

# Micro Planner **X-Pert**

**Powerful Software for  
Discerning Project Managers**





## What is *Micro Planner X-Pert*?

*Micro Planner X-Pert* is a powerful project management program developed to enable you to take full advantage of the power of the very latest computer technology. It is designed to be used by newcomers but offers sophisticated facilities to delight even the most discerning project manager.



A prime objective in the design of the software is to provide a simple and efficient man-machine interface. We believe that you will find it the most responsive project management tool that you have ever used. It follows a logical methodology, is friendly and intelligent, knows its facts and is quick to appreciate any potential problems in your project.

Whatever your present planning tool - computer, pencil and paper or guesswork, *X-Pert* will enhance your planning capabilities and productivity. Control of even the smallest project can be dramatically improved - even the process of entering the model into the computer can help you to refine and understand your objectives.

With *X-Pert* you can present even the most complex project in the form of a clear and concise visual model and then interpret that model to control resources, monitor progress, control costs and analyse efficiency.



*X-Pert for Windows*



*X-Pert for Macintosh*

## What is it for?

*Micro Planner X-Pert* is designed with the important aspects of monitoring and control as major objectives. These can be summarised like this...

- **CONTROL OF PROJECTS:** to constantly organise and monitor complex projects, producing schedules and reports which people understand.
- **CONTROL OF TIME:** to figure out feasible deadlines and show how to meet them. To identify those operations which are critical.
- **CONTROL OF RESOURCES:** to smooth out workloads for increased efficiency. To identify critical, insufficient or excessive resources.
- **CONTROL OF COSTS:** to calculate the costs of running the project. To identify how fixed costs or overheads increase if the project is delayed.
- **PROGRESS CONTROL:** to track and record actual achievement of project operations and to highlight progress slippage and problem areas. To compare Actual Costs with Earned Values to control against budgets. To analyse the planning of corrective action.
- **SIMULATION:** to explore possible alternatives in "What-if?" or "Where do we go from here?" situations.

## Why Micro Planner X-Pert?

Planning is a vital part of project management but it is important to understand where the planning process finishes and the control or management process takes over.

The disciplines which differentiate serious management from simple planning are those concerned with:

- Setting Cost, Resource and Time baselines.
- Monitoring progress against those baselines.
- Taking remedial action and rescheduling.
- Reporting and communicating management intentions.

*Micro Planner's* strengths in handling these disciplines is what sets X-Pert apart from ordinary planning packages.

### General Benefits

- Better control of time and resources saves money and increases margins.
- Delivery dates or other deadlines can be reliably forecast — and met.
- Increased communication from easy-to-read reports helps to avoid confusion.
- Confidence is enhanced as risks are reduced.
- Excellent value for money: low cost for a complete system when compared with similar functionality elsewhere.
- Opportunities for greater involvement of the whole project team in the actual planning process.
- Ability to manage in a multi-project environment (programme management).

### Ease of use without compromise

Although it has arguably the most powerful and sophisticated analysis engine on the market, X-Pert is designed for ease of use - to be flexible and responsive to your requirements. After all, you need to be in control of your project right from the start - not wrestling with the software!

The X-Pert approach is to confront the complexities of project scheduling in order to focus on solutions. Rather than simplify the techniques it creates an intuitive graphical environment which provides a unique overview of your project data.

X-Pert embodies a disciplined approach which enables you to use it as the cornerstone of your Project Management quality procedures. It does not duck out when the going gets tough.

Beginners can use the software at a simple level - to “hit the ground running”. The more sophisticated features can remain out of sight to avoid confusion but as your knowledge of the package increases, you will not run out of power to tackle the most complex projects.

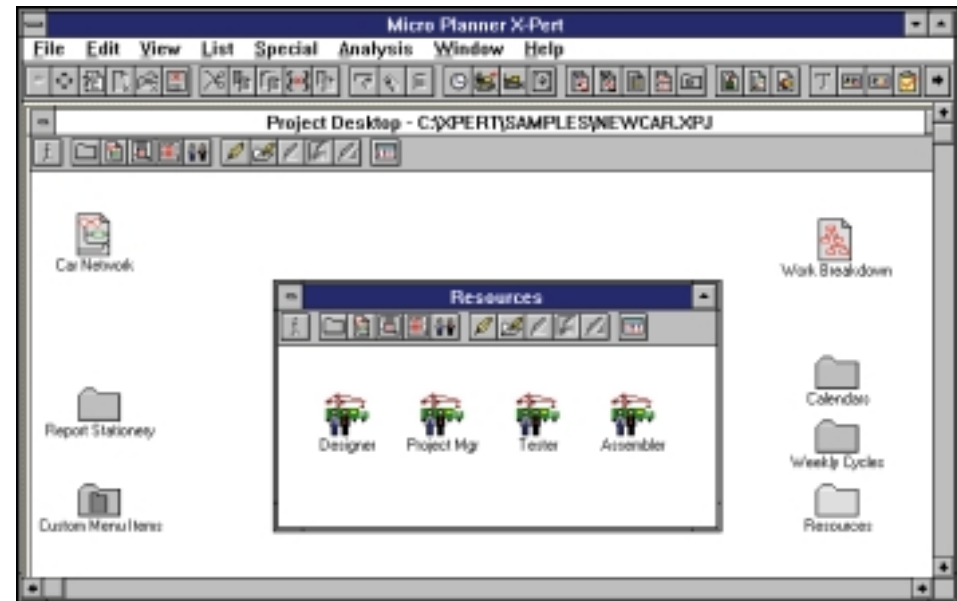
### Graphical Visibility

X-Pert provides a unique “desktop” approach to the management of your projects. The desktop window is laid out with icons and “folders” providing mouse access to all the information in the project.

In addition to the first Subproject icon, Work Breakdown icon and five folders provided in a new project, you can create new subprojects, new folders and icons, name them to suit your needs, and even nest folders inside other folders. Naturally, since folders are used for filing information about your project, you can decide where you wish to store items - networks, calendars, resources, reports etc..

The Custom Menu folder provides a quick and easy method for selecting frequently used items, such as a weekly status report that you may have designed yourself. Items stored in this folder appear as a Custom Menu item accessible from the View menu.

X-Pert gives you a unique overview of your project, empowering you to experiment with alternative schedules and adapt your schedule to accommodate the most unexpected circumstances.



### Multi Platform

*Micro Planner X-Pert* is available for computers running both Windows and MacOS. Both systems share the same features and capacities but the user interface has minor differences to conform to Windows or Macintosh standards wherever possible.

## Multiple Projects

If your organisation needs to manage a number of projects simultaneously or if there is a need for collaboration between a number of groups working on the same project you will find that X-Pert rises to the challenge:

### Programme Management

When multiple schedules are running in parallel with each other, they can be entered as distinct network diagrams and segregated using X-Pert's labelling system. During analysis, the program is able to take the requirements of all schedules into account, with the facility to impose specific priorities for particular schedules or tasks.



