



How FAIR is CBD reporting... ...and why does it matter?

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First things first...

What is FAIR ?

Findable

Accessible

Interoperable

Reuseable

- FAIR is a concept originating from ethical and practical considerations about data availability and accessibility

- First paper published on FAIR data is from 2016

Mark D. Wilkinson; Michel Dumontier; IJsbrand Jan Aalbersberg; et al. 2016. "The FAIR Guiding Principles for scientific data management and stewardship". Scientific Data. 3 (1): 160018. doi:10.1038/SDATA.2016.18

- The FAIR concept applies to workflows as well
Computing science as pioneers

Goble, C. et al. FAIR computational workflows. Data Intell. 2, 108–121, https://doi.org/10.1162/dint_a_00033 (2020).

Findable

Accessible

Interoperable

Reuseable

- Identifiers, metadata?
DOI, repository, web-address, reference, name, ...

- Can I get the data/workflow?
Downloadable, on-demand, ...

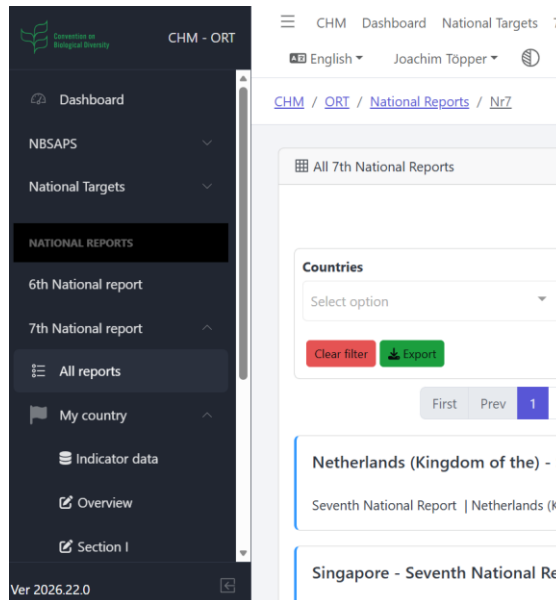
- Format, vocabularies?
Code-based, text-based, language, ...

- May/can I reuse the work?
Licences, origins of the work, ...

CBD reporting

The screenshot shows the CHM - ORT web application interface. The top navigation bar includes links for CHM, Dashboard, National Targets, 7th National Report, National users, Taxonomy, and Help. The user is logged in as Joachim Tøpper. The breadcrumb trail is CHM / ORT / National Reports / Nr7. The main content area displays "All 7th National Reports" with a "+ My country 7th National Report" button. Below this are two dropdown menus for "Countries" and "Regions", both currently set to "Select option". There are "Clear filter" and "Export" buttons. A pagination bar shows "1 of 6" reports, with "Total: 130" and a page size of "25". The first report is "Netherlands (Kingdom of the) - Seventh National Report", published on 26 Feb 2026 16:13 and updated on 22 May 2026 12:20. The second report is "Singapore - Seventh National Report". A green question mark icon is visible in the bottom right corner of the report list area. The left sidebar contains navigation options: Dashboard, NBSAPS, National Targets, NATIONAL REPORTS (highlighted), 6th National report, 7th National report, All reports, My country, Indicator data, Overview, and Section I. The version number "Ver 2026.22.0" is shown at the bottom left of the sidebar.

CBD reporting



The screenshot shows the CHM - ORT web application interface. On the left is a dark sidebar menu with the following items: Dashboard, NBSAPS, National Targets, NATIONAL REPORTS (highlighted), 6th National report, 7th National report, All reports, My country, Indicator data, Overview, and Section I. The main content area has a breadcrumb trail: CHM / ORT / National Reports / Nr7. Below this is a filter section for 'All 7th National Reports' with a 'Countries' dropdown menu (currently showing 'Select option'), 'Clear filter', and 'Export' buttons. A pagination bar shows 'First', 'Prev', and '1'. The first report entry is 'Netherlands (Kingdom of the) - Seventh National Report | Netherlands (K' and the second is 'Singapore - Seventh National Re'. The bottom left corner of the sidebar shows 'Ver 2026.22.0'.



Online Reporting Tool

Loading...

