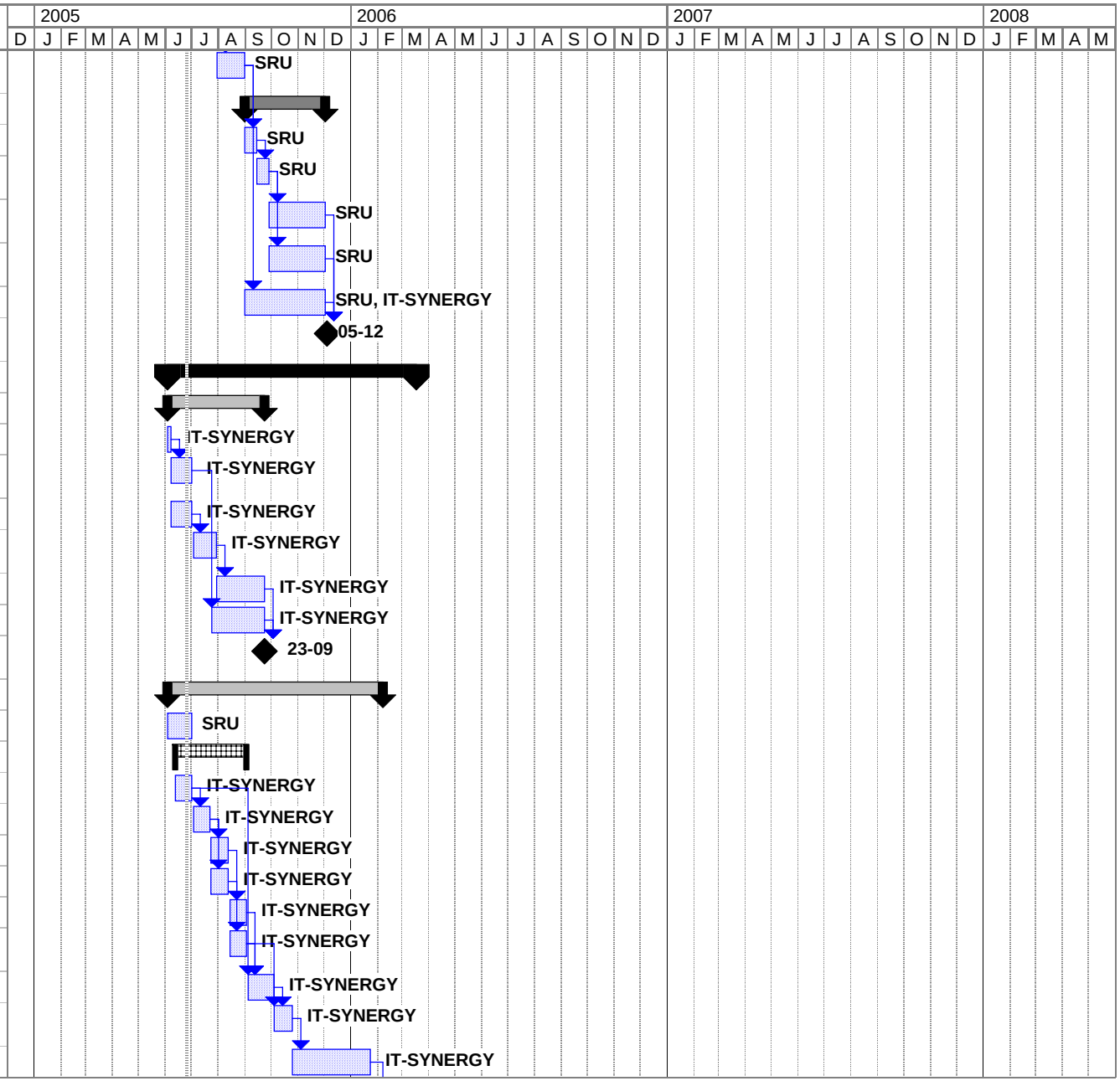
Activity - Schedule

Ref No.	Task Name
I-1.1.1, II-1.1, III-1.1	**PMU Operation and Management**
I-1.1.2	**Establishment of PMU**
	Selection of staff
	Purchase of equipments
	Preparation of the Work Plan
I-2.1.1	**Validation of System Architecture, Programming of DSS Code and Completion of Spatial Units Definition**
	Analysis of the architecture developed during the extension phase
	Final Definition of Programming Language to be used in the System
	Final Definition and Conceptualization of the Components of the Schematic Network
I-2.2.1	**Completion of Digital Map or Egypt**
	Definition of Requirements
	Gathering and inventory of maps and information from other entities
	Development of the Schematic Network
	Development of the Geographic Representation maps (Components identification in the map)
	Validation and integration of maps from the different sources
	Integration and Validation of the Base Maps completed
	Gathering Complementary geographic data information: Roads, Political Boundaries, contours, Urban area, cultural area, etc.
	Final Presentation of the Digital Map of Egypt
I-2.2.2	**Data Gathering Campaign**
	Definition and Strategy
	Preparation of the Plan for the Data Gathering
	Gathering Information and data from the Monitoring Stations
	Delivery of the Data Obtained in CDs with document Description
I-2.3	**Development of Models**
	Definition of the number of preliminary models and subsystems
	Explore the Sources of Water, Infiltration & underwater flow behavior and related transformation functions

