



# *Internet2 Middle East SIG Meeting* Oman Research & Education Network (OMREN)

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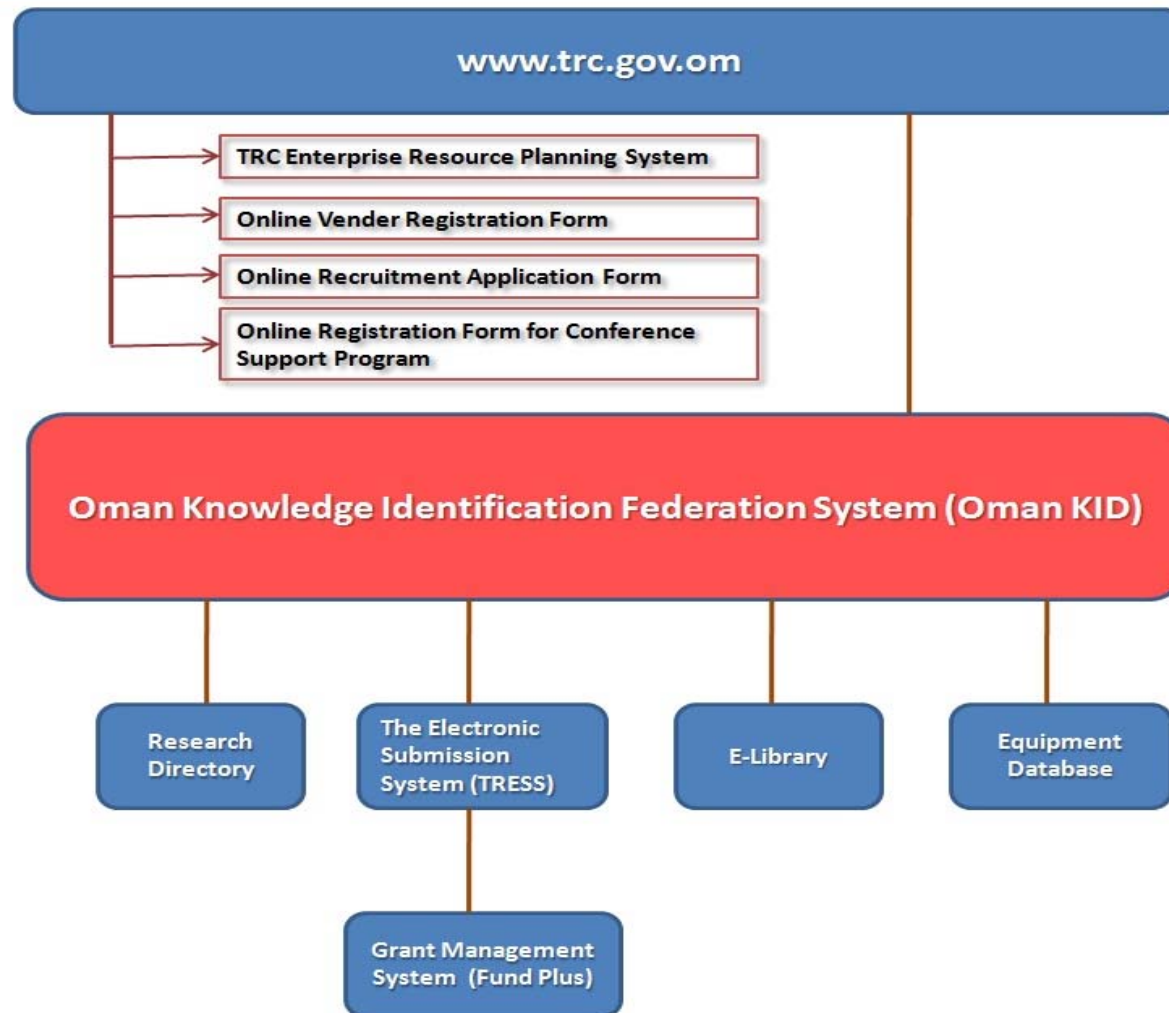
## Introduction (Oman – The Research Council)

**The Research Council (TRC)** :was established on 22<sup>nd</sup> of June 2005, It carries tasks related to research and endeavors to promote and support research using all the material and moral means possible. The Research Council in this capacity shall be the main national authority in this area, acts as a focal point for research and innovation and liaise with various institutions concerned with research.

