

ORCID WHY PERSISTENT IDENTIFIERS MATTER

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Connecting Research
and Researchers

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@ORCID_Org

Imagine a world where:

You could search the internet and find all of a researcher's work with a single query – in any browser

You could auto-populate standard publication and grant forms – any platform, any country

You could in near real time see what your researchers or grantees are publishing – and also know their current affiliation and other funding

WHY PERSISTENT IDs?

Challenges for the **individual**:

- Multiple profile systems
- Manual data entry
- Administrative burden
- No control of personal data
- Name ambiguity
- Recognition/credit



Challenges for the **organisations**:

- Name ambiguity
- Trust in metadata
- Reporting latency
- Silo systems
- Return on investment
- Discoverability

WHY IS THERE A PROBLEM?

Prior to ORCID, the research community lacked the ability to link researchers and scholars with their professional activities.

- *Name variations:*
 - *Matthew J Buys, MJ Buys, M Buys, Matthew John Buys, بايز ، ماثيو*
- *Institutional variations:*
 - *ORCID, ORCID Incorporated, ORCID Inc, ORCID EMEA*



Mark Burnley

@DrMarkBurnley



Follow

"I'm the 38th author..."

"Wow, that sucks."

"I hadn't finished. I'm the 38th author called
"Wang"."

"Oh."

ncbi.nlm.nih.gov/pubmed/26799652

RETWEETS

611

LIKES

479



7:47 AM - 9 Feb 2016

Abstract

Send to:

[Autophagy](#). 2016 Jan 2;12(1):1-222.**Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition).**

