

# Task-Oriented Search and Content Annotation for Media Production

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## CONSORTIUM



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The project is running from October 2011 until March 2014.

The project brings together 10 partners from 5 European countries including industry partners providing solutions for the media industry, public service broadcasters as well as their European association, a university and research centres.

## Motivation

- Media production and archiving workflows are changing rapidly
- Workflows need to be increasingly networked and distributed
- Media search in distributed large-scale repositories in the network (multilingual and heterogeneous)
- Off the shelf tools, able to adapt to users' tasks are needed

## Objectives

- Enable content holders to leverage scalable advanced distributed processing
- Enable editorial staff in networked media production to seamlessly use content from distributed heterogeneous repositories
- Make benchmarking of indexing and search methods an integrated part of the workflow

## Research Areas

- Multilingual speech metadata extraction
- Content-adaptive visual metadata extraction and enrichment
- Aligning and linking metadata
- Task-adaptive search & retrieval and user feedback
- Task models and benchmarking
- User interfaces for annotation and result presentation
- Scalable distributed repository framework for digital media production workflows

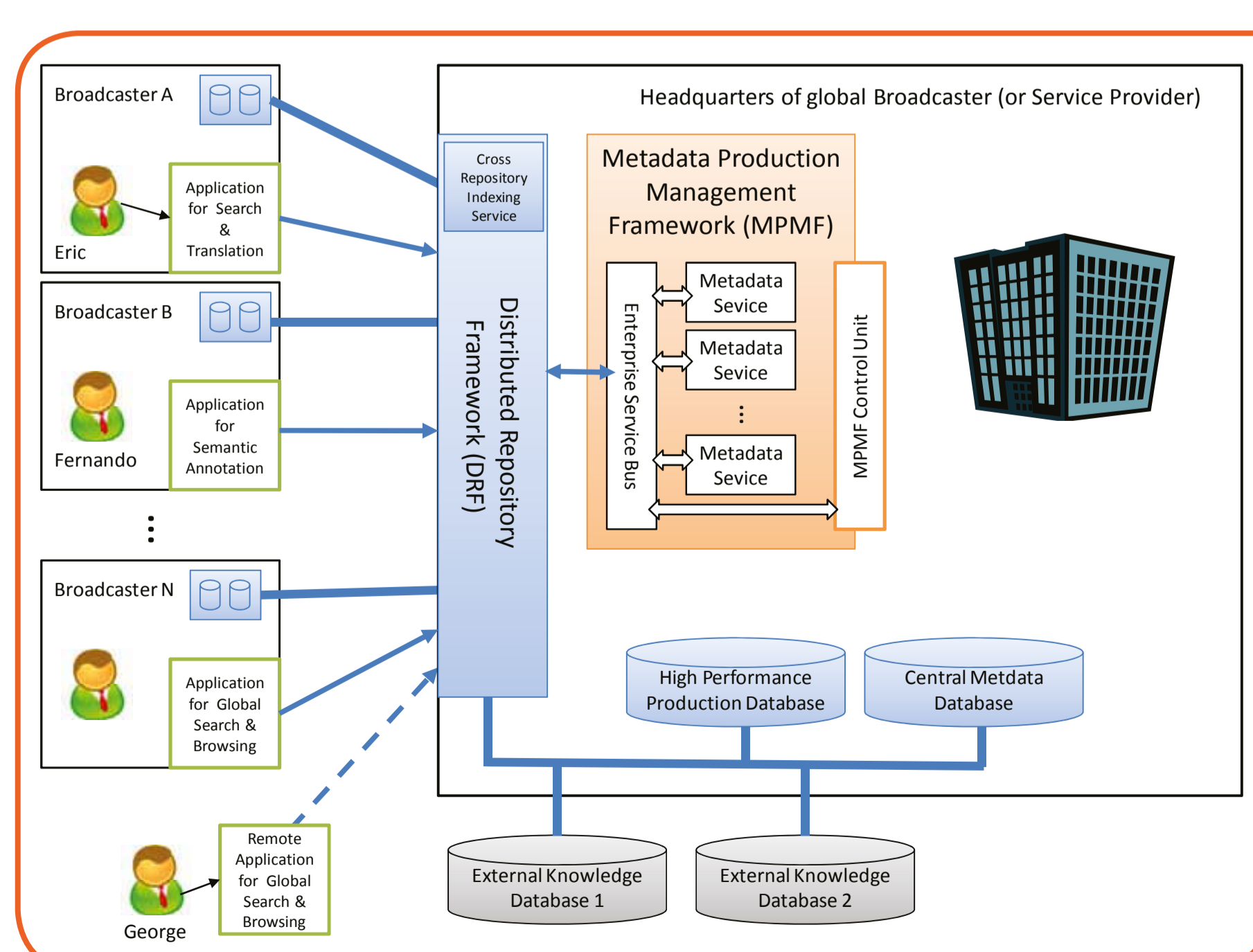


Figure 1: Search Scenario.

## Scenarios & User Tasks

### Scenarios

- Collected using S-Cube methodology
- 10 Business goals and 15 related scenarios
- Four categories: content access & retrieval, news service distribution, assisted production, and infrastructure

### User tasks

- Collecting a set of high-level task descriptions from users: [tosca-mp.eu/tasksurvey](http://tosca-mp.eu/tasksurvey)
- Formalised tasks models (ConcurTaskTrees, CTT)
- Derive business processes and benchmarks

## System Architecture

- Four subsystems
  - Metadata Production Management Framework (MPMF)
  - Distributed Repository Framework (DRF)
  - Sets of services
  - Graphical user interfaces
- SOA based framework
- Compatible with EBU/AMWA FIMS

