

### FEEDBACK FROM CLIENTS

**James Lyon from HDR Inc. in USA:**  
*"TILOS transformed our engineers' attitude toward project scheduling from something extra they never had time for to a tool they "owned" and wouldn't go to a meeting without"*

**Geert Bijmolt from NACAPP in Netherlands:**  
*"I appreciate that the TILOS team continuously improve this application and also listens to the client for improvement, so please continue on this level."*

# TILOS

The linear project management software used worldwide for road, pipeline, transmission line, railway, tunnel and other civil engineering projects.

Use TILOS to incorporate design details, construction challenges, risk elements and your project schedule in a single view.

Fully integrates with the leading CPM scheduling tools.

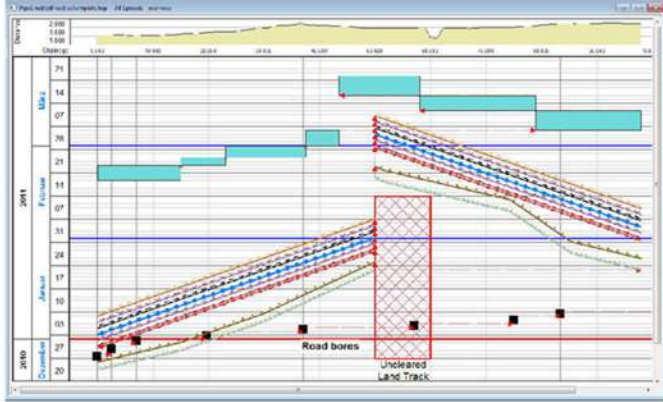
Simply the best tool for planning and managing linear projects.

# Why is TILOS superior for Linear Projects?

Traditional planning systems display their results in bar charts or network diagrams. Linear projects present unique challenges because the crews and equipment move along the construction right-of-way to perform their work. Permits, environmental constraints, construction related issues and risk elements are easily incorporated into the plan to give a single overall view of the project

Neither of the traditional diagrams are able to show a graphical link between the location where the work is performed (the distance axis) and the time when it is executed (the time axis).

Time distance diagrams clearly communicate the scope by showing the project details and the schedule in one view.



## How do I read a linear schedule?

Linear schedules are able to communicate more information because of the distance related data assigned to each task. The links between site and schedule information enables a quicker and deeper understanding of the construction plan.

- ▶ **Work Rate indicated by slope:** Typically the distance axis is horizontal and the time axis is vertical (although this can be reversed). Furthermore, the slope of the task line indicates the speed, or productivity rate of the crew performing the work in the field.
- ▶ **Overlapping Task Lines:** Task lines that overlap indicate possible collisions and show that the construction plan is not feasible.
- ▶ **Non-linear activities:** Non-linear activities, where the crew is stationary, are represented by block tasks. Examples include block valve installations, road bores or bridge foundation work.
- ▶ Restricted areas do not allow to plan tasks in a given time and distance window because of permitting issues preventing land access or environmental issues (such as bird areas or rare plants). Clash detection highlights those tasks crossing these areas.

## How do I create a linear schedule quickly?

TILOS can be used as a standalone planning system or in combination with other planning systems. Either way, TILOS supports the quick creation of a linear schedule.

- ▶ **Quickly create your plan:** The time distance diagram can be directly drawn on the screen as you would on paper. The task templates with predefined line styles, colours, text information, method of how to calculate quantities, production rates and resources reduce the work to a minimum.
- ▶ **Easily duplicate repetitive work:** Repetitive work sequences can be selected and copied to a new location (including logic links). Task lengths and durations are updated to reflect the change in location automatically.
- ▶ **Import existing plans:** Task lists from other programs such as MS Project or Primavera can be directly imported into TILOS. The shape, line styles and colour are taken from the work type based task template. Existing plans can be updated as well.

# Are Gantt charts possible in TILOS?

TILOS automatically generates a traditional Gantt chart representation of your project as you plan it in the time-distance view (or vice versa).

- ▶ **Fully customizable Gantt charts:** you decide how you want the tasks to be grouped for presentation. Possible choices are by resource, by activity type or simply the natural progression of the work. Data can also be displayed in columns and exported easily to Excel.
- ▶ **Different types of Gantt charts:** two types of Gantt charts are possible: traditional time based or location based. A location based Gantt chart displays where work has been completed along a ROW, making it easy to identify skips and other areas that have not been completed.
- ▶ **Multiple Gantt Charts:** TILOS allows you to define as many Gantt charts as you require to effectively display and manage your project.



## How can TILOS be used on your project?

TILOS can be used in all phases of a project, from early design to controlling on site. The ability to schedule, in as much detail as required, enables you to show overall plans or detailed plans down to one minute precision.

- ▶ **Design phase for feasibility studies:** TILOS is designed to allow quick and easy planning by simply drawing the schedule directly on the screen.
- ▶ **Tendering and procurement phase:** TILOS demonstrates that the bid has been well prepared and the company will be able to finish the project successfully in the specified time frame. Collisions can be easily detected.
- ▶ **Execution phase:** TILOS allows you to plan the project in detail, execute the work and record progress on the project.
- ▶ **Claim management:** analyze changes to the project and show the results while preparing and defending claims.



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