roksana



RDA was founded 10 years ago as  
a 10 year programme to fix open  
data... but we are still needed

**Gothenburg, Sweden, 2013**  
**RDA plenary XX**





# Successes of Open Science in the last decade

Policies and principles

Culture and skills

Infrastructure







Can you imagine a world without lawyers?



Is there something wrong in how Open Science is done?



No, it's the **Scientists** who are wrong.







# Values vs. actions







# A Little story





Ethical dilemma?  
Is it fair?



# Strategy for culture change

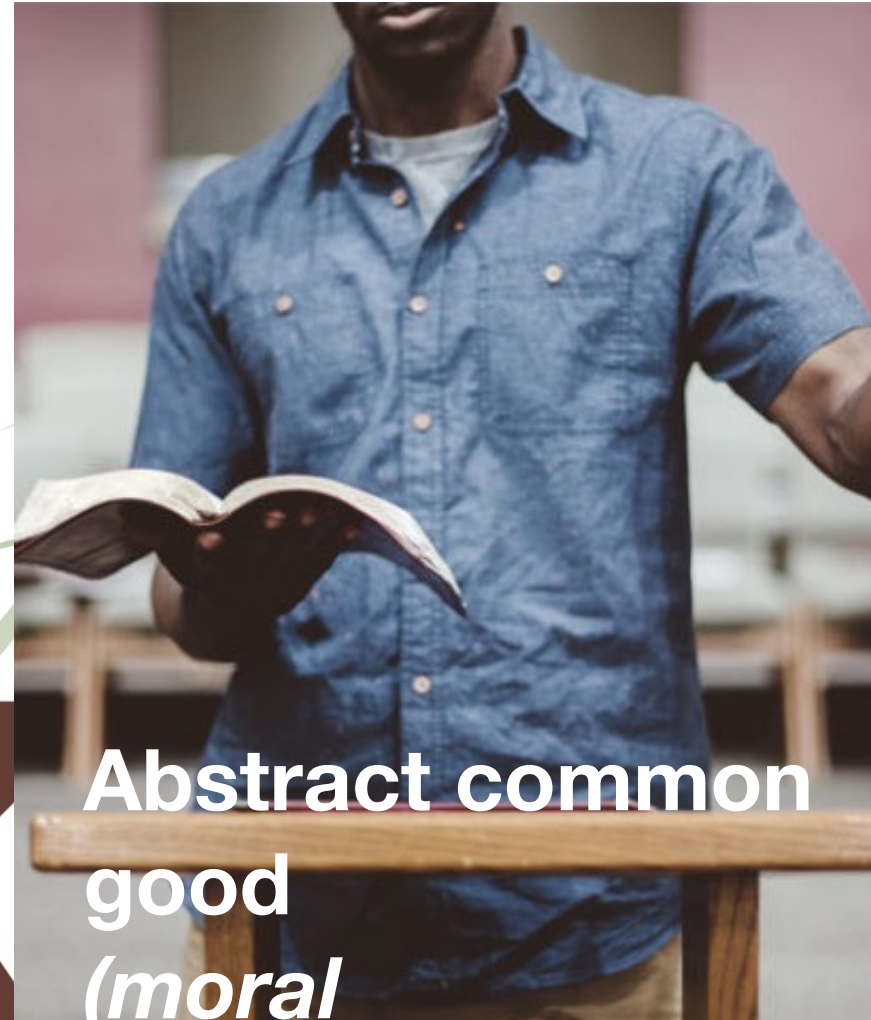


Nosek 2019





## How open science is communicated



Abstract common good  
(moral)



Mandated requirement  
(normative)





Is Open science a rational choice\*  
for a scientist?

\*Beyond bare minimum





**Scientists  
are usually  
human**



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**Humans  
are not  
always  
rational**

$$\sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + \dots}}}} = \varphi$$

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## Twisted incentives hamper the advance of Open Science





