

**METHODOLOGY FOR THE IMPLEMENTATION OF KNOWLEDGE MANAGEMENT
SYSTEMS**

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PHASES	ACTIVITIES	TECHNIQUES	EXPECTED RESULTS	COMPUTER SUPPORT TOOLS
PHASE I. Identification	<ul style="list-style-type: none"> Identify the conceptual blocks of knowledge Classify into ontological categories Define the target knowledge (knowledge requirements) 	<ul style="list-style-type: none"> Templates and questionnaires to identify blocks of knowledge Reference models concerning the target knowledge 	<ul style="list-style-type: none"> Conceptual blocks of knowledge Target knowledge Categories 	<ul style="list-style-type: none"> Office automation tools Modelling tools
PHASE II. Extraction	<ul style="list-style-type: none"> Extract knowledge from sources in order to define the input variables and categorise it Define the extraction and calculation procedures 	<ul style="list-style-type: none"> Templates to define the input variables Reference models for extracting and calculating target knowledge 	<ul style="list-style-type: none"> Set of input variables Extraction and calculation procedures 	<ul style="list-style-type: none"> Office automation tools Modelling tools
PHASE III. Representation	<ul style="list-style-type: none"> Establish the relations within the target knowledge Draw up the knowledge map 	<ul style="list-style-type: none"> Metamodelling (UML) Ontologies Conceptual maps 	<ul style="list-style-type: none"> Model of the Knowledge map 	<ul style="list-style-type: none"> Modelling tools Ontology engineering tools
PHASE IV. Processing	<ul style="list-style-type: none"> Develop the technological infrastructure supporting the knowledge map by following an object-oriented methodology for the development of computer systems 	<ul style="list-style-type: none"> BPM techniques ETL techniques Document/DBMS Data warehouse OLAP Data mining 	<ul style="list-style-type: none"> Knowledge portal (Executable knowledge map) 	<ul style="list-style-type: none"> BPM tools ETL tools Document/DBMS Data warehouse OLAP Data mining
PHASE V. Utilisation	<ul style="list-style-type: none"> Establish training and continuous improvement mechanisms among the members of the organisation Carry out maintenance and the feedback process on the knowledge management system 	<ul style="list-style-type: none"> e-Learning Groupware TQM ISO standard of quality 	<ul style="list-style-type: none"> Efficient use of knowledge within the organisation 	<ul style="list-style-type: none"> Office automation tools Modelling tools Learning tools

Fig. 1. KM-IRIS Methodology for knowledge management in an organisation.

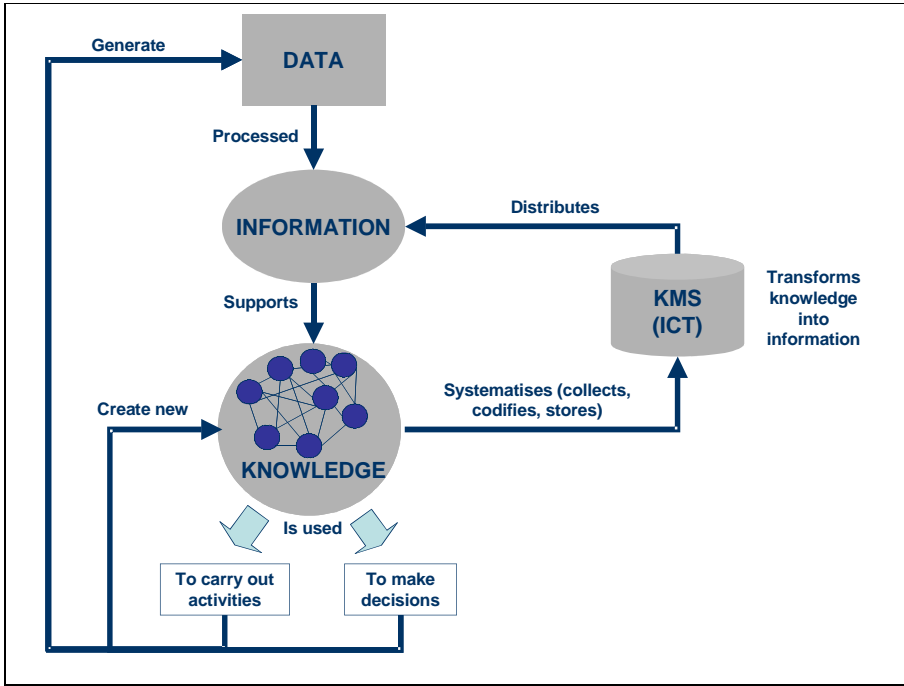


Fig. 2. KMS relation with information and knowledge.