*Multiple projects sharing the same resource pool..*

X-Pert's ability to copy and paste sections of network from one place to another or to transfer whole subprojects from one project to another enable you to store libraries of standard plans or recycle previous plans.

The reporting facilities enable you to prepare reports for individual projects as well as the whole workload while integrated results for resource requirement or cash flow are also available.

## Exporting and Importing

In addition to its facilities to move information around from project to project, X-Pert also has Export and Import features which allow it to communicate with other software - typically databases or spreadsheets.

Using basic data files which can be almost universally read, X-Pert exports selected task or cost data with specific fields. Using similar file formats, X-Pert is also able to import new tasks or update existing tasks from other software.

It is therefore possible to create a scenario, for example, where project data may be updated to include actual cost information which has been generated by external financial software.

## Collaboration

X-Pert has particular features which make it ideal for collaboration on large multi-site or multi-departmental projects.

Self contained project models can be created at each site using the resources at those sites and subject to different project management teams if necessary. However, where those different disciplines interface with each other, X-Pert has a unique feature to link projects together from one project file to another. This linking can take place across local or wide area networks or even from mailed-in floppy disks.



*Collaborative projects with their own resources and management but with "cross site" hot links to other projects.*

Where there is a need to consolidate data from various disciplines then X-Pert is able to merge data from each site to form one large multi-project file where results from each section can then be viewed as a whole or rolled up into a single Work Break-down Structure.

While it is desirable that all parties collaborating together should be using X-Pert, it is possible to consolidate projects with varying degrees of precision from other programs including *Micro Planner Manager*, *Micro Planner Version 6* or *Microsoft Project*.



# Creating the Project

## Logic Networks

Unlike many simple planning packages which rely on Gantt chart data entry, *Micro Planner* is designed to assemble projects as logic networks (sometimes referred to as PERT charts). This is a more professional approach which, as projects become more complex, provides greater discipline and proves easier to understand and manipulate.

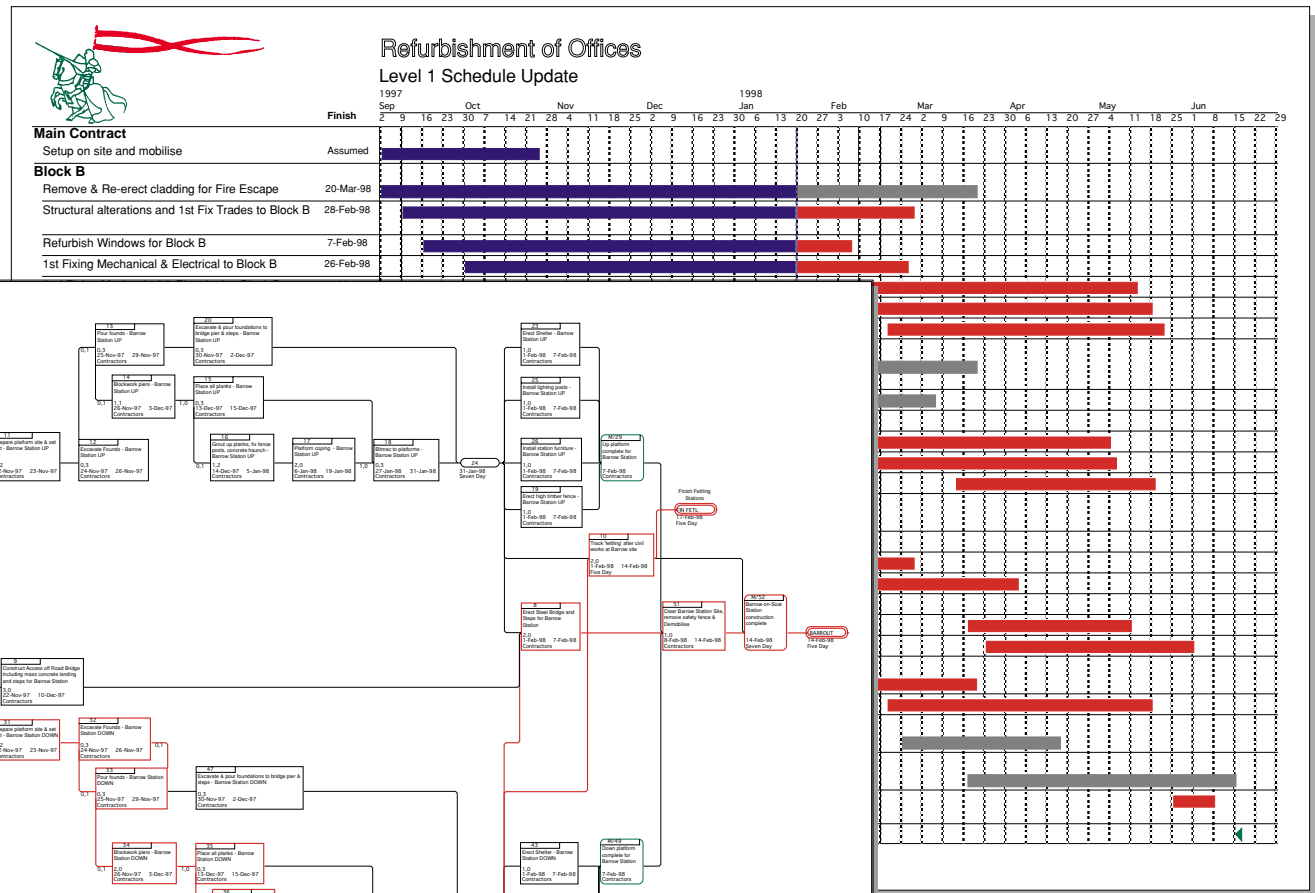
Gantt charts are, of course produced automatically as presentation reports and can be used to add progress or modify durations.

There are two different techniques for drawing logic networks, Precedence or Activity-on-Arrow. X-Pert is one of the very few packages available which offers a choice of both techniques. It is the only package which can use both techniques within the same project.

## Easy drawing

X-Pert's unique networking approach allows you to draw the network on screen more easily than using pencil and paper! Electronic drawing windows called Subprojects allow you to assemble networks of inter-linking operations which in turn can be linked to other subprojects. Networks produced on screen can be printed, retaining the layout in the same form as it was entered.

Logic networks provide a powerful overview of the challenges facing a project and X-Pert's clear view and responsive power allows project team members to work together at a computer screen to cooperate at the heart of the planning process.



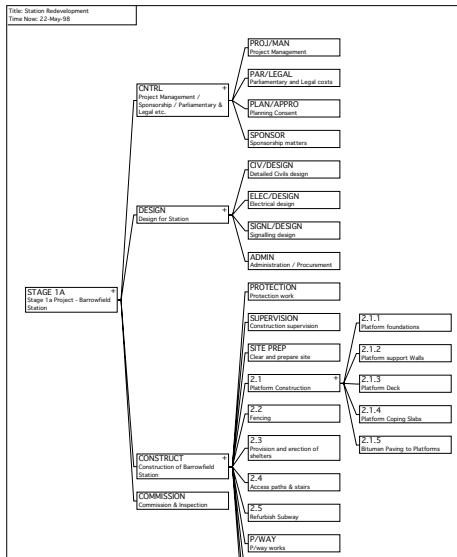
*Networks are constructed on screen by "dragging out" new tasks. Diagrams can be printed exactly as they appear on screen.*



### Rapid Network Construction

A powerful facility allows you to save time by copying and pasting typical network sections from within the network or from library files.

