

RODA and Friends

an open source ecosystem that helps curate your
digital information

Workshop scenarios



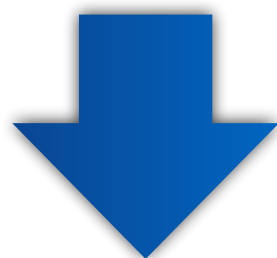
Records on a
Database



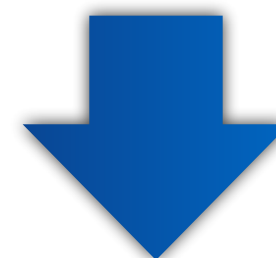
Records on the file
system

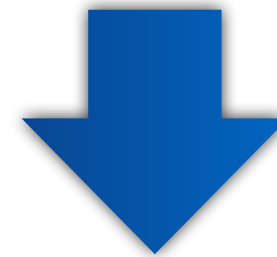
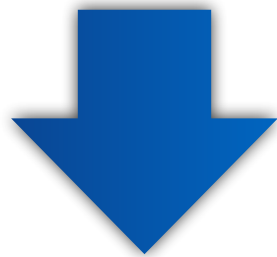


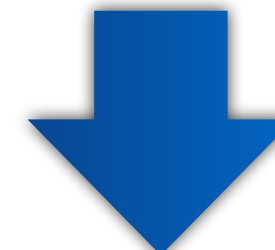
Records on a
Database



Records on the file
system







RODA
Long-term digital repository

The toolset



Data extraction



Content packaging



Archiving & preservation



Data visualization

workflow









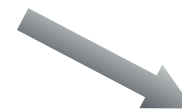
Packaging tool



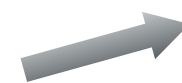


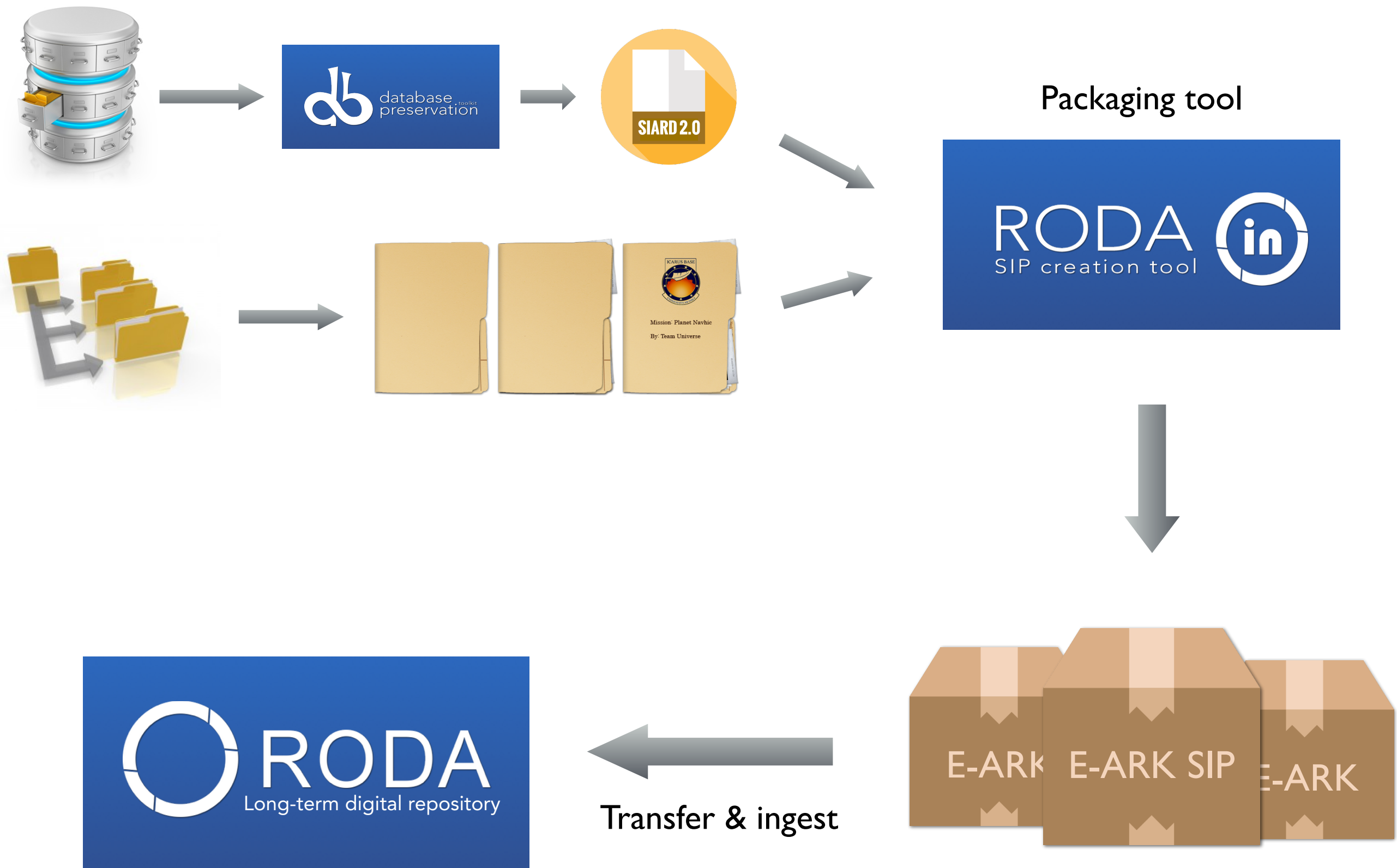
Packaging tool





Packaging tool





Lets take a closer look at the tools...



Extracts/loads data from/to relational databases

Stores data in preservation formats: SIARD 1, SIARD DK, SIARD 2

Command-line tool

Enables using the tool over SSH

Multi-platform

Runs on Windows, Linux, MacOSX, and any Java compatible operating system

Lightweight and highly performant

Tests reveal a throughput of 88.000 records/second on a large text database

MySQL/MariaDB

PostgreSQL

Microsoft SQL Server

Oracle

NEW

Microsoft Access

NEW

Generic JDBC

NEW



database_{.toolkit}
preservation



Data extraction

SIARD 1

SIARD DK

NEW

SIARD 2

NEW

RODA
SIP creation tool



It's a **SIP creation** tool

To be used by producers to prepare data to be sent to the repository

Compatible with the **E-ARK SIP specification**

Also supports the **BagIt** format

Designed to create thousands of SIPs with **just a few clicks**

SIPs can be gigabyte-size

Support for multiple **descriptive metadata** schemas

