

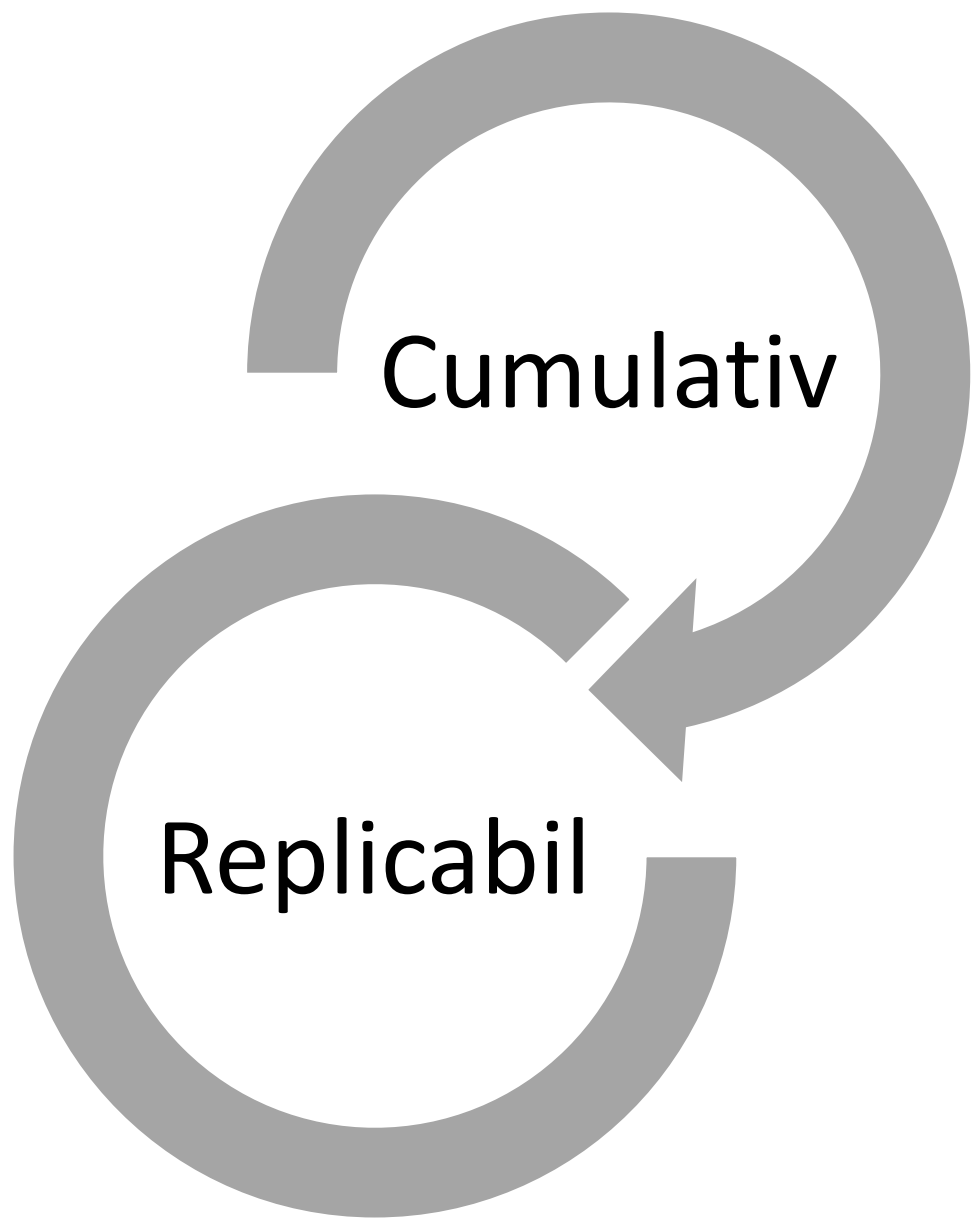
De la date deschise la date interoperabile și reutilizabile.

În ce măsură putem aplica în știința psihologiei abordări de standardizare a managementului datelor?

