### ARIS - Business Process Frameworks

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#### General Ideas

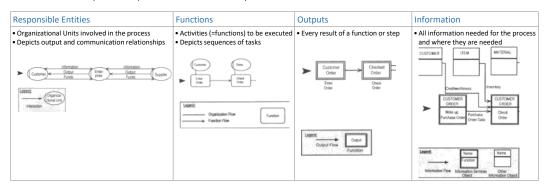
- ARIS = Architecture of Integrated Information Systems
   A Model for describing computer-aided information systems
   A business process is a continuous series of tasks

### **Business Process Modeling with ARIS**

### Different Types of Information in the Business Process Description

- 4 Types of Information show different Aspects of a Business Process

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   They can be displayed or not, depending on what information is needed
   Combined they display the process as a whole
   The System is based around the functions and all components interacting with it
   Systems are controlled by events (Event-Driven Process Chains (EPC))
   Classes describe the sets of information in a process
   Instances describe specific cases a process has been executed in reality



#### **ARIS House**

= Model of the different types of levels in business processes

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ARIS Views		ARIS Phase Model		Business Process Management	
Different types of views show different entities of the process					
		1. Strategic Situation Analysis	Examines the company's current state, goals, and environment to identify needs for change.	Level I Process Engineering	Business processes are modeled. Optimization, evaluation, and quality assurance.
	Describes the structure of the company and responsibilities.  Defines the information and		Strategic plans are made.	Level II Process Planning and Control	Current business processes are planned and controlled by process owners.
View Data View		2. Process Design (Conceptual Design)	All views are modeled with processes.		Scheduling, capacity planning, and activity-based cost analysis. Process monitoring Tracking the state of ongoing processes.
	data used in processes.  Shows what tasks and activities are performed.	3. System Design (Technical Design)	Translates process models into IT and system requirements (e.g. for databeses and	Level III Workflow Control Level IV	Objects (e.g. customer orders, insurance claims) are transferred between workplaces.  Pass the objects (e.g. documents) from one workplace to the next  Business process functions are executed using computer-aided applications.
Function					
View		l	networks)		
Control	Connects all other views into	4. Implementation	Implementation of	Application System   Simple word processing to complex software mod	
View	complete business processes.	5. Operation and	Monitors results and continuously optimizes		
Output	Describes the products or	Maintenance	processes based on performance feedback.		
View	services created by the processes.				
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## **Modeling Standards**

Principles of modeling in ARIS		Modeling Levels		Phases of Business Process Optimization	
Correctness	Model must follow correct syntax and semantics.     Reflects real system behavior.     Checked through simulations and rule-based validation.	Meta Level	type."  Contains designations used at the meta level.  Serves as the foundation for defining modeling elements.  Defines general classes and relationships describing business processes.  Forms the ARIS information model.  Provides structure and rules for modeling.	Preparatory Measures	Define project scope and preliminary goals. Set up project organization and steering committee. Train staff, document methods, and launch with a kick-off event.
				Strategic Planning	Align business processes with corporate strategy.     Define strategic goals and critical success factors.     Model target hierarchy and document BPO goals (quantitative and
Principle of Relevance	Include only elements serving the model's purpose.     Avoid unnecessary detail.     Keep complexity and effort low.				qualitative).
				As-is Study	Capture and document current processes using value-added chains and EPCs. Record organization, information objects, and systems. Identify weak points and optimization potential through criteria such as costs, time, red
Principle of Cost vs. Benefit	Modeling effort must match usefulness.				
no della controlla di	Focus on efficiency, value, and model lifespan.			Target Concept	Develop optimized target processes based on weak spot analysis.     Use reference models to speed up design.
Principle of Clarity	Model must be easy to read and understand.     Use sub-views for complex content.     Support user comprehension.				Simulate and evaluate "what if" scenarios.     Define new organizational structures and qualification needs.
				Design Specification	Plan IT implementation for target processes. Create an IT blueprint balancing processes, applications, and infrastructure.
Principle of Comparability	Use consistent framework and naming.				Develop migration and implementation plans with timelines and resources.
	Ensure same level of detail.     Align meta models for crosslanguage comparison.			Implementation	Execute IT and process changes through sub-projects.     Refine target processes and integrate them into software solutions.     Use prototyping to validate design and ensure user acceptance.
Principle of Systematic Structure	Integrate models from different views.     Use one unified meta model for consistency.			Regular Monitoring and Continuous Process Improvement	Monitor implemented processes and IT systems.     Measure performance with workflow and cost data.     Derive adjustments for ongoing optimization and continuous improvement.

# Knowledge Process Reengineering Procedures

Strategic Knowledge Planning	Aligns knowledge management with corporate strategy. Defines how knowledge initiatives support strategic goals, such as technological leadership. Focus on identifying relevant knowledge categories, improving knowledge sharing, documentation, and accessibility. Strategic targets, business processes, and knowledge categories are modeled.
As-is Study of Knowledge Processing	Captures and models the current state of knowledge management.  Business processes are modeled as EPCs, often based on existing process models.  Identifies what knowledge exists, who holds it, and how it is used or documented.  Model types  knowledge structure diagrams (which knowledge is relevant)  knowledge maps (who has what knowledge)  EPC (Event driven Process chains)
Analyzing the As-is Status	as-is models     to locate weaknesses and improvement potential.     Reveals missing strategic knowledge areas, knowledge monopolies, unused or redundant knowledge, outdated employee profiles, and poor IT integration.
Target Concept of Knowledge Processing	Designs improved processes and structures Adds functions for documenting, refreshing, and distributing knowledge. Eines enterprise-wide knowledge collection and sharing mechanisms. Specifies changes in organizational design and employee knowledge profiles. Establishes IT and communication system requirements to support knowledge flow. Emphasizes business-driven, not technology-driven, solutions.
Enterprise and Staff Implementation Concept	Develops and executes training programs for new processes and systems.
IT Implementation Concept	Defines technical requirements and structures for IT     Integrates tools like intranets, groupware, and document management into one framework.     ARIS models as navigation structures     Establishes consistent content organization, interfaces, and services such as discussion forums and information subscriptions.
Realizing Implementation Concepts	Executes training and system rollouts. Implements and monitors process and structural changes. Tests new systems and processes, adjusts as needed. Establishes a continuous improvement loop for knowledge processes. Keeps business and knowledge models updated to maintain transparency and adaptability of knowledge management.