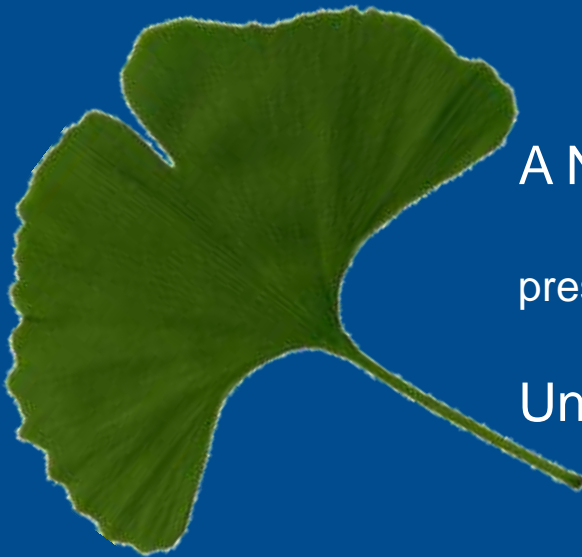




eRIC

E-Research - Infrastructure and Communication



A New Leaf for Library Services

presented at

Universidade Federal de Santa Catarina Library



The Library – a Time-Honoured Institution

What have libraries done so far?

Libraries support study and research

Provision of published data - books, journals, databases

Provision of bibliographic data - organisation and preservation

Libraries as space - for learning

Use of the Internet created a
new paradigm of expectations in library services



Redefinition of the research library for a new era

The Library – a Time-Honoured Institution

- Service desk → Social networks
- Loan of books → Kindle Lending Library
- Mediating access → Publishers approaching end users
- Intellectual subject indexing → Automatic full text indexing
- Intellectual cataloguing → Purchase of metadata sets



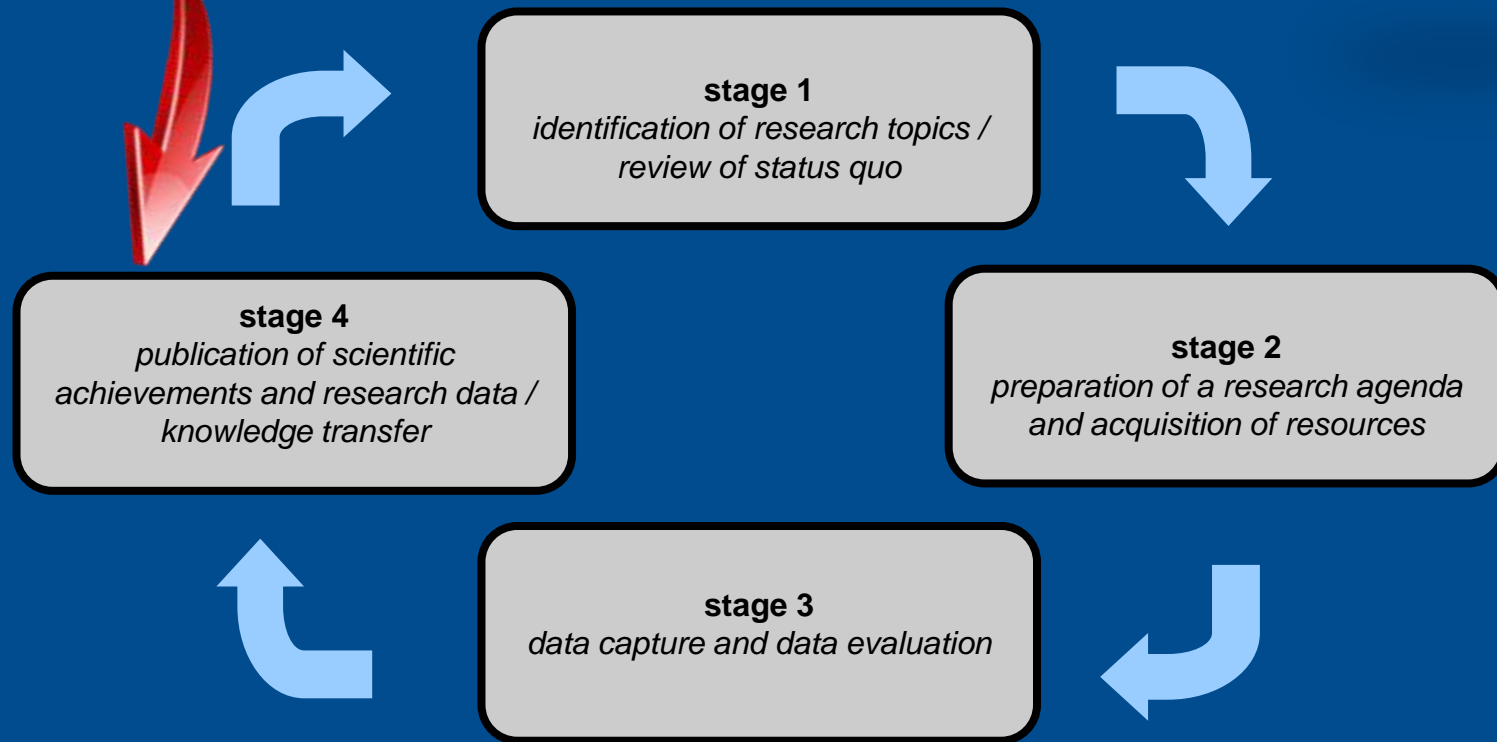
Traditional approach to service provision