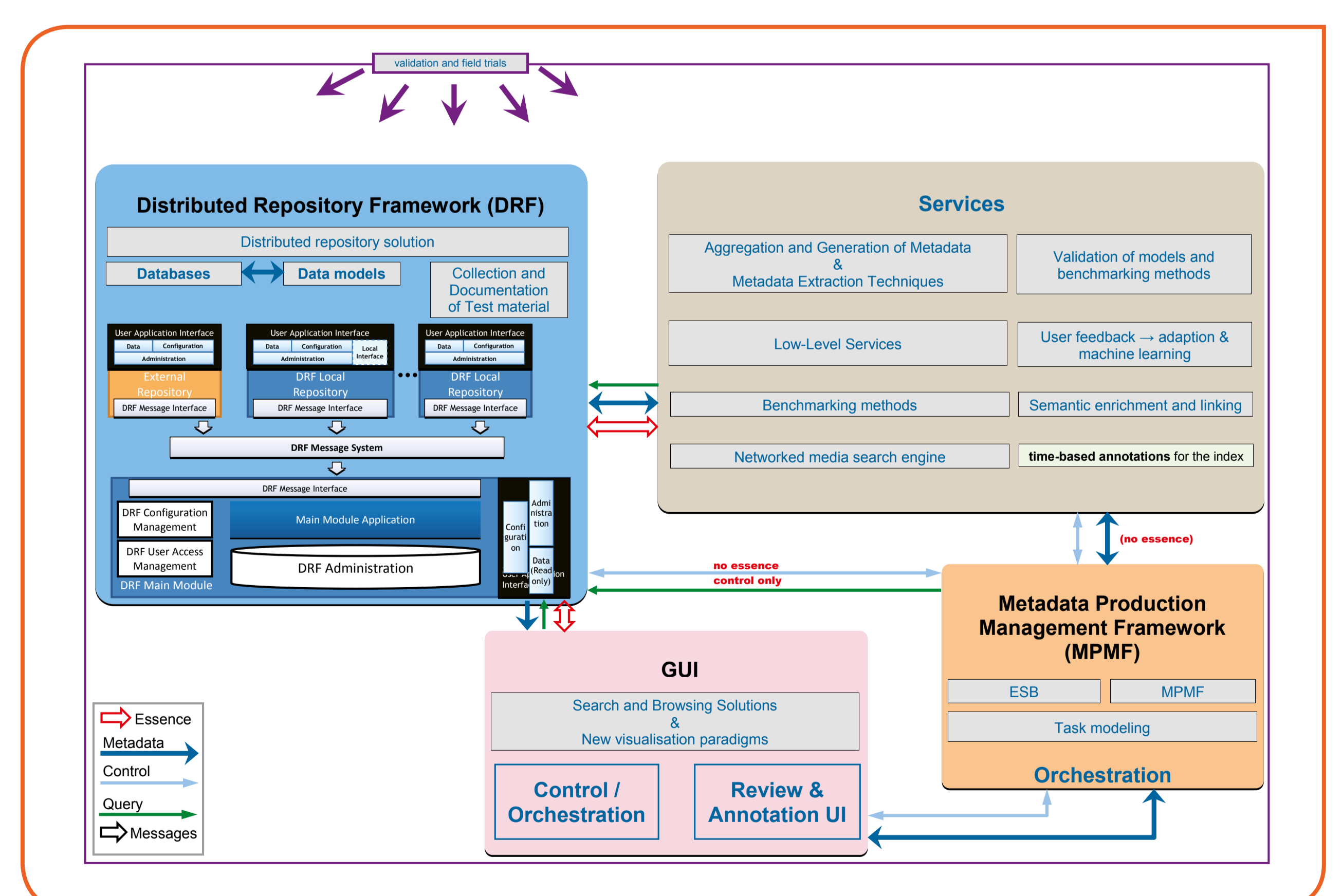


Figure 2: Logical System Design.