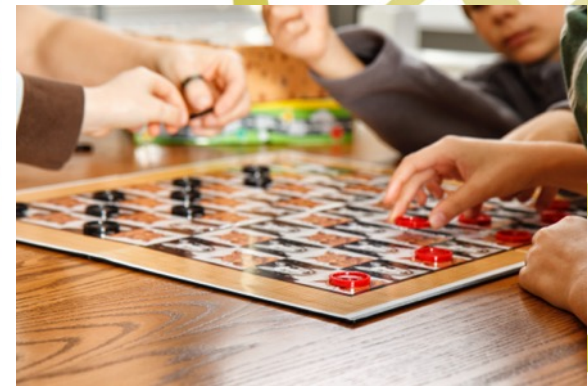
# OS Measurement challenges







# Metrics (are bad)



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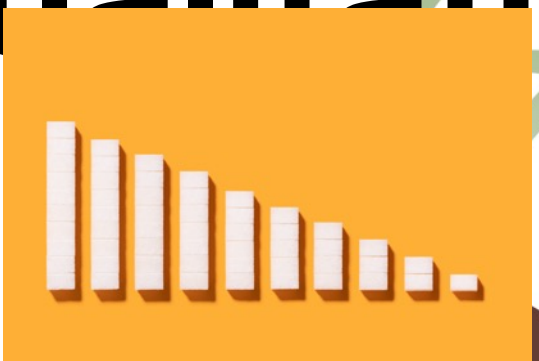
**Metrics  
(are bad)  
(...but  
necessary)**

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# Quantitative > Qualitative



