Institutional Repository
A Digital Library Service

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Digital Library

- **"Digital Repository"**
  - e-Print archives
  - Open archives
  - Open repositories

- **Examples**
  - Electronic Theses & Dissertations (ETDs)
  - Institutional Repository (IR)
  - Image Libraries
  - and more...

Institutional Repository

by an Institution

of Institutional Contents

For…
The Institution
The World (may be)
For Posterity

Contents...

- Intellectual output of an institution
  - Journal articles (*pre-prints* and *post-prints*)
  - **Pre-prints**:Preprints are all the versions of an academic article or other publication before it has been submitted for peer review.
  - **Post Print:** Postprint is the form of the article after all the peer review changes are in place.
  - Conference papers
  - Conference posters
  - Conference proceedings (published by the Institute)
  - Newspaper/magazine articles
  - Books (bibliographic details)
  - Book chapters (bibliographic details)
  - Departmental technical reports/working papers
  - Project reports
  - Lecture series

Benefits...

- Impact barriers
  - Authors want to disseminate research widely
  - But publishers restrict (subscription cost)

- Access barriers
  - Researchers want easy access to the literature
  - but most researchers do not have easy access (subscription cost)

Benefits...

- Organized presentation of the research output of the Institute

- Visibility of research output in Google (full-text)
- Enhance the professional visibility of authors, and raise the prestige of the Institute.

- Research has demonstrated that open access online articles have appreciably higher citation rates than traditionally published articles
  (http://www.nature.com/nature/debates/e-access/Articles/lawrence.html)

- Students can easily access faculty papers
- Preservation and long-term access to Institutional research output

Requirements...

- ICT Infrastructure
  - Server hosting
    - Stand-alone
    - Cloud hosting (AWS)
  - Software requirements
    - Operating System (Linux – Ubuntu Server)
    - Repository Software
      - **Dspace**
      - **E-Prints**
      - **Fedora**
      - **Digital Commons**

DSpace

- Prerequisite Environment
  - Unix like OS (Ubuntu/Debian/CentOS)
  - Java JDK 7 or 8 (Open JDK or Oracle JDK)
  - Apache Maven 3.0.5 or above (3.3.9+)
  - Apache Ant 1.8 or later
  - PostgreSQL 9.4 or later
  - Apache Tomcat (7.0.30 or above) or (8.0.33)

DSpace Installation Steps

- Create Prerequisite Environment
- Create the DSpace user
- Downlaod the latest DSpace release
- Postgresql Database Setup
  - User and database
- Create DSpace Installation Dir
- DSpace Initial Configuration
- Build the Installation Package
- Install DSpace
- Create Administrator
- Deploy Web Applications

Thank you