Whole subprojects can be merged from one datafile to another allowing rapid construction of standard project elements and cooperation between management teams.



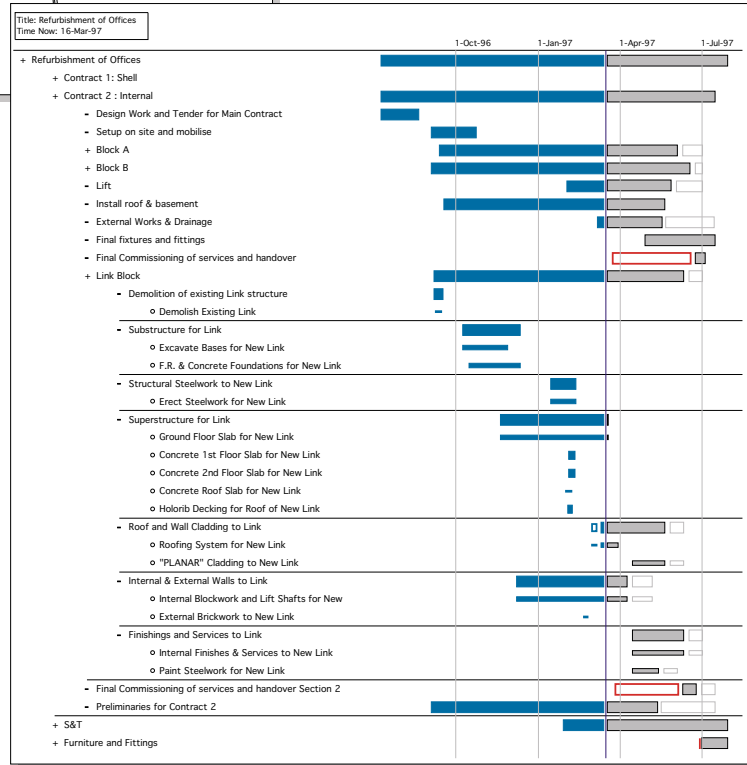
### Open access to all information

In addition to the network diagrams, the program offers a variety of ways to enter or modify your project information ...

- Spreadsheet-style tables allow bulk data entry.
- An outliner allows you to combine the construction of a Work Breakdown Structure (WBS) with task input
- Information can be modified from any view including networks, gantt charts cost reports etc.

...choose whichever method is appropriate.

*Work Breakdown structures can be viewed, and built either as outlines or as tree charts.*

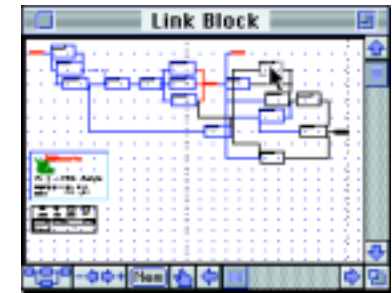


### Rapid relocation

X-Pert's design allows rapid access to any information on the project model:

- Find facilities help to locate a task by identifying part of its description or its code name.
- Rapid opening and closing of subproject windows
- Zoom out, locate by sight and zoom in again.
- Multiple open windows.

All these methods enable you move around your project model with a minimum of wasted time.



*Zoom out to see overview of network, locate and select items from zoomed diagram to open, move or copy.*

*Project Tasks provide access to their wide range of options through clean, accessible input forms. Resources associated with tasks are accessed via linked windows.*

Resource Usage					
Planned Usage					
Resource	Start	Finish	Method	Quantity	Units
1 Frame	0,0:0	2,1:8	Total	5234.00	Unit
2					
3					
4					
5					

### A wealth of features

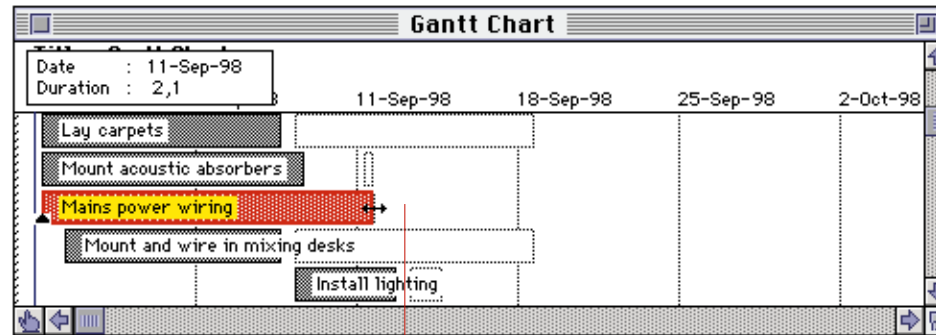
As your knowledge of the software increases, X-Pert provides an abundance of options to fully define each activity and ensure the accuracy of your plan - these include an organisational structure of three separate labels with a variable hierarchy, descriptions, sort codes, comment fields, WBS and explanatory illustrations.

Durations can be expressed from weeks to minutes - even mixing scales in the same project. You can choose to run your project using calendar or numeric dates, choosing either or both for your reports. Milestones, overlapping relationships, 'elastic' tasks, hammocks - all these and more are standard.



## Time Analysing the Project

Critical Path Analysis establishes each task's start and finish dates, highlighting jobs which must not be delayed if the project is to finish on time. A host of facilities are available for controlling Time Analysis - including various types of imposed start and finish dates, dynamic linking from different project networks, and negative float where the projects overrun contract deadlines.



*Time Analysis results can be viewed and modified directly by opening tasks from the chart or dragging them directly to change durations.*

### Getting it right

Following Time Analysis, you may wish to edit your project model to correct mistakes or adjust sequences to meet imposed requirements. You can alter or update project information by opening tasks from within any report or chart. Alternatively, you may prefer to drag the bars on a Gantt chart view to directly alter an operation's duration (or add progress at a later stage).

Controlling paths, supercritical paths and listings of all preceding or succeeding events can be isolated for review. Activities can be overlapped using Start-to-Start, Start-to-Finish, and/or Finish-to-Finish dependencies in Precedence diagrams (or ladders in Arrow diagrams). Multiple calendars can be specified from five day to seven day or 'weekend only' work weeks (or any working pattern you specify), shift work and planned overtime can be introduced, and so on, until the Time Analysis results reflect your project's exact requirements.

*Analysis copes with multiple calendars and variable lengths for days and weeks.*

*Different dependencies and links are handled by the analysis process.*



## Adding Resources and Costs

Time Analysis provides you with accurate time constraints for your project but frequently it is the availability of resources that will determine your completion dates. Resources can include anything required to complete your project (people, plant or materials) and the balancing of those resources which are under the project's control may be crucial to your plan.