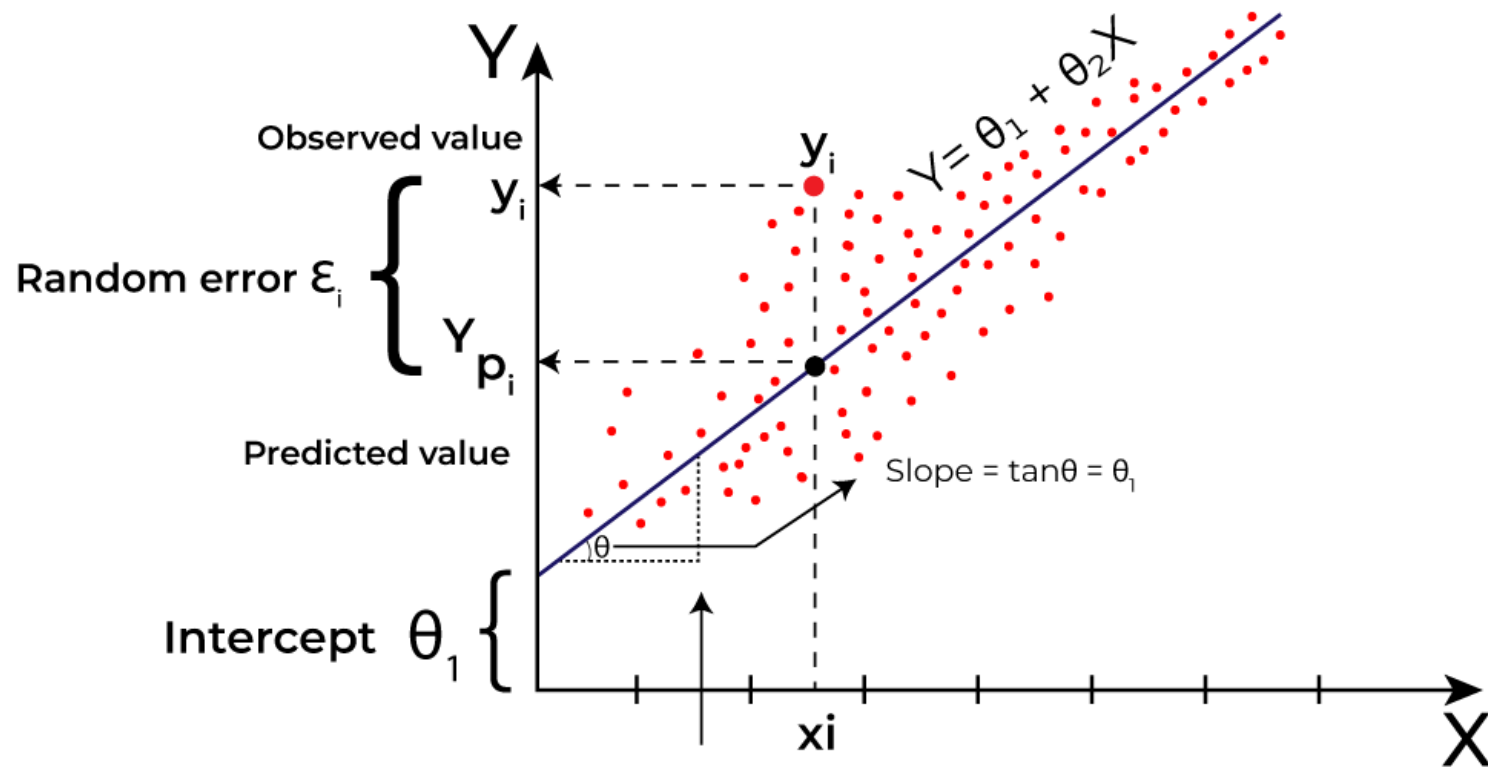


Evaluating the value of science is difficult





Long term societal/scientific impact



Metrics

**RDA**



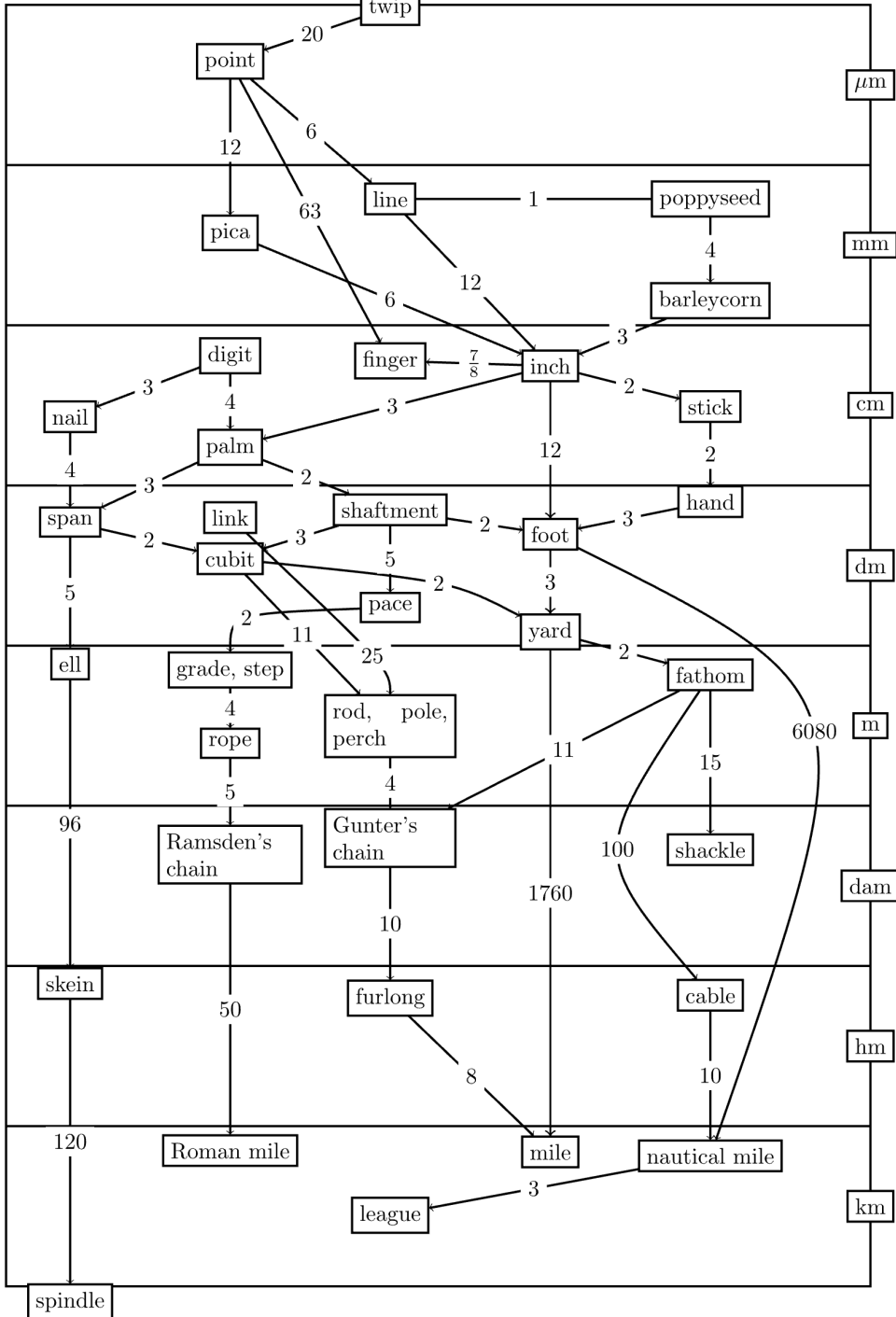
# Cohesion of metrics: RPOs and individuals





A close-up photograph of a pair of hands gently cradling a small, colorful globe of the Earth. The globe is the central focus, showing continents in various colors (green, yellow, brown) and oceans in blue. The hands are positioned around the globe, with fingers visible. The background is a soft, out-of-focus brown. Overlaid on the center of the globe is the text "There are places outside of Europe" in a bold, white, sans-serif font.