Take it or leave it

Traditional approach to service provision

Focus on the end of the queue: **published information only**



Libraries – a framework for Excellence

!!! ATTENTION PLEASE !!!



!!! Change is a Constant !!!

A survival guide to library services - **Personal Customer Service**

- Absolute flexibility
- Sustainability AND individual solutions
- Holistic approach to services
- Focus on two-way communication



→ Necessary shift from

Information Provision

to



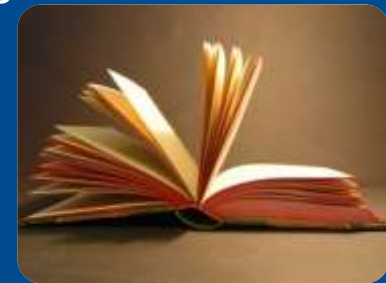
Information Management

TUM Prerequisites for a new Paradigm of Library Services

- Team oriented working processes
- Working groups across library departments and different educational backgrounds
- Certified quality management processes (ISO 9001:2008)
- Structured open innovation management
- Formalised project management
- Global budget (mutually coverable items)
- New department for information literacy and consulting
- In-house implementation of customer requested software tools

1998 ff.

Major restructure of the university



eRIC-approach ingredients



- Infrastructure → modular - scalable - adaptable
- Communication → efficient - effective - structured