**Andrei Rusu**

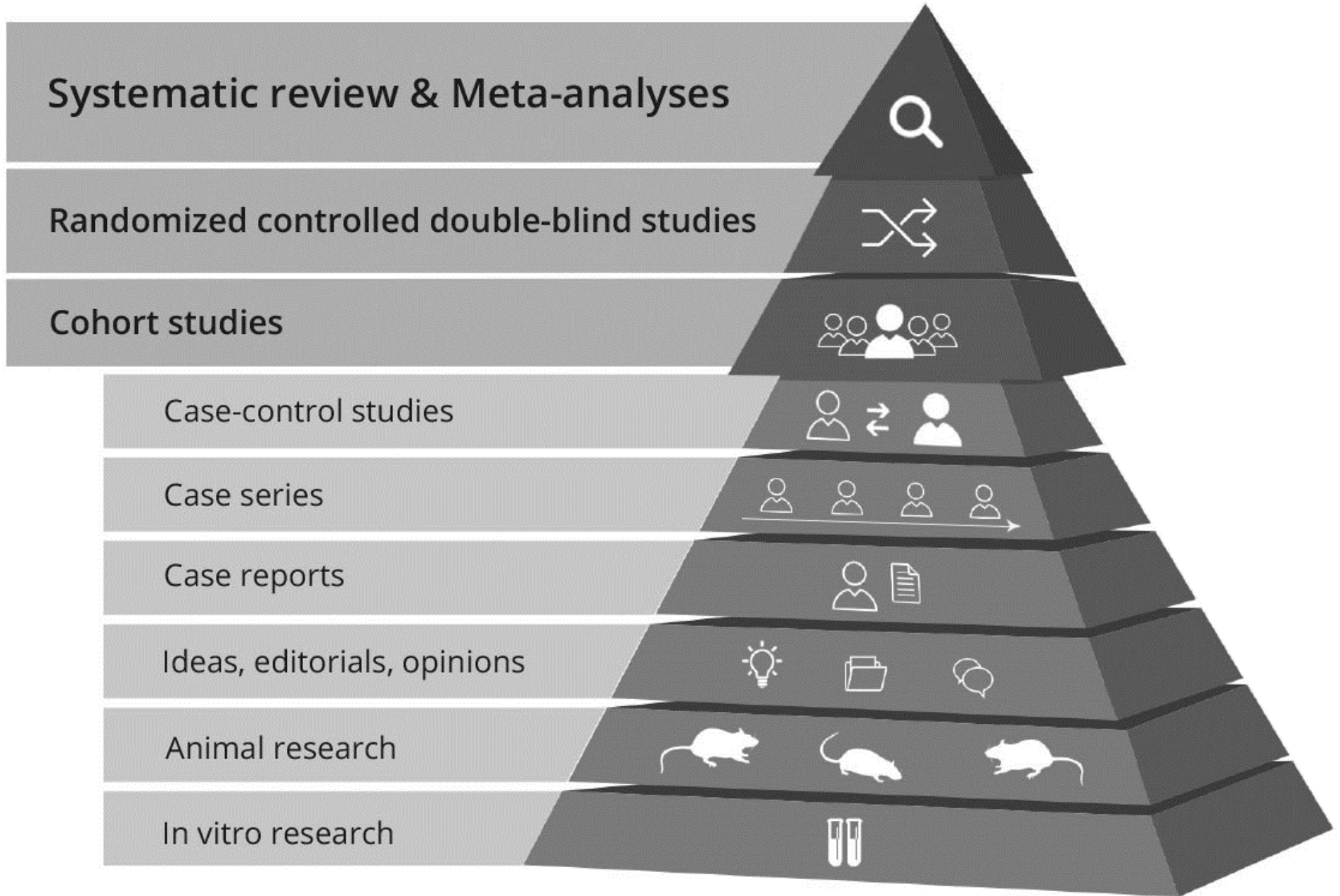
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Cumulativ

Replicabil



## **Replicabil**

-

studii replică (conceptuale)

## **Reproductibil**

—

peer-review al  
datelor/analizelor

Dovezi  
acumulate  
incremental



Dovezi  
replicate

Teorii /  
instrumente  
robuste (de  
încredere)

Cum putem accelera *acumularea* de  
dovezi *replicabile* și *replicate*?







Este suficient ca datele să fie *deschise* (când este și etic posibil)?

# Cât de „deschise” sunt datele *deschise*?

- Încărcate pe un registru public stabil și identificabile (e.g., *OSF + DOI*)?
- Fișiere denumite intuitiv?
- Fișiere în formate accesibile (e.g., *.csv*)?
- Seturile de date însoțite de metadate clare (*codebooks*)?