No matter how complex your project becomes, adding resources and their costs couldn't be simpler: specify what resources can be used, how many there are and when they are available; apply cost rate changes to resources to build in real-time resource cost inflation. Tasks can use resources partially over the task's duration, either at 'rate-per-day' or 'total work-days', and in quantity steps of 2 decimal places.

Each resource can work to its own calendar if required, four cost rates (idle time, normal hours, overtime and overload) and availability profile with both normal and threshold levels.

X-Pert also allows the use of Pool (consumable) resources like bricks or other bulk materials.

Cash can be added as a resource in its own right when it covers costs which are independent of other resources.

### Skill Sets

Individual resources with similar skills can be held in skill groups - each resource within a group can be allocated an efficiency percentage. When you assign a group resource to a task, X-Pert locates the least used but most effective member of the group for the work. Durations are normally based on each individual being 100% efficient; if an individual is rated higher or lower, the duration is adjusted accordingly.

Resource ASSEMBLER

Name: ASSEMBLER Type: Normal Calendar: Five Day  Scheduled

Accrued: Not Accrued Usage: Man days Change Out \$: 100

Accrual Period: 0

No.	Date	Available	Threshold	Used	Unused	Overtime	Overload
1	3-Jul-95	4.00	-	200.00	200.00	250.00	275.00
2							
3							
4							
5							
6							

OK Cancel Remove Help

Resource Usage

Planned Usage

Resource	Start	Finish	Method	Quantity	Units
1 ASSEMBLER	0.2	3.0	Rate	1.00	-
2					
3					
4					

Planned Usage  Actual Usage

Copy Planned to Actual OK

Details... Help Cancel

Resources

Gary Barbara James Richard Victoria Pascal Prog

Java Prog

Group Resource: C Programmer

Name: C Programmer Usage: Man Days

Resource	%	Resource	%
1 Barbara	120		
2 Gary	110		
3 Richard	100		
4 James	100		

Cancel OK

# Resource Analysing the Project

Having allocated resources to your project, Resource Analysis shows you how long the project will take using the resources you have available (Resource Critical), or how many resources you will require to finish within the minimum time (Deadline Critical).

This powerful analysis process juggles the requirements for resources (maybe several per task), multiple calendars, varying priorities, group resources, splitting of tasks etc. - and it produces the results right down to the minute.

## Controlling Analysis

In addition to the above Resource Critical and Deadline Critical options, you can choose Early or Late Aggregation (all activities starting on their earliest and latest dates respectively). With Deadline Critical Resource Smoothing, activities with float are delayed until they become critical, then resources are overloaded; Resource Critical smoothing does not overload resources until the project maximum delay (specified by you) is reached.

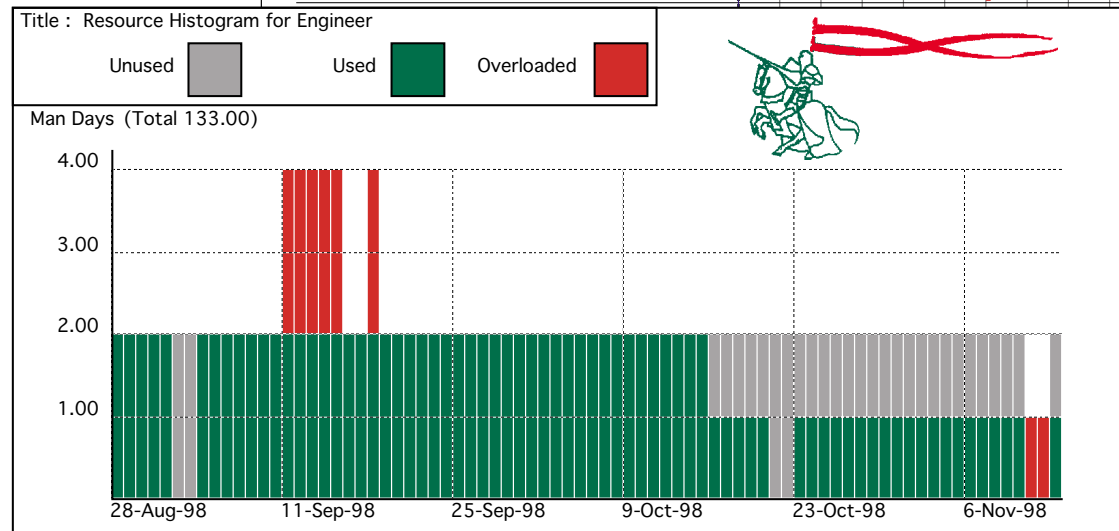
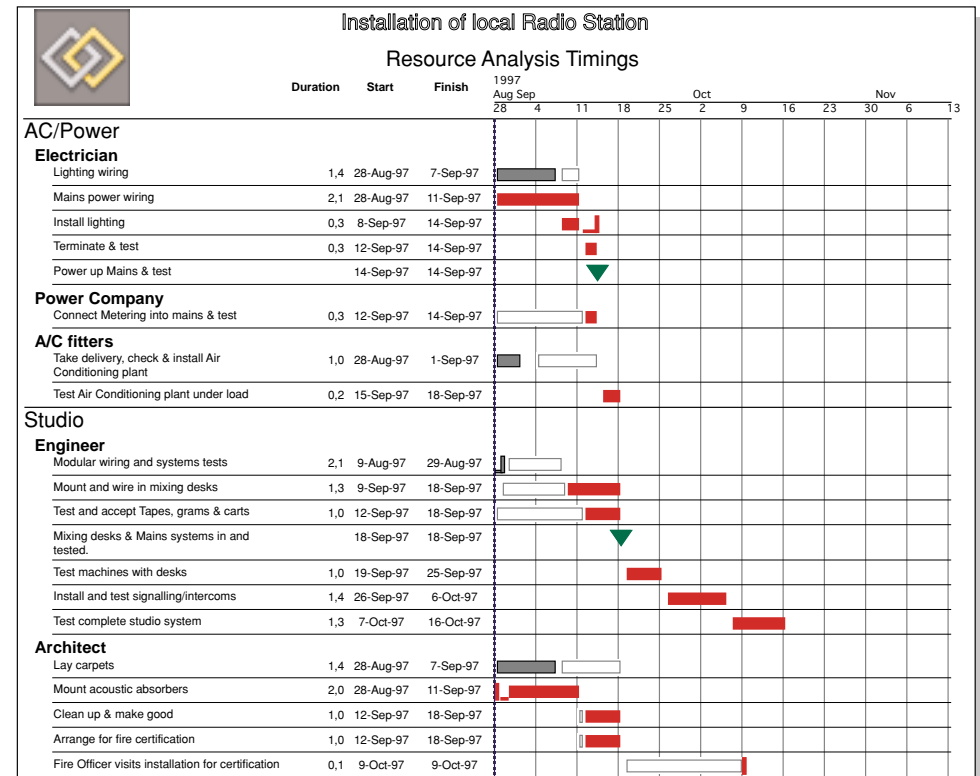
You can decide whether to allow Resource Analysis to split activities when there are not enough resources available, or to demand an immediate start irrespective of resource availability. Specialist activities may be used to fine tune resource usage - for example, Sponge Hammocks may soak up spare resources carrying out fall-back tasks. Find out what your staffing levels should be next year, or whether you can realistically slot in that extra contract without jeopardising existing work. Whether you have to say "YES" or "NO", you can be confident of your future resource loading.