# Current Activities (OMREN)

- We are currently running in the assessment and gap analysis for the existing infrastructure.
- Within 6 months we will be having OMREN Technical, Financial and Operation models ready.
- The Government is currently implementing CA project.
- In parallel we are carrying on enhance and implement our e-services which will play main role to fully utilize OMREN once implemented.

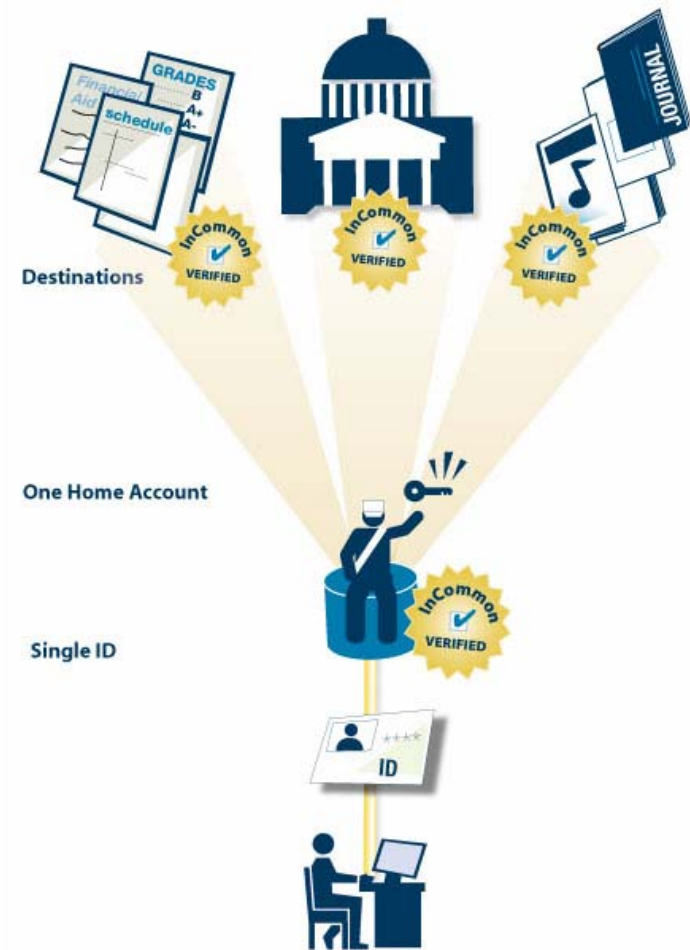
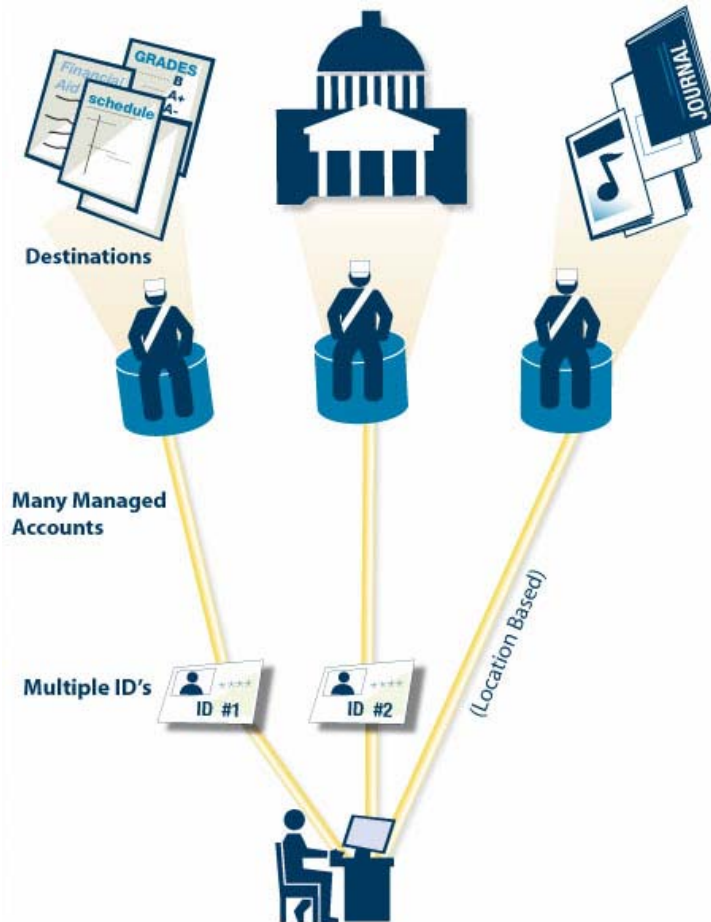
# TRC E-Services



