

In preparation to the workshop ..

Connect to network:

- SSID: WORKSHOP08
- Network key: databases

Go to <http://192.168.2.1/pack.zip>



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European **A**rchival **R**ecords and **K**nowledge Preservation

#earkproject

www.eark-project.eu

@EARKProject

Relational Database Preservation Standards and Tools

Marcel Büchler (Swiss Federal Archives), Luis Faria (Keep Solutions),
Kuldar Aas (National Archives of Estonia)

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Agenda

09:00 – 09:10	Short introduction (Kuldar Aas)
09:10 – 09:30	SIARD 2.0 (Marcel Büchler)
09:30 – 10:30	Hands-on: Database Preservation Toolkit (Luis Faria) and SIARD Suite (Marcel Büchler)
10:30 – 11:00	Coffee!
11:00 – 12:00	Hands-on: Database Visualisation Toolkit (Luis Faria) and SIARDexcerpt (Marcel Büchler)
12:00 – 12:30	Discussion and Q&A

** Workshop organised in collaboration by the E-ARK Project and the Swiss Federal Archives*



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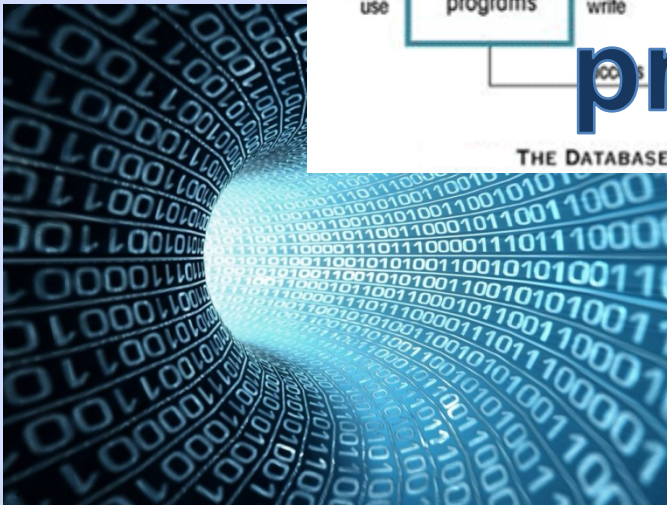
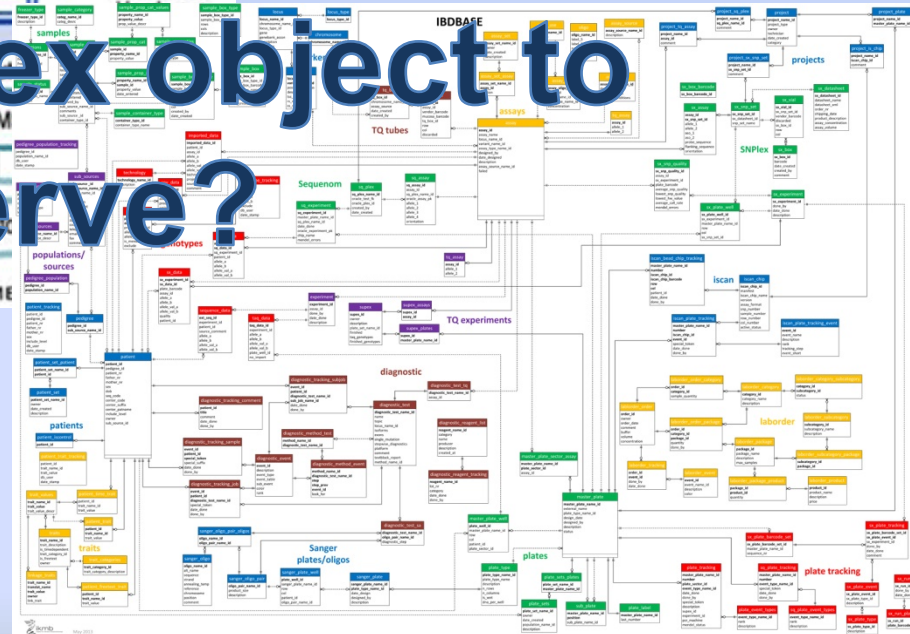
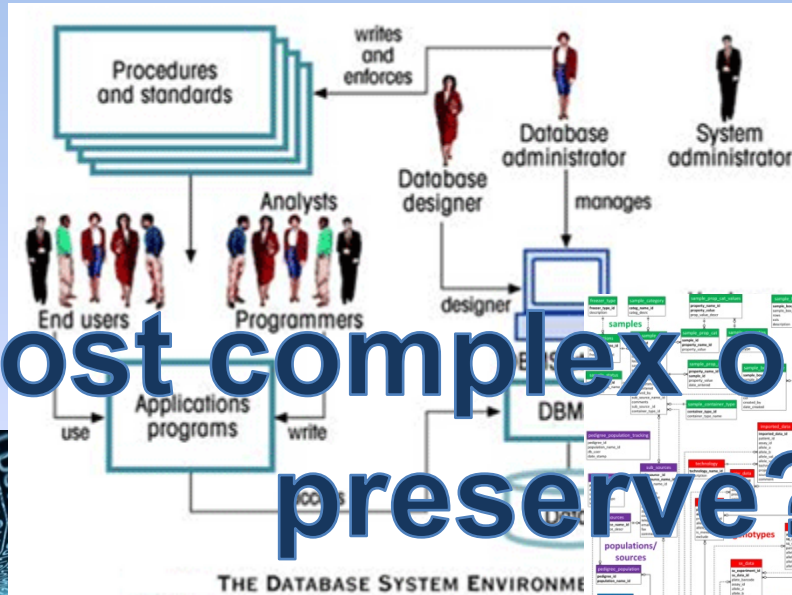
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Database preservation intro

Most complex object to preserve?



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Database preservation intro

- In order to do database preservation:
 - Keep the data
 - Keep the structure
 - Keep the system
 - Keep it so that it all the above is understandable for generations to come ..
 - .. and even for people who do not have a DBA certificate
 - Manage it all within the budget..



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Our possibilities to date

- Emulation
 - Allows to preserve a lot of the complexity of a database, but
 - Need for specialised staff
 - Complex to keep alive and use
 - Cost of licences
 - Overall cost???
- Migration to archival formats
 - How much of a database are we able to migrate?
 - Need for additional (manual) descriptions to keep the context
 - Tools needed to automate the process for both archiving and reuse
 - But manageable with regular costs



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State of the art

- Emulation is not widely used due to the lack of resources
- Migration seen as a viable option
 - Multiple open preservation formats available based on technologies like JSON, XML, CSV etc.
 - A number of tools (and counting) to support the migration into preservation formats and reuse



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Today it's about ..

- SIARD is (one of) the most accepted format(s) for preserving relational databases
- SIARD 2.0 published in 2015 in collaboration between the Swiss Federal Archives and the E-ARK project
 - Allowing to store most of the crucial elements of a relational database
 - Addressing scalability
 - Backwards compatibility with SIARD (1.0)



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Today it's about ..

- The preservation tools
 - Database Preservation Toolkit
 - SIARD Suite
- The access tools
 - Database Visualisation Toolkit
 - SIARDexcerpt



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