



A **D**igital **L**ibrary Infrastructure  
on **G**rid **E**Nabled **T**echnology

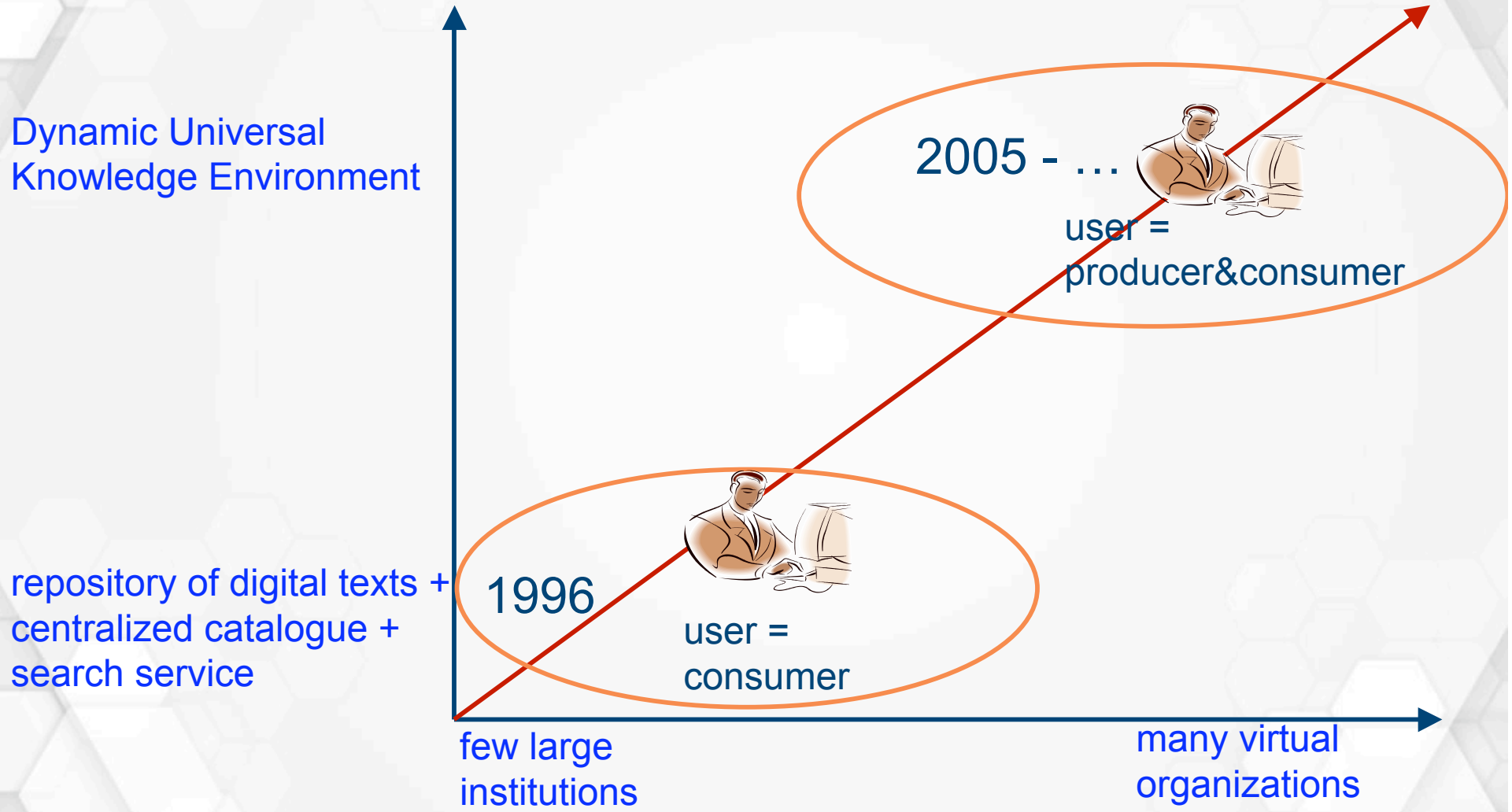
## DILIGENT

A testbed digital library infrastructure for  
supporting the activity of the researchers