[Klionsky DJ](#), [Abdelmohsen K](#), [Abe A](#), [Abedin MJ](#), [Abeliovich H](#), [Acevedo Arozena A](#), [Adachi H](#), [Adams CM](#), [Adams PD](#), [Adeli K](#), [Adhihetty PJ](#), [Adler SG](#), [Agam G](#), [Agarwal R](#), [Aghi MK](#), [Agnello M](#), [Agostinis P](#), [Aguilar PV](#), [Aguirre-Ghiso J](#), [Airoldi EM](#), [Ait-Si-Ali S](#), [Akematsu T](#), [Akpoyiaye ET](#), [Al-Rubeai M](#), [Albaiceta GM](#), [Albanese C](#), [Albani D](#), [Albert ML](#), [Aldudo J](#), [Algül H](#), [Alirezai M](#), [Alloza I](#), [Almasan A](#), [Almonte-Beceril M](#), [Alnemri ES](#), [Alonso C](#), [Altan-Bonnet N](#), [Altieri DC](#), [Alvarez S](#), [Alvarez-Erviti L](#), [Alves S](#), [Amadoro G](#), [Amano A](#), [Amantini C](#), [Ambrosio S](#), [Amelio I](#), [Amer AO](#), [Amessou M](#), [Amon A](#), [An Z](#), [Anania FA](#), [Andersen SU](#), [Andley UP](#), [Andreadi CK](#), [Andrieu-Abadie N](#), [Anel A](#), [Ann DK](#), [Anoopkumar-Dukie S](#), [Antonoli M](#), [Aoki H](#), [Apostolova N](#), [Aquila S](#), [Aquilano K](#), [Araki K](#), [Arama E](#), [Aranda A](#), [Araya J](#), [Arcaro A](#), [Arias E](#), [Arimoto H](#), [Ariosa AR](#), [Armstrong JL](#), [Amould T](#), [Arsov I](#), [Asanuma K](#), [Askanas V](#), [Asselin E](#), [Atarashi R](#), [Atherton SS](#), [Atkin JD](#), [Attardi LD](#), [Auberger P](#), [Auburger G](#), [Aurelian L](#), [Autelli R](#), [Avagliano L](#), [Avantaggiati ML](#), [Avrahami L](#), [Awale S](#), [Azad N](#), [Bachetti T](#), [Backer JM](#), [Bae DH](#), [Bae JS](#), [Bae ON](#), [Bae SH](#), [Baehrecke EH](#), [Baek SH](#), [Baghdiquian S](#), [Bagniewska-Zadworna A](#), [Bai H](#), [Bai J](#), [Bai XY](#), [Bailly Y](#), [Balaji KN](#), [Balduini W](#), [Ballabio A](#), [Balzan R](#), [Banerjee R](#), [Bánhegyi G](#), [Bao H](#), [Barbeau B](#), [Barrachina MD](#), [Barreiro E](#), [Bartel B](#), [Bartolomé A](#), [Bassham DC](#), [Bassi MT](#), [Bast RC Jr](#), [Basu A](#), [Batista MT](#), [Batoko H](#), [Battino M](#), [Bauckman K](#), [Baumgarner BL](#), [Bayer KU](#), [Beale R](#), [Beaulieu JF](#), [Beck GR Jr](#), [Becker C](#), [Beckham JD](#), [Bédard PA](#), [Bednarski PJ](#), [Begley TJ](#), [Behl C](#), [Behrends C](#), [Behrens GM](#), [Behms KE](#), [Bejarano E](#), [Belaid A](#), [Belleudi F](#), [Bénard G](#), [Berchem G](#), [Bergamaschi D](#), [Bergami M](#), [Berkhout B](#), [Berliocchi L](#), [Bernard A](#), [Bernard M](#), [Bernassola F](#), [Bertolotti A](#), [Bess AS](#), [Besteiro S](#), [Bettuzzi S](#), [Bhalla S](#), [Bhattacharyya S](#), [Bhutia SK](#), [Biagosch C](#), [Bianchi MW](#), [Biard-Piechaczyk M](#), [Billes V](#), [Bincoletto C](#), [Bingol B](#), [Bird SW](#), [Bitoun M](#), [Bjedov I](#), [Blackstone C](#), [Blanc L](#), [Blanco GA](#), [Blomhoff HK](#), [Boada-Romero E](#), [Böckler S](#), [Boes M](#), [Boesze-Battaglia K](#), [Boise LH](#), [Bolino A](#), [Boman A](#), [Bonaldo P](#), [Bordi M](#), [Bosch J](#), [Botana LM](#), [Botti J](#), [Bou G](#), [Bouché M](#), [Bouchecareilh M](#), [Boucher MJ](#), [Boulton ME](#), [Bouret SG](#), [Boya P](#), [Boyer-Guittaut M](#), [Bozhkov PV](#), [Brady N](#), [Braga VM](#), [Brancolini C](#), [Braus GH](#), [Bravo-San Pedro JM](#), [Brennan LA](#), [Bresnick EH](#), [Brest P](#),

