



atirainformation

# Consulting and other services related to PURE

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# 1. PURE service offerings

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## 1.1. Service related to meta-data models

Any meta-data model can be implemented in PURE. Technical frameworks for that purpose is part of PURE's application architecture. Choosing the meta-data model for a new PURE solution determines what services will be needed: Customizing a new meta-data model requires technical implementation, where as choosing the standard meta-data model does not.

Optional consulting is available for research institutions, which define their own meta-data model. Once a new model is defined and documented, it must be implemented in PURE. Implementation work is not optional and must carried out by Atira. PURE's technical frameworks support the implementation, but it remains a piece of application specific programming work.

PURE's standard meta-data model was developed jointly with a number of universities. PURE's model has more publication types and sub-types than CERIF, whereas CERIF has more detail on research projects, to give an example. Currently, the PURE meta-data model is the only standard. It is our hope to implement and maintain CERIF as a standard model in PURE, too.

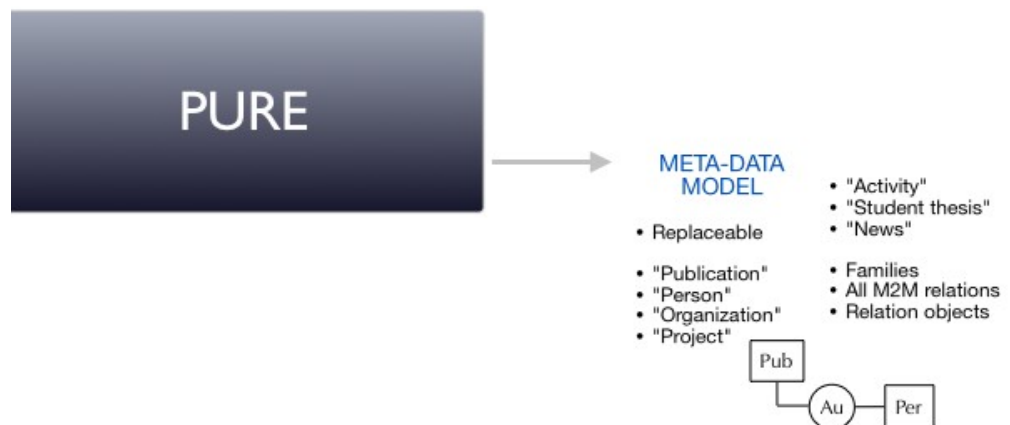


Illustration 1: The meta-data model in PURE  
The quoted words are the primary content types in PURE

## 1.2. Service related to system integration

A number of content types are required in PURE's standard meta-data model, apart from publications. These data types are Organizations, Persons and Projects. Usually, this data is maintained in other systems: Person data can be found in payroll system, in an Active Directory, or in a LDAP systems. Also data about Organizations and Projects is usually available from other systems.

For PURE to use data from other systems, the IT-department must make that data available. A format that resembles the source's own format is fine. It can be made available as a view to a database, as database tables, or as files.

PURE has a plug-in architecture for integration. Once data has become available, Atira will develop a task-specific plug-in for PURE that will acquiring, convert and ingest it. The plug-in can execute based on time intervals or triggered by events. Though rarely necessary, real-time integration is also an option. To get conversion right, Atira will send a suggestion for a field mapping table (source-to-PURE) to the research institutions for approval prior to developing the plug-in.

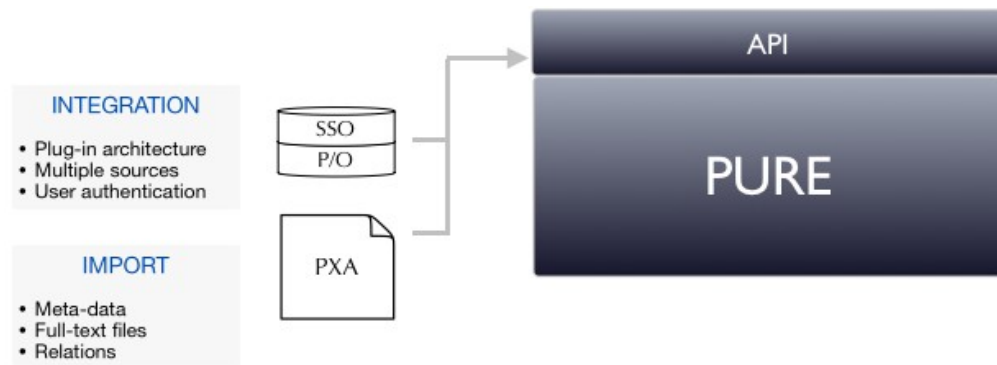


Illustration 2: External data sources typically integrated with PURE

### 1.3. Service related to conversion of data

Often, data from earlier repository systems or from external sources must be imported into PURE. Importing such data is often desirable for both administrators and researchers; complete publication listings from the PURE repository can be of importance in many situations.