Information Society  
Technologies

# The DLs evolution

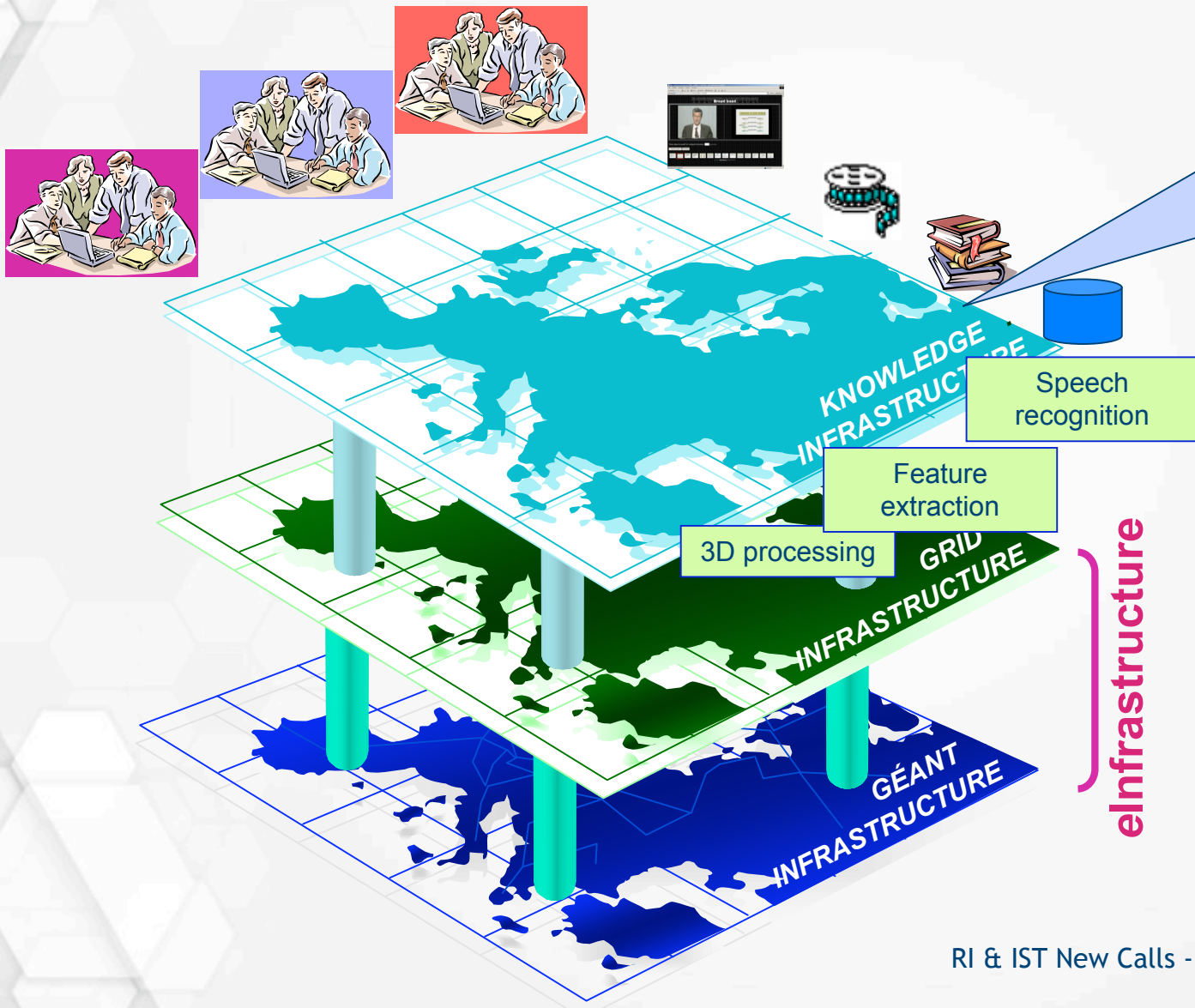


## Requirements for “new DLs”

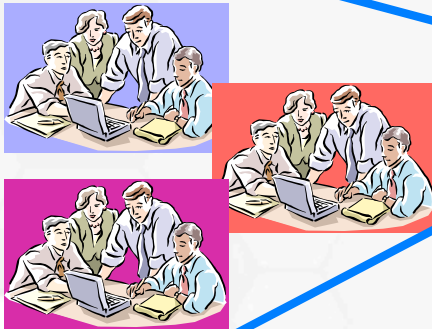
- Appropriate technology for supporting the creation, processing, retrieval, dissemination and preservation of multimedia and multi-type information objects
- Simple DLs creation and maintenance models
- Affordable cost