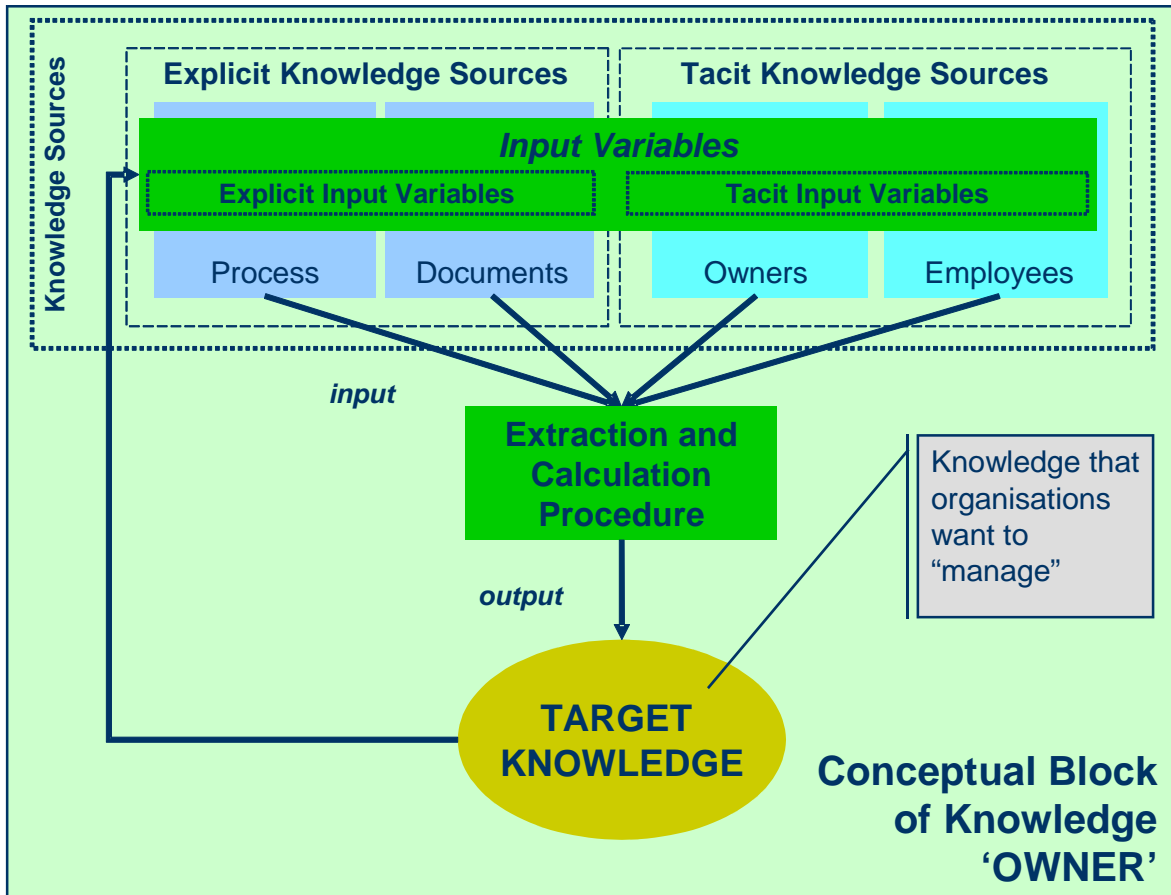


Fig. 3. Phase II of the KM-IRIS Methodology for knowledge management.