Research group





Researchers are involved in



Research Workflows & Organisation





Researchers
Our initiative is about
are involved in

Interfacing and Managing Instruments

Metadata

Reference Management

Ideas Tracking & Organization

Funding Proposals

Data Curation

profile & visibility

Research Data

Publishing Research Results

Research Group

Communication

Visualisation

SURVEYS

focus

Research Workflow

Model Field study

Data Mining

Data Streaming

Data Analysis

Supervising

Data Formalisation

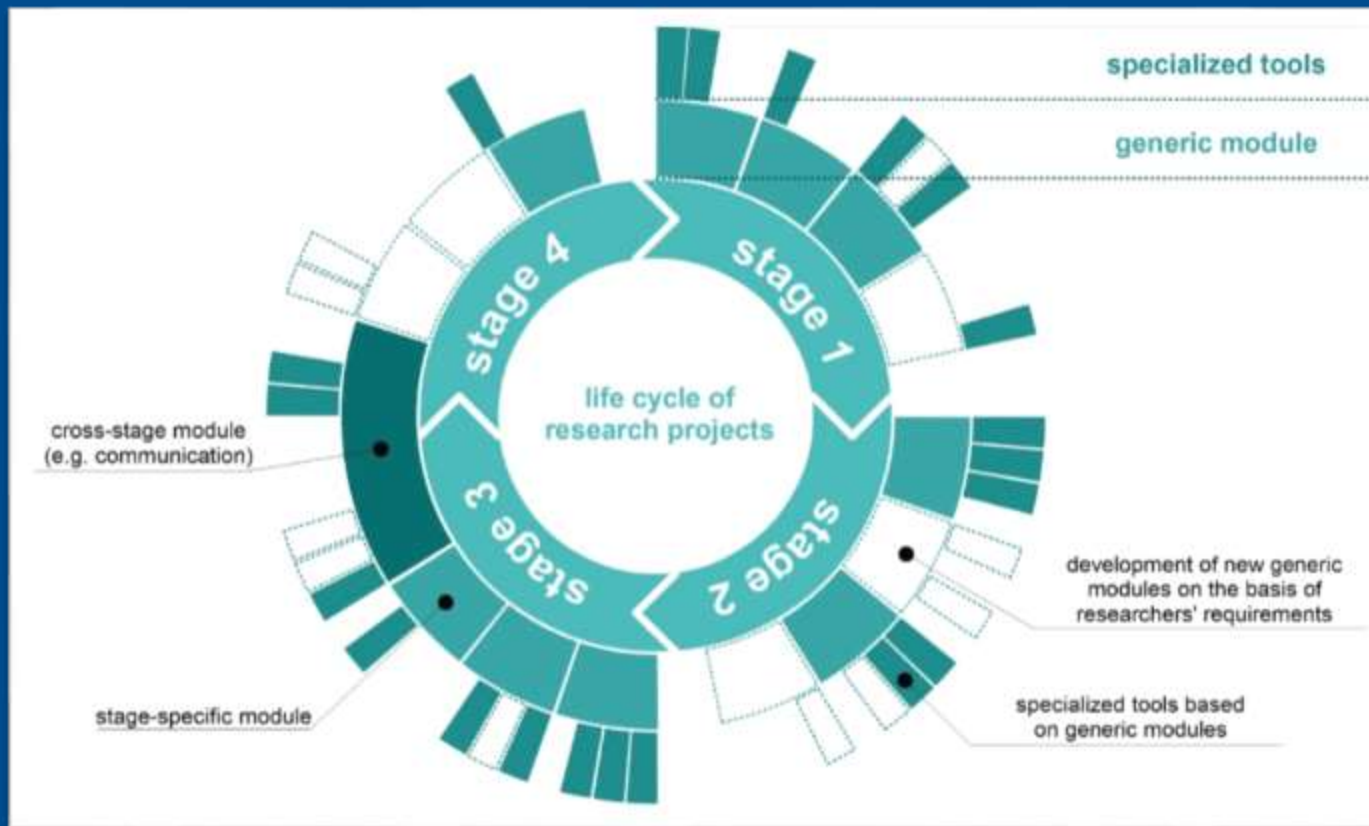
PROJECT MANAGEMENT

organisation



eRIC foundations

E-Research Support Cycle



eRIC partners involved



Non-IT Information Management



Research

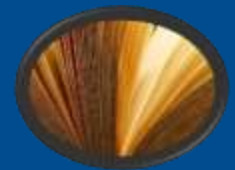


IT Information Management

eRIC workshop was about answering questions (TUM, June 2013)

- How best to collaborate during our project?
- How to share and contribute our special expertise in order to develop the best e-research support infrastructure we can imagine?
- What are your expectations?
- What are your priorities?
- How would you want to be involved?

Let's get started!



eRIC approach

- 0. a vision, a flexible mediaTUM
 - manage digital
 - upload documents
 - index your
 - make your
 - accessible
 - select, export
- 1. structured in



Research Data Management Audit

Date: _____
 Interviewee: _____
 Interviewer: _____

1. General

a) Audited chair

Name of the chair, faculty _____
 Address, telephone _____

 Chair holder _____
 Number of employees _____

b) Do any of your current research projects require a data management strategy due to funding body specifications?

2. Research methods and existing data

a) What kind of methods do you use for creating data? (*experiments, field surveys, collecting data via instruments, data generation via computer programs, statistical investigations, interviews...*)

b) Data creation process

- Please describe a typical data creation process.
- In which formats do you store your data?

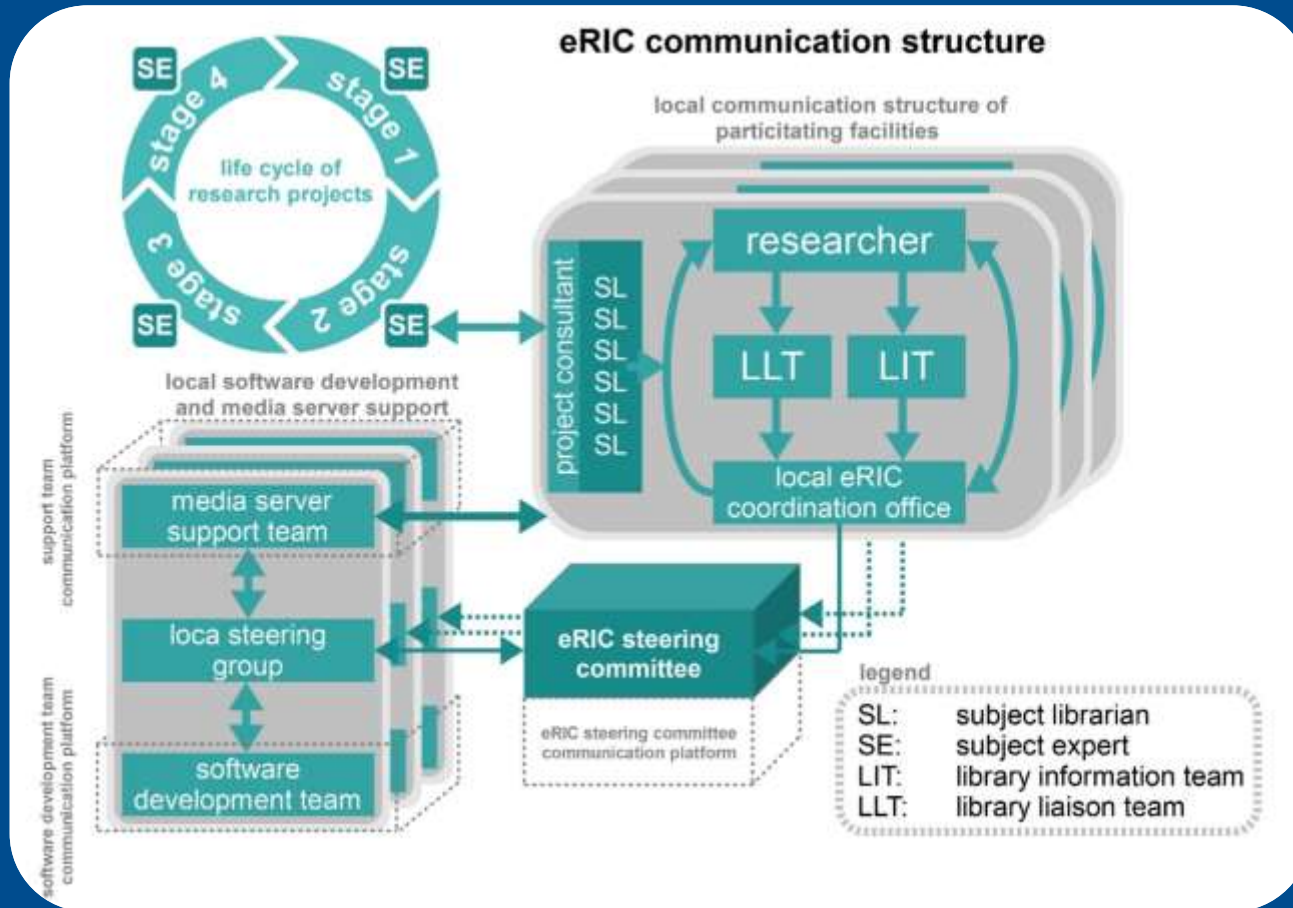
atory:

input forms
ely

?



eRIC communication structure



eRIC work packages

- Communication
 - Communication between researchers and library
 - Initial contact and establishment of the communication cycle
 - Workflow for initial contact
 - Establishment of the communication flow within the library
 - Establishment of expert counseling
 - Communication within the eRIC infrastructure
 - Project coordination and sustainability
 - Establishment of the communication structure
 - Integration of quality management system
 - Development of consulting model and marketing strategy
 - Development of hosting concepts



eRIC work packages

- Communication
 - Communication within a research team
 - Communication tools
 - Integration of communication tools
 - Tool for organization and storage of ideas
 - Researcher profile
 - Preparation and publication of researcher profiles



eRIC work packages

- Development of a layered software architecture
 - Structured review and referencing
 - Reference management system
 - interfacing Reference management systems
- Development of a research plan and acquisition of financial resources
 - Definition of project structure
 - Plant project including assignment of rights
 - Administration and user authentication
 - Use an existing database of customer contacts for the preparation and implementation of surveys
 - Creating a research plan and an electronic project journal



eRIC work packages

- Resource planning
 - Scheduling
 - Resource planung
 - Budget planing
- Project documentation
 - Documentation of work processes and project progress
 - Preparation and publication of a project profile
 - Versioning
 - Extension of the search in the database of mediaTUM



eRIC work packages

- Data collection and analysis
 - Data collection and storage
 - Manual data collection
 - Automated data collection
 - Collecting data using mobile devices
 - Organization, evaluation and documentation of data
 - Analysis of primary and secondary data - metadata creation
 - Organization and documentation of primary and secondary data
 - Filtering, analysis and visualization of primary and secondary data
 - Filtering of data
 - Analysis of data
 - Visualization of data



eRIC work packages

- Publication of research results and data and knowledge transfer
 - Publication planning
 - Collaborative publication planning, implementation and control
 - Publication of papers and associated research data
 - Plagiarism check and bibliometric analysis
 - Plagiarism check
 - Tools for bibliometric analysis
 - Creation of printed publications
 - Print-on-demand service

And much more



eRIC participants

- University of the Armed Forces Munich – Chair for Material Management and Distribution
- TUM – Chair of Agricultural System Technology
- TUM – Chair for Analytical Chemistry, Institute of Hydrochemistry
- Thammasat University Libraries
- TUM – University Library
- TUM Research Reactor & Juelich Centre for Neutron Science
- TUM – Chair for Terrestrial Ecology
- TUM – Chair for Applied Informatics and Document Management
- TUM – Department of Physics
- TUM Department of Chemistry



eRIC participants – so far

- TUM – Chair for Architecture Informatics
- University of the Armed Forces Munich Library
- Cape Peninsula University of Technology Libraries
- German National Library of Science and Technology

You are welcome to join us





Has anyone any questions?