[Ventura N](#), [Ventura S](#), [Veras PS](#), [Verdier M](#), [Vertessy BG](#), [Viale A](#), [Vidal M](#), [Vieira H](#), [Vierstra RD](#), [Vigneswaran N](#), [Vij N](#), [Vila M](#), [Villar M](#), [Villar VH](#), [Villarroya J](#), [Vindis C](#), [Viola G](#), [Viscomi MT](#), [Vitale G](#), [Vogl DT](#), [Voitsekhojskaja OV](#), [von Haefen C](#), [von Schwarzenberg K](#), [Voth DE](#), [Vouret-Craviari V](#), [Vuori K](#), [Vyas JM](#), [Waeber C](#), [Walker CL](#), [Walker MJ](#), [Walter J](#), [Wan L](#), [Wan X](#), [Wang B](#), [Wang C](#), [Wang CY](#), [Wang C](#), [Wang C](#), [Wang C](#), [Wang D](#), [Wang F](#), [Wang F](#), [Wang G](#), [Wang HJ](#), [Wang H](#), [Wang HG](#), [Wang H](#), [Wang HD](#), [Wang J](#), [Wang J](#), [Wang M](#), [Wang MQ](#), [Wang PY](#), [Wang P](#), [Wang RC](#), [Wang S](#), [Wang TF](#), [Wang X](#), [Wang XJ](#), [Wang XW](#), [Wang X](#), [Wang X](#), [Wang Y](#), [Wang Y](#), [Wang Y](#), [Wang YJ](#), [Wang Y](#), [Wang Y](#), [Wang Y](#), [Wang YT](#), [Wang Y](#), [Wang ZN](#), [Wappner P](#), [Ward C](#), [Ward DM](#), [Warnes G](#), [Watada H](#), [Watanabe Y](#), [Watase K](#), [Weaver TE](#), [Weekes CD](#), [Wei J](#), [Weide T](#), [Weihi CC](#), [Weindl G](#), [Weis SN](#), [Wen L](#), [Wen X](#), [Wen Y](#), [Westermann B](#), [Weyand CM](#), [White AR](#), [White E](#), [Whitton JL](#), [Whitworth AJ](#), [Wiels J](#), [Wild F](#), [Wildenberg ME](#), [Wileman T](#), [Wilkinson DS](#), [Wilkinson S](#), [Willbold D](#), [Williams C](#), [Williams K](#), [Williamson](#)



- Documenting impact through research performance frameworks
- Reducing researcher burden

... but these two goals seem at cross purposes?

WHAT IS ORCID?

- An identifier for researchers
- A registry
- A set of standard procedures for connecting researchers to their affiliations and activities
- A committed community building connectors
- An international-scale open research effort

ORCID IS OPEN

- Non-profit and platform-neutral
- International service that integrates with other researcher identifiers
- Registry use is free for individuals
- Independent non-profit membership organization
- Open data, software, APIs, and documentation



MANAGING RESEARCH INFORMATION IS DIFFICULT

- Research information systems can be stuck in the past; some are not even online or networked
- Research information is stored in 'silos' – systems do not talk to one another
- Researchers and administrators waste a lot of time typing the same information into systems again, and again, and again...

How much time does it take to collect and verify information?

HOW CAN WE MAKE THINGS BETTER?

- Get **digital** and get online.
- Use **open**, shared systems wherever possible
- Try to **automate** everything you can
- Let the **machines** do the talking

And finally... Use **identifiers** for people, places and things!

