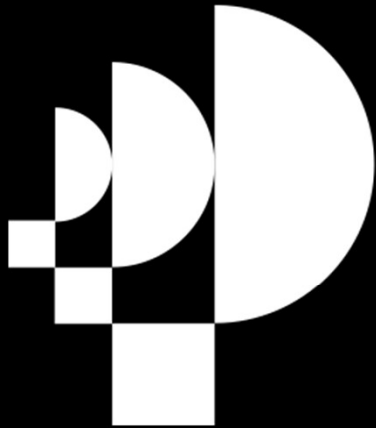
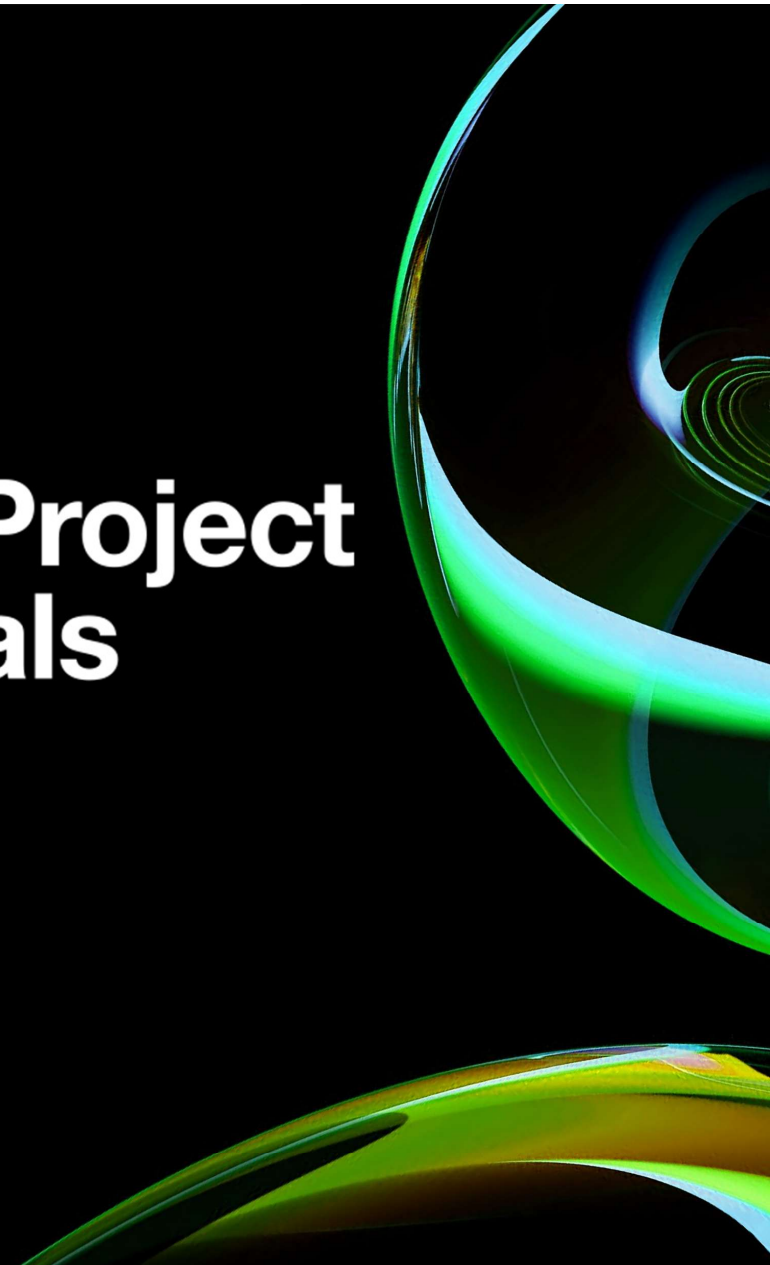




# Primavera Project Professionals

Hosted by 



# Improved Scheduling Outcomes Using Time Location Charting

Santosh Bhat



# Improved Scheduling Outcomes Using Time Location Charting



Rusty Johnson  
**Co-Founder/CTO**

30+ years Software Development. CTO / Co-  
Founder of SharpCloud and Pertmaster  
(Oracle Primavera Risk Analysis)