## Visible Analysis Results

The revised timings which result from resource smoothing are placed in a specific time schedule which can be examined as a Gantt chart and compared directly with the original Time Analysis schedule.

Resource Histograms give a clear overview of levelling results - you can freeze the current histogram or have it updated with future levelling trials. Filtered network views represent another way to assess the full impact of resource smoothing. For example, you might display only those activities with a certain amount of free time or alternatively the most critical activities; such filtered displays reduce network clutter allowing you to focus on a particular project area and add refinements.

Having assessed your Resource Analysis results, "What-if..." simulations allow you to experiment to find the best solution (a balance of time constraints versus the associated cost and resource implications) - one that fits your company's policies and is realistically achievable.



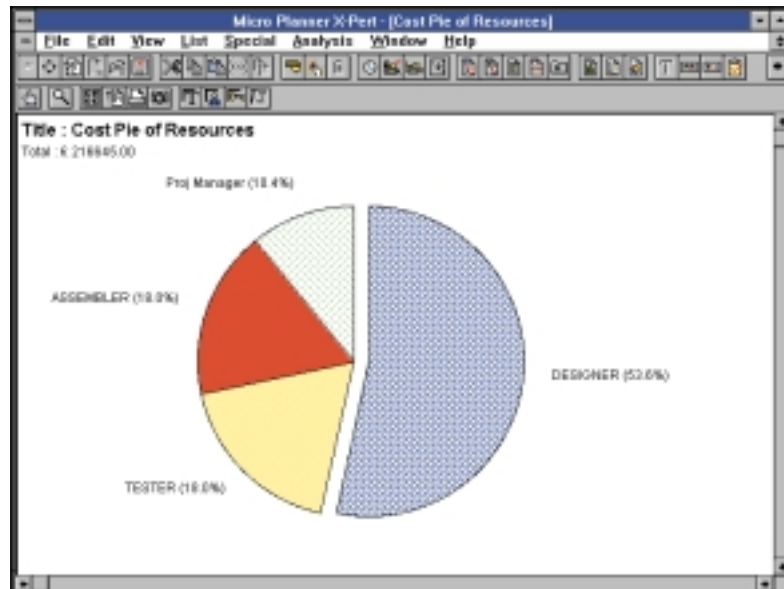
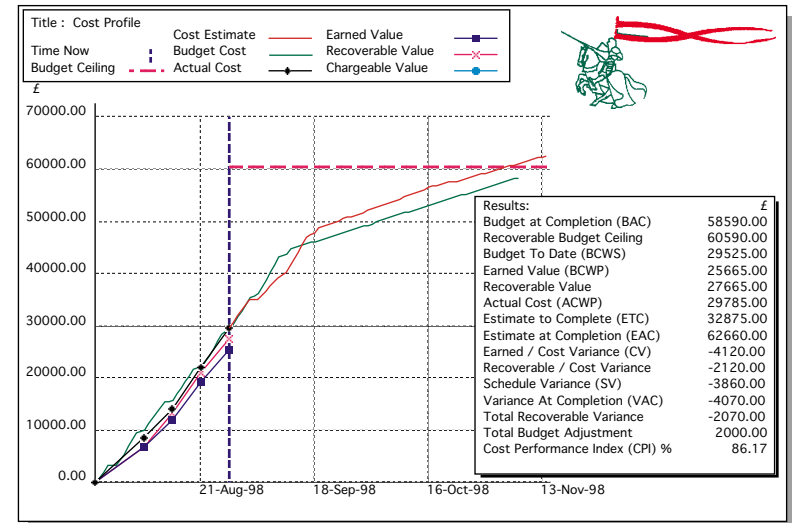
# Project Costing

When all is said and done, a Project Manager's prime objectives are to complete the project on time and within budget. In order to meet those objectives, X-Pert offers facilities to build up a cost plan which is linked directly to the time and resource plan.

In costing too, X-Pert maintains an extensive range of facilities. Costing results flow from resource analysis and go on to add cost accruals, monthly budgets for the next six months, Earned Value Analysis, budget-vs-actual cost comparisons, global or activity level adjustments and most of the other features required by current cost management standards.

This means, for example, that inflation forecasts can be accounted for, as can fluctuations in charge out rates for hired equipment or personnel; it will also make allowances for the time lag between invoices being sent out and paid. In addition, resources may be switched off so that their costs are accumulated without the resource affecting the schedule. The program also has a unique facility to cost out resources which are NOT used.

X-Pert has a number of standard graphic, planning, and cost summaries. For example, a selection of cost reports provide cash flow forecasting, job costing, Earned Value Analysis, and wastage analysis (charting inefficiencies when resources are under-utilised or over-utilised). Cost/Time curves show when money is spent and Pie Charts can show where it is spent.



	Actual Cost	Estimated Cost	Total Cost	BUDGET Value	BUDGET Variance	EARNED Value	EARNED Variance	RECOVERABLE Value	RECOVERABLE Variance
<b>Block A</b>									
<b>Main Contract</b>									
Balfour B Structural									
Setup on site and mobilise	1175.00	0.00	1175.00	0.00	-1175.00	0.00	-1175.00	0.00	-1175.00
Preliminaries for Contract 2	347120.77	104136.23	451257.00	374706.99	-76550.01	270570.76	-76550.01	270570.76	-76550.01
<b>Block B</b>									
<b>Allglass</b>									
Ventrola Refurbish									
Remove & Re-erect cladding for Fire Escape	14445.17	76500.00	90945.17	90945.17	-0.00	14445.17	-0.00	14445.17	-0.00
<b>Balfour B</b>									
<b>Finishing</b>									
Structural alterations and 1st Fix Trades to Block B	415996.49	8866.05	424862.54	315890.20	-108972.34	313025.15	-102971.34	313025.15	-102971.34
<b>DCA</b>									
<b>2nd Fixing</b>									
Ventrola Refurbish Windows for Block B	177388.79	1060.80	178449.59	160448.88	-18000.71	159388.08	-18000.71	159388.08	-18000.71
<b>Balfour B</b>									
<b>DCA</b>									
<b>1st Fixing Mechanical &amp; Electrical to Block B</b>	440911.25	39000.65	479911.90	515135.87	35223.96	476135.21	35223.96	476135.21	35223.96
<b>Link I</b>									
<b>2nd Fixing Mechanical &amp; Electrical to Block B</b>	317753.54	140747.86	458501.40	493274.08	34772.68	367191.22	49437.68	367191.22	49437.68
<b>Balfour B</b>									
<b>Demolition</b>									
<b>Substructure</b>									
Finishings to Block B	96902.78	199274.73	296177.51	244779.49	-51398.02	83875.82	-13026.96	83875.82	-13026.96
<b>Superstructure</b>									
Cleaning out Block B	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Time Now: 16-Mar-97									
Internal & 1 of 3									
Time Now: 16-Mar-97									
2 of 3									
<b>TOTALS</b>	3179033.87	1396117.85	4575151.72	4302100.52	-273051.19	3011912.30	-167121.57	3011912.30	-167121.57
Time Now: 16-Mar-97									
3 of 3									

