



Happy Birthday!

# IUGW17

CERN Archival Store: Invenio Archivematica integration

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# I. Data Preservation

Why is it important?

*A Digital Dark Ages?*

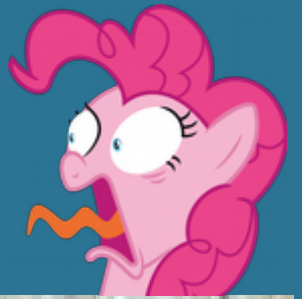
*Challenges in the Preservation of Electronic Information*

**1997** - <https://archive.ifla.org/IV/ifla63/63kuny1.pdf>

Terry Kuny - International Federation of Library Associations and Institutions

# I. Data Preservation

Why is it important?

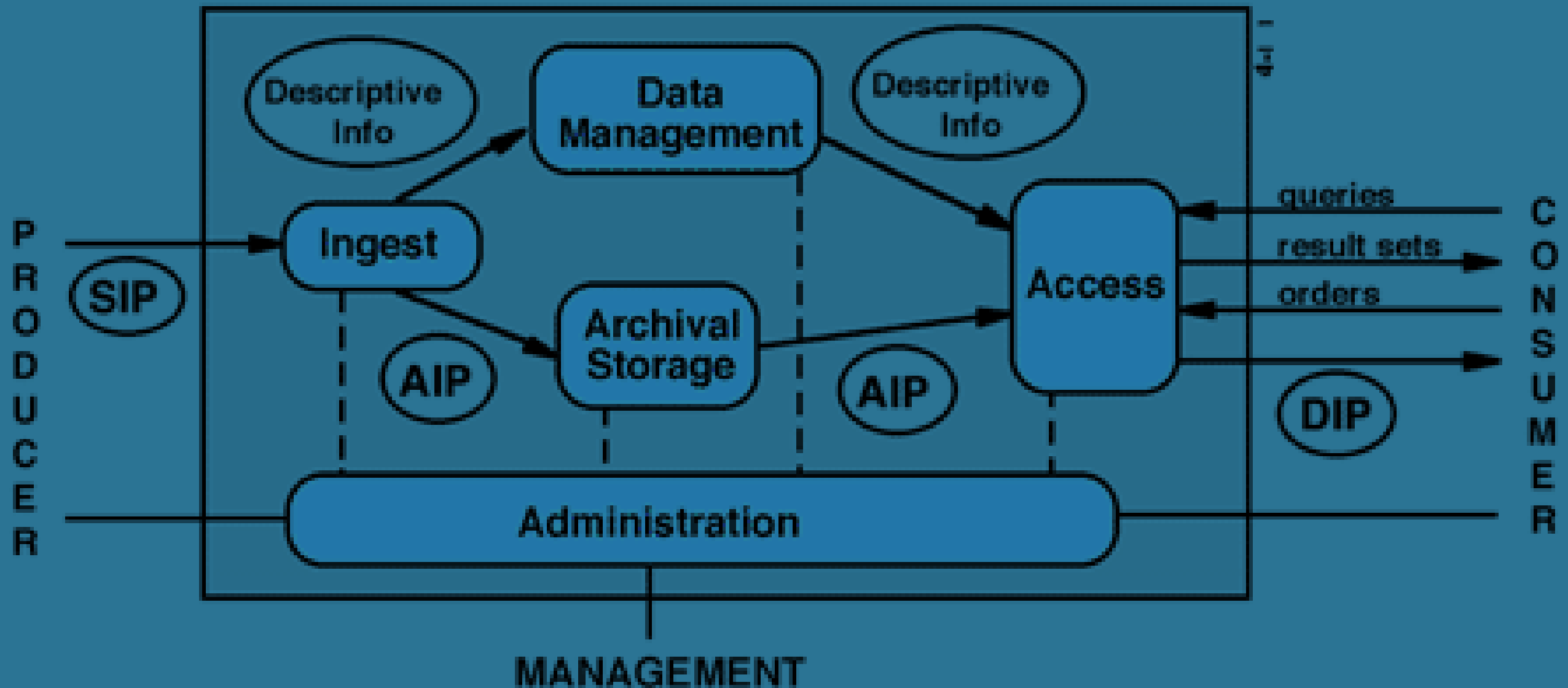


- Future generations need to
  - Read
  - Decrypt
- Implement OAIS in Invenio
  - Important feature
  - Strict and powerful standard
  - organizational, infrastructural, software



# I. Data Preservation

## OAIS



# II. Needed features

Goal: dark archive

- Actions:
  - Ingest, Archival Storage, Administration
- Objects :
  - SIP, AIP, Metadata (METS + PREMIS)
- Tests of a solution
  - Made from scratch
  - E-Ark Project
  - Archivematica
  - Others... ( <http://digitalpowrr.niu.edu/tool-grid/>)



# III. Archivematica

## Introduction

- Open-Source software
  - Made by Artefactual
  - Widely used (UN, NATO, universities...)
- Complete system ready to use
  - Lots of configuration
  - Possible automation
  - Use of open-source project for conversion

