



Padipedia

Overview

- Vertical / Sector: Agriculture
- User: MARDI (Institut Penyelidikan dan Kemajuan Pertanian Malaysia)

Description

Padipedia is a web-based portal with centralized repository on paddy information from various MARDI paddy database which offers semantic searching capabilities for public or researchers to access for knowledge discovery.

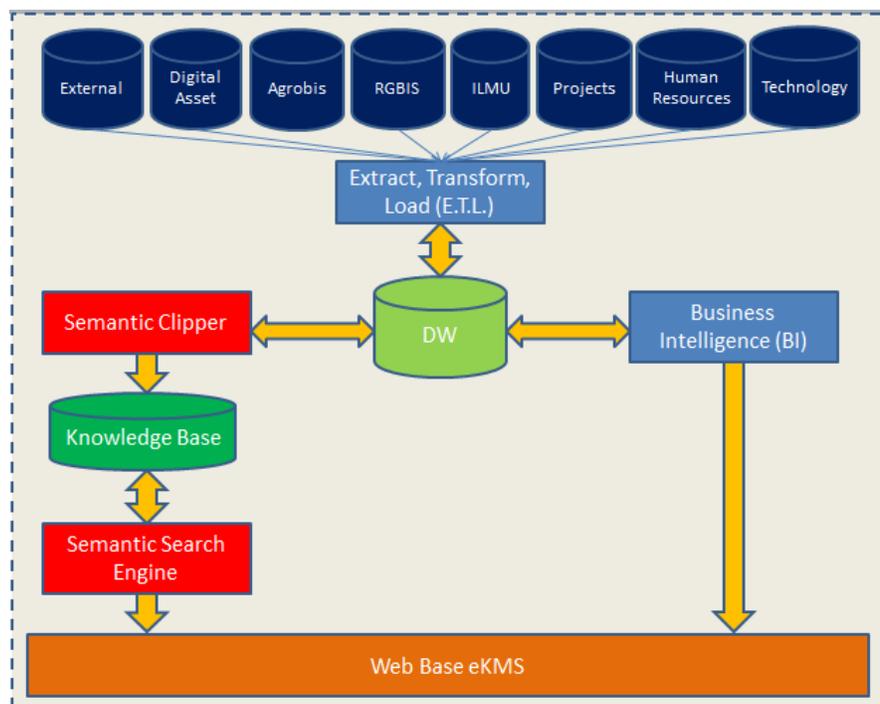
It also provide dashboard, with basic analysis and reporting function, on overall view of paddy research area and accomplishment for policy making.



Problem Statement

1. Paddy information, research studies and research funding are stored individually in several MARDI databases.
2. Valuable paddy knowledge and information within MARDI's organisation will disappear, as domain experts do not have centralised repository to maintain and preserve information and knowledge related to paddy.

Padipedia Architecture



Technology platform

- Mi-Semantic
- Reporting and Dashboarding

Solution Description

With the adoption of MIMOS technologies, MARDI Padipedia offers:

- Semantic Search Engine; and
- Dr Padi – a help center for users to seek paddy information using Paddy Ontology Knowledge Base

Features

- Unified Semantic Web that integrates data from seven existing MARDI databases and from external source;
- Data extracted from these databases will be transformed into Data Warehouse (DW) that will in turn populate a Knowledge Base;
- Data analysis capability; and
- High-level reporting dashboard.

Benefits

- Enable Domain Expert to build online Knowledge Base Paddy Repository by transferring their knowledge and expertise related to paddy;
- Integrate all existing MARDI's internal databases into a unified portal to improve end-user's search result on paddy; and
- User-friendly search engine and online Help Center, via Dr Padi, in providing all related information on paddy.



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