# Long term vision

**Diligent**



## Consumers



## DILIGENT DL infrastructure

Service A

Service B

Service C

DLCreation  
service

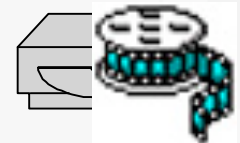
Service D

Service E

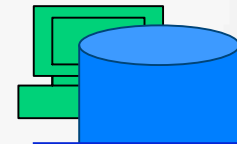
## Producers



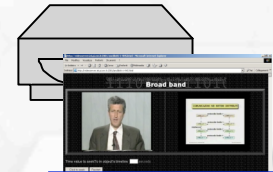
3D processing



simulation

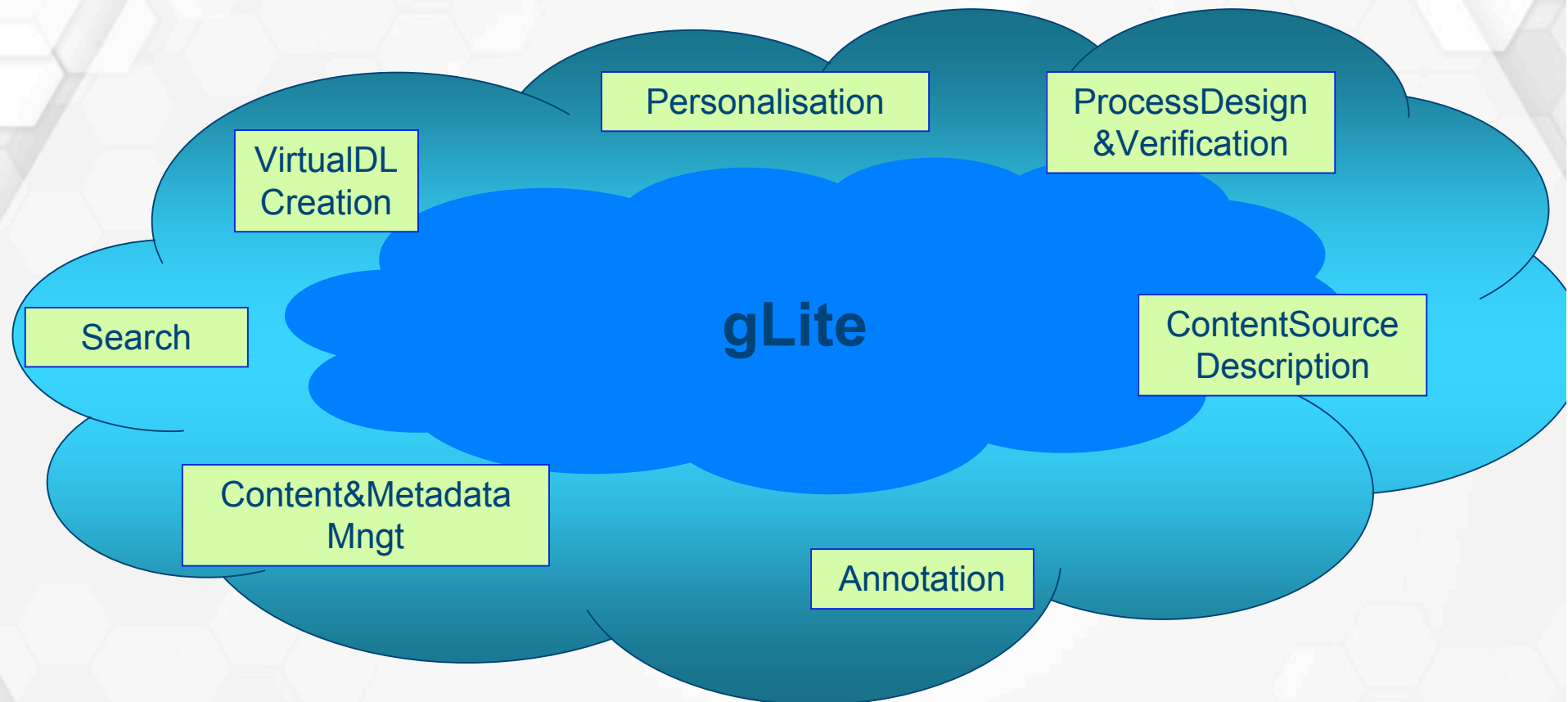


Feature  
extraction



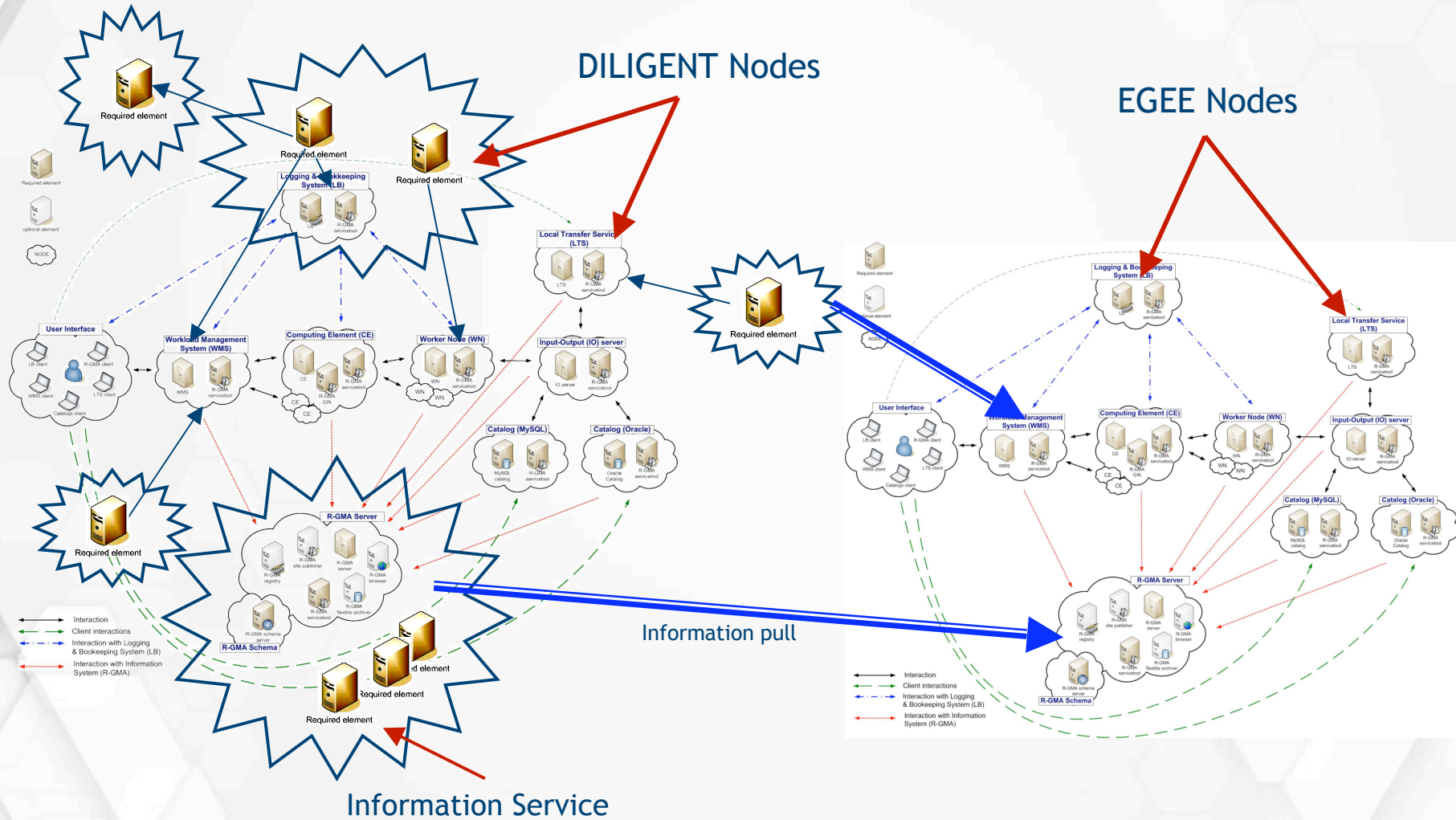
Speech  
recognition

## DILIGENT DL middleware



- The high computing and storage capabilities required to provide functionalities on digital information objects will be obtained by relying on a Grid infrastructure
- The DILIGENT project will develop specific DL application services and the services that are needed to manage them

# DILIGENT infrastructure



## Status of the project

- Commencement date: September 2004
- Duration: 3 years
  
- Requirement analysis (completed)
- Functional specification (completed)
- Architectural specification (on-going)
- Detailed design (on-going)
  
- Experimental prototype (on-going):
  - ◆ Creation of a DILIGENT gLite Infrastructure
  - ◆ Realization of simplified services for a DL on “Chemistry and Biology of the Mediterranean sea”

**More info**

**[www.diligentproject.org](http://www.diligentproject.org)**

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