**There are places outside of  
Europe**



Divergence of metrics is a global risk

By 42CrMo4, Christoph Päper - English length units graph (PNG), CC BY-SA 4.0, <https://commons.wikimedia.org/w/index.php?curid=61338012>

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**What is a hurdle with good infrastructure..**

**Can be a wall with poor one**







So, what to do?







# Realistic and fair representation of open science and its requirements

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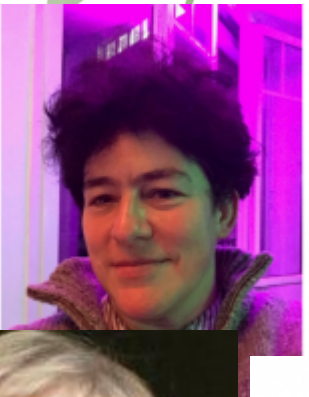
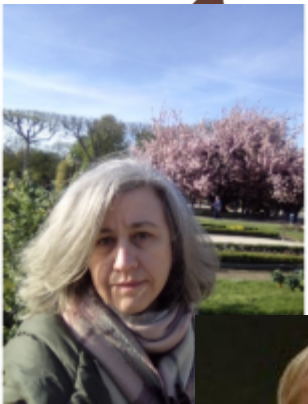




# Collect Concrete examples of benefits to science







# Fund and support Domain Ambassadors and champions







Create global fair indicators reflecting what want from research objects







# Improve the infrastructure and tools globally

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**Finally a word from our sponsor**







# What is RDA?

RDA is an international **member-based organization** focused on the development of infrastructure and community activities that reduce barriers to data sharing and exchange, and the acceleration of data-driven innovation worldwide.

With more than 14,000 members globally representing 152 countries, RDA includes **researchers, scientists and data science professionals** working in multiple disciplines, domains and thematic fields and from different types of organisations across the globe.

*RDA is building the social and technical bridges that enable open sharing of data to achieve its vision of researchers and innovators openly sharing data across technologies, disciplines, and countries to address the grand challenges of society.*



nce



esd





# RDA Groups - Overview

RDA is a pragmatic and agile organization, and through the work of its Working and Interest Groups, directly and logically tackles numerous data infrastructure challenges.

## Working Groups & Interest Groups: what's the difference?

### Working Groups

Working Groups are short-term (18 months) and come together to develop and implement data infrastructure, which could be tools, policy, practices and products that are adopted and used by projects, organizations, and communities. Embedded within these groups are individuals who will use the infrastructure and help in making it broadly available to the public.

### Interest Groups

Interest groups are open-ended in terms of longevity. They focus on solving a specific data sharing problem and identifying what kind of infrastructure needs to be built. Interest Groups can identify specific pieces of work and start up a Working Group to tackle those.

[Read more about RDA Groups here](#)



Science



csd





# RDA 22nd Plenary Meeting – Fully Virtual

14 – 23 May, 2024



# RDA 23rd Plenary Meeting – San José, Costa Rica

12 – 14 November, 2024



# Plenary Meetings: Benefits of Attending



Exchange knowledge, share discoveries, discuss barriers and potential solutions



Learn about new trends, strategies, research developments, directions and policies



Expand your network and meet new committed and passionate data science professionals, working in multiple disciplines



Contribute to acceleration of data infrastructure development



**Open science is often presented as an ethical or global benefit, connected to mandatory rules and requirements**

**Current science environment does not actually incentivise Open Science behaviours beyond requirements, being sometimes even regressive.**

**Requiring Open Science requirements can lead to increase of inequality in research, if not considered properly**

**We need to work to**

- a) Communicate fairly the benefits of Open Science to the scientists (and not only for general) and in their own disciplinary language and examples**
- b) Create better evaluation mechanisms which truly follow the benefits of scientific objects**
- c) We need global alignment and development of infrastructure and tools**

**Comments, questions?  
Send me a note!**

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