## Linear Project Software

Based in Sydney, Australia

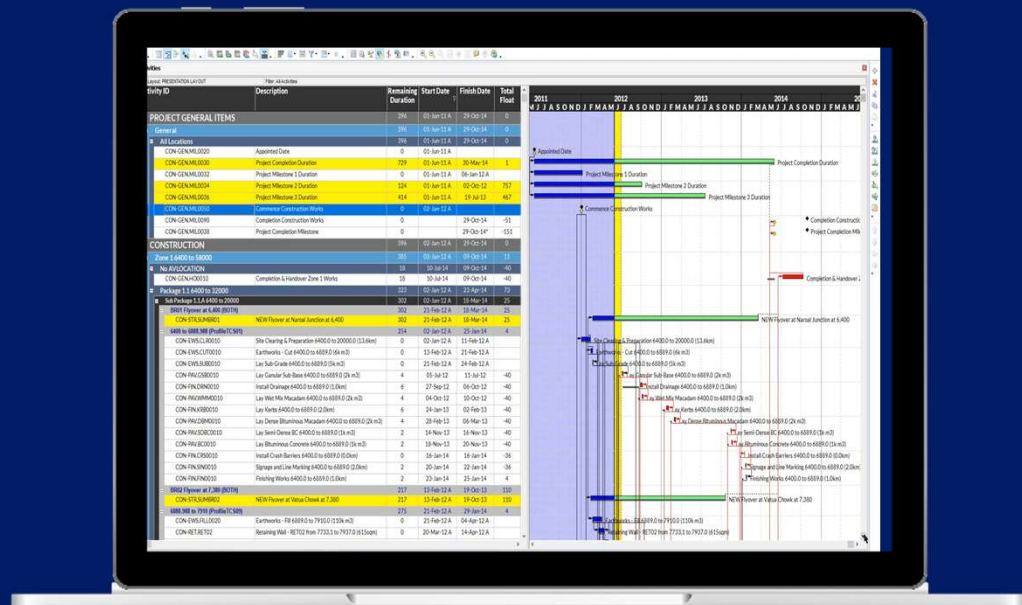


Santosh Bhat  
**Co-Founder/CEO**

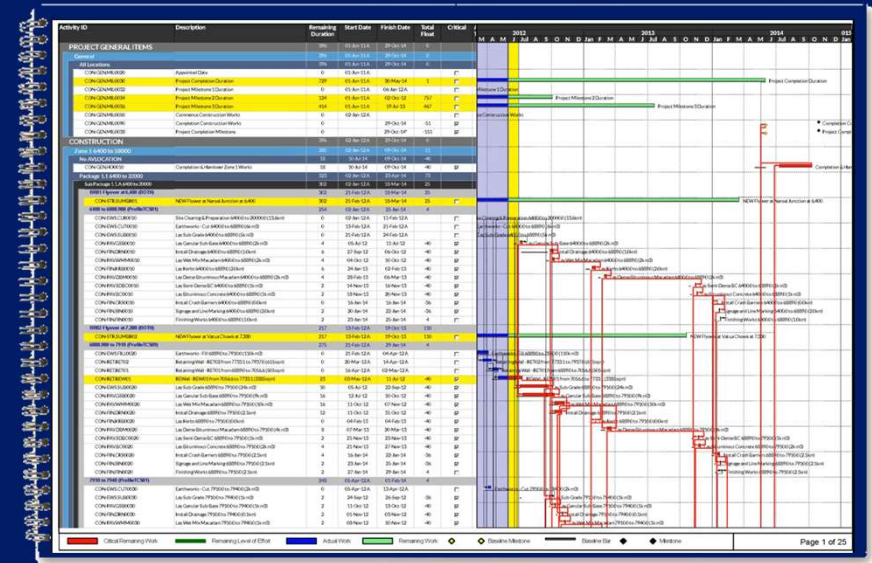
25+ Years Planning, Scheduling and  
Schedule Risk Analysis for Infrastructure

# Organisation Planning

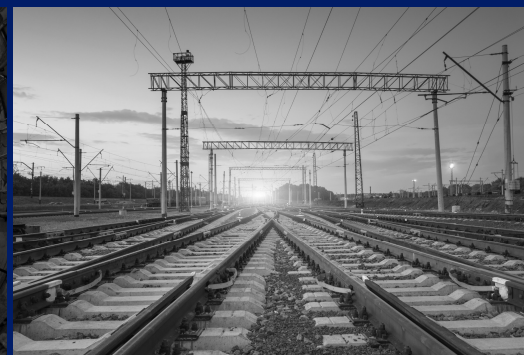
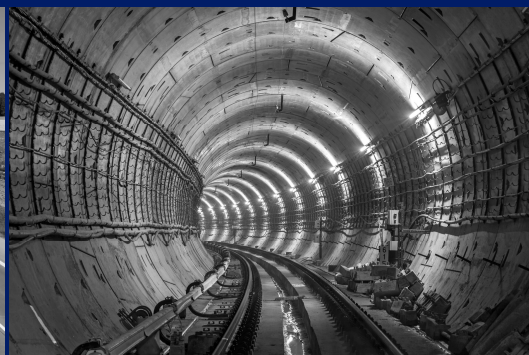
Reporting Administration Work Performance  
Control Cost Coordination Resource  
**Management**  
Marketing Contract Communication  
Forecasting



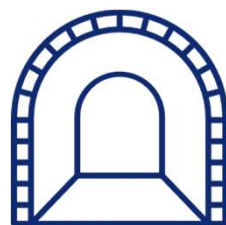
# Organisation Planning Reporting Administration Cost Control Work Performance Resource Management Marketing Contract Communication Forecasting







HIGHWAYS



TUNNELS



RAILWAYS



HIGH RISE

# Different Names Same Concepts

Time Chainage charts

Linear Schedules

Line of Balance

Time Distance (TD) charts

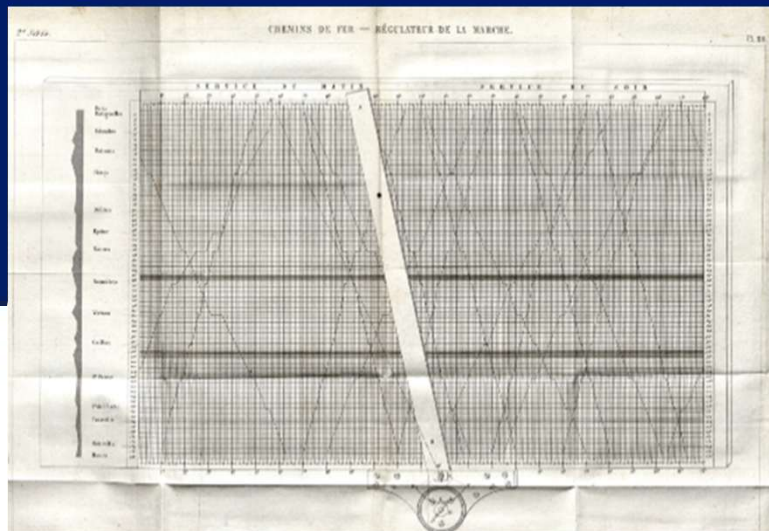
March Charts

Flow Lines

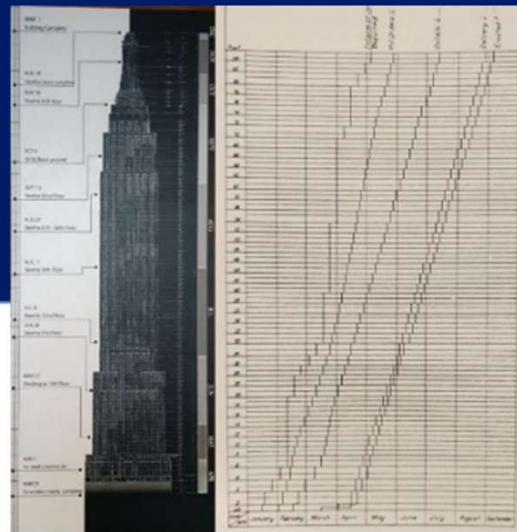
Location Based Schedules

Velocity Diagrams

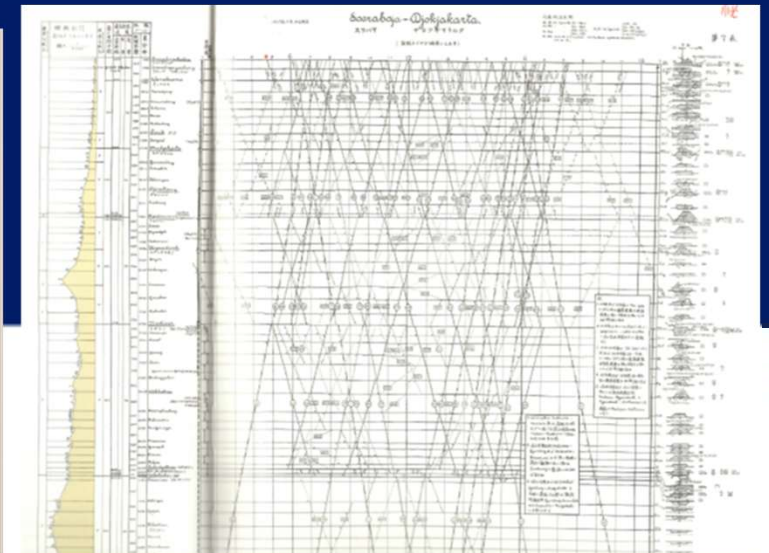




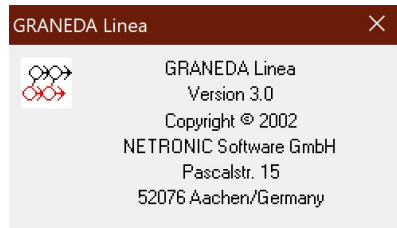
École des ponts et chaussées, Charles Ibry 1847