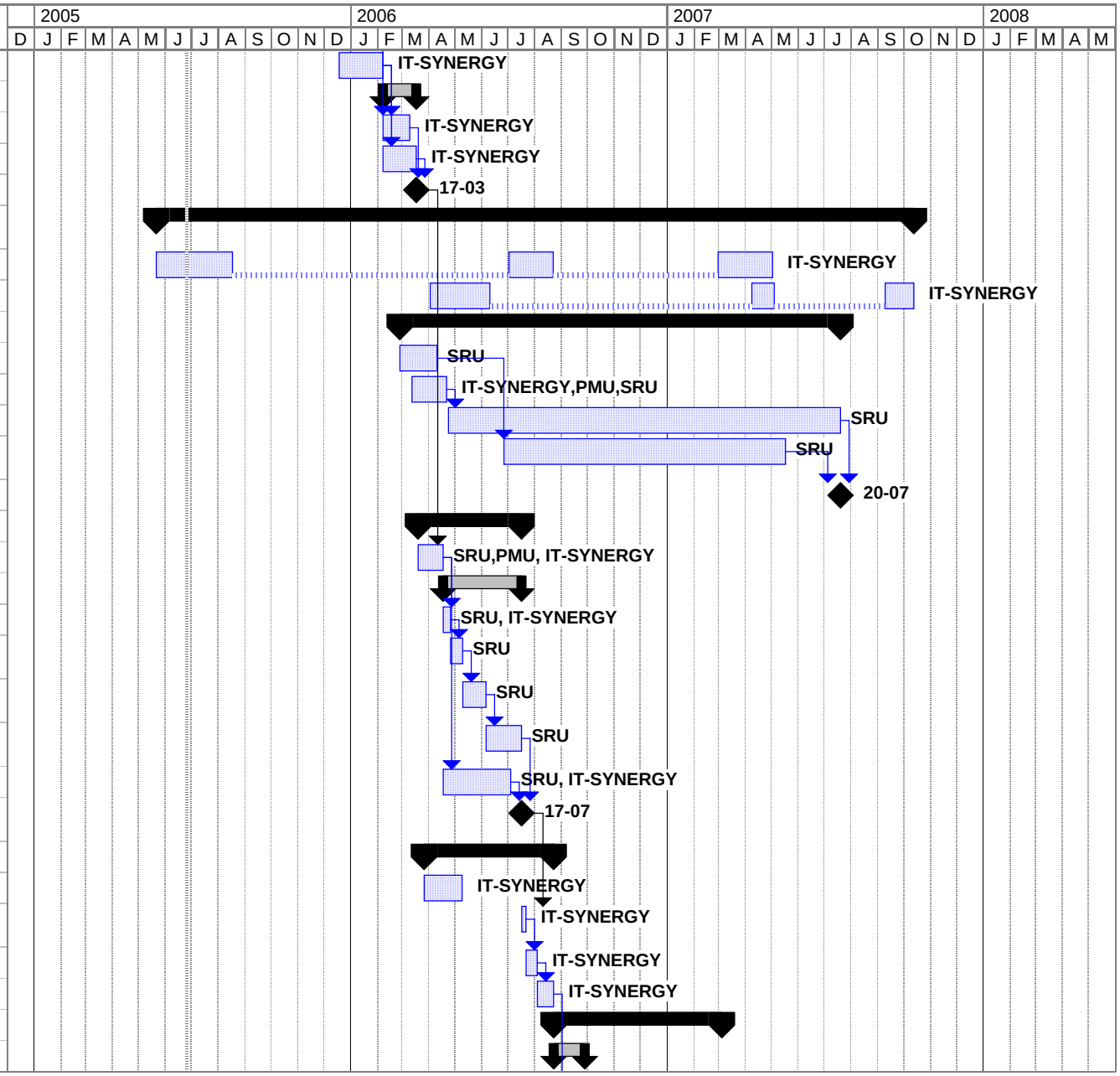
Activity - Schedule

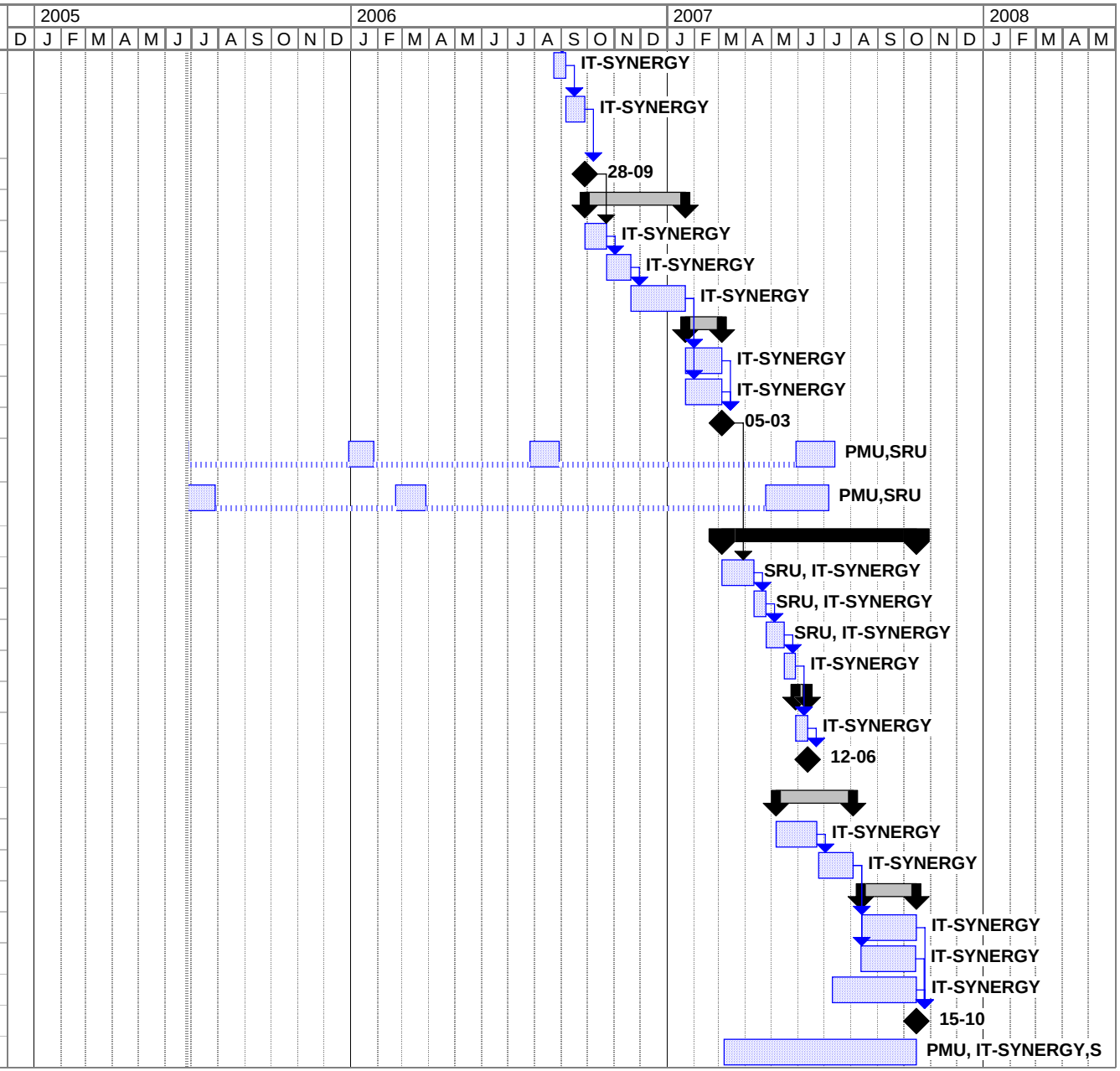
Ref No.	Task Name
	Urban and other Response Units water behavior, transformation functions and basic data
	Complete Design of the Water Demand Model
	Use Cases identification for this specific Model
	Definition of Parameters needed to implement the model
	Design of the Equations and Functions that will rule in this model
	Definition of Policy, Settings and Limitations of the Model
	Development of the Documentation of the Model
	Internal Meeting with the presentation of the Model Documents
I-2.4	**Development of DSS Component for Alpha Version**
	Design Phase
	Study of Hardware Requirements definitions
	Software tools and technology selected to develop the Application
	Overall Design of the System Architecture
	Design and definition of the Objects Components, basic properties and methods of the application
	Design of Graphic User Interface LayOut
	Preparation of the Software Requirements Document
	Presentation of the Software Requirements and Design Documents
	Implementation Phase
	Pre-Implementation Java Training for the SRU Staff
	Preliminary Installation and Basic Infrastructure
	Linux Server Installation and Configuration
	Installation of Postgresql, PostGIS and Java
	Installation of development workstations
	Installation of a Version Control System
	Installation of a Bug Tracking System
	Installation of different tools to maintain cooperative development (IRC Channels, Forums, etc.)
	Implementation of GIS Engine
	Implementation of the Base Application Structure and Components interaction
	Implementation of DSS Alpha Core



