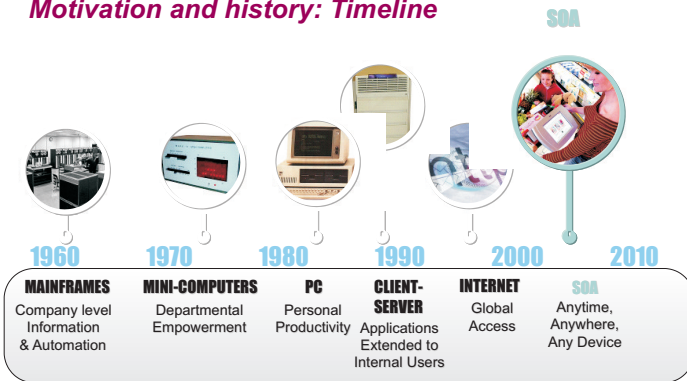
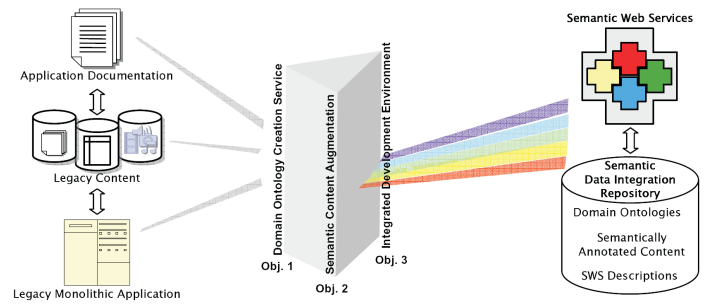


Motivation and history: Timeline



Transitioning Process



- Semi-automatic domain ontology creation from documentation and legacy content
- Semantic augmentation of legacy content and web service definitions
- Deployment through semantic web services and data integration repositories

Project Goal

Define a low-cost route to transitioning legacy systems to open semantic Service-Oriented Architectures (SOAs):

- Research Topics:
 - Bootstrapping Methodology to aid the transitioning process
 - Semi-automatic creation of ontologies
 - Automated methods for metadata creation and augmentation of legacy content
 - Distributed semantic repositories
- Transitioning Infrastructure
- 2 case studies to validate the RTD developments

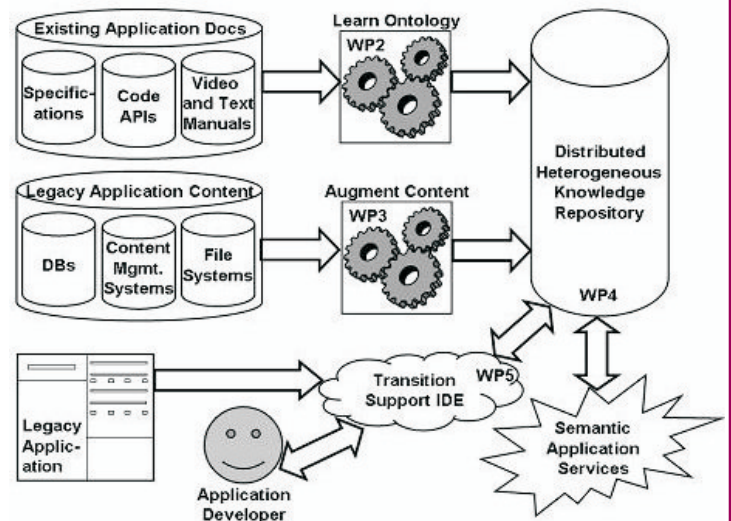
Potential Users

- Main Focus through the 2 case studies:
 - Product Lifecycle Management (PLM) in aerospace and automotive industries
 - Software applications maintenance and user support
- Other areas: tourism, life sciences, publishing, and competitive intelligence

Research and Technology Challenges

- **SWS bootstrapping** via semi-automativ acquisition of domain ontologies
- **Augmentaion and integration of legacy content** relative to the domain ontologies to enable ontology-based information access, including support for distributed semantic repositories
- **Innovative infrastructure** for transition legacy application to semantic- and service-based ones by automated supprt for the developer in creating SWS definations

Architecture



Key Results

Five major types of results:

1. methodological recommendations;
2. an integrated suite of software components, to include ontology learning services, legacy content augmentation tools, and scalable distributed knowledge stores;
3. an information dissemination programme;
4. contributions to standards and
5. an exploitation strategy, for the commercial partners

Partners