CBD reporting

CHM - ORT

- Dashboard
- NBSAPS
- National Targets
- NATIONAL REPORTS**
- 6th National report
- 7th National report
- All reports
- My country
- Indicator data
- Overview
- Section I

Ver 2026.22.0

CHM Dashboard National Targets 7th National Report National users Taxonomy Help

English Joachim Tøpper

CHM / ORT / National Reports / Nr7

All 7th National Reports

CHM / ORT / National Reports / Nr7

Section I
Section II
Section III
Section IV
Section V
Other information

Countries **Regions**

Select option Select option

Clear filter Export

First Prev 1 2 3 4 5 ... Next

Netherlands (Kingdom of the) - Seventh National Report

Seventh National Report | Netherlands (Kingdom of the) | Published on

Singapore - Seventh National Report

A.2 Extent of natural ecosystems **Headline** GBF-INDICATOR-A.2

Source of Data

Use national data set

Data [Download](#)

Has disaggregation	Disaggregation type	Disaggregation	Year	Unit	Value	Footnote
No			2016	Percent (%)	24.843	Geographical scope includes terrestrial and freshwater ecosystems only
No			2017	Percent (%)	25.132	Geographical scope includes



CBD reporting

CHM - ORT

- Dashboard
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Ver 2026.22.0

CHM Dashboard National Targets 7th National Report National users Taxonomy Help

English Joachim Tøpper

CHM / ORT / National Reports / Nr7

All 7th National Reports

CHM / ORT / National Reports / Nr7

Section I
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How FAIR is it?



7thNR FAIR analysis

- EU and associated countries
- FAIR analysis of workflow & underlying data
- Analysis inspired from
 - Self-assessment tools for FAIR data
(e.g. <https://ardc.edu.au/resource/fair-data-self-assessment-tool/>)
 - Adaptations of FAIR principles for computational workflows
(e.g. Wilkinson, S.R., Aloqalaa, M., Belhajjame, K. et al. Applying the FAIR Principles to computational workflows. Sci Data 12, 328 (2025). <https://doi.org/10.1038/s41597-025-04451-9>)

7thNR FAIR analysis

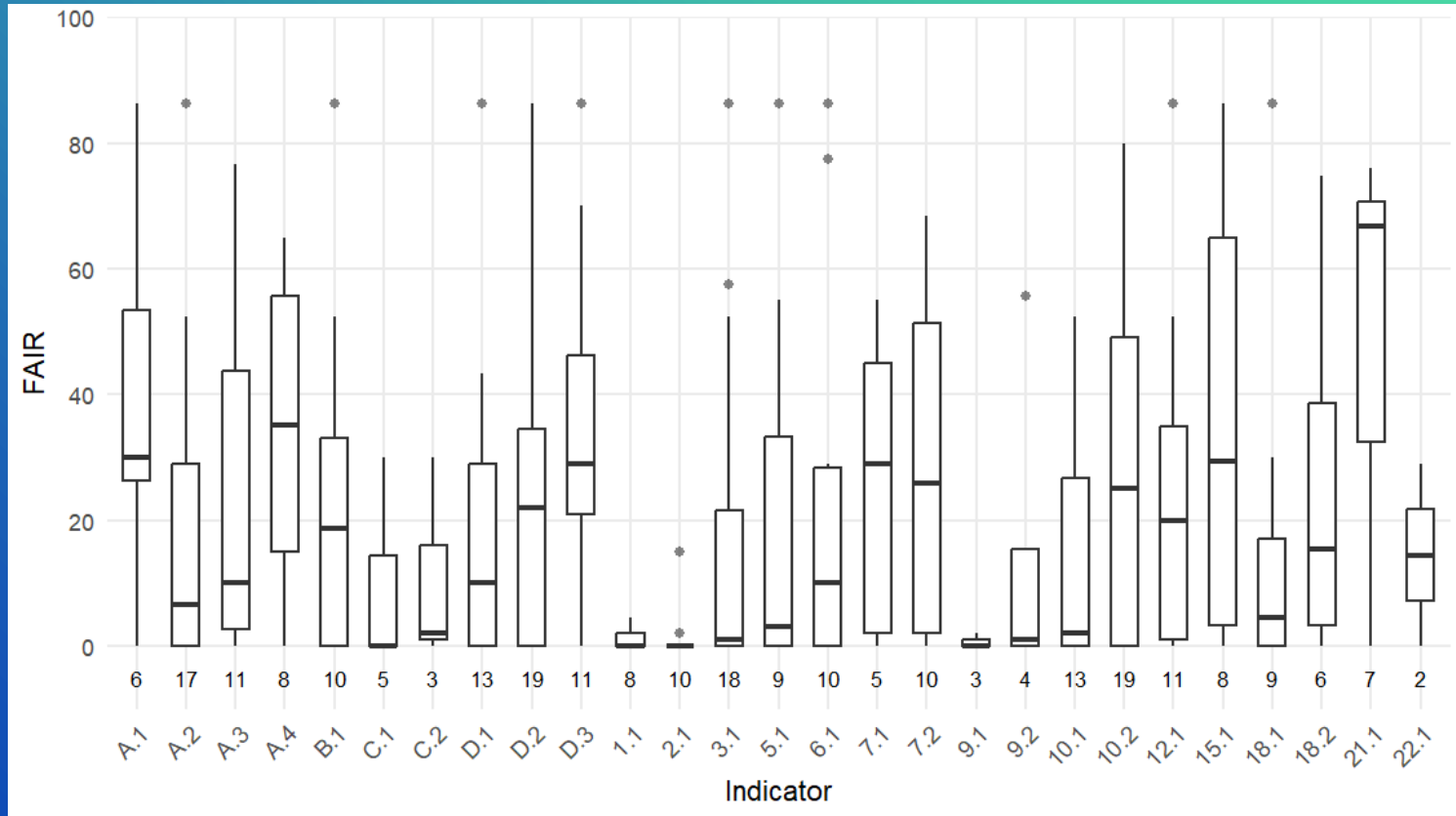
- EU and associated countries
- FAIR analysis of workflow & underlying data
- Adapted from self-assessment tools for FAIR data (e.g. <https://ardc.edu.au/resource/fair-data-self-assessment-tool/>)

