

## IASSIST 2022: Data Documentation and Reproducibility (*Room G3*)

The CESSDA Data Archives **joint efforts** to support journals in data sharing and reproducibility

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# Context and structure of the panel

Round table style in 2 rounds

- **Introduction** (this)
- **Round I:** Country by country description of **Background & Present situation**
  - 10 minutes Q&A for clarifications
- **Round II: Addressing Challenges & Priorities**
  - 10 minutes Q&A
- **Final discussion with the audience:** Future directions & Joint activities (inside and outside of the CESSDA community)

# CESSDA JO - Journals Outreach project partners

- [CROSSDA](#), Croatia: *Marijana Glavica, Irena Kranjec*
- [FSD](#), Finland: *Helena Laaksonen*
- [GESIS](#), Germany: *Serafeim Alvanides (Leading partner)*
- [EKKE/So.Da.Net](#), Greece: *Dimitra Kondyli, Nikolas Klironomos, Apostolos Linardis*
- [TARKI](#), Hungary: *Béla Janky, Peter Hegedűs*
- [DCS](#), Serbia: *Jelena Banovic*
- [ADP](#), Slovenia: *Sonja Bezjak, Janez Štebe*
- [SND](#), Sweden: *Ilze Lace*
- [FORS](#), Switzerland: *Brian Kleiner, Emilie Morgan de Paula*

# CESSDA JO – Phase 1 (2020)

## Assessing

- Needs of the Journals (interviews with editors, discussions at organised events ,...)
- Capacities of CESSDA SP's to address the needs (*structured information collected among SP's followed by the focus group discussion*)

## Preliminary findings

- CESSDA SP's available and willing to fulfil most of the requirements the Journals editors and authors (*standard services of data acquisition, data submission quality review, flexible access options, depositors' support,...*)
- Established tradition of promoting data citation related to publications
- New services introduced, adapted to the specific Journals needs

# CESSDA JO – Phase 2 (2021 - 22)

## Aims

- Continued exchange of experiences among SP's in JO

## Main activities

- Meetings, webinars, conferences organised with different audiences (*Representatives of Journals & service providers*);
- Chapter about reproducibility support services in DAG (*CESSDA Data Archiving Guide*)
- National pilots conducted by contributing partners, started by recognising diversity of situations in national setting

# Phase 2 Results

## Training event and pilots (2021-22)

2021/11: Workshop “making social science research transparent” (online)

2022/06: Reporting on six case studies from SPs

2022/08: Chapter for CESSDA “Data Archive Guide”

## Final event (2022)

2022 (*Autumn*) Conference for social science journal publishers and SP representatives (online)

...and presentation of Guidelines on social science journals data sharing policy

## Additional Outreach and Supporting activities (2021-22)

Promoting SP expertise to national/international publishers

Journals Outreach website <https://cessdajournalsoutreach.github.io>

...migrating to <https://www.cessda.eu/Training/Journals-outreach>

Mailing list for discussion/support: [data4journals@journals-data.cessda.eu](mailto:data4journals@journals-data.cessda.eu)


<https://journals-data.cessda.eu/cgi-bin/mailman/listinfo/data4journals>

2022: CESSDA reports on outreach and supporting activities

# Round I: Background & Present



# CROSSDA (Croatia): Past

- The majority of Croatian national scientific journals are Open Access; available on  [Portal of Croatian scientific and professional journals](#)
- Non existent data sharing policies
  - In some journals, data should be available upon request for review, or upon request from other researchers
  - Some journals are mentioning reproducibility or verification
- Rising awareness - conference presentation of analysis of journal data policies ([Pubmet2019](#))
- Interviews with journal editors - as part of CESSDA Journal Outreach activities in 2020
  - three major social science journals published by national professional organisations



· CROSSDA



# CROSSDA: Present

- Croatian Sociological Review [Revija za sociologiju] introduced the first Open Science policy
  - data sharing is encouraged but not obligatory
  - not yet formally formulated in instructions for authors and reviewers - just described in the editorial article ([Looking Ahead: Fast-Track Research Notes and Open Science Policy](#))
- Webinar for members of the [Croatian Association for Scholarly Communication](#) (CROASC) in preparation (5 July 2022)