# Oman Knowledge Identification Federation System (Oman-KID)

- Oman KID is an authentication system connecting local academic and research organizations.
- Offers a way for users to access multiple services with a federated single sign-on framework.
- Federated Single Sign-On Authentication Service - authentication across multiple applications and organizations the system allows users to login from their home organization (university, institute etc..) using their id and password they use there.
- Strong Security Standards – an Open source project.
- Connects service providers (SPs) and identity providers(IDPs)
- Has the ability to connect to international federation systems
- Creates user profiles automatically in the Research Directory Application

# Overview of Oman KID Federation

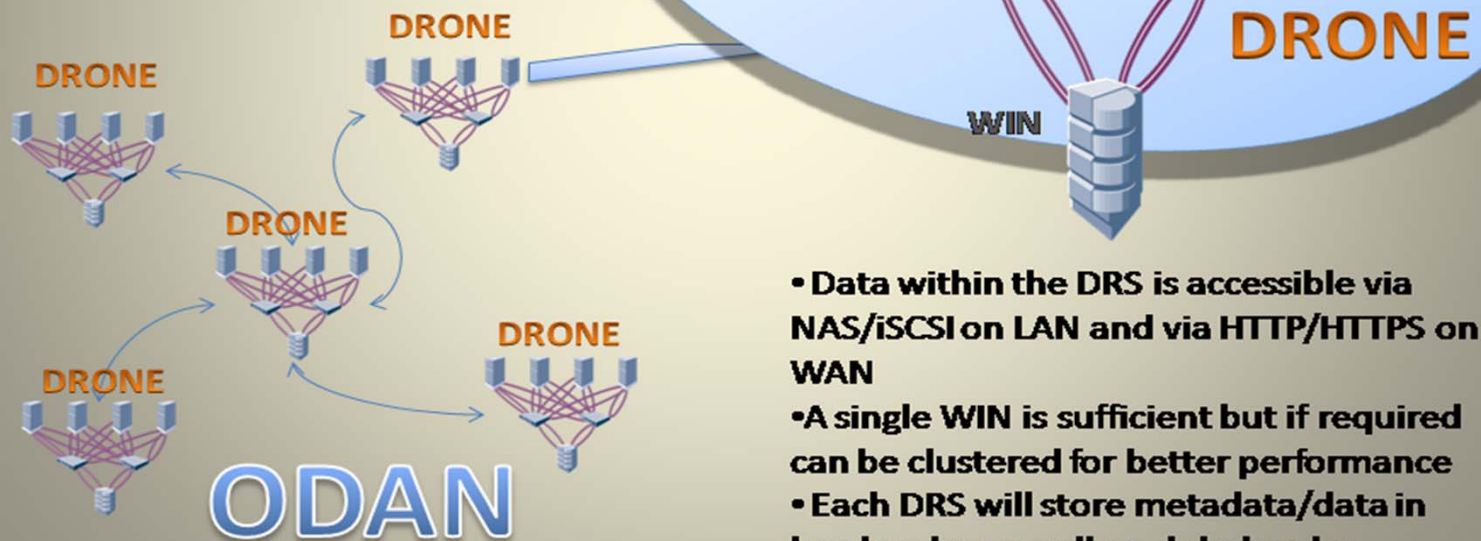


# Oman Digital Academic Library (ODAL)

- Shared depository of all academic and research materials gathered from all organization and institutions connected to Oman-Kid. It provides a huge resource center for education and research sector. These materials can be exchanged with different institution worldwide.
- It contains variety of digital content including journals, dissertations, reports, e-books and other multimedia. A centralized authentication mechanism is used to authenticate users irrespective of their location and irrespective of their roles within the organization.
- To enrich the content of the ODAL, TRC selected to be active member on Open Course Warehouse consortium OCW

# Oman Digital Academic Library (ODAL)

- Each DRONE is connected to one another via WAN addresses
- Each DRONE is individually accessible based on geographical or administrative requirements
- DRONES can be physically together in a datacenter or geographically distributed



- Data within the DRS is accessible via NAS/iSCSI on LAN and via HTTP/HTTPS on WAN
- A single WIN is sufficient but if required can be clustered for better performance
- Each DRS will store metadata/data in local cache as well as global cache

# Recommendation

- We recommend to kickoff an initiative to establish decentralized web based digital repository system called Arab State Digital Academic Library (ASDAL).
- Encourage our Research Institutions and Education organizations to populate the repository to enrich our local contents.
- Enable members to share contents among each other through federation systems.