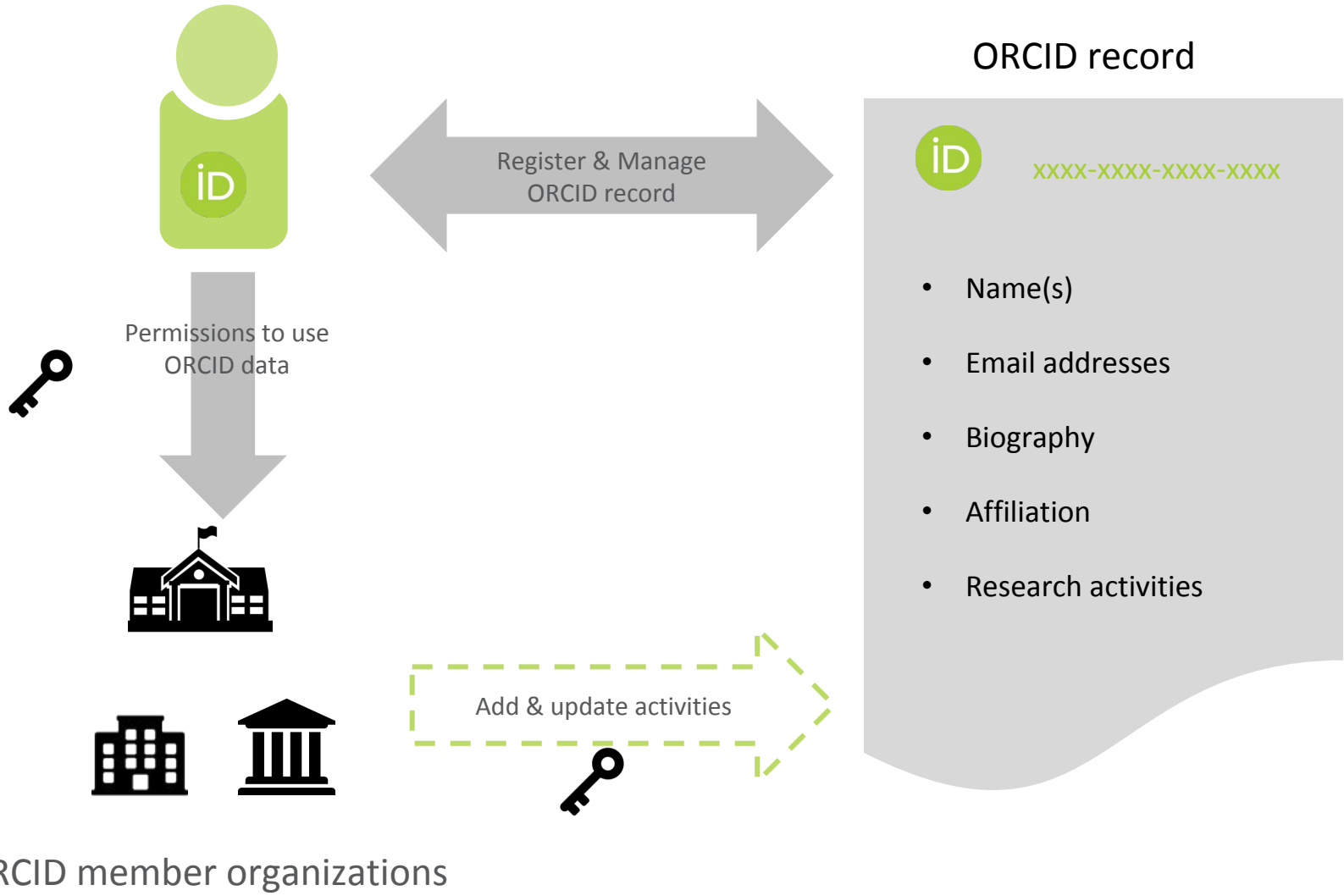


ORCID PUTS THE RESEARCHER IN CONTROL

Researchers sign in to their ORCID account to:

- Connect their iD to research systems
- Control who can access their information
- Choose what information to make public





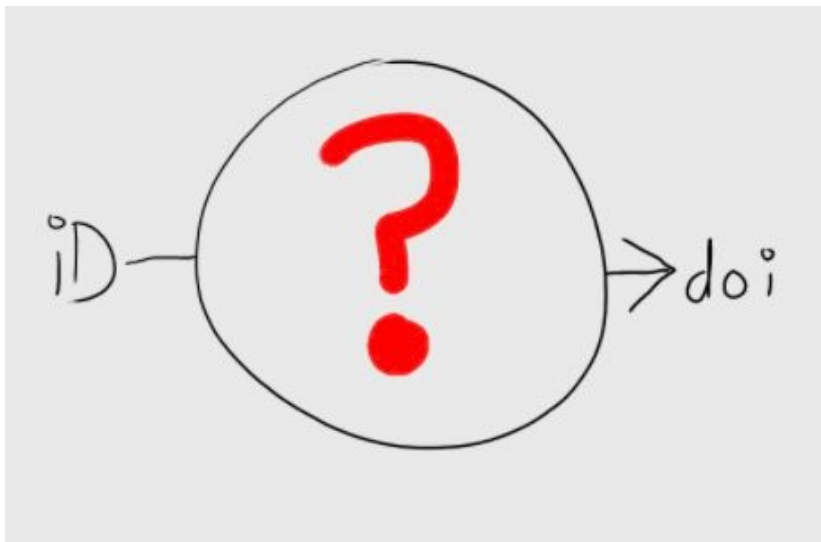


Collect iD using an authenticated API to ensure:

