Migrant children and communities in a transforming Europe (MICREATE) – hands-on RDM and DMP

University of Maribor Open Science Summer School, 13 September 2022

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Presentation outline

- brief presentation of our institution and myself

- brief presentation of the MiCREATE research project

- step-by-step RDM and DMP in MiCREATE:
  - preparations before the start of the project
  - Initial DMP
  - Ethical issues
  - DMP update
  - Data archiving
  - Reporting to EC
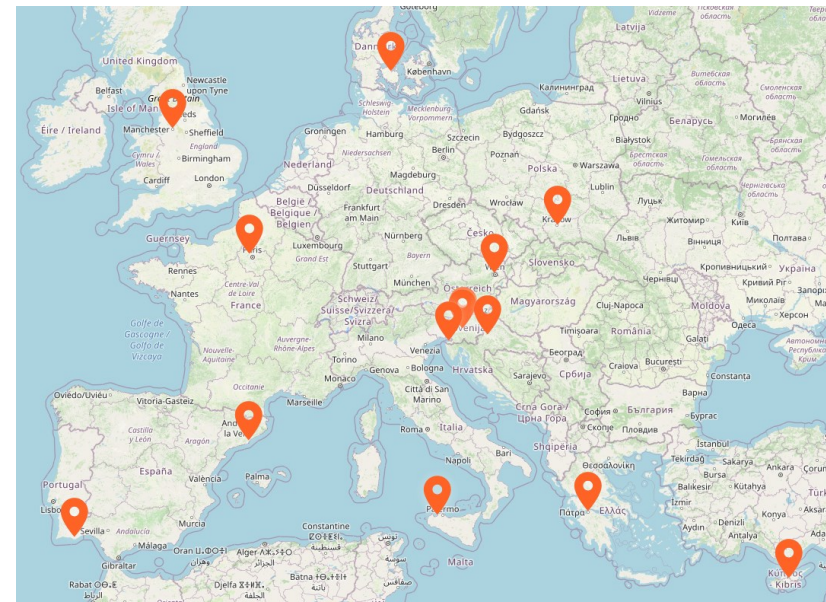
- lessons learned

Science and Research Centre Koper (ZRS Koper)

- public research institute
- 8 research groups (institutes - <u>humanities, social sciences, biotechnology, natural sciences</u>)
- 11 infrastructural units (laboratories, public opinion centre, publishing house, research library, etc.)
- national and international research programmes and projects
- https://www.zrs-kp.si
- my role:
  - ➢ Head of the Centre for IT and Infrastructural Support to Research
  - ➢ Head of the Research Library
  - ➢ Administrator and tech editor of online journal publishing
- my interest:
  - ➢ research data, metadata, catalogues

MiCREATE project

- MiCREATE – „Migrant Children and Communities in a Transforming Europe"

- Horizon 2020, SC6-CHANGING WORLD. Europe in a changing world – Inclusive, innovative and reflective societies.

- consortium of **15 project partners from 12 countries**

- lead partner ZRS Koper

- http://www.micreate.eu/

- 1. 1. 2019 until 30. 6. 2022

MiCREATE project

- to stimulate the inclusion of diverse groups of migrant children by adopting a <u>child-centred approach</u> to their integration at the educational and policy level

- MiCREATE part of „<u>Open Research Data Pilot</u>" (ORD)
  - ➢ „There are two main pillars to the Pilot: developing a Data Management Plan (DMP) and providing open access to research data, if possible."

- Data Management Plan (DMP) is an obligatory deliverable for ORD projects

- designated chapter of Grant Agreement „Open access to research data"

»The active phase of a research project comprises the generation or collection of data, its processing, and its analysis. If data is well managed during this phase then it can considerably simplify the job of preparing data for longer-term preservation and access after the end of a project, ...«

»Data storage is the one element that almost all researchers depend upon, ...«

WILSON, J.A.J.; (2017) THE RESEARCH DATA STORAGE SERVICE AT UCL – A LEARN CASE STUDY. IN: LEARN TOOLKIT OF BEST PRACTICE FOR RESEARCH DATA MANAGEMENT. (PP. 78-81). LEADERS ACTIVATING RESEARCH NETWORKS (LEARN)

CREATE

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MiCREATE - preparations before the start of the project