Empire State Building, 1930



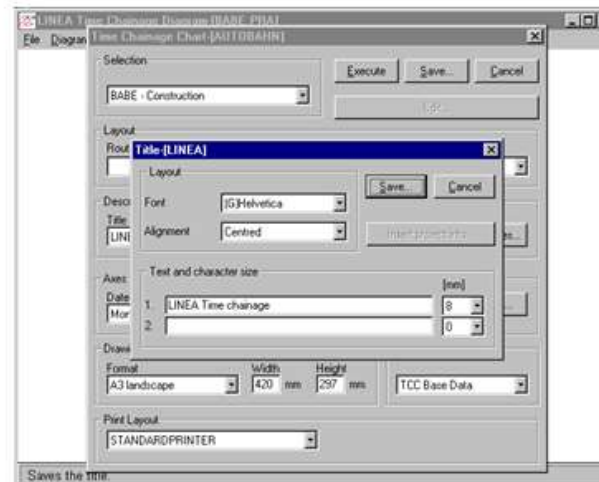
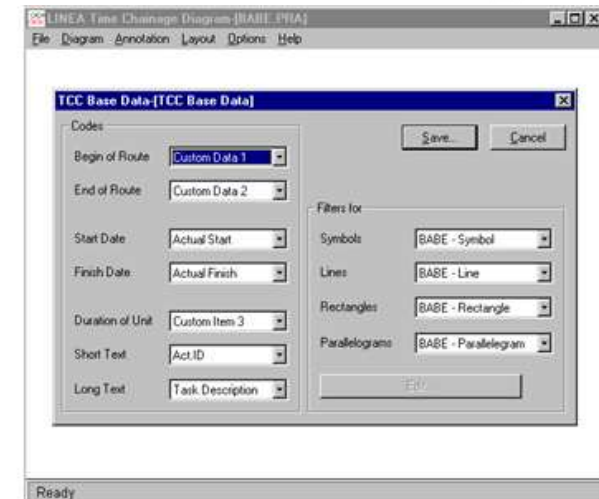
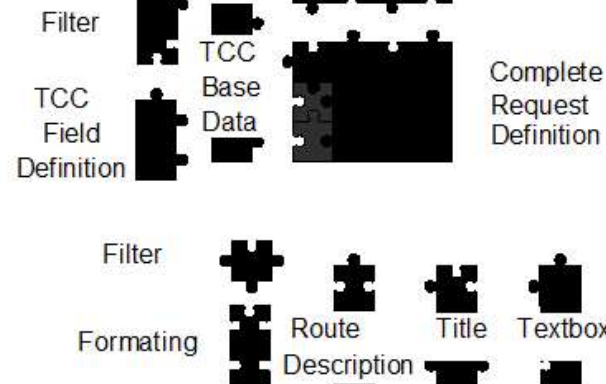
Java Railroad Line, 1937



| Budget | Codes      | Const                     | Cost            | Custm | Dates | Log | Pred    | Res | Surv | WBS | Help |
|--------|------------|---------------------------|-----------------|-------|-------|-----|---------|-----|------|-----|------|
| ID     | CE175-0125 | Site Access Pack Complete |                 |       |       |     |         |     |      |     |      |
| OD     | 0          | Pct                       | 100.0           | Cal   | 1     | AS  | 09NOV01 |     |      |     |      |
| RD     | 0          | Type                      | Start milestone |       |       |     |         |     |      |     |      |
| DDSS   | \$         |                           | 75.34           |       |       |     |         |     |      |     |      |
| Disc   | Sgp        | Life                      | Chs             | Chf   | Chd   |     |         |     |      |     |      |
| 71     | 1          | 18T02                     | RM              |       |       |     |         |     |      |     |      |
| Repl   | Sp         | Spic                      | Reip            | WBS   |       |     |         |     |      |     |      |