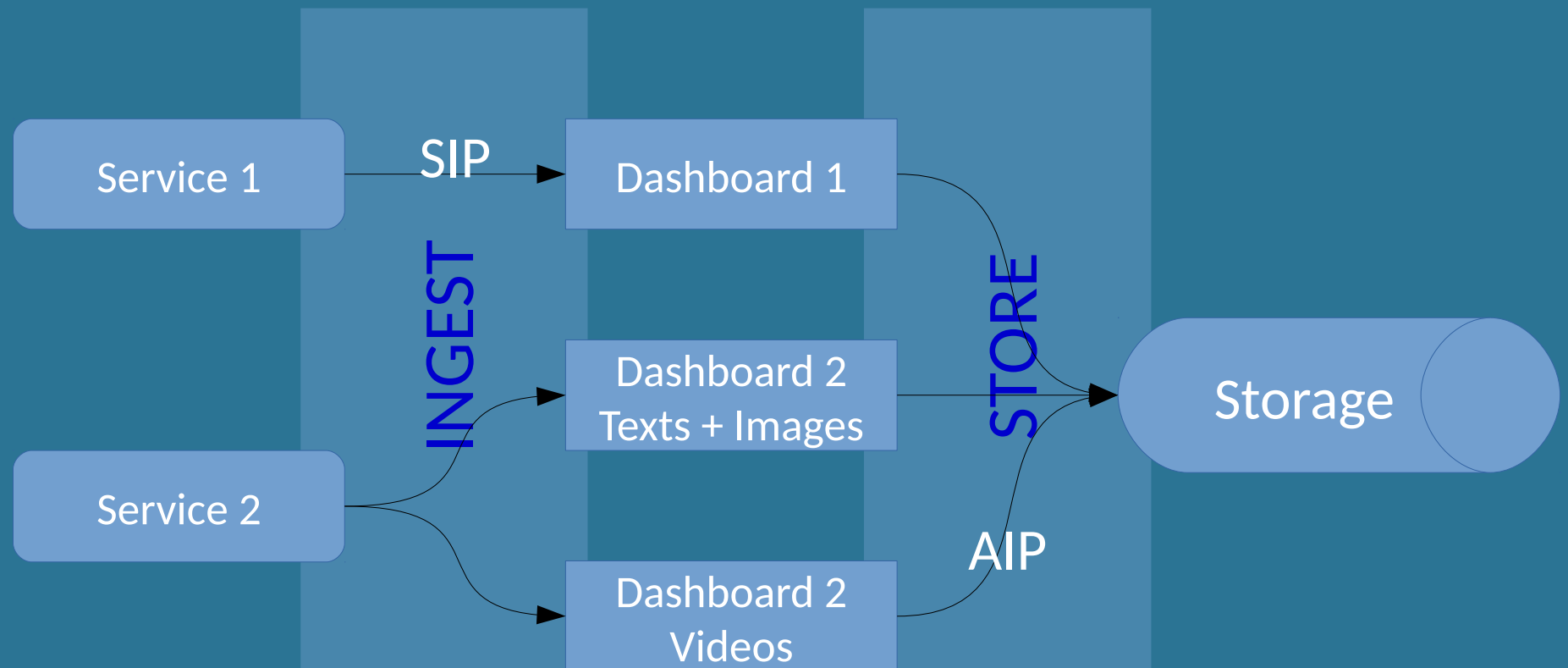


# III. Archivematica

## Features

- OAIS requirements
- Creation of Information Packages
- PREMIS + METS metadata
- Conversions for all kinds of formats
- WebUI

- Workflow

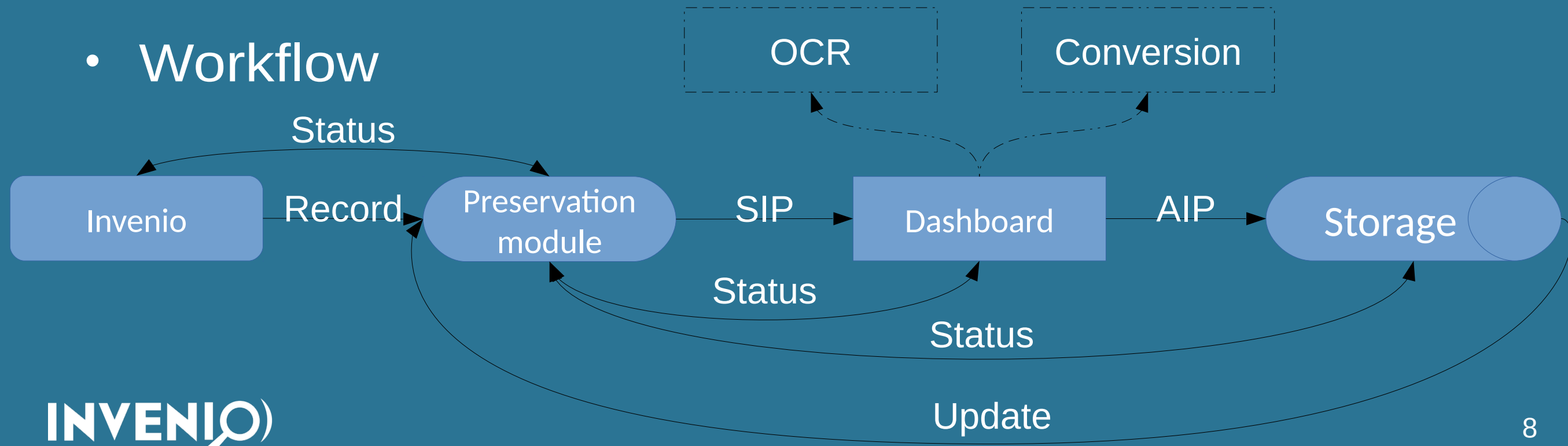


# IV. Invenio module

## Introduction

- Goal
  - Create an interface Invenio / Archivematica
  - Manage the archive from Invenio
    - Archivematica's API

- Workflow





# IV. Invenio module

## Features

- Global features
  - Add / Remove record in the archive
  - Check the status of a processing
  - Check the status of an AIP
- Advanced features
  - Store big binary files
  - Weak archiving

# Conclusion

- Status:
  - Implementation in progress
  - First release this year
- OAIS is a full standard
  - Not only software
- At CERN:
  - Different services
  - One common archive

# Questions