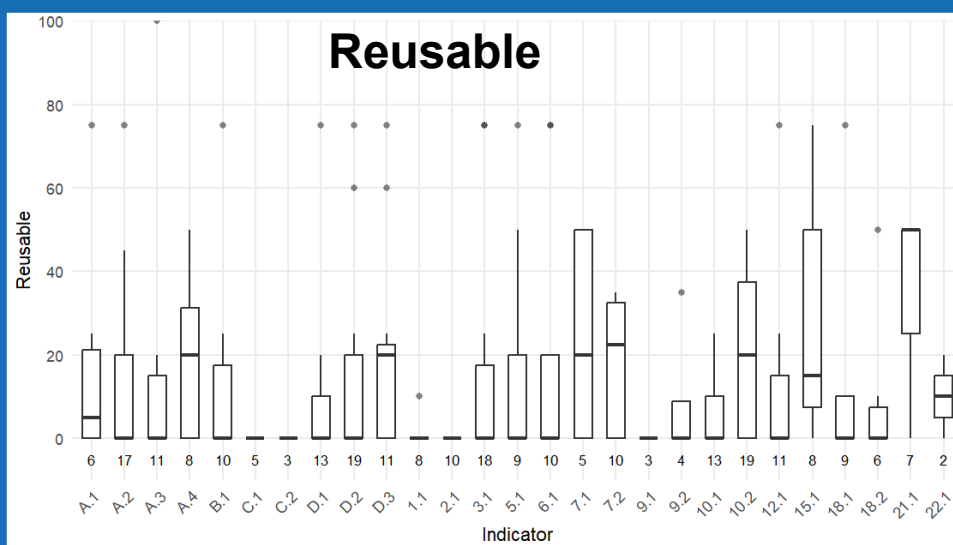
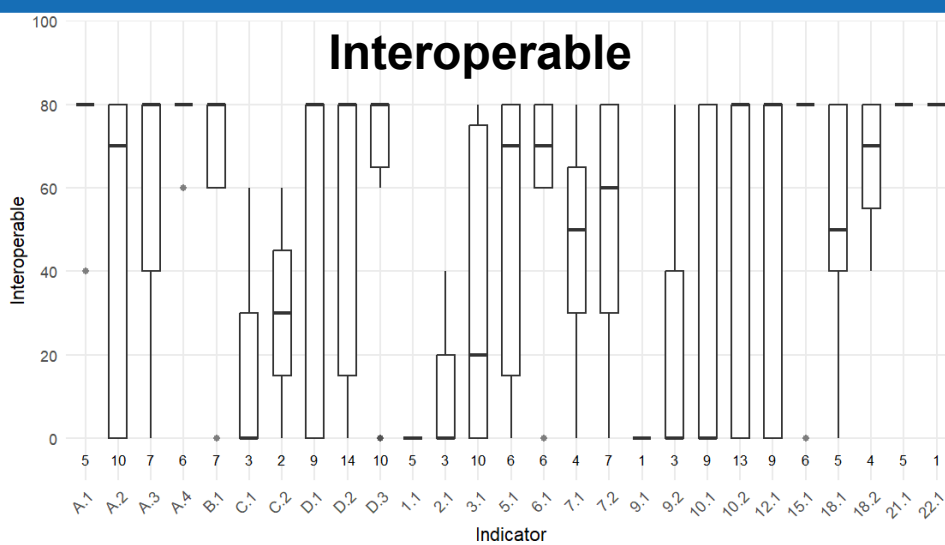
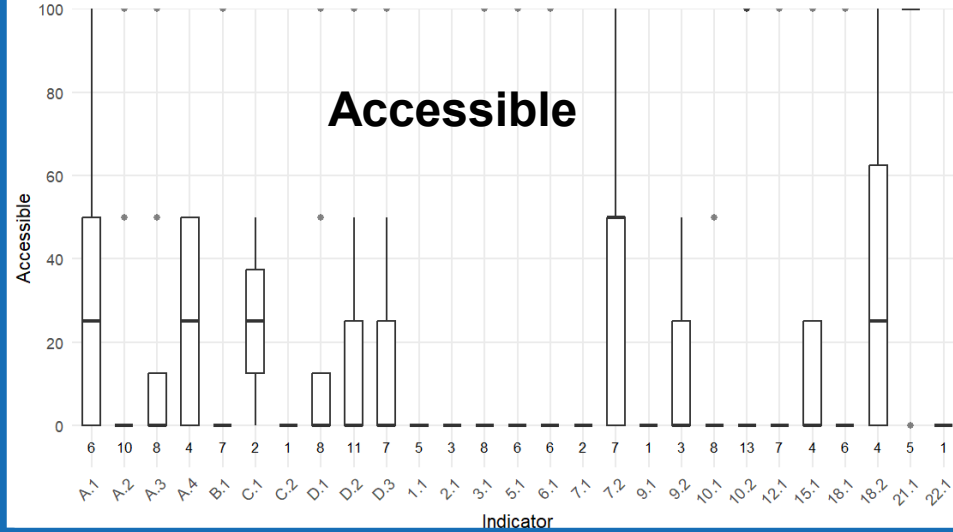
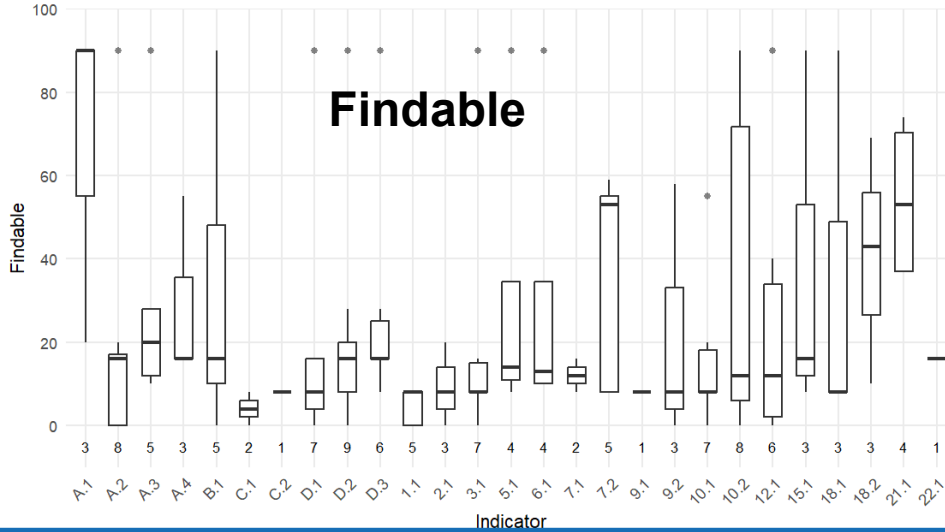
Objective