PROJECT SUMMARY

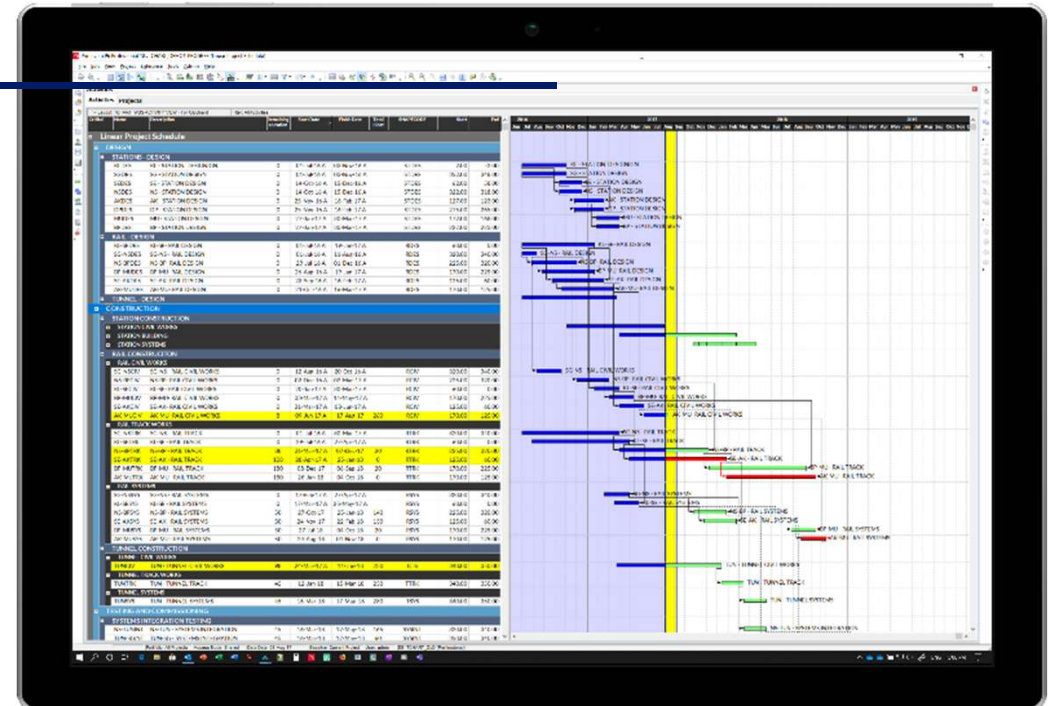
Complete  
Output Definition





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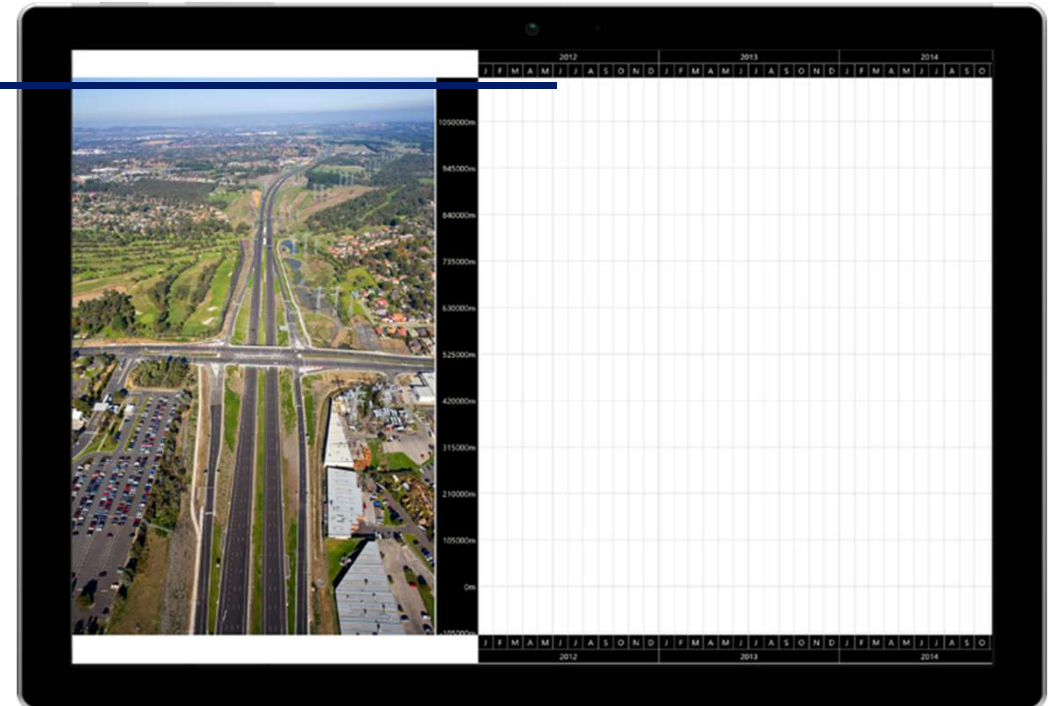
# Work Breakdown Structure