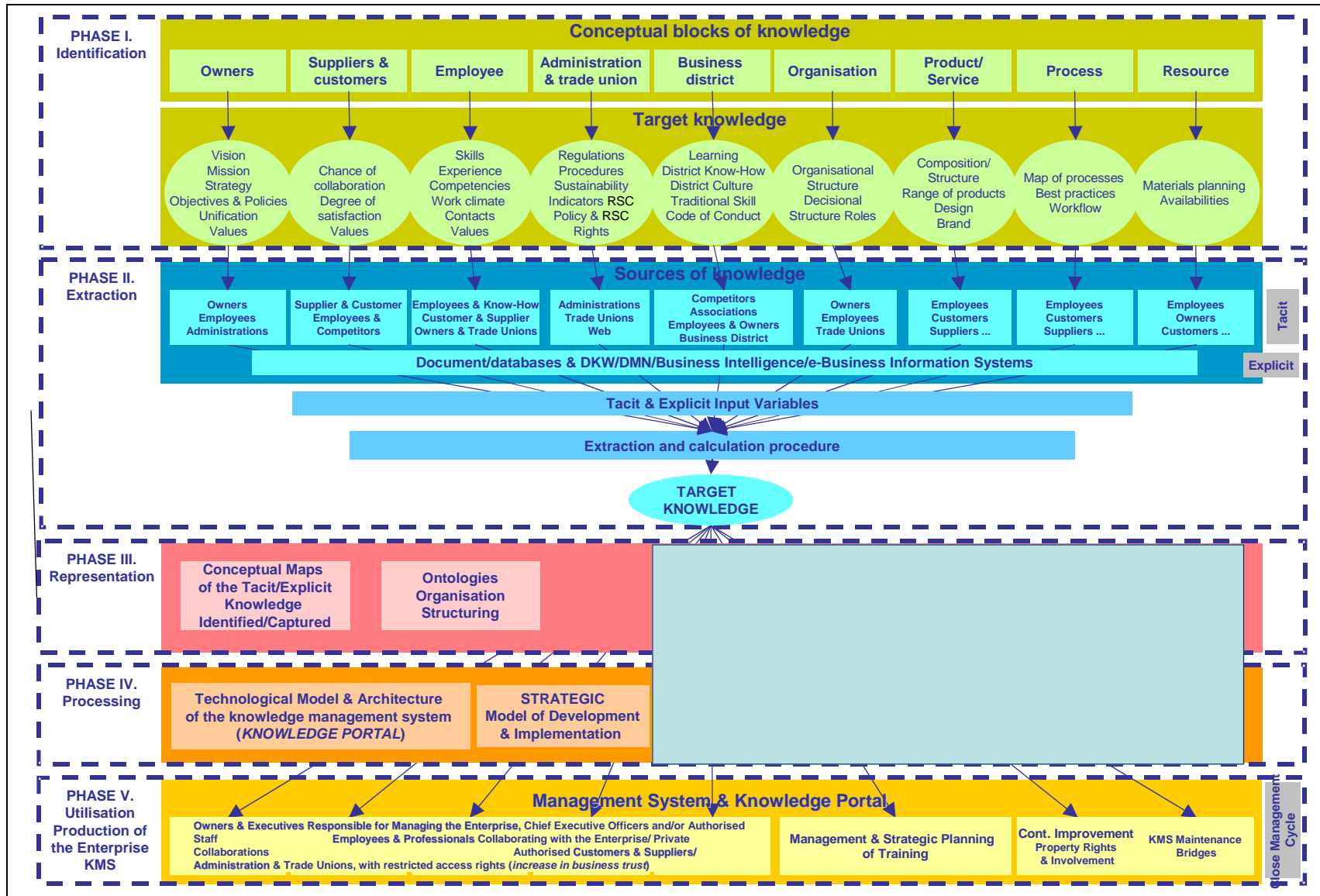


Fig. 4. Specialised version of the KM-IRIS Methodology for knowledge management in an enterprise.