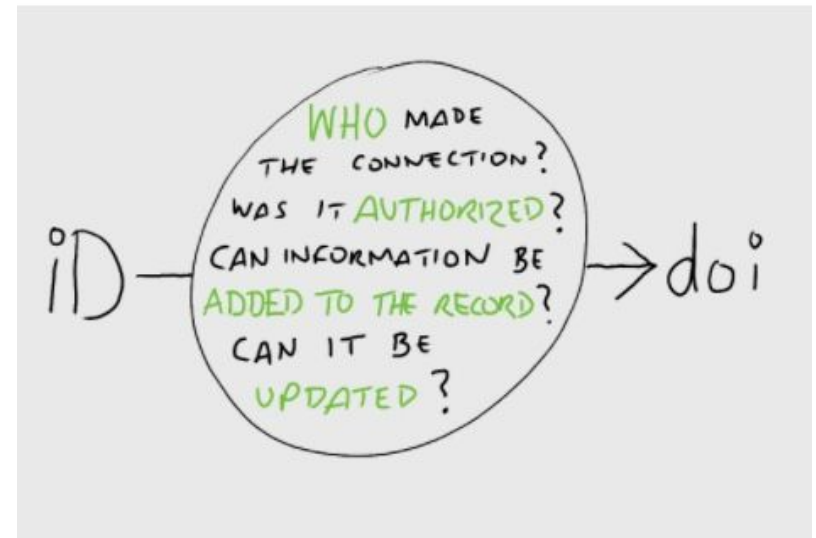
- the person and the iD belong together
- the iD is correctly entered
- privacy is respected

For more info on membership, visit <http://orcid.org/about/membership>

.... and also, authentication provides ORGANISATIONS the opportunity to ask for permissions to read/write/update ORCID records.