Templating system enables the user to create new metadata profiles

Templates provided for EAD 3, EAD 2002 and DC

Multi-language

English, Portuguese, Spanish and Hungarian at the moment

Multi-platform

Windows, Mac OS X, Linux

Offline operation

No network is necessary to operate the tool. Essential for some producers



RODA

Long-term digital repository



Open source

Vendor freedom, no licensing costs



Turn-key solution

Ready to be used by archivists, producers and consumers



Preservation and authenticity

Preservation metadata

Preservation actions

Risk management

User-friendly design

The system was developed having end-users in mind

Blazing fast search

Supported by horizontally scalable search technologies

Custom descriptive metadata

Supports any XML based metadata schema

Multiple SIP formats

BagIt, E-ARK, EUPO SIP

Customisable ingest workflows

Ingest tasks can be turned on/off and parameters can be set right at the UI



Viewing and navigating on relational data

Lists data, follows relationships, shows structure, users, data, triggers, stored procedures, functions, metadata, etc.

Searching, filtering, column hiding, etc.

AND, OR, NOT and “exact phrase”

Export data

After filtering, the user can export data to CSV

Copes with millions of records

Supported by NoSQL horizontally scalable technologies

The challenge

1. Download RODA-in
2. Download DB Preservation Toolkit
3. Convert a database to SIARD 2.0
4. Package the SIARD file and add some metadata
5. Package some files in your hard drive
6. Transfer packages to RODA
7. Start an ingest process
8. Look at the result

KEEP SOLUTIONS

University of Minho SPIN-OFF

A r c h i v e s

|

L i b r a r i e s

|

M u s e u m s