## Communicating the Plan

Effective presentation and communication are essential for effective project management. X-Pert has a selection of Standard Reports which can be edited to suit your presentation needs. These include: Progress Report, Job Card, Milestone Report, and of course Gantt Reports (or barcharts). In addition to this suite of reports, X-Pert also provides a range of quick-view charts, allowing you to access project results more quickly - these include Gantt View, Linked Gantt Chart, Resource Histogram, and Network Diagram.

The reporting facility allows tasks for inclusion in any of these reports to be selected and sorted on almost any field. Further fine tuning allows you to hand-prune and delete unwanted reports without going through the process of re-selecting. Complex sorting and selection criteria can be saved as virtual macros for use in other reports or other projects.

If none of the standard reports meet your exact requirements, you are free to design and save your own report layouts. Report Stationery allows you to create reusable report templates containing preferred fonts, logos and legends - as well as resources and tasks. X-Pert gives you a blank drawing area to arrange headers, footers, labels, resources and any data field - including static graphics or dynamic images that change with each record. The whole process is straightforward, just grab report components with the mouse and place them anywhere on the page. A ruler and guidelines help to precisely position elements. Moreover, reports can be saved in a Custom Report Menu for instant recall.

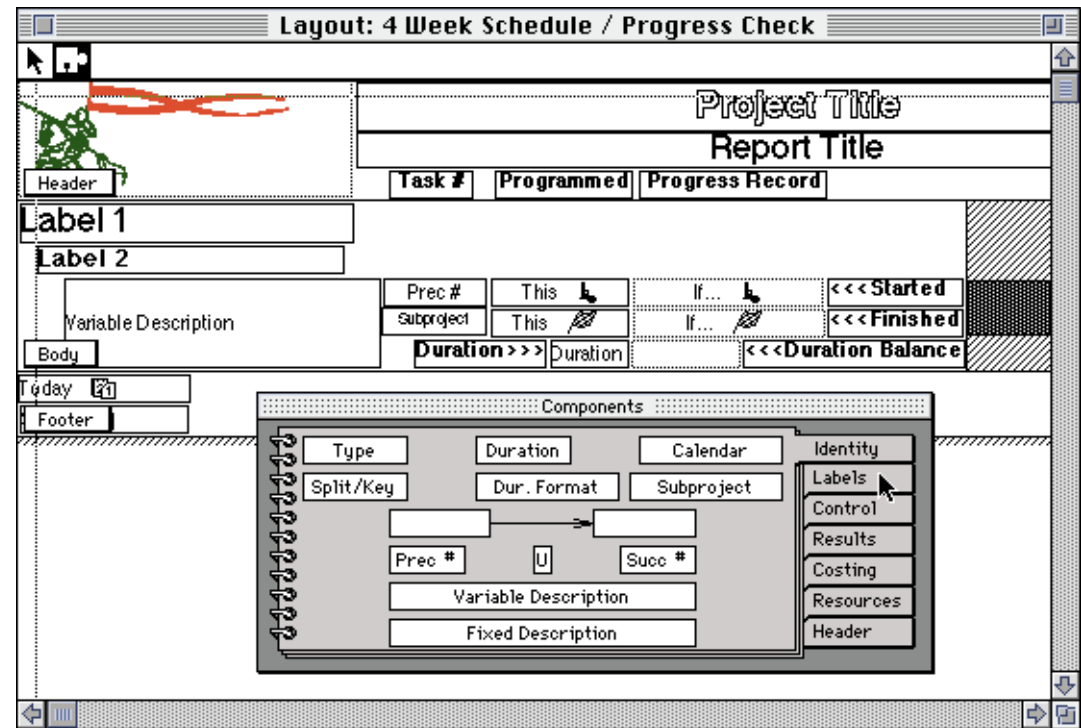
### Enhanced Reports

Reports may be annotated with pictures or text to provide clarification of particular project phases. In addition, reports and charts can be saved in picture format for use in tender documents or other documents - you can even produce composite reports by placing a Gantt Chart, Resource Histogram or Pie Chart as an illustration into another report.

### Immediate Access

All your reports which include Standard Reports, Schedules, Histograms, Cost Pies and Cost Curves can be reduced to icons with all their settings on the X-Pert desktop and stored in folders. These icons are virtual macros which allow X-Pert to redisplay the report without your having to restructure the commands used to set them up in the first place.

This means that a series of reports required, for example every time you update your project, can be opened and printed quickly and easily.



*Database style report generator prepares customised reports at any time. These can be reduced to icons, saved for use by other projects and edited at will. The above report format produces the report opposite*

# Managing the Project

Planning your project is only the start of the job - X-Pert's real objective is Project Management and this necessitates control of the project from start to finish! The processes of Time, Resource and Cost analyses provide Baseline Schedules and Cost Plans (Budgets) which can be agreed and archived within X-Pert's database to facilitate progress and performance measurement.

Three sets of start and finish dates are stored by the system: Early and Late Start/ Finish dates and latest Resource Analysis results. In addition, two archives are supplied - Master and Interim. The Master Archive contains the baseline plan for comparison during the project life cycle - it also creates the master budget for future actual-vs-budget cost comparisons. The Interim Archive allows you to experiment with alternative strategies for project completion; one alternative can be stored for comparison with another - ensuring the original baseline plan is secure in the Master Archive.

## Progress updates

Project control involves updating the schedule to record progress. This process is facilitated by X-Pert which has its own concept of "time now" which differentiates actual performance versus forecast performance.

As your project proceeds, X-Pert lets you track actual progress against your planned schedule. Job Cards or Short Term Gantt Reports are useful feedback documents for the project team. Progress information is entered as actual start, percentage done, balance and actual finish. Actual resource usage can be recorded against each task and additional actual costs can also be entered - globally, or against each task if necessary.

Progress information can be entered via networks or reports like the one on this page or any task reports. There is also a spreadsheet-like table view which allows bulk input of progress or other change information. The import facility can also be used to bring progress information into a project file.

Any unscheduled future costs or resource variances can be added as you go.

X-Pert understands that work which has no progress information is delayed to the future.

Once progress is recorded the implications of delays, resource shortages or cost overruns can be assessed.