Identify potential and ways forward for:

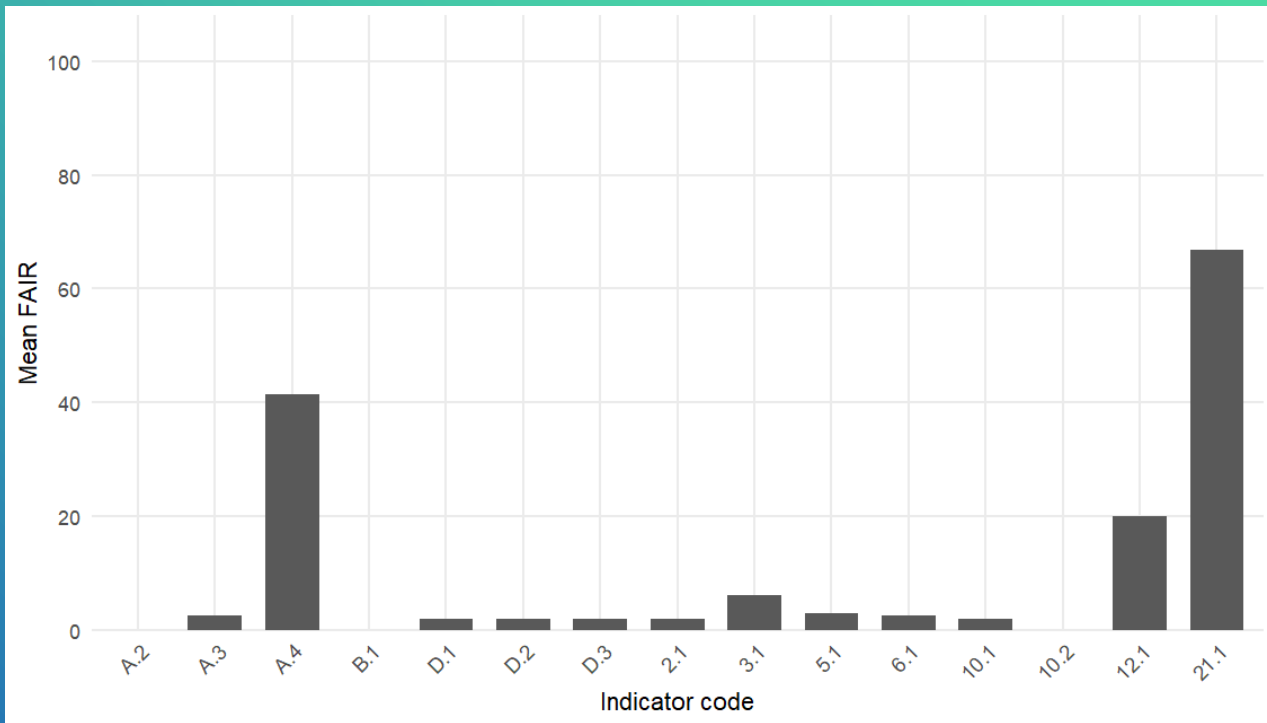
1. **Capacity building/sharing**
2. **More effective, accountable, repeatable and comparable reporting**