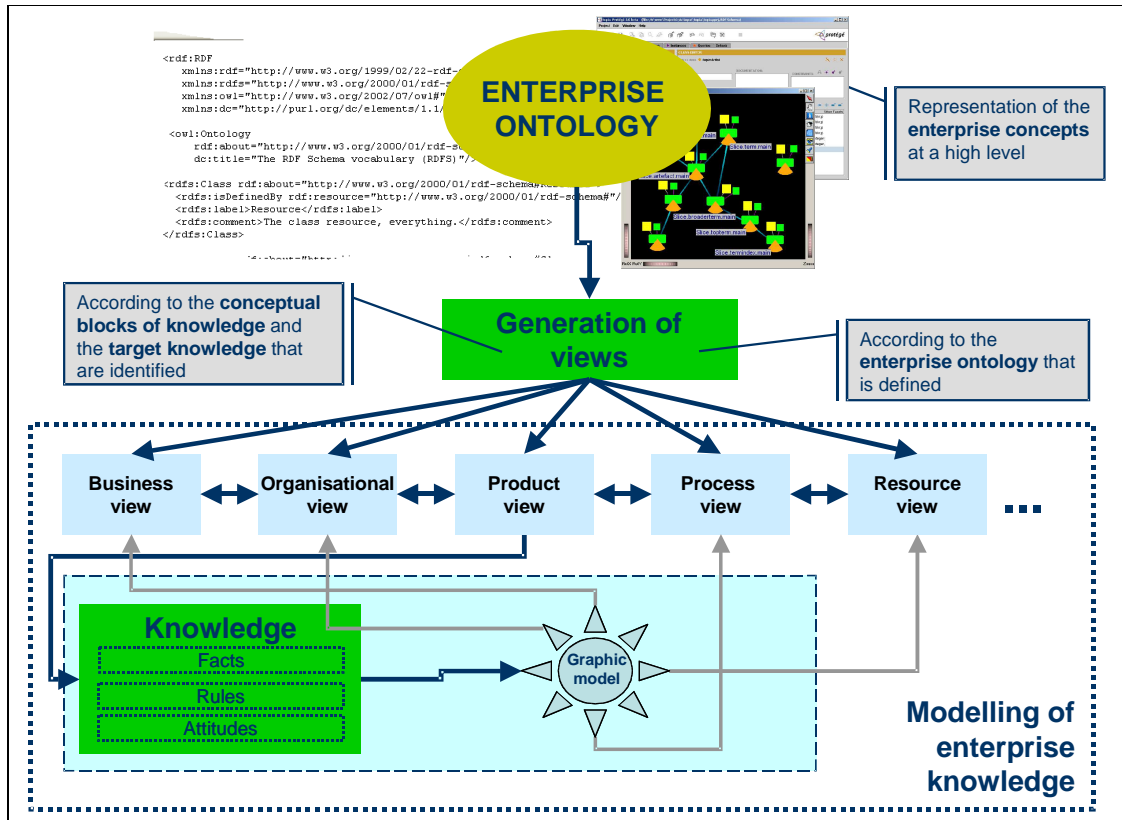


Fig. 5. Conceptual diagram for obtaining the map of enterprise knowledge at the CIM level.

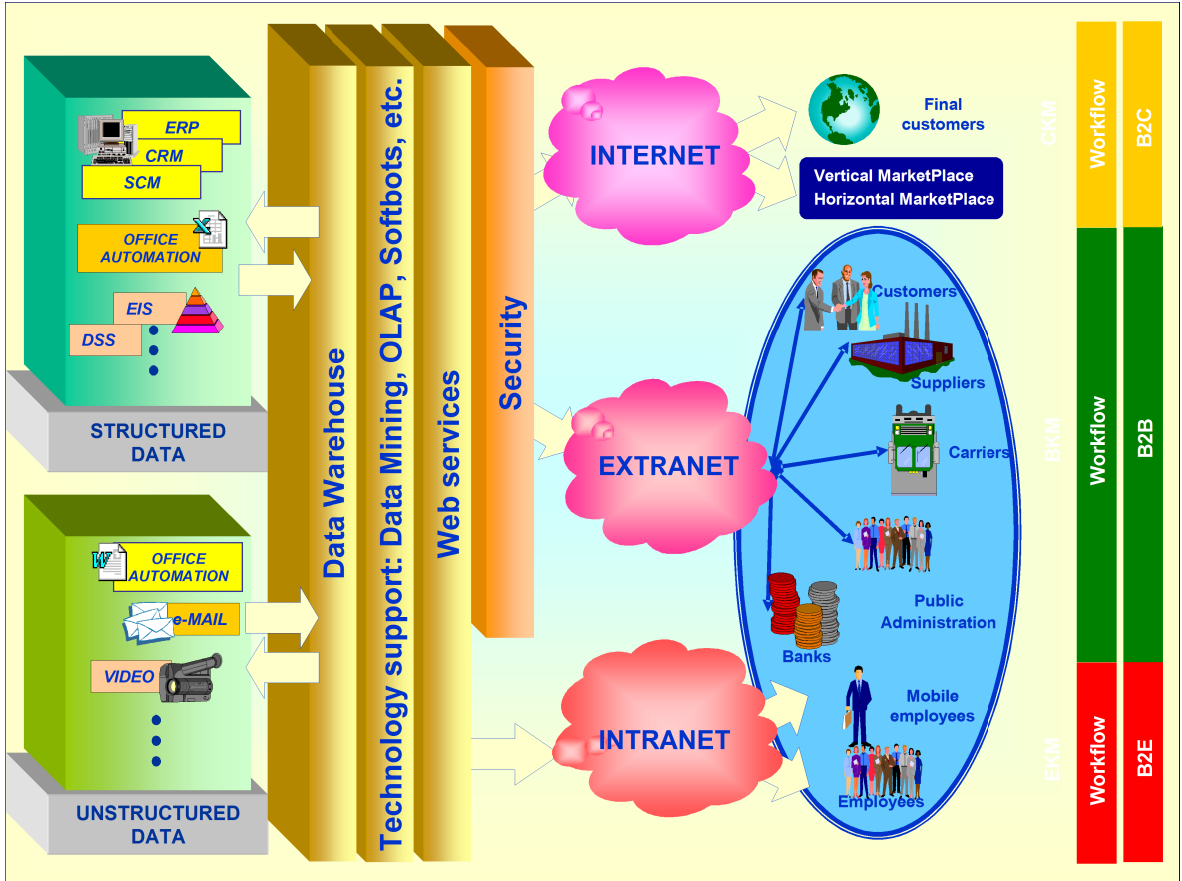


Fig. 6. Technological infrastructure proposed to support a knowledge portal.