· CROSDA

# FSD (Finland): Background

- FSD has not build a separate service for actual replication data/or for reproducibility support.
- Reuse conditions require citing archival data, and there are instructions how-to: <https://www.fsd.tuni.fi/en/data/downloading-and-using-data/citing-data/>
- All data descriptions include a Suggested citation, e.g.:  
Statistics Finland & Prime Minister's Office: Citizens' Pulse 3/2022 [dataset].  
Version 1.0 (2022-04-01). Finnish Social Science Data Archive [distributor].  
<http://urn.fi/urn:nbn:fi:fsd:T-FSD3656>
- Metadata includes methodological information
- Syntax or other 'analysis related' material is not normally provided
- No earlier campaigns with journals



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# FSD: Present

- after desk research: contacted 9 SSH journals; further interview/email information gathering from 4 of them.
- agreed: the journals will add examples of data citation to the instructions to writers; some will consider, if they add recommendation for archiving
- national journals in Finnish (or Swedish) are often made with minimal financial support; the writers have more incitament to publish in English in high impact journals than in the national publications -> the editors are not keen to demand from the writers anything else but high quality research articles
- they do not think that a possibility to reproduce the analysis is relevant in SSH research; particularly qualitative research analysis is seen as a unique product of a person, and reproduction is impossible.



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# GESIS (Germany): Background

- Initiative Replikationsserver.de launched 2015
- Cooperation between GESIS and two journals: [Zeitschrift für Soziologie](#) (*Journal of Sociology*) and [Soziale Welt](#)
- Preceded by collaborative development of policies, (user) guidelines, workflows
- Currently three active journals
- up to May 2022: 57 replication packages linked to articles (data, code, supplements)
- *Three more journals interested or in the process of implementation*

GESIS provides technical infrastructure for upload and publication of data, incl. basic data curation and preservation measures.

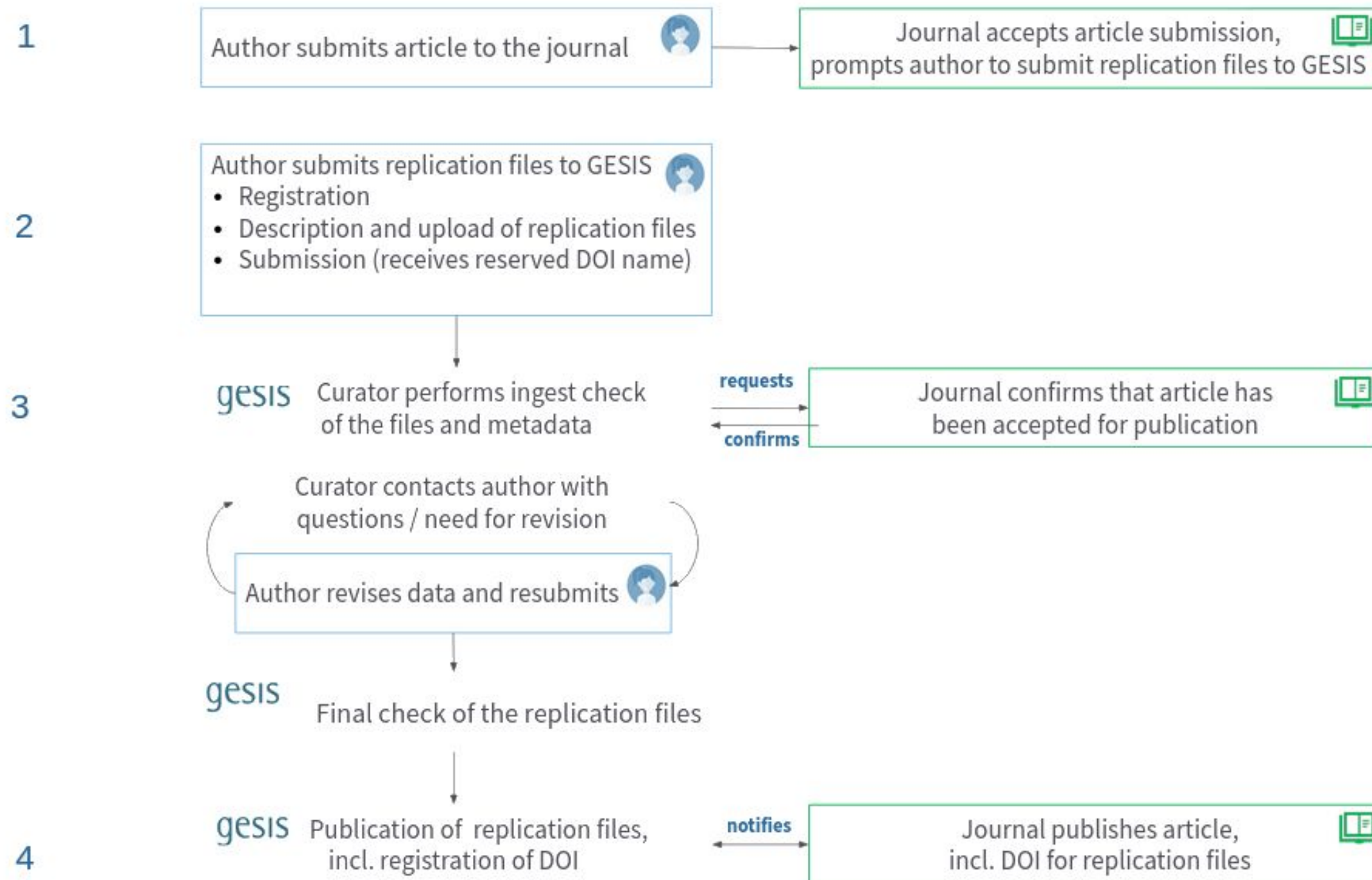
Information on the initiative: <https://www.gesis.org/en/replikationsserver/home>