FAIR per indicator

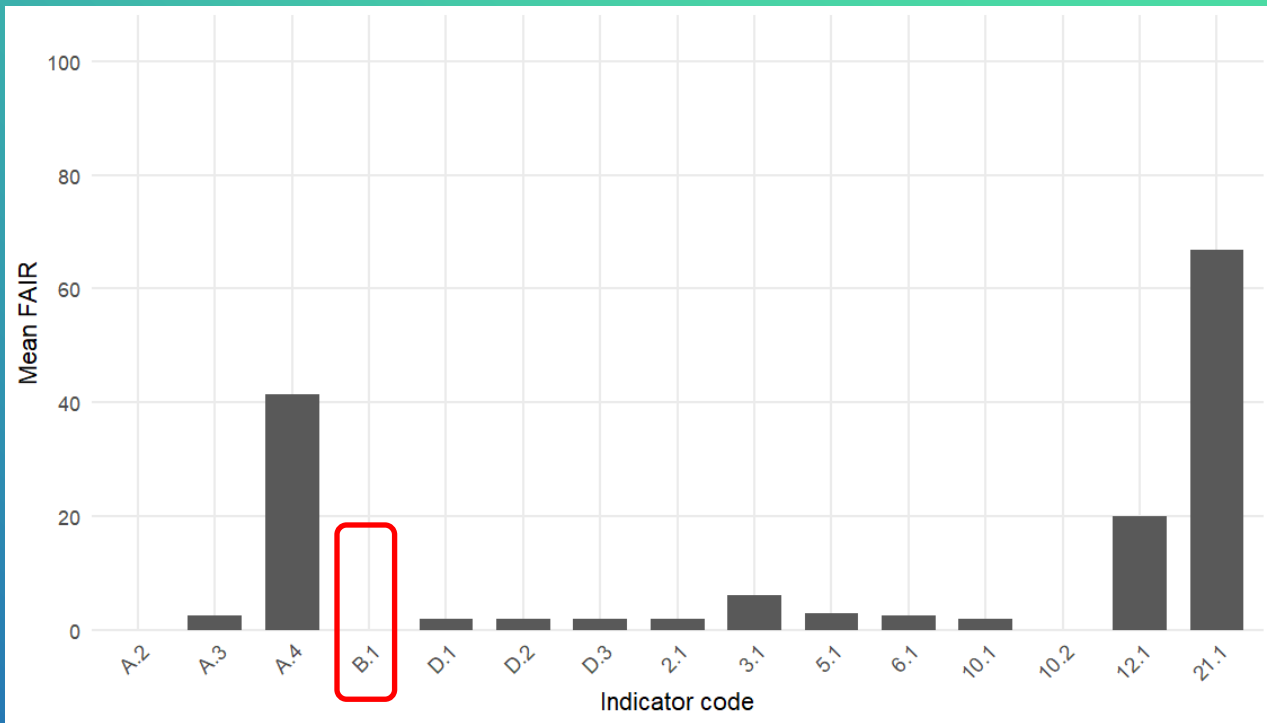




Party results



Party results



Example B1

Source of Data

Use national data set

Data

[Download](#) ↓

Has disaggregation	Disaggregation type	Disaggregation	Year	Unit	Value	Footnote
No			2023	Index	98.4	Total Services provided by ecosystems (index (2013 = 100))
No			2022	Index	99	Total Services provided by ecosystems (index (2013 = 100))
No			2021	Index	102.5	Total Services provided by ecosystems