Atira offers services for converting, validating, and importing such data. First, we write a detailed suggestion for how fields could be mapped from the source to the meta-data model used in PURE. Once approved or corrected, this mapping document is used for the actual conversion and import.

These services are offered by fixed prices.

#### 1.3.1. Technical information

PURE's defined format for data exchange is called PXA; short for PURE XML Archive format. A pxa file is a zip container, which can store meta-data as well as full text documents such as doc and pdf files. Further, pxa files contain descriptions of the relations between those entities, which any file would contain.

## 1.4. Service related to portal development

### 1.4.1. Generic portals

Generic research web portals will meet any requirement specification from the customer. One or more individual data sources can feed the portal, and any number and type of function can be implemented. The technical platform can be anything suitable for the solution, though usually the more attractive offer will be based on our maintained Java (J2EE) software component library and the many Open Source components and frameworks available today.

With this type of research portal, any existing or new research data source can be used to feed the portal. Also, one or more PURE solutions can be a data source. However, if the only data source for the portal will be one single PURE solution, the more attractive offer will likely be a portal based on the PUREportal development framework.

### 1.4.2. Portals based on the PUREportal development framework

PUREportal is a domain-specific portal development framework that comes free with each PURE license. It is developed and maintained synchronously with PURE. PUREportal facilitates rapid deployment of research portals for the purpose of exhibiting content from a PURE solution automatically. More information at the PUREportal page. Delivery of a PUREportal-based research web portals is usually offered at a fixed price.

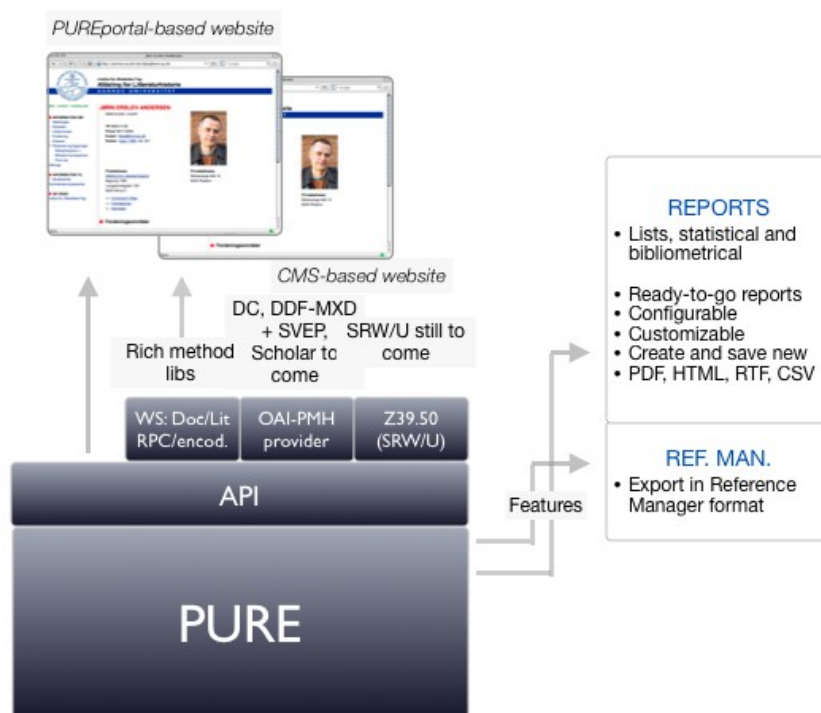


Illustration 3: Different services facilitate data exhibition from PURE using different technologies

Good examples of public PUREportal-based research web portals are:

- Hvidovre hospital (<http://forskning.hh.hosp.dk/front.do?language=sec>)
- Roskilde University (<http://forskning.ruc.dk/site/front.do?language=sec>)
- Aalborg University (<http://vbn.aau.dk/front.do?language=sec>)

## 1.5. Service related to server maintenance

We offer to carry out maintenance of servers running PURE based on a small annual fee. Included in this service is installation of all upgrades and other maintenance of the application server, the PURE application itself, and the PURE-related 3rd party components.

## 1.6. Service related to educations of users

We offer two standard PURE-courses aimed at super-users and web programmers. They are both held as one-day workshops. At either of these workshops, the attendants will be taken through all issues within the area of the course. There will also be practical hands-on sessions, where actual tasks from that particular research institution are solved.

Usually, is it sufficient to have a group of employees from a research institution educate on each of these courses. However, if there should be need for further or other training or education, we are happy to customize one or more workshops. In this paper, we're going to get an overview of PURE by addressing four basic issues: How data can be modeled, how data can be ingested, how data can be stored, and how data can be exhibited.

Since this paper will produce an overview of the PURE application, other resources will offer more details about the application's architecture, its interfaces and its features.

Also, PURE can be configured with a number of optional modules. A few of them are mentioned in the following pages, but generally such details are left for other papers.

## 1.7. More information

The PURE product paper offers more information about the features and architecture of the PURE application.