# Linear Projects

Time Axis

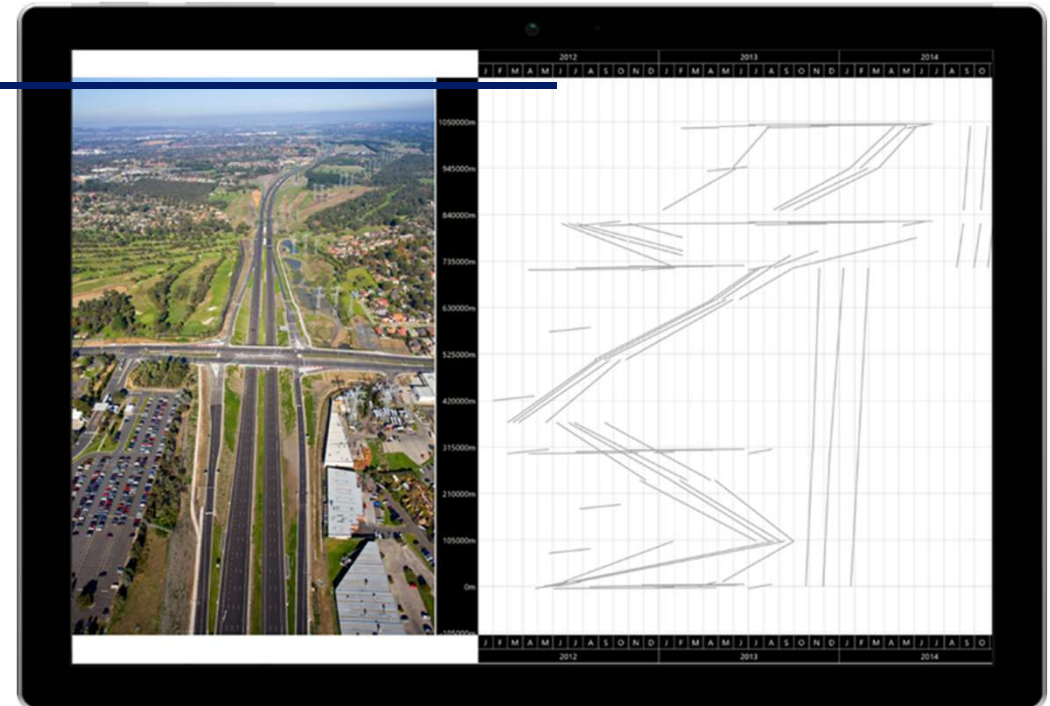
Linear  
Scaled  
Axis



# Linear Project Activities

Time Axis

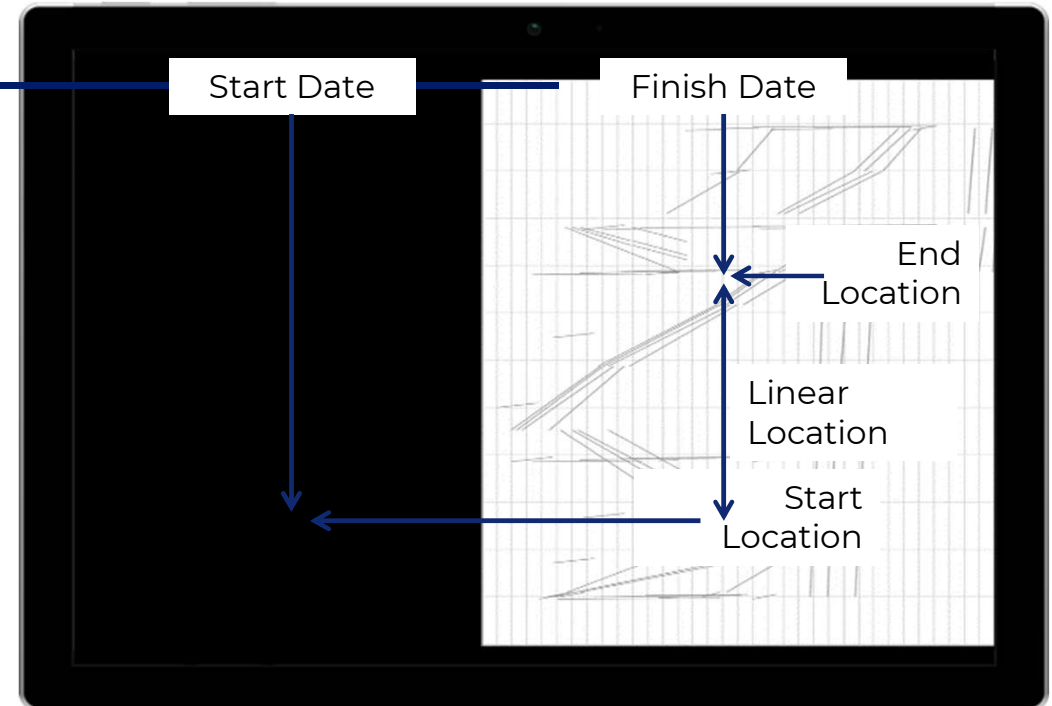
Linear  
Scaled  
Axis



# Linear Project Activities

Time Axis

Linear  
Scaled  
Axis

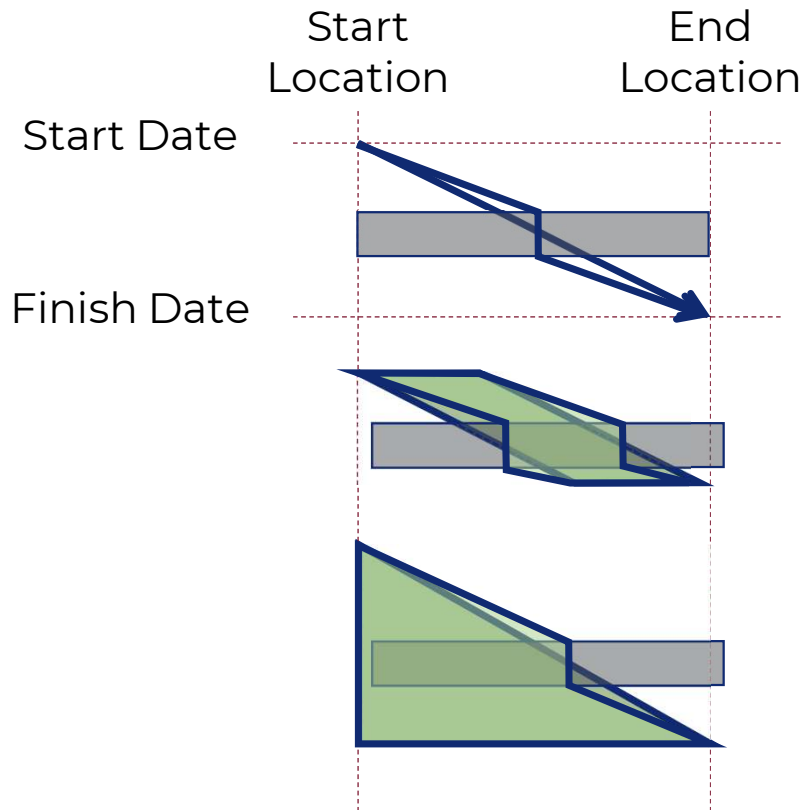




# Activity - Shapes

Gradients represent rates of production over their respective locations:

- Angle of the gradient represents the rate of production
- Directional from start to end points
- Non-Work periods affect gradients

