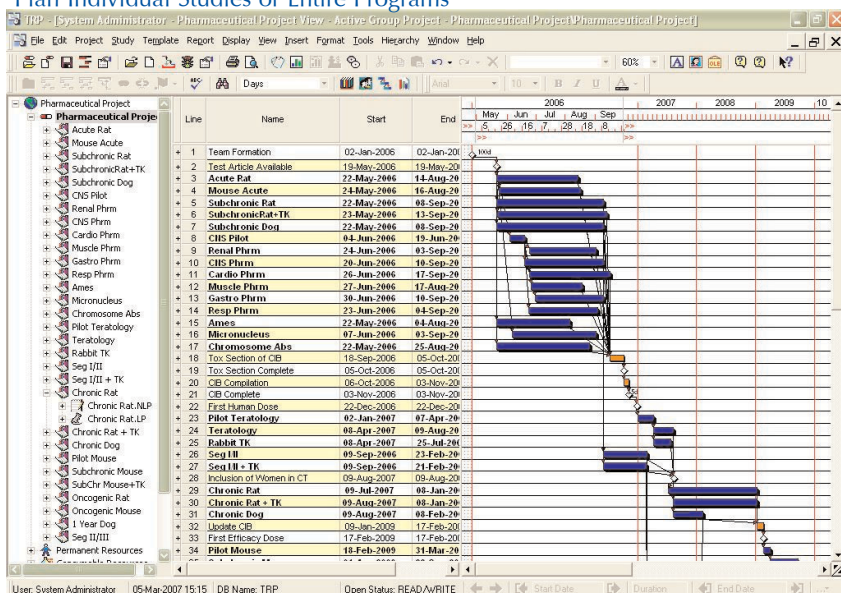


Improve Resource Management and Planning

Pharmaceutical companies, Chemical companies, and CROs, face constant pressure to improve timescales with existing resources, while reducing costs. A key part of the solution to these challenges lies with improved resource management and planning.

Instem has created TRP™, a Resource Management and Planning solution that effectively manages studies, resources, equipment, animals and facilities to enable improved study throughput and increased scientific up-time with less administration.

Plan Individual Studies or Entire Programs

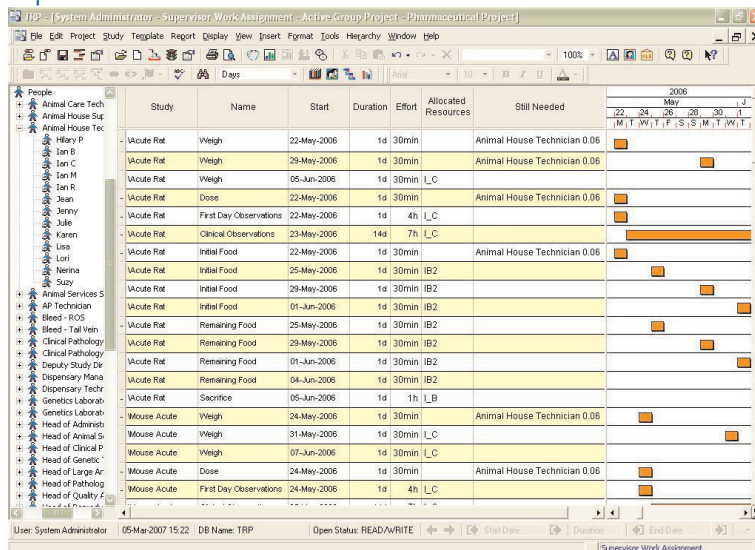


There are many general planning tools available, but only Instem has been able to leverage its unparalleled experience in the Toxicology marketplace to build a solution specifically targeted at safety assessment processes.

Unlike most planning tools TRP™ incorporates terminology, project structures and workflows specifically designed for organizations involved in carrying out safety assessment studies. TRP™ understands the specialist terminology, resources, processes, workflows and Study based approach used within the Toxicology laboratory.

TRP™ differentiates between the live phase of a study, where activities are determined by, and must adhere to, a

Supervisors Can Allocate Work To Staff



TRP™ enables you to:

- Plan entire safety assessment programs or single studies.
- Plan individual milestones or individual tasks.
- Plan resources according to specific skills, individual staff or departmental workloads.
- Update the plan based on actual task durations, or just on milestone completion dates.

GLP protocol, and the preparatory and reporting phase where the tasks are not governed by a GLP protocol and more conventional planning techniques can be used.

Study plans can be quickly and simply created from templates, which include a standard set of tasks and resource usage, depending on the project type.

Flexible Reporting Options

Using TRP™ you can generate a wide variety of reports listing current and planned workload, by study, sponsor, facility, study director, time period, department, resource - and these are just the options provided out of the box. You can also configure your own queries and reports as needed. Data can be easily exported to Excel so that you can analyze or present the data in any way you like.

In addition to reports showing current and future work, you can also analyze the past. For example, you can generate metrics of the amount of work completed, staff utilization, proportion of milestones met on time, delayed and completed early, actual effort versus planned effort.