Example B1

B.1 Services provided by ecosystems

Headline GBF-INDICATOR-B1

Source of Data

Use national data set

Data

[Download](#) ↓

Has disaggregation	Disaggregation type	Disaggregation	Year	Unit	Value	Footnote
No			2023	Index	98.4	Total Services provided by ecosystems (index (2013 = 100))
No			2022	Index	99	Total Services provided by ecosystems (index (2013 = 100))
No			2021	Index	102.5	Total Services provided by ecosystems

- × No further comments on methodology
- × No further comments on data sources

Example B1

- Difficult to compare and repeat
- No capacity sharing potential

B.1 Services provided by ecosystems

Headline GBF-INDICATOR-B1

Source of Data

Use national data set

Data

[Download](#) ↓

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- × No further comments on methodology
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Party results



Party results



Example B1

Data

[Download](#) ↓

Has disaggregation	Disaggregation type	Disaggregation	Year	Unit	Value
No			2022	Geometric mean of the proportional change in service values relative to a baseline value of 1 in 2014	1.12
Yes	4-country measure	England, Overall	2022	Geometric mean of the proportional change in service values relative to a baseline	1.16

Example B1

Data

[Download](#) ↓

Has disaggregation	Disaggregation type	Disaggregation	Year	Unit	Value
No			2022	Geometric mean of the proportional change in service values relative to a baseline value of 1 in 2014	1.12
Yes	4-country measure	England, Overall	2022	Geometric mean of the proportional change in service values relative to a baseline	1.16

Data for this indicator can be found in the [published datafile](#).

Source: [UK Biodiversity Indicator – Services provided by ecosystems](#)