Data upload and access: <https://data.gesis.org/sharing/>



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Leibniz Institute  
for the Social Sciences

# GESIS: Workflow for Journals





# EKKE/SoDaNet (Greece): Present

## EKKE's Repository/SoDaNet

For the last two years, a number of contacts have been made with Greek social science journals and publishers in order to make them aware of the importance of linking research data of submitted articles with the SoDaNet- EKKE's Repository.

Outcomes: Replicated data have been deposited to SoDaNet' Repositories based on four case studies. The articles have been published in three peer- reviewed social science journals and one collective volume published by a Greek publisher.



# EKKE/So.Da.Net: Cooperations



SCIENCE AND SOCIETY  
Journal of Political and Moral Theory



1. The first Journal is the "Greek Review of Social Research".
2. The second one is the peer-reviewed journal "Science and Society: Journal of Political and Moral Theory",
3. The third one is the peer-reviewed journal call "Krisi/Krissi", and it's a biannual scientific review.
4. The article in the collective volume called "Values, cultural norms & social orientations in modern Greece" Gutenberg publications



# ADP (Slovenia): Past - How it started?

## ADP's initiative

- 2017 1st meeting with the editors
- 2018 RDA Node Slovenia - pilot for journals →  
ŠTEBE, Janez; BEZJAK, Sonja; DOLINAR, Maja. 2020. *Guidelines for the implementation of scientific publishing policies of research data citation in scientific publications and assuring access to primary data, used in publications.* [[e-publication](#)]
- 2019-2020 Implementation of open data policy with 2 journals:  
Socialno delo (eng. [Social Work Journal](#)) & [CEPAR](#) - Central European Public Administration Review
- 2020  
Štebe, J., Dolinar, M., Bezjak, S. and Inkret, A., 2020. *Implementing the RDA Research Data Policy Framework in Slovenian Scientific Journals.* *Data Science Journal*, 19(1), p.49.  
<http://doi.org/10.5334/dsj-2020-049>.