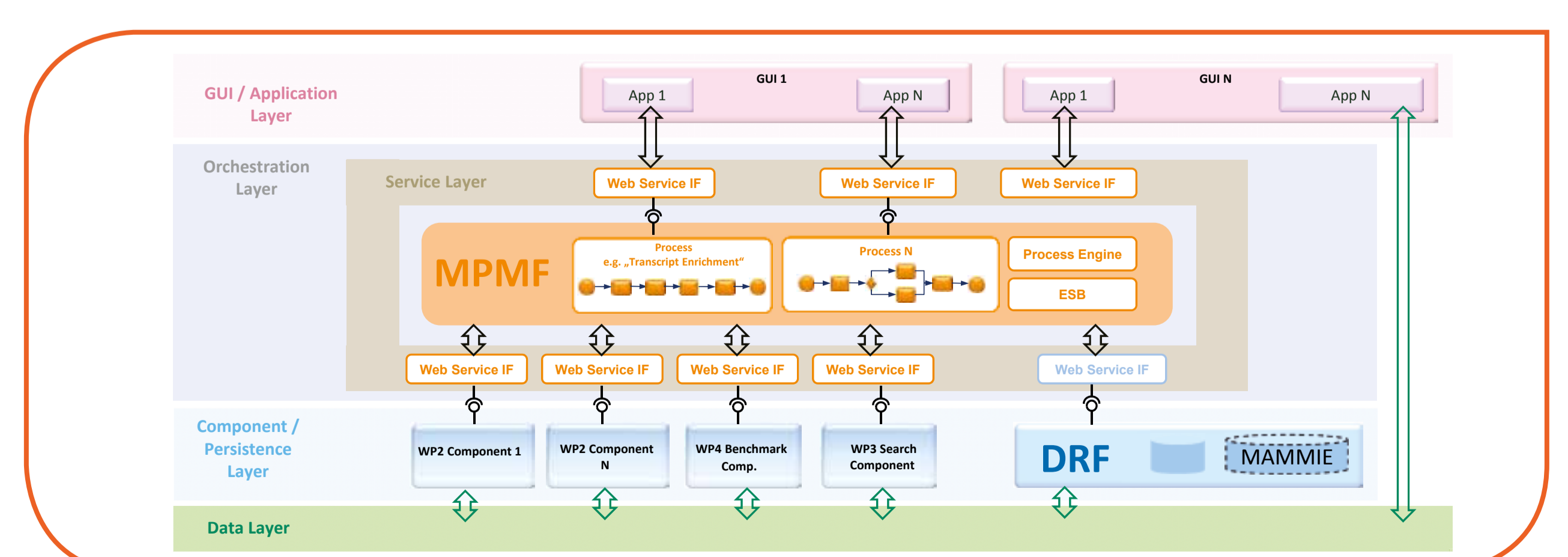


Figure 3: Technical System Design.