Example B1

- Comparable and repeatable
- High capacity sharing potential

Data

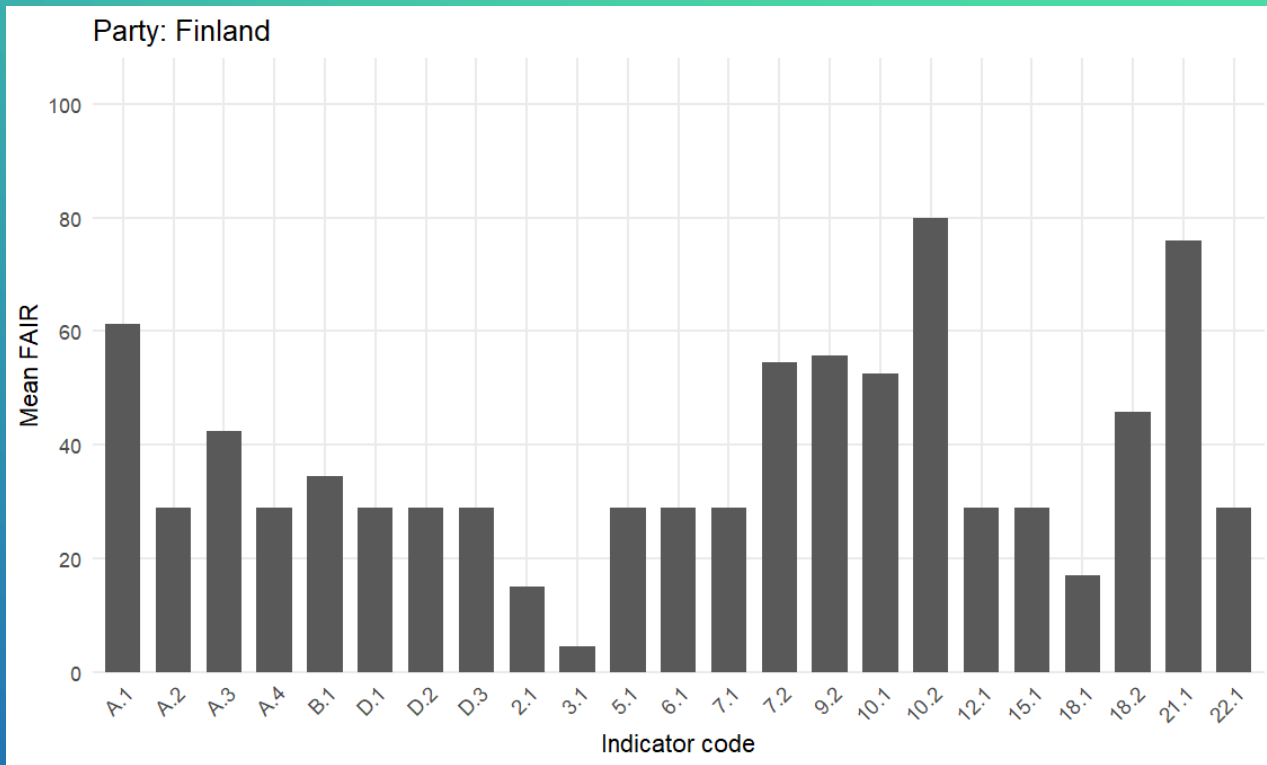
[Download](#) ↓

Has disaggregation	Disaggregation type	Disaggregation	Year	Unit	Value
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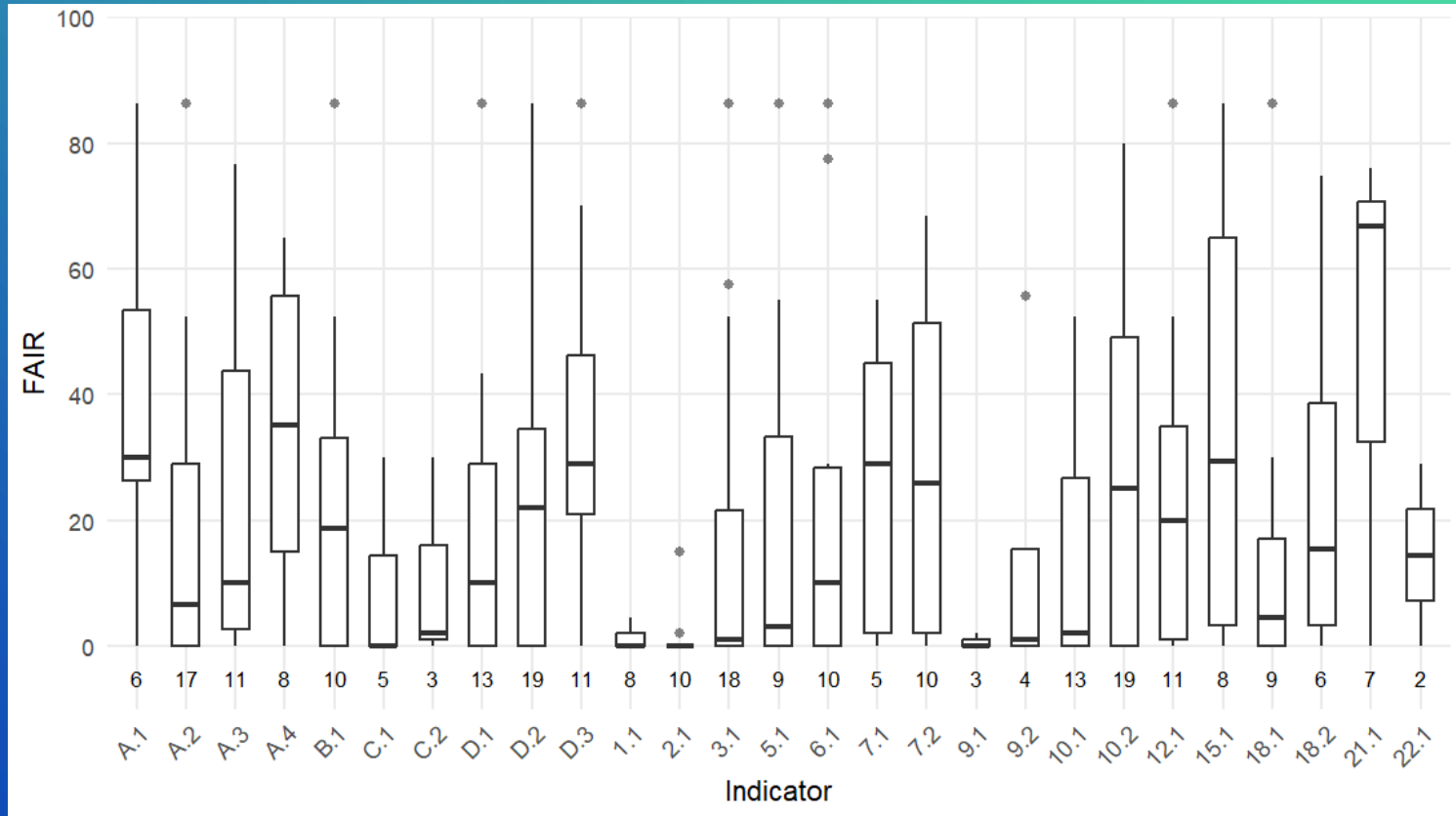
Source: [UK Biodiversity Indicator – Services provided by ecosystems](#)