Înainte de toate, datele ar trebui să fie (ușor)  
*utilizabile.*

- Disponibile / Accesibile
- Interoperabile
- Reutilizabile
- Agregabile

## FINDABLE

Unique identifiers and metadata are used to allow data to be located quickly and efficiently



## ACCESSIBLE

Data is open, free and universally available for research discovery efforts



## INTER-OPERABLE

A common programming language is used to allow use in a broad range of applications



## REUSABLE

All data is clearly described and outlines associated data-use standards





# FAIR Principles

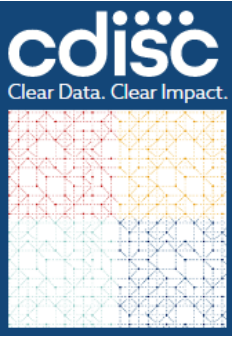
# ~ FIP mini-questionnaire ~

## Build your FAIR Implementation Profile

Community description	
Name of Community	<i>e.g. ENVRI</i>
Description of Community	
Supporting Links	
Research Domain	<i>e.g. Environmental Sciences</i>
Data Steward	<i>e.g. ORCID #</i>
Date of FIP creation	

FAIR principle	Question	FAIR enabling resource types	Your answers
<b>F1</b>	What globally unique, persistent, resolvable identifiers do you use for metadata records?	Identifier type	<i>e.g. PURL, DOI</i>
<b>F1</b>	What globally unique, persistent, resolvable identifiers do you use for datasets?	Identifier type	
<b>F2</b>	Which metadata schemas do you use for findability?	Metadata schema	
<b>F3</b>	What is the technology that links the persistent identifiers of your data to the metadata description?	Metadata-Data linking mechanism	
<b>F4</b>	In which search engines are your metadata records indexed?	Search engines	
<b>F4</b>	In which search engines are your datasets indexed?	Search engines	
<b>A1.1</b>	Which standardized communication protocol do you use for metadata records?	Communication protocol	
<b>A1.1</b>	Which standardized communication protocol do you use for datasets?	Communication protocol	
<b>A1.2</b>	Which authentication & authorisation technique do you use for metadata records?	Authentication & authorisation technique	
<b>A1.2</b>	Which authentication & authorisation technique do you use for datasets?	Authentication & authorisation technique	
<b>A2</b>	Which metadata longevity plan do you use?	Metadata longevity	
<b>I1</b>	Which knowledge representation languages (allowing machine interoperation) do you use for metadata records?	Knowledge representation language	
<b>I1</b>	Which knowledge representation languages (allowing machine interoperation) do you use for datasets?	Knowledge representation language	
<b>I2</b>	Which structured vocabularies do you use to annotate your metadata records?	Structured vocabularies	
<b>I2</b>	Which structured vocabularies do you use to encode your datasets?	Structured vocabularies	
<b>I3</b>	Which models, schema(s) do you use for your metadata records?	Metadata schema	
<b>I3</b>	Which models, schema(s) do you use for your datasets?	Data schema	
<b>R1.1</b>	Which usage license do you use for your metadata records?	Data usage license	
<b>R1.1</b>	Which usage license do you use for your datasets?	Data usage license	
<b>R1.2</b>	Which metadata schemas do you use for describing the provenance of your metadata records?	Provenance model	
<b>R1.2</b>	Which metadata schemas do you use for describing the provenance of your datasets?	Provenance model	

FAIR  $\neq$  OPEN



Putem face datele și *mai utilizabile* prin standardizarea lor.

Spre exemplu, în domeniul medical există *FDA's Data Standards Catalog*

*SDTM (Study Data Tabulation Model)* – “standard for organizing and formatting data to streamline processes in collection, management, analysis and reporting (...) data aggregation and warehousing; fosters mining and reuse; facilitates sharing and data review activities.”



## Making it easy for humans to make metadata for machines



Machine-actionable metadata are core to the FAIR Principles. GO FAIR and RDA members have launched the “Metadata for Machines” workshop series (M4M) to assess the state of metadata practices in data-related communities and stimulate the creation and re-use of FAIR metadata standards and machine-ready metadata templates (definitions of metadata categories).

Până unde putem merge cu datele din știința psihologie?