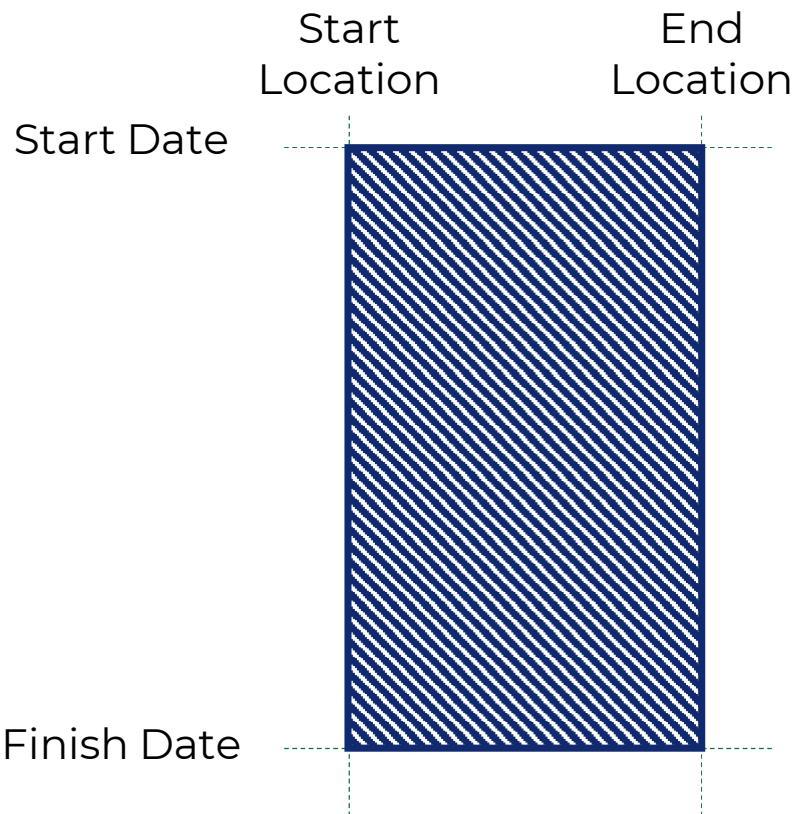




## Activity - Shapes

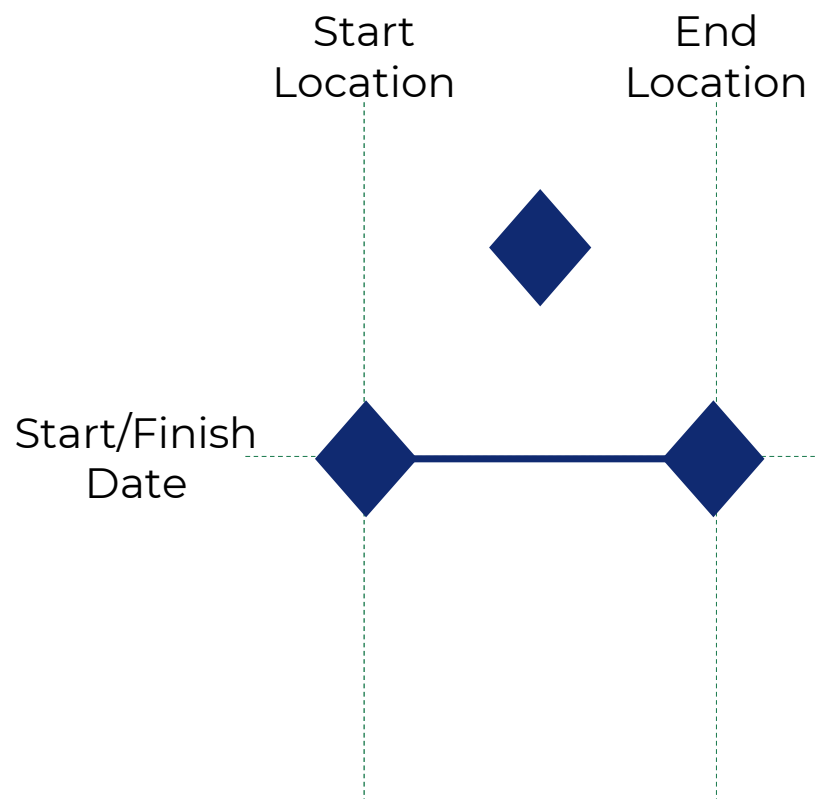
Areas represent occupation or non-directional work over their respective locations:

- Occupy specified region for a time period
- No direction or rate of progress along the linear axis
- Production rate is implied by the duration



## Activity - Shapes

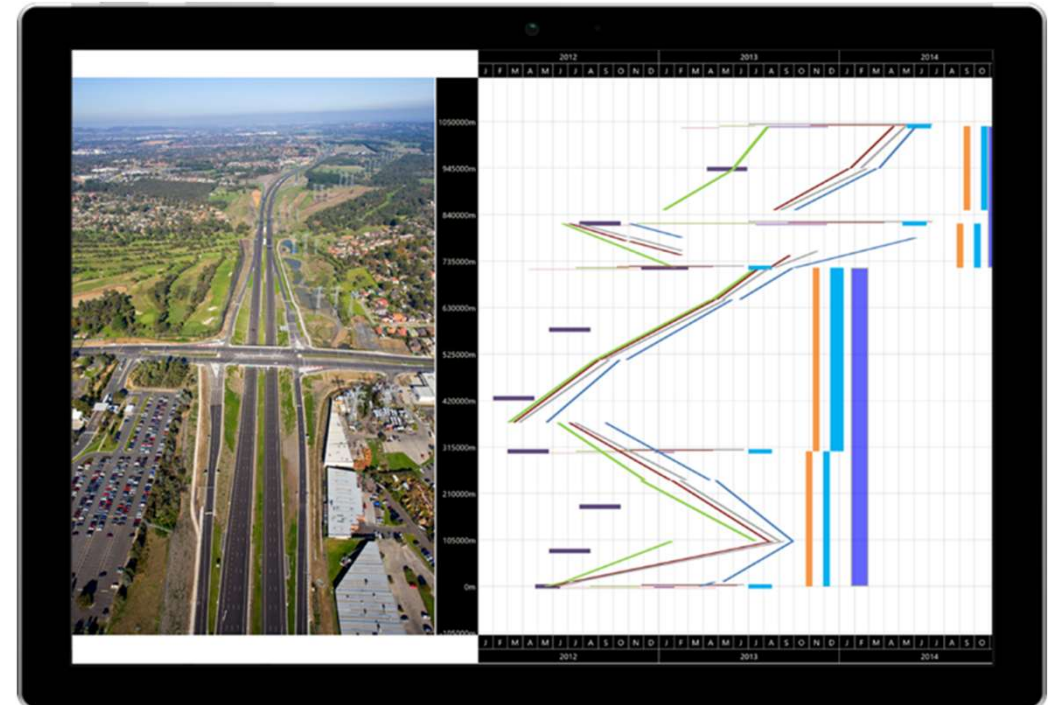
Milestones can be applied for specific points of time but can also apply over a specified linear/location range:



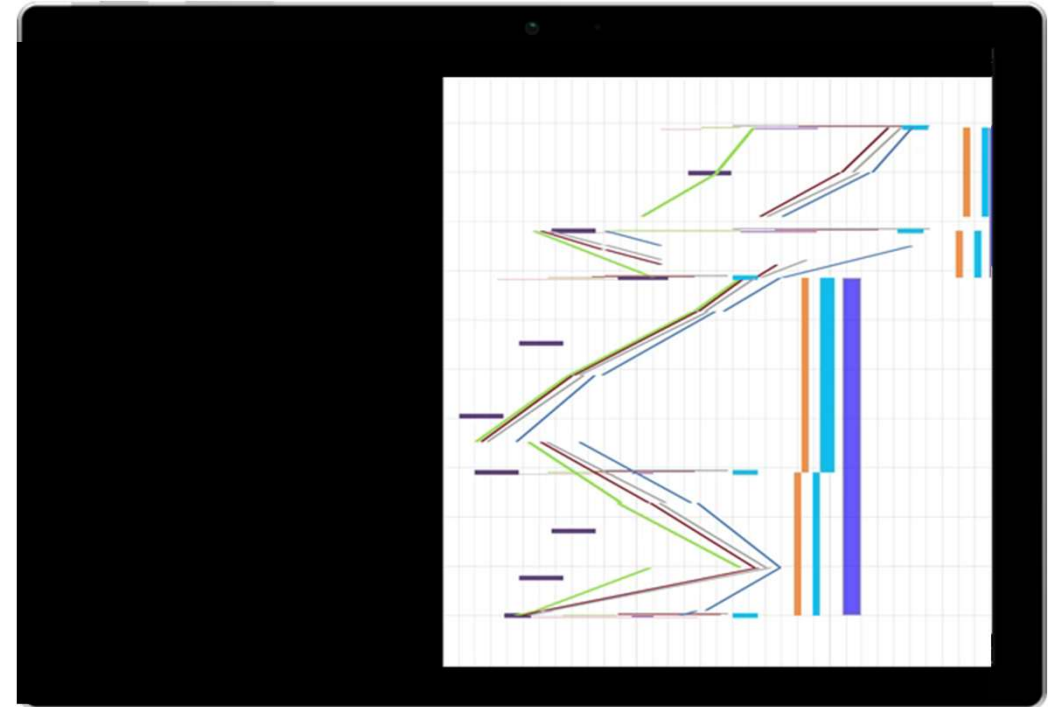
# Linear Project Activities

Using Shapes  
and  
Colour Formatting

---



# Linear Project Activities



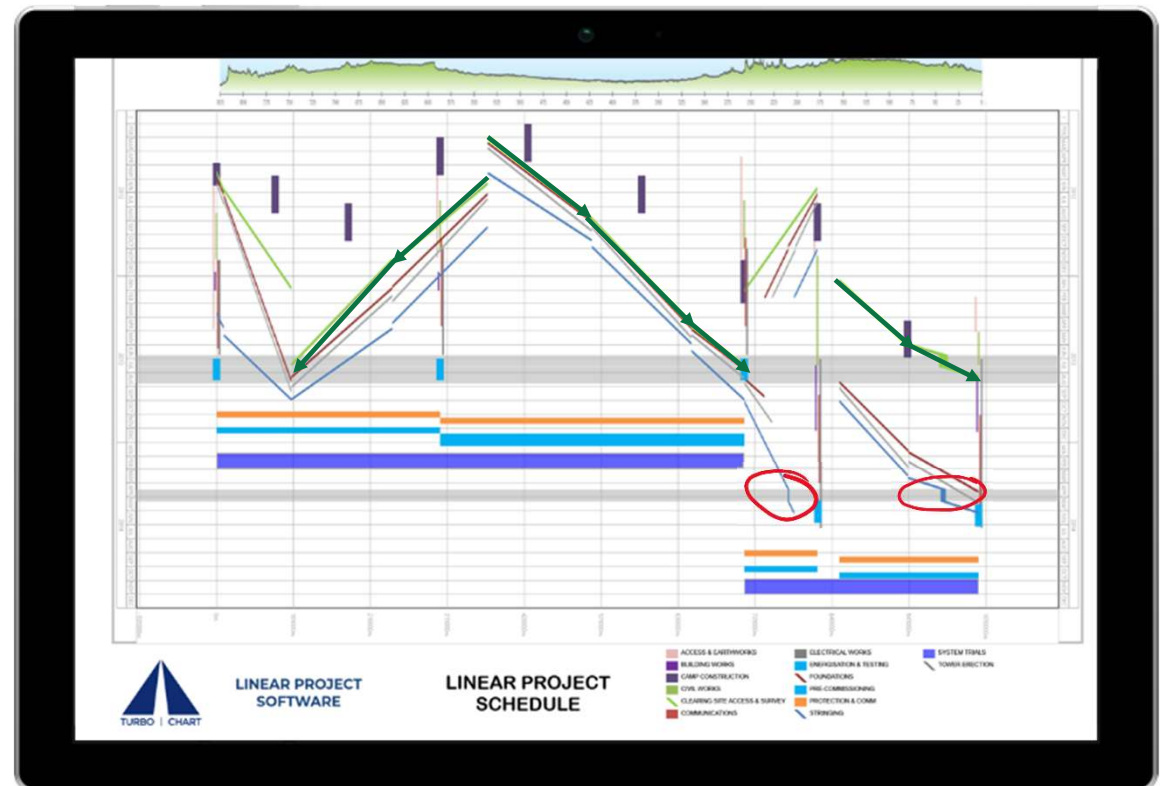


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-

# Benefits

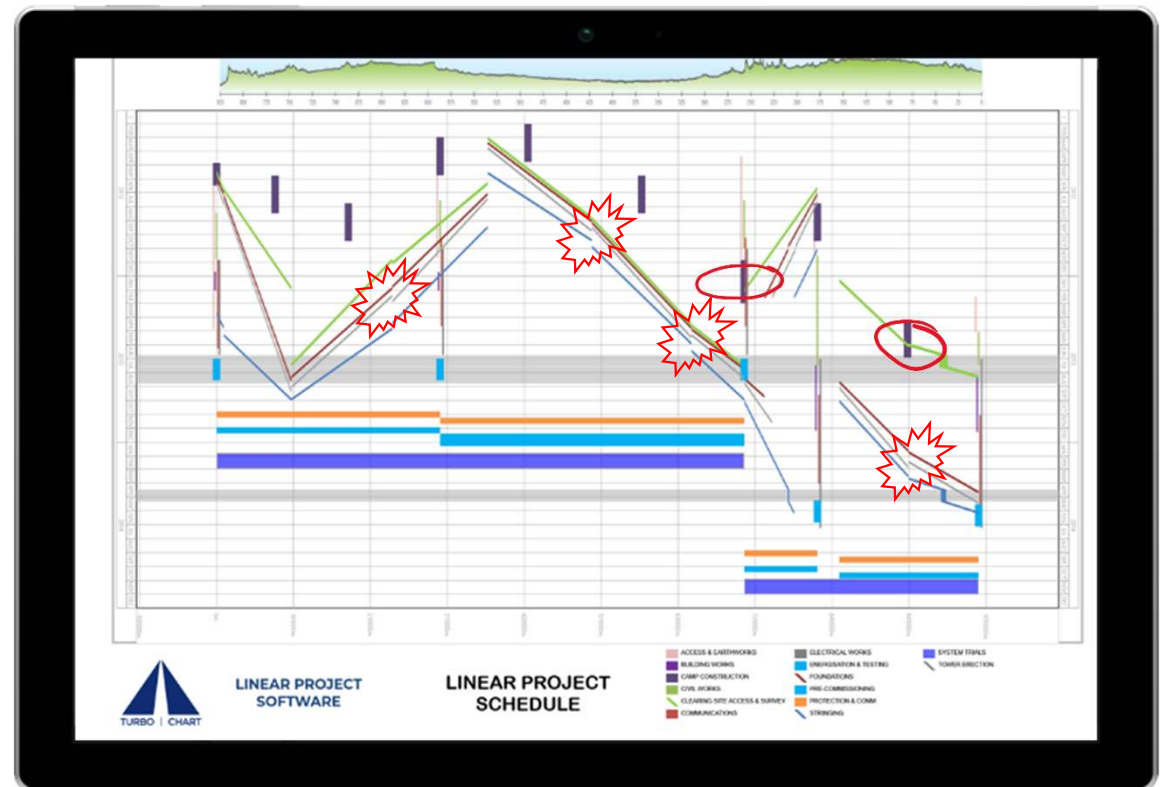
- Work Sequencing
- Crew Directions
- Production Rates
- Non-Work Periods