- Approved in summer 2018

  ➤ Several chapters of the later Grant Agreement had to be further elaborated (e.g. Management of Research Data, Ethics and Security, …)

  ➤ Appointment of Data Protection Officer (DPO)

- Grant Agreement with EC was signed on October 31st, 2018

- During all this time we maintained close contacts with colleagues from Slovene Social Sciences Research Data Archive (ADP)

- ADP staff right from the start suggested the use of CESSDA Data Management Expert Guide (DMEG)

- CESSDA DMEG turned out to be a very good tool in RDM and preparing the DMP as well as later providing open access to research data

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MiCREATE - preparations before the start of the project

- fieldwork in selected countries - mostly qualitative data (interviews, focus groups)

- Sensitive Data – highly vulnerable group (children / migrants)

- open access to research data and the balance between
„**As Open as Possible**" and „**As Closed as Necessary**"

![MiCREATE logo - Migrant Children and Communities in a Transforming Europe]

MiCREATE – until the ‚Initial DMP'

- In ORDP projects, one of the obligatory deliverables is the „Initial DMP" which is due until the end of the 6th month of the project

- it was necessary to start implementing some of the planed RDM tasks right away

- Kick-off meeting in January 2019

    ➢ Appointment of Data Protection Officer by the lead partner

    ➢ Presentation of plans regarding the DM

    ➢ Naming of the partners representatives in DMWG

    ➢ Presentation of DMPonline tool

    ➢ Naming of Ethical Board

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MiCREATE – until the ‚Initial DMP'

Data Protection Officer in MiCREATE

- Appart from the interest in the topic and attendance at events about the RDM, had no real experience in DMP

- the designated DPO does not come from the field of research of the project

⬇ insufficient knowledge of research methodology

⬆ closer cooperation with researchers is essential

⬆ is the obvious really so obvious?

MiCREATE - CESSDA

[CESSDA, Consortium of European Social Science Data Archives](#)

CESSDA provides large-scale, integrated and sustainable data services to the social sciences. It brings together social science data archives across Europe, with the aim of promoting the results of social science research and supporting national and international research and cooperation.

The CESSDA Strategy 2018-2022 [pillars](#):

1. Building on TRUST
2. Renown for TRAINING
3. Proficient in TECHNOLOGY
4. User-friendly TOOLS & SERVICES.

MiCREATE - CESSDA DMEG

CESSDA Data Management Expert Guide (https://www.cessda.eu/Training/Training-Resources/Library/Data-Management-Expert-Guide)

Data Management Expert Guide (DMEG)

The DMEG is designed by European experts to help social science researchers make their research data Findable, Accessible, Interoperable and Reusable (**FAIR**).

You will be guided by different European experts who are - on a daily basis - busy ensuring long-term access to valuable social science datasets, available for discovery and reuse at one of the CESSDA social science data archives.

You can download the full DMEG for your personal study offline (DOI: 10.5281/zenodo.3820473). PDFs for every single chapter are also available for being printed as handouts for training.

See also the pilot interactive game version of the guide!

CESSDA Training Team (2017 - 2022). *CESSDA Data Management Expert Guide.*
Bergen, Norway: CESSDA ERIC. Retrieved from https://dmeg.cessda.eu/

MiCREATE - CESSDA DMEG

CESSDA DMEG being a data management guide is well organised in itself

CESSDA Training Team (2017 - 2022). *CESSDA Data Management Expert Guide.*
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MiCREATE - CESSDA DMEG

CESSDA DMEG being a data management guide is well organised in itself

Data Management Expert Guide ⌄

1. Plan >
2. Organise & Document >
3. Process >
4. Store >
5. Protect >
6. Archive & Publish >
7. Discover >
8. Contributors >

- ‚real life' experts advice on most issues and a direct guide through DMP

- each chapter ends with ‚Adapt your DMP' and ‚Sources and further reading'

- large family of CESSDA members archives with experts eager to help out

- the amount of information can be intimidating but necessary

MiCREATE - CESSDA DMEG

Answers to important technical questions regarding the protection of personal data in ‚Security'

CESSDA Training Team (2017 - 2022). *CESSDA Data Management Expert Guide.*
Bergen, Norway: CESSDA ERIC. Retrieved from https://dmeg.cessda.eu/

MiCREATE - CESSDA DMEG

In all issues regarding ethics and data management, chapter 5 of the DMEG is of vital importance