Party results

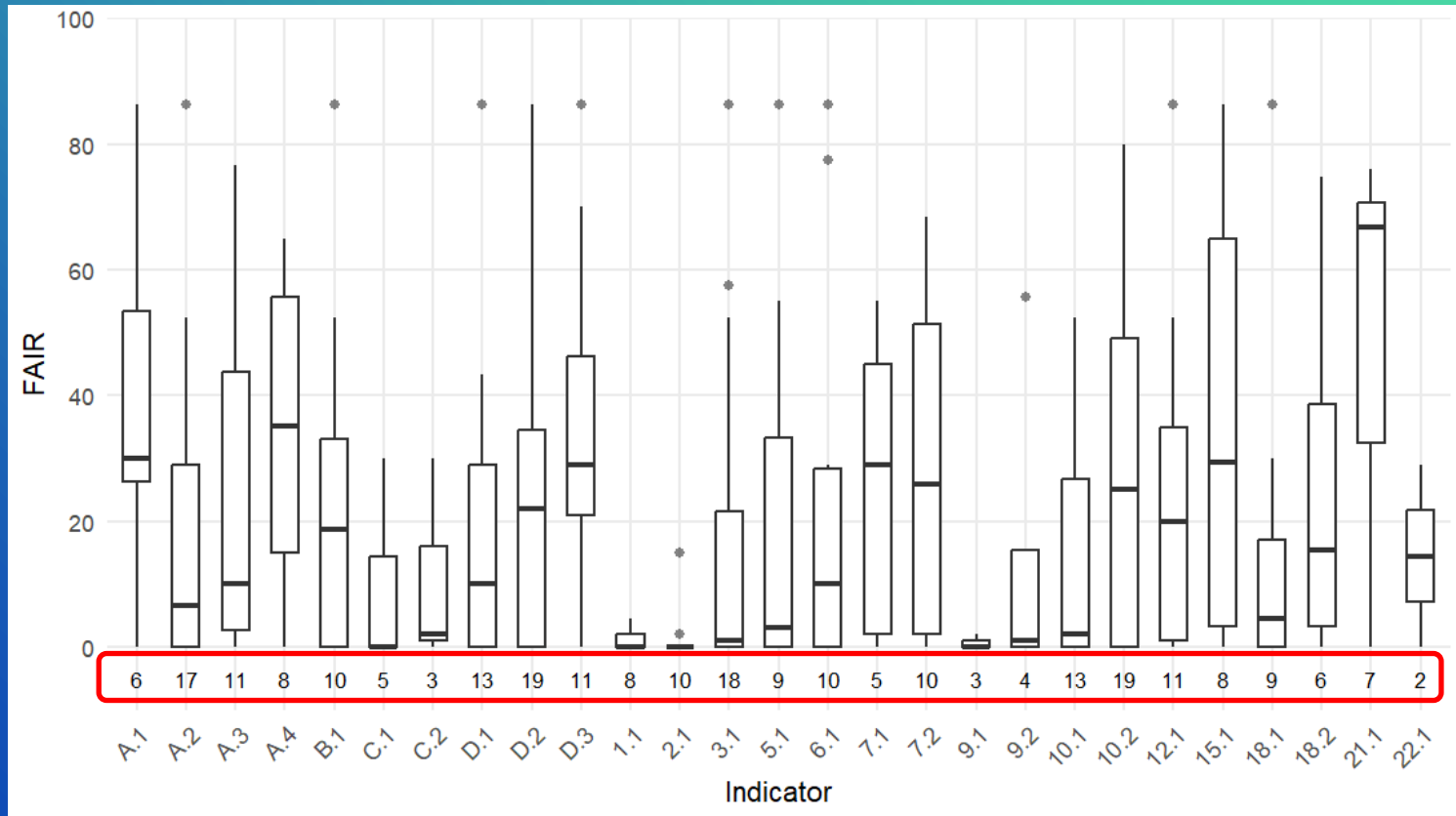


- We know that workflows and underlying data are accessible (insider information)
- **Potential for FAIR is there**, it has just not been reported that way

Is FAIR so important to fix?



Is FAIR so important to fix?



parties reporting the indicator

Difficult to fix?

Increase Findability

Increase Accessibility

Increase Interoperability

Increase Reuseability

- Report identifiers for workflow and underlying data (preferably DOI, repository, web-address)
- Make workflow and data (if not nationally sensitive data) accessible... and communicate that!
- Use formats, vocabularies and language that makes it possible to apply your indicator work (English, add code if applicable)
- Tell if and how your indicator work can be re-used (licences) and add information on the origin of the work

Improvement towards the 8thNR (& other CBD reporting) ???



Go **FAIR** to support:

- Global capacity sharing
- Comparability
- Repeatability

Thank you for your attention!



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