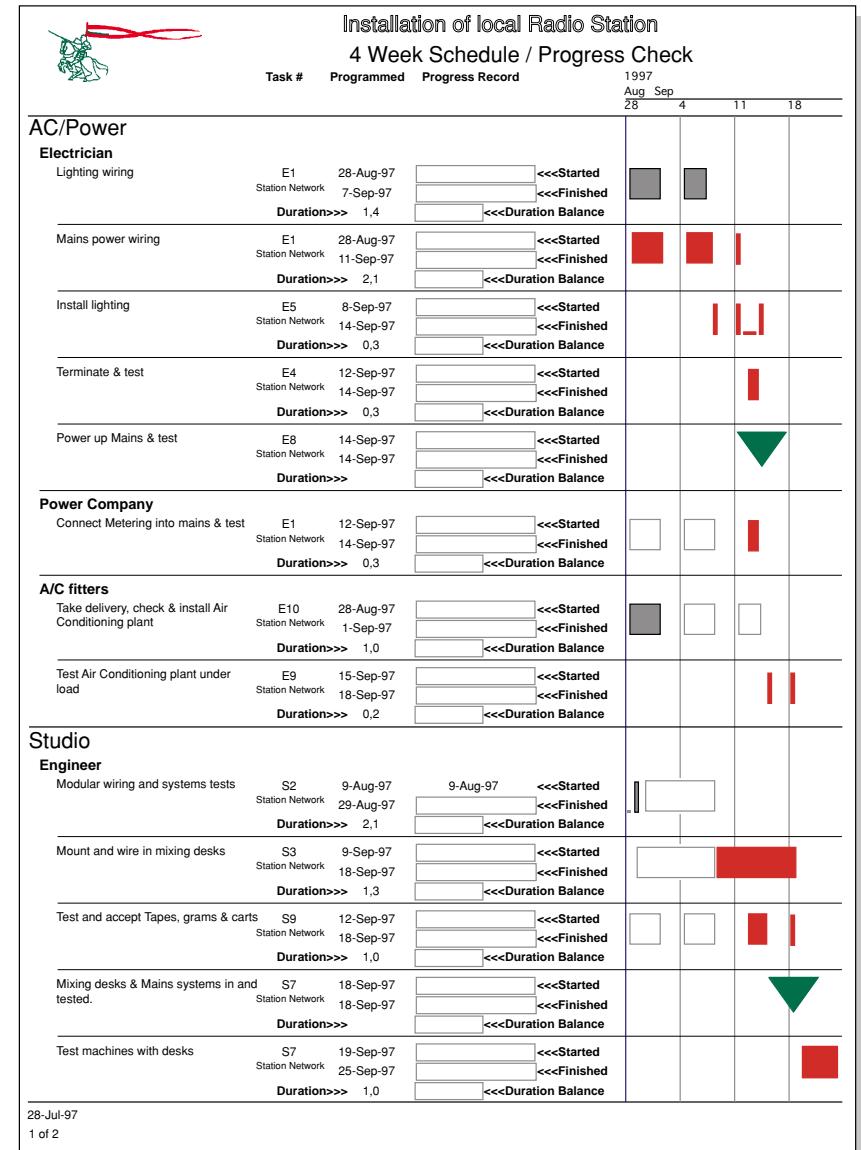
Revised resource requirements can be assessed from histograms. X-Pert displays your project costs as Cost Profiles, (or 'S' - Curves) which highlight performance against budget. These curves show the true earned value of work performed, actual cost to date and estimated cost to completion so that you can view your project's cost trends at a glance, before you take corrective action.

Only with this data can managers react quickly to ensure that deadlines do not slip or that budgets are maintained. *Micro Planner X-Pert* allows you to input progress and assess project status quickly and easily to ensure your time is spent managing the project not the software!

## Keeping on track

Once the implications of progress (or lack of progress) are known, remedial action can be taken to replan those aspects of the schedule which need attention. 'What if' analyses can be carried out until the revised schedule and cost plan are acceptable.

Revised schedules are then communicated to your project team to ensure that the revisions to plan are received and understood. Short Term Schedules which highlight both the revised plan and the schedule it supersedes are vital for this procedure.



## Press Reviews

### About X-Pert for Windows

Since its launch, the Windows version of *Micro Planner X-Pert* has enjoyed increasing success. It has been well received by users of the classic DOS based *Micro Planner* Professional and has found favour with new users who appreciate the benefits of powerful project management software operated through a truly usable graphical interface.

### They like its features...

X-Pert has always been praised for its advanced features. Few packages can match its sophisticated resource management facilities and this is what they say...

“in terms of providing the information you need to be confident of understanding the financial implications of differing courses of action, X-Pert is still hard to beat.”

Adrian Dooley of Project Manager Today

“Finding something truly different in the universe of project management software is like finding a new subatomic particle. After researching and evaluating numerous packages, I believe I have found the quark! *Micro Planner X-Pert* for Windows (MPXW) is a high-end package produced by Micro Planning International, of Bristol, UK. The advanced package I reviewed delivers impressive capabilities in the total project management process - planning, modelling, scheduling and tracking.”

W. Richard Mosig Jr. - Cost Engineering (USA), May 1996.

### ...and they like its approach

*Micro Planner* is designed by project management specialists who understand the need for effective tools for professionals. X-Pert is different and we are proud that it is - a unique blend of advanced features with ease of use. Don't just take our word for it...

“The network logic options [dialog] is the best I have seen offering potential to correctly structure in any logic mode any part of a project.”

Eamon Tyrrell - Construction Computing, Spring 1995

“Overall, I was impressed with the package, even though I used it after only a few hours training. It is extremely flexible in terms of reporting and users can represent projects in as complicated or simplistic a manner as needed.”

Matthew Kyte - Building Magazine, 5 May 1995

“The software makes great use of windows making it a pleasure to work with on screen. MPI's unique system of report generation where standard reports can be enhanced is exceptionally easy to use giving you a near limitless choice of customising options, editing text and adding graphics.”

Eamon Tyrrell - Construction Computing, Spring 1995

“... So far you will have gathered that X-Pert is not another Gantt Chart and Columns package. It is more traditional in its approach and requires a structured approach to planning...This may be disconcerting to those who are used to the linked bar as the main (often only) means of building a project model. Don't despair because X-Pert is one of the best packages on the market for drawing PERT charts and lets face it most of the systems in the market put so much emphasis on the Gantt because they haven't worked out how to draw a decent PERT on the screen.”

Adrian Dooley - Project Manager Today, August 1995

### About X-Pert for Macintosh

Since its launch in 1989, X-Pert for Macintosh has received glowing reviews for its professionalism in the high-tech industries which have been the Mac's traditional market.

### They just liked it:

“X-Pert would require a book to detail and explain all of its features and applications. Our hope is that this short review can do justice to this outstanding project management system.”

Brian Doyle - Australian MacWorld, 1989.

