

# Document the original environment

- Manuals, specifications
- Screenshots of GUI
- Video screencasts of GUI
- Follow standard like Data Documentation Initiative (DDI), PREMIS, emerging E-ARK standard
- Make reviving the whole package a self-explaining "bootstrap" routine

# Document the information package

- Make reviving the whole package a self-explaining "bootstrap" routine
- Follow standard like Data Documentation Initiative (DDI), PREMIS, emerging E-ARK CSIP SIARD standard

### **Option A: Select essential entities**

- Only use existing reporting data
  - Statistical reports (documents, spreadsheets)
  - Statistical microdata (CSV, other)
  - OLAP extracts (CSV, other)
  - Reporting data (subject-specific XML, JSON, etc.)
  - Geodata extracts (GML, GeoPackage)
- Create archival reports or modify existing reports
  - CSV export(s)
  - SQLite
  - SIARD XML
  - other XML, JSON, etc.

### **Option B: Preserve DBMS performance**

- Make sure you don't miss some parts without notice! (see below)
- Options
  - Complete SIARD XML dump
  - Complete SQL 2008 dump
  - Complete SQLite dump
  - Complete proprietary dump (e.g. Oracle)

### **Option C: Preserve complete performance**

- Call for emulation services
  - Emerging packaging standards for OS, DBMS, GUI
  - Specialized companies
  - Maybe use less intricate strategies as a benchmark in parallel?

### And from then on ...

- Keep package in a persistent, replicated, secure storage
- Keep access methods
- Wait
- And monitor regularly



Kai Naumann - Databases for 2080 (Oct. 5th/6th, 2021)

### You want to know the obstacles?

- Understaffed DB admins
- Too little standards / software support
- Copyright and data protection legislation (lots of unknown rightholders)
- Proprietary extensions
  - Geodata
  - Binary Large Objects (BLOBs)
  - Character Large Objects (CLOBs)
  - NOSQL technology
- Unusual size
  - XML > 200 MB doesn't parse on most computers
  - CSV > 1 million rows doesn't open in MS Excel
- Floodings, fires, earthquakes, wars, ...
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#### **Discussion rooms**

- See GotoMeeting links on agenda on Landesarchiv workshop homepage
- CryptPad will be shared via GotoMeeting
- We choose minute takers who write into the cryptpad
- We answer existing questions, ask new questions, mark contentious issues
- Please follow advice of discussion hosts and don't hop back and forth too much ©
- Group A Standards, software, deployment with Kuldar Aas (National Archives Estonia) and Carl Wilson (Open Preservation Foundation)
- Group B Strategies, efficiency, documentation with Annette Strauch-Davey (University of Hildesheim) and Kai Naumann (Landesarchiv Baden-Württemberg)
- Final plenary at 12:00 (see also link on agenda)



## Let's improve!

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