Effective Management of Production Planning Information Using vPlanner

LCI Congress Exhibit Hall Webinar Series

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the visual planning solution for lean project delivery
What is vPlanner?

vPlanner is a complete Plan-Do-Check-Act (PDCA) visual planning solution. It supports all the phases of the Last Planner® System via an integrated easy-to-use interface.
vPlanner streamlines Production Management in various contexts including:

- **Design Planning (Handoff Work Planning):**
  (short interval planning, immerging priorities, disjointed chains of activities).

- **Construction Planning:**
  (repetitive or non-repetitive activities based on work flow).

- **Commissioning Planning:**
  (Logic-driven networks of activities from the devices level to the system level).

- **Move Management Planning:**
  (Strong emphasis on sequence of handoffs between multiple stakeholders).

- **Work Package Planning (WPP):**
  (supply chain focused approach to planning from design to activation).
**vPlanner**

The visual planning solution for lean project delivery

**vPlanner** (powerful ClickOnce light client for Windows XP-10)

**vPlanner-Web** (HTML-5 Universal