- excellent point of reference when working in large project teams from various countries

- DMEG itself emphasises Diversity in data protection

CESSDA Training Team (2017 - 2022). *CESSDA Data Management Expert Guide.*
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MiCREATE - CESSDA DMEG

Data Management Expert Guide ⌄

1. Plan ⌄
   Benefits of data management
   Research data
   Data in the social sciences
   FAIR data
   European diversity
   Adapt your DMP: Part 1
   Sources and further reading
2. Organise & Document ›
3. Process ›
4. Store ›
5. Protect ›
6. Archive & Publish ›
7. Discover ›
8. Contributors ›

⊖ EU

EU funding institution	DMP requirements	DMP template?
Horizon2020	• **At grant submission** Projects that take part in the Horizon 2020 Open Research Data Pilot (default all H2020 projects) are required to produce a DMP as a deliverable within six months of the start of the project. The DMP should include information on: ○ the handling of research data during and after the end of the project ○ what data will be collected, processed and/or generated ○ which methodology and standards will be applied	Yes, via DMPOnline (Digital Curation Centre, 2017)

A tool that we used in creating and maintaining the DMP is also introduced through DMEG

CESSDA Training Team (2017 - 2022). *CESSDA Data Management Expert Guide.*
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MiCREATE - DMPonline

Online tool that helps to create, review, and share data management plans
(https://dmponline.dcc.ac.uk/)

MiCREATE - DMPonline

- based on the open source codebase

- developed by the Digital Curation Centre (DCC) and the University of California Curation Center (UC3)

- first version developed by the DCC and available in 2010

MiCREATE - DMPonline

Help menu at this level is more or less general about the RDMP. Targeted and extensive help is available once you sign in.

Sign in screen from which you enter the DMPonline

You have to create an account to be able to enter the DMPonline

You can choose between four languages. Not everything is translated to all the languages though.

Funder requirements – various DMP templates by research funding organisations and bodies or specific research programmes.

Public DMPs for anyone to inspect and perhaps use as a template.

MiCREATE – until the ‚Initial DMP'

At the end of month 6:

- Standard Ethical Protocol in which the longest chapter is 5. Data Protection and Privacy

- Folder structure, file naming and versioning convention

- Initial DMP

➢ Let's take a look

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| Project Details | Contributors | Plan overview | Initial DMP | Detailed DMP | Final review DMP | Share | Download |

expand all | collapse all   9/9 answered

1. Data summary (1 / 1)	+
2. FAIR data (4 / 4)	+
3. Allocation of resources (1 / 1)	+
4. Data security (1 / 1)	+
5. Ethical aspects (1 / 1)	+
6. Other (1 / 1)	+

MiCREATE – DMP update

- MiCREATE fieldwork should have started in 2020 and was postponed by COVID-19 pandemic

- Activities within DMWG

- Once the field work started it became clear some solutions suggested in initial DMP have to be reprogrammed. Above all:

  ➤ Anonymisation of transcriptions is limited and sometimes not possible at all
  ➤ Storing data in single deposit archive for all partners is not a good solution and would create several difficulties for both, partners creating and archiving data, as well as for the data archives

- MiCREATE Ethical Board decided it's up to each partner to decide, which data can be archived for FAIR reuse

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MiCREATE - DMP update and ethical issues

„As open as possible and as closed as necessary"

- ethical aspects of research data management within MiCREATE project were of utmost importance
- qualitative data result from interviewing particularly vulnerable group, namely migrant children and people surrounding or working with them
- Standard Ethical Protocol addresses general ethical principles and in more detail issues connected to ethical dimensions of specific research methodology
- collected qualitative data was inevitably sensitive and existed across all datasets
- children may not be aware of the risks that can arise from their disclosure of certain types of data and therefore might be sharing highly sensitive data.