# ADP: Past - Open Data Policies for Journals

*Guidelines for the implementation of scientific publishing policies of research data citation in scientific publications and assuring access to primary data, used in publications.*

[\[e-publication\]](#)

## Topics

- What are research data
- Exemptions for data sharing in open access mode
- Embargo
- Where and how to publish data
- Citing data sources
- Licences and other restrictions on access
- Support for authors



# FORS (Switzerland): Past

## FORS journals outreach

- Few journals in the social sciences in Switzerland that require data sharing
- At most there are some with «data availability statements»
- The Swiss National Science Foundation introduced in 2017 a data sharing policy for *data linked to articles* only – but there was no national infrastructure available



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# FORS: Present

Development of new replication service at FORS – «SUBreplica»

- For the social sciences in Switzerland, separate from archive service
- Web-based, simple workflow
- For deposit of replication materials linked to publications

New pilot collaborations with several Swiss social science journals

- Agreements that authors are directed to FORS for sharing replication materials
- Assessment of journal needs
- Adjustments to tool and services



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# Round II: Addressing challenges & Priorities

# CROSSDA: Challenges

- Small journals are afraid that they will lose submissions if they introduce data sharing as an obligation
- Lack of resources (human, financial, time)
- Lack of skills, support needed for authors
- Diverse epistemological approaches, e.g. qualitative research

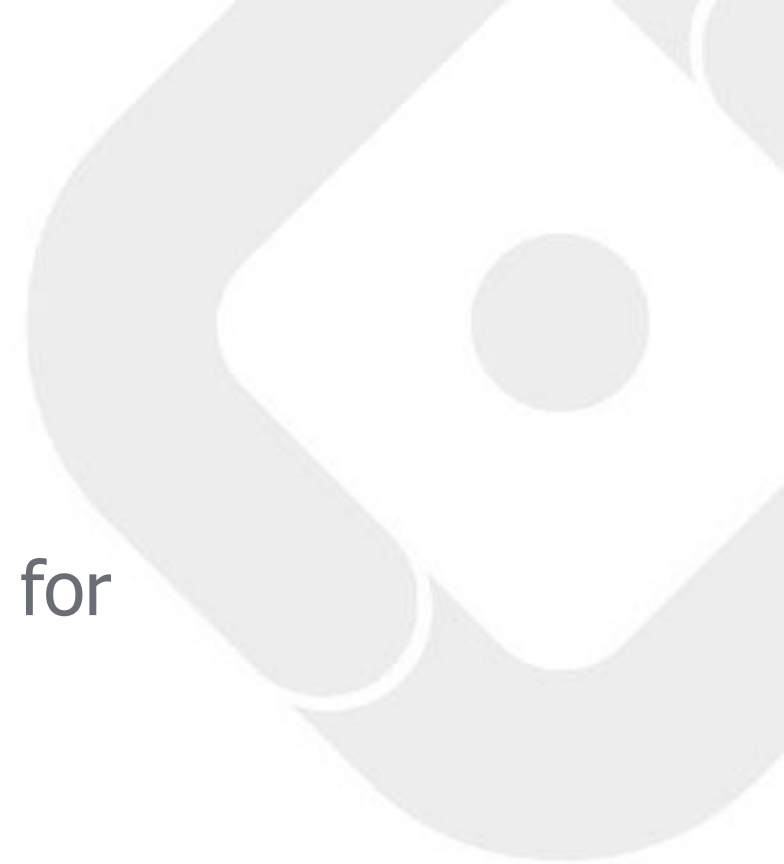
*".. taking into consideration the specificities of diverse epistemological approaches, the Croatian Sociological Review will encourage data sharing, especially for approaches where it is particularly appropriate. Still, we will not insist on this practice, as data sharing is not always possible, and in some cases, it is indeed inappropriate, due to epistemological and ethical considerations."*



· CROSSDA

# CROSSDA: Future Plans

- Continue cooperation with Croatian Sociological Review - develop instructions for authors based on policies introduced in editorial article
- Continue cooperation with other national journals
- Website content - publish guidelines for journals for creating data policies
- Support in policy implementation - offer services (support for authors) and repository to upload data



· **CROSSDA**

# FSD: Future plans

- FSD will promote data citation in cooperation with the journals (and other relevant actors)
- FSD will promote the existing data archiving service as a means to support **verification** (and limited reproducibility in some cases)
- FSD considers possibilities to support sharing of other type of materials (code, syntax, methods descriptions etc.) to increase transparency



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# FSD: Challenges & Advantages

- the archived data is anonymised, which as such may make actual reproduction impossible, but does not hinder verification, when made correctly with verification in mind
- FSD promotes resources which help researchers to share their data legally and FAIRly
- This approach catches two flies with one hit, but is more reuse oriented
- Challenges:
  - research culture
  - research funding insufficient to support all new ideas from open science activists