“Make no mistake about it, *Micro Planner X-Pert* is the Rolls Royce of Mac Project Management Software. It oozes class from the fancy disk box to the four hard covered manuals”

Personal Computer World, 1991

“Overall, X-Pert provides not only the tools to plan and model projects from the small to the very large, but also a wide range of analyses and reports to give you an excellent view of what is going on and the ability to communicate effectively to your project team. X-Pert should be given serious consideration by every project manager”

MacUser

“Recently I was persuaded to attend a demonstration of *Micro Planner X-Pert*. I was not disappointed, X-Pert has some super features and is easily the nicest piece of Project Management software I've seen on any sort of machine. And at £1,750 it is amazingly inexpensive.”

MacNews, 1989

“... easy to use the system at a fairly superficial level without the detailed facilities getting in the way.”

Project Management Today, 1990

“For the dedicated project manager requiring a sophisticated tool, *Micro Planner X-Pert* is one of the most fully featured packages on the market.”

Adrian Dooley - Which Computer, 1992 (when awarding X-Pert the coveted 'Editors Choice')

# Project Management Services

If your answer to some or all of the following questions is YES then we are confident that Forecast Systems Limited can provide you with affordable solutions...

- Are you short of experienced managers?
- Do you have deadlines and complex objectives to meet?
- Is it important to prepare a resource plan for your project?
- Is it vital that you keep control of project costs?
- Do you need to clearly define your project and prepare quality procedures?
- Are you concerned about change control and management of variations?
- Are you short of time to effectively monitor performance of your project?
- Do you feel that graphics have a place in management communications?
- Do you feel the need to introduce IT solutions to project management?
- Is there a need to train your own staff in project management techniques?

## Project Managers

Provision of practical, pro-active project managers following our quality procedures.

## Project Definition

The preparation of a "Project Handbook" containing all basic information about the project including: Responsibilities/organisation structure, Remits for all concerned, Baseline Schedule, Cost Plan, IT/Database strategy, Risk Plan, Safety Plan, Key decisions, etc. etc.

## Project Planning & Budgeting

The cornerstone of Forecast's project management service is the preparation of Project Objectives, Specifications, a Baseline Schedule and a Cost Plan. Using the methodology embodied in Micro Planner X-Pert we are able to prepare time and resource Baseline plans and Cost Plans.



## Monitoring Progress

We lay great stress on the effective monitoring of projects so that management can remain in control at all times. The Project Review Cycle ensures that all aspects of the project are monitored to ensure compliance with schedules and cost plans.

## Cost Control

Where projects need tight budgetary control we have developed procedures to monitor and control costs at all stages through the project as part of the Project Review Cycle.

Using X-Pert's Earned Value Analysis Techniques, we are able to keep track of costs using Change Control techniques.

## Change Control

We use software and strict procedures to maintain adequate Change Control.

## IT / Databases, Packaged software

Forecast Systems Limited understands and uses software tools to provide cost effective services to our clients. We can specify and/or supply computer hardware and software for the project.

## Consultancy - Setting the agenda

Using our experience, we provide general consultancy, for example...

- Establishing in-house project management procedures.
- Auditing of existing project management arrangements.
- Re-engineering existing project management procedures.

## Delay Assessment / Claims Reports

We can provide experienced resources for...

- Claims Management.
- Preparation of "as built" schedules.
- Delay and disruption assessment.

## Training

Forecast Systems is able to provide training in the techniques of project management as well as the use of Micro Planner and other software.



**Micro Planner X-Pert  
for Windows and  
MacOS.**

Capacities	X-Pert
Max. No. Operations per Project	15,000
Max. No. Subprojects per Project	100
Max. No. Operations per Subproject	1,364
Max. No. Resources per Project	250
Max No. Resources per operation	20
Max. No. Zone groups per Project	500
Max. No. Responsibility groups per Project	500
Max. No. Cost Code groups per Project	500
Max. No. Work Breakdown Elements per Project	1000
Max. No. Calendars per Project	250

Date Time Span 89 yrs (Year 2000 compliant)  
 Time units (Calendar/Numeric): Weeks/Days/Shifts/Hours/Mins  
 Import/Export file formats: TEXT, CSV, DIF  
 File formats read: Micro Planner v6 (Mac/Windows), Micro Planner Manager & X-Pert (Mac/Windows), MPX v1 & v3.  
 Windows Version only: Micro Planner Professional & P1000 (MS-DOS), InstaPlan

**Project Network**

Precedence and Activity-on-Arrow can be mixed within the same network.  
 Network objects include: Task/Activity - normal operations  
 Delay/Wait - task waits until latest possible times  
 Hammock - for summarising parts of a network  
 Milestone - key points in your project  
 Reverse Logic - shortest path determining  
 Interface - links subprojects together  
 Transmitters - for multi-project analysis  
 Receivers - for multi-project analysis  
 Operation attributes:  
 Can Split - if resources needed urgently elsewhere  
 Non-Split - holds onto resources once started  
 Minimum split - can split, but in definable chunks  
 Consecutive - starts as soon as prior logic complete  
 Elastic - stretches according to available resources  
 Sponge - hammock mops up unused resources  
 Constraints:  
 Dummy/Lead & Lag activities  
 Links can be Fin->St; St->St; Fin->Fin; St->Fin  
 Imposed Dates:  
 Earliest, Latest, Target and Fixed dates

**Project Analysis**

Time, Resource and Cost Analyses available.  
 Resource Analysis types:  
 Deadline Critical : What resources are needed to finish on time?  
 Resource Critical : How long using only existing resources?  
 Earliest: Show resources being used at earliest possible times  
 Latest: Show resources being used at latest possible times

**Costing**

Specify resource costs as used, unused & overload rates. Use accruals to show real-time cash flow. Budgeted costs of operations or the whole project are always viewable. Apply cash overheads & lump sum costs. X-Pert identifies BCWS, BCWP, ACWS, ACWP, BAC, ETC costs, as well as Recoverable Value, Earned/Cost Variance (CV), Schedule Variance (SV) & Variance at Completion (VAC).

**Reports**

Standard reports include Project Network Diagram, Gantt Reports & Planned/Actual comparisons, Resource Histogram, Cost Profile (S-Curve) & Cost Pie chart, WBS diagram (choice of tree or outline format), Milestone report, Job Card, Progress report, Cost plan & variance reports, Job Cost status report  
 ...and as many Custom Reports as you can design!

**Hardware Requirements**

**Windows**  
 Minimum: 486 machine running Windows 95 20MB Hard Disk Space. Any Windows compatible Printer.  
 Recommended: 1 Ghz Pentium machine with Windows XP. 40 MB Hard Disk Space. 16" ore larger SVGA Monitor. A3 Colour printer and/or A1/A0 Poster Printer  
**MacOS**  
 Minimum: Any current Macintosh or MacOS machine capable of running System 7.1 upwards (OS-X in Classic mode). 20 MB Hard Disk Space, 4MB free RAM. Any MacOS compatible printer.  
 Recommended: 800 Mhz G4 PowerMac running System 9.2 (or Classic under OS-X). 40MB Hard Disk Space, 10MB free RAM, 16" or larger Monitor. A3 Colour printer and/or A1/A0 Poster Printer.



**MICRO PLANNING  
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