Seamless Integration

TRP™ can optionally be integrated with the world leading **Provantis™** integrated preclinical system, so that changes to the study protocol can automatically update the resource plans, and, within the constraints of GLP, vice versa.



Resource Planning

TRP™ allows planners and group leaders to see the workload of their staff, their utilization rates and periods that are currently unassigned. TRP™ can assign general cross-trained staff to tasks, or search for staff with the correct skills, and can take account of background tasks and different work rates.

TRP™ also empowers you to:

- Plan staff workloads taking account of regular non-project work, vacations, planned down time and overtime.
- Identify the best time to start a study based on the sponsor's requested time line and the availability of resources.
- Examine the availability of key personnel, study rooms, specialized equipment or any other resource.
- Easily reschedule plans due to unexpected events, such as late arrival of the test article, or shifting priorities within the organization.

Sample Milestone Status Report for Quality Assurance

Study	Study Type	Sponsor	Milestone	Date	Late	By (Days)	Status
Acute Rat	14 Day Single Dose	GenPharm Inc	Report To Sponsor	14-Aug-2005	LATE	2	
Chronic Dog	Chronic	GenPharm Inc	In-life tables to QA	15-Nov-2005			
Chronic Dog	Chronic	GenPharm Inc	Clinpath to QA for review	16-Nov-2005			
Chronic Dog	Chronic	GenPharm Inc	Pathology audit issues	16-Nov-2005			
Chronic Dog	Chronic	GenPharm Inc	Analytical report to QA	16-Nov-2005			
Chronic Dog	Chronic	GenPharm Inc	Analytical audit issues	16-Nov-2005			
Chronic Dog	Chronic	GenPharm Inc	In-life audit issues	16-Nov-2005			
Chronic Dog	Chronic	GenPharm Inc	QA audit issued	16-Nov-2005			
Chronic Dog	Chronic	GenPharm Inc	Return to QA	16-Nov-2005			
Chronic Dog	Chronic	GenPharm Inc	Clinpath audit issues	19-Nov-2005			
Chronic Dog	Chronic	GenPharm Inc	Path tables to QA	20-Nov-2005	LATE	1	
Chronic Dog	Chronic	GenPharm Inc	Report to QA	20-Nov-2005			
Chronic Rat	Chronic	GenPharm Inc	Analytical report to QA	14-Feb-2006			
Chronic Rat	Chronic	GenPharm Inc	Analytical audit issues	11-Mar-2006			
Chronic Rat	Chronic	GenPharm Inc	In-life tables to QA	08-May-2006			
Chronic Rat	Chronic	GenPharm Inc	Clinpath to QA for review	29-May-2006			
Chronic Rat	Chronic	GenPharm Inc	In-life audit issues	30-May-2006			
Chronic Rat	Chronic	GenPharm Inc	Clinpath audit issues	19-Jun-2006			
Chronic Rat	Chronic	GenPharm Inc	Path tables to pathologist	09-Jul-2006			
Chronic Rat	Chronic	GenPharm Inc	Path tables to QA	17-Jul-2006	LATE	15	Peer review delayed
Chronic Rat	Chronic	GenPharm Inc	Pathology audit issues	06-Aug-2006			
Chronic Rat	Chronic	GenPharm Inc	Report ready for peer review	28-Sep-2006			
Chronic Rat	Chronic	GenPharm Inc	Edits to RC	04-Oct-2006			
Chronic Rat	Chronic	GenPharm Inc	Report to QA	15-Oct-2006			
Chronic Rat	Chronic	GenPharm Inc	QA audit issued	30-Oct-2006			
Chronic Rat	Chronic	GenPharm Inc	Return to QA	07-Nov-2006			
Chronic Rat + TK	Chronic	GenPharm Inc	Analytical report to QA	13-Feb-2006	LATE	20	Jim out sick for two weeks
Chronic Rat + TK	Chronic	GenPharm Inc	Analytical audit issues	08-Mar-2006			
Chronic Rat + TK	Chronic	GenPharm Inc	CP review complete	13-Mar-2006			
Chronic Rat + TK	Chronic	GenPharm Inc	In-life tables to QA	07-May-2006			
Chronic Rat + TK	Chronic	GenPharm Inc	Clinpath to QA for review	08-May-2006			
Chronic Rat + TK	Chronic	GenPharm Inc	In-life audit issues	29-May-2006			
Chronic Rat + TK	Chronic	GenPharm Inc	Clinpath audit issues	30-May-2006			
Chronic Rat + TK	Chronic	GenPharm Inc	Path tables to QA	11-Jul-2006			
Chronic Rat + TK	Chronic	GenPharm Inc	Pathology audit issues	01-Aug-2006			
Chronic Rat + TK	Chronic	GenPharm Inc	Report ready for peer review	24-Sep-2006			
Chronic Rat + TK	Chronic	GenPharm Inc	Edits to RC	03-Oct-2006			

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