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MiCREATE - Data archiving
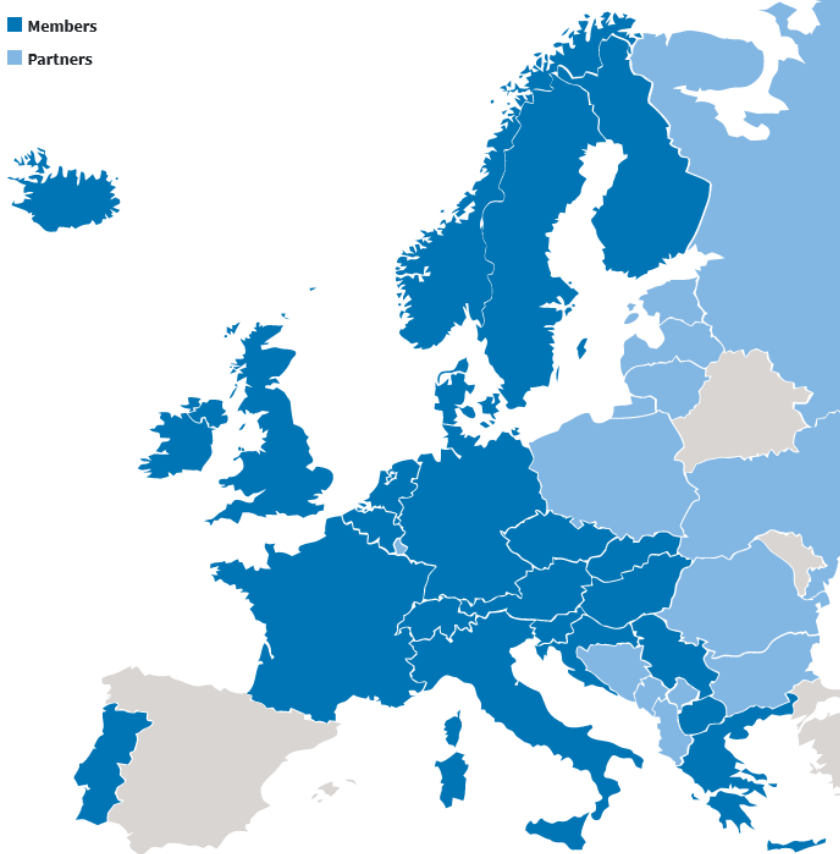

QUALITATIVE DATA

- **61** interviews with experts,
- **217** interviews with educational staff,
- **39** focus groups with educational staff,
- **4** focus groups with parents,
- **458** interviews with newly arrived, long-term and local children,
- **62** focus groups with newly arrived, long - term and local children,
- **136** interviews with migrant children in transition,
- **24** interviews with experts.

QUANTITATIVE DATA

- **2724** surveys with newly arrived, long-term and local children

MiCREATE - Data archiving

- MiCREATE partners were advised to deposit data at their national CESSDA data archive if such archive exists

  ➢ unfortunately map of CESSDA members doesn't overlap the map of MiCREATE partners

  ➢ partners that do not have national CESSDA member archives looked for options that satisfy the FAIR data storage principles

- several national archives have many advantages in comparison to single deposit archive for all (language, policy, communication, …)

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MiCREATE – Data archiving

other possibilities were consulted, always keeping in mind the respect for basic principles of the H2020 Program Guidelines on FAIR Data. In the end, data archives used for MiCREATE FAIR data archiving are:

- ADP - Social Science Data Archives (Slovenia)

- AUSSDA - The Austrian Social Science Data Archive (Austria)

- UK Data Service REShare (United Kingdom)

- CORA - Repositori de Dades de Recerca (Spain)

- RDS - Social Data Repository (Poland)

- Danish National Archives – DNA (Denmark)

- SODANET – EKKE (Greece)

- Huma-Num – NAKALA (France)

MiCREATE – Data archiving

Why do we put so much emphasis to CESSDA and its members data archives?

- 'the best in business'

- same standards, comparable metadata, referencing, PID, … in one word FAIR

- the most important for MiCREATE data > CESSDA member archives can handle highly sensitive data

- staff of CESSDA member archives will help you throughout all your RDM

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MiCREATE – Reporting to EC

Appart from the deliverables that the project partners commited to in the GA, final report includes:

- brief (!) explanation of the updates to DMP from the Initial DMP version

- list all the open datasets in designated form

MiCREATE – Reporting to EC

MiCREATE – Reporting to EC

MiCREATE – Lessons learned

- if possible it's better if DPO actively participates in the research
- the DPO needs to be very active in coordinating the DMWG
- ensure active participation of DMWG members in all RDM stages
- ensure that all project partners contact data archives that meet the criteria as soon as possible
- draw attention from the start to the often lengthy procedures involved in dealing with data in data archives
- the obvious is never really obvious!

THANK YOU

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