Activity - Schedule

Ref No.	Task Name
	Implementation of the Water Demand Model
II-2.2.1	**Testing Phase**
	Bug Tracking and Corrections
	Strength tests
	Presentation of the DSS Alpha Version
I-2.5.1, II-2.4.1	**Training of DSS System**
	Staff Training On the Job
	Technical Training
II-2.1	**Data Collection on Water flows and other components**
	Adjustment of the Previous Design
	Preparation of the New Data Gathering Plan
	Metering Station data Compilation for System calibration
	Gathering specific data for the different models (Water Quality, etc.)
	Presentation of the Data in CD and Document Description
II-2.2.2	**Development of Other Models**
	Definition of new additional Models
	Complete Design of the selected Models
	Use Cases identification for this specific Models
	Definition of Parameters needed to implement the models
	Design of the Equations and Functions that will rule in the models
	Definition of Policy, Settings and Limitations of the Model
	Development of the new Models Documents
	Presentation of the Documentation of the new Model Documents
II-2.3.1	**Finalization of Interfaces**
	GUI Integration with modeling and GIS engine
	Redesign of the Interfaces for possible adjustments and changes based on the previous experience
	Additional interfaces for the new modules
	Interface Design for the New Models
II-2.3.2	**DSS Beta Version**
	Design Phase



Activity - Schedule

Ref No.	Task Name
	Design of New features and Updates for DSS Application
	Redesign the object component and architecture in order to support the new additional features and models
	Presentation of the New Design Documents
	Implementation Phase
	Implementation of the redesigned interfaces
	Implementation of the New Features of DSS Application
	Implementation of the new proposed Models
	Testing Phase
	Strenght Tests
	Correction and Fixing of posted bugs
	Presentation of DSS Version 2
I-2.5.2, II-2.4.2, III-2.3.2	**Local Conferences and Workshops**
I-2.5.3, II-2.4.3, III-2.3.3	**Overseas Conferences**
III-2.1.1	**DSS Calibration**
	Review of the Models
	Review of the Different Scenarios
	Review of the Models Design
	Review of new features for DSS Application
	Design Phase
	New Features Design
	Presentation of the Reviewed Design Documents with new features
	Implementation Phase
	Implementation of the new Features
	Implementation of the corrections in the models
	Intensive Testing Phase
	Intensive Strenght Tests
	Bug Tracking and Corrections
III-2.2.1	**Preparation of Final Documentation**
III-2.2.2	**DSS Final Release with complete Documentation**
III-2.3.1	**Disemination and external training**