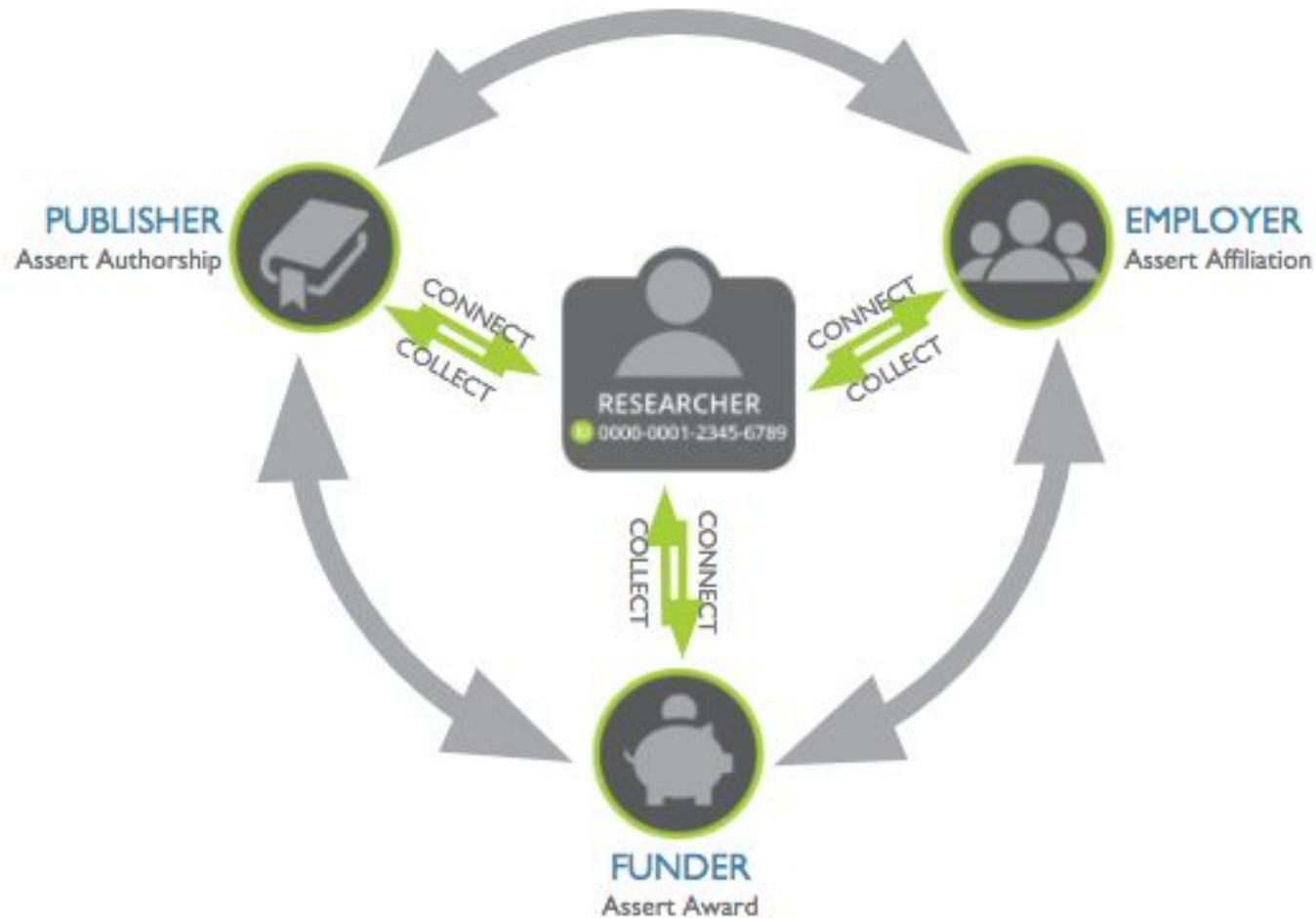


No authentication



With authentication

INTEROPERABILITY—ENTER ONCE REUSE OFTEN



THERE ARE MANY USEFUL IDENTIFIERS



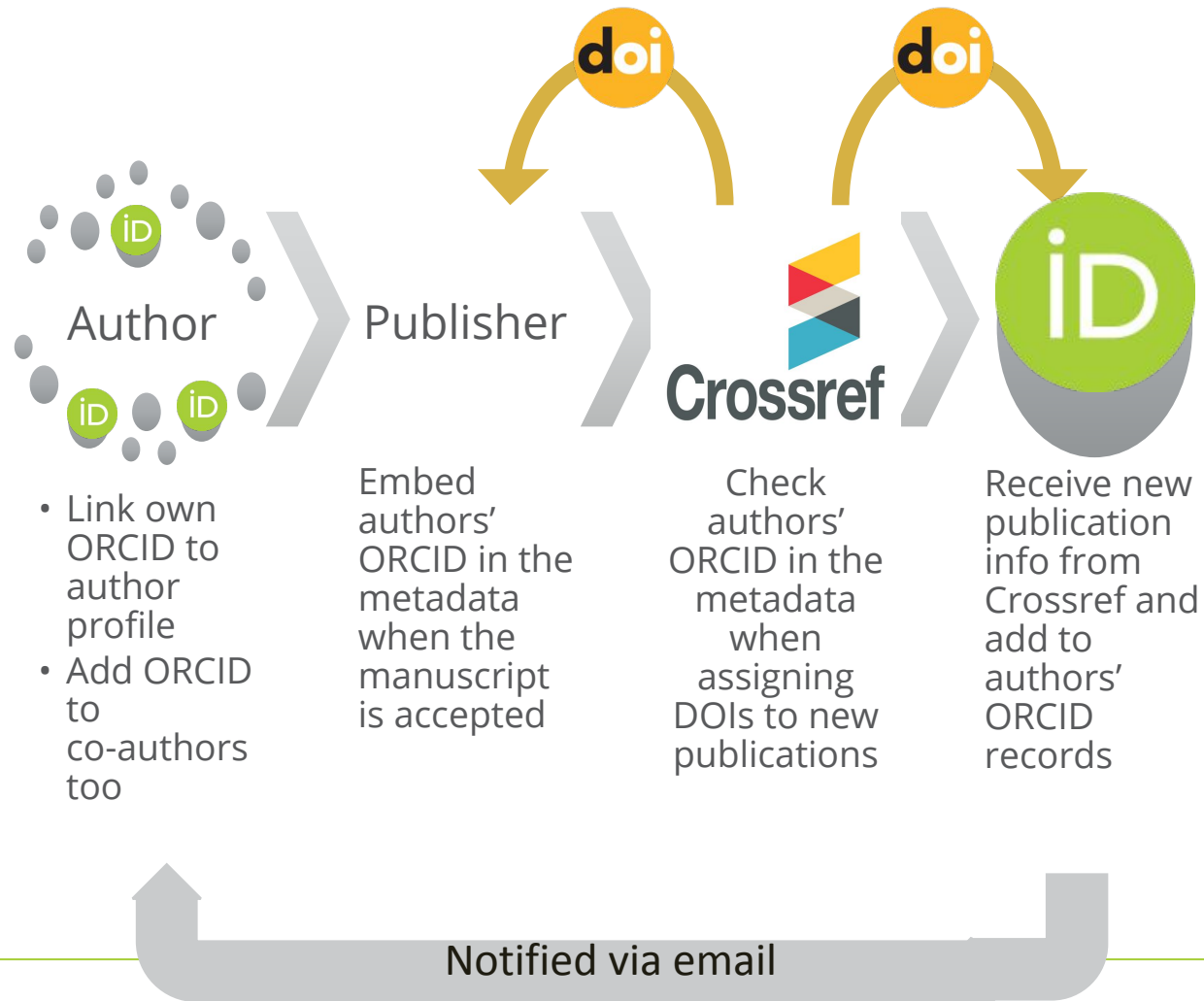
HOW CAN WE BENEFIT FROM IDENTIFIERS

- If identifiers already exist, USE THEM
- Help the community to understand the gaps you need to see filled – we are here to listen and learn
- Take advantage of the connections we've already built. They can bring you benefits right now.

So how do identifiers work together already?



ORCID AUTO-UPDATE



PUBLISHER OPEN LETTER



Hindawi



WILEY



SPRINGER NATURE

Over 1,500 journals are now requiring ORCID iDs



<https://orcid.org/content/requiring-orcid-publication-workflows-open-letter>

THE COMMUNITY OF INTEGRATORS

- 
- A world map with several countries highlighted in light green and light blue. The highlighted countries include the United Kingdom, Denmark, Finland, Sweden, Netherlands, Belgium, Germany, Italy, South Africa, Taiwan, Australia, New Zealand, Canada, and the United States. The rest of the world is shown in light grey.
- 713 members from 41 countries, consortia in the UK, Denmark, Finland, Sweden, Netherlands, Belgium, Germany, Italy, South Africa, Taiwan, Australia, New Zealand, Canada and the US
 - 3.7m researchers, 1.4m records with at least one connection: 20m works, 328K grants, 147K reviews, 1.8m education and 1.4m employment items
 - Over 550 integrations across sectors of the research community

HOW DO WE BENEFIT AS A COMMUNITY

- ① Individuals should use their iD... and encourage institutions, publishers and funders to collect their ORCID iD through authentication
- ② Organisations should join the ORCID community of 700+ members and integrate to create interoperability and streamline workflows

THE TRUE POWER OF OUR API IS THE FLEXIBILITY TO USE IT
IN WAYS WE HAVEN'T EVEN DREAMED OF!



THANK YOU!



- Find out more at <http://orcid.org>
- Register at <http://orcid.org/register>
- Twitter @ORCID_Org / @mjbuys

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