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# GESIS: Reflections

- 2016 onward: Mandatory submission of replication files to a repository for all manuscripts based on quantitative data with GESIS repository recommended
- 2019: Evaluation of publication practice<sup>1,2</sup>
  - Increasingly good compliance on behalf of authors
  - Data and/or code per article downloaded >8 times on average
  - No recognizable negative effect on submissions or journal impact
- 2022 (June): 39 published: 23 free access; 1 embargo; 15 restricted access
  - 15 with “restricted access” (our of 39 published): delays for replication
  - Articles include “Replication material” note with URL link to DOI of data



<sup>1</sup>Auspurg, Katrin & Jonas Recker, 2020: Mehr Offenheit in der Forschung? Eine Evaluation von Open Science Maßnahmen bei der Zeitschrift für Soziologie. Zeitschrift für Soziologie. 49(1): 1-9. <https://doi.org/10.1515/zfsoz-2020-0001>

<sup>2</sup>Auspurg, Katrin & Jonas Recker, 2020: Daten: Mehr Offenheit in der Forschung? Eine Evaluation von Open Science Maßnahmen bei der Zeitschrift für Soziologie. <https://doi.org/10.7802/1992>

# GESIS: Future developments

## Lessons

- Authors are motivated to publish well-documented data
- Mandates are more effective than recommendations

## Challenges

- Investment in resources (time and staff), esp. at the preparatory stages
  - Reaching consensus among editors, creating policies and guidelines, announcing new policies to authors may take several years
- Different policies: e.g. data available pre/post publication; restrictions etc.
- Competing with commercial / generic data publication platforms

## Plans for 2022-23

- Continue discussions with German journals in the social & economic sciences
- Explore optimal use of our platform's capabilities
  - e.g. embed a journal's data collection in the journal website communication and review workflows, etc.



# EKKE/So.Da.Net: Lessons Learned

## Looking to the future

- a) Change of attitudes towards systematic data sharing is needed,
- b) Journals and publishers' capacity in terms of economic or human resources and knowledge is more at stake.
- c) Promoting replication services can have an impact on the formulation of needs of our potential partners/users.
- d) Talks and consultations led our stakeholders to positively adopt "this new service"
- e) Open Science in the country can be seen as an opportune moment for SoDaNet to partner with journal editors and publishers to facilitate/improve data curation and publishing practices



# EKKE/So.Da.Net: Future

- The "[Greek Review of Social Research](#)" will be implementing one metadata field in the platform – user interface – in order to link articles with Repositories via DOI
- The "[Science and Society: Journal of Political and Moral Theory](#)": at the process of negotiating potential qualitative data replications with SoDaNet' Repositories
- Looking for possible funding sources at national level

## Shifting challenges to opportunities by

Ensuring continuity of such initiatives in the long run in the social science publishers' community in Greece.

Broadening and strengthening the networking with the publishers' milieu.



# ADP: Past & Present Challenges

Fears and barriers → conservative approach

- concern that the novelty might **bring additional unpaid burden**
- the new rules might **frighten potential contributors**
- **small** national journals **compete for articles with big** international journals with higher visibility and citations factors.

→ **Only recommendations on open data / no data publication so far**

Pilot within pilot → proactive approach

Javnost - the *Publics* journal asked authors to publish their data

→ **Authors were ready to collaborate and deposit data with ADP**



# ADP: Future Challenges

## Lessons learned from the pilot within pilot

- Small data / big effort
- how to adapt workflow and services: selection, curation...
- individual support for editorial boards and researchers provided

## Plans

- self-archiving planned at the ADP
- exchange of knowledge needed between service providers
- FAQ: data stewards & help desk





# FORS: Future

## Expansion of replication service, if warranted:

- Integration into FORS' archive platform «SWISSUbase»
- Improvement of the tool and service according to the specific needs of the different social science disciplines
- Development of additional related tools and services for journal editors and authors to meet the challenges of open science (e.g., pre-registration, pre-prints)

## Formalised collaborations with Swiss social science journals

- Support to authors
- Support to journal editors
- Expansion to other Swiss-based journals



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# Part 3: Discussion: From the national perspective to international activities







Thank you for your attention!