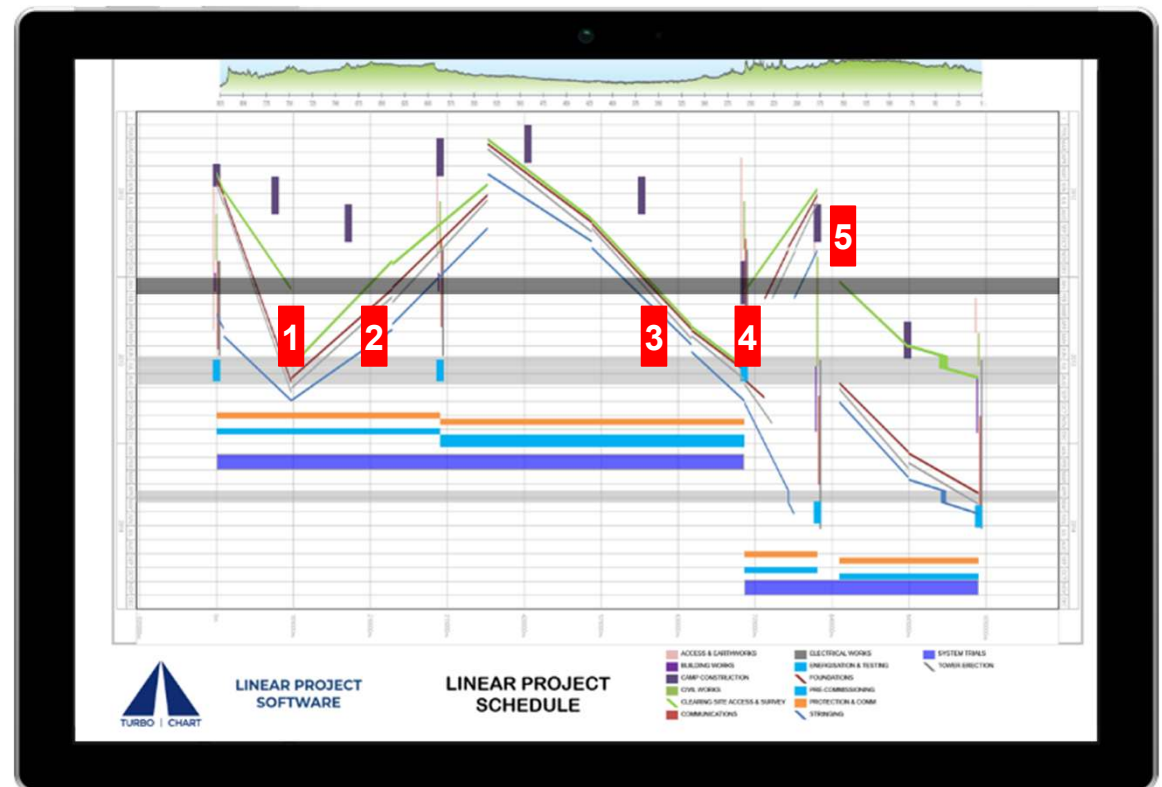
# Benefits

- Task Overlaps
- Task Clashes
- Duration, Logic or methodology errors



# Benefits

- Resource Analysis
- Resource Location
- Adjacent activities



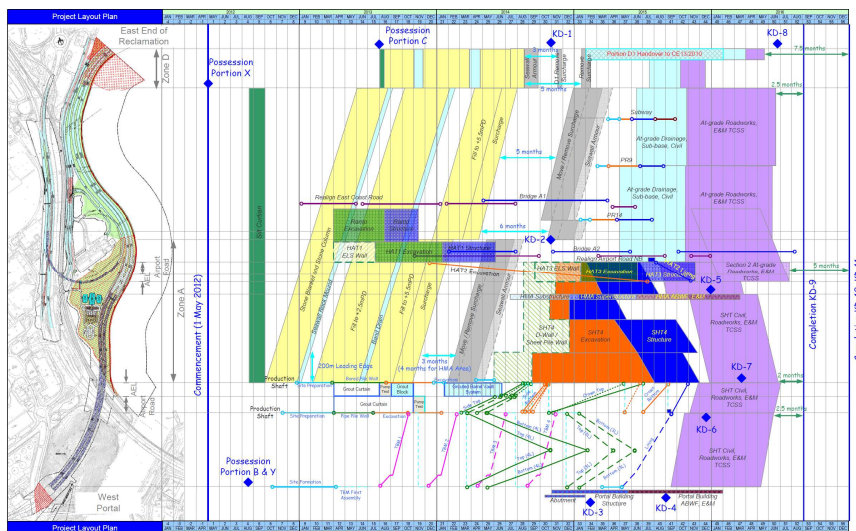
# Benefits

- Schedule Comparisons



## Bespoke Methods

- AutoCad, Graphical Tools, Spreadsheets
- Manual | Prone to translation errors
- Limited presentation abilities
- Non-scalable solution



## Specialised Linear Planning Tools

- Ideally suited to location based or Linear elements of a project that allow modifying the linear tasks to re-calculate the schedule
- Expensive and complex and require significant training and learning
- Duplicate Schedule – issues in re-integration or in multiple schedule/user situations
- **What about the non-physical, non-linear elements of projects?**

## Hybrid Method

- Append Data to existing CPM Schedules
- Exchange Data from CPM schedule to Linear Schedule (one way)
- Modifications/Updates are made in the Integrated CPM schedule
- Linear Schedule is updated to reflect changes



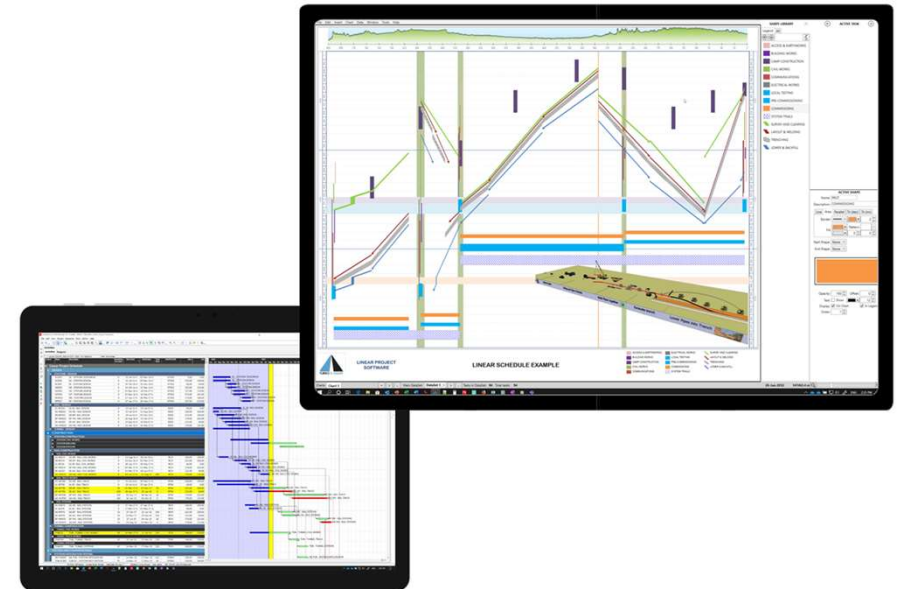
# Demonstration

## Turbo-Chart & Oracle Primavera Cloud

<http://turbo-chart.com>

- Download Free 14day Trial
- Purchase Subscriptions

[support@linearprojectsoftware.com](mailto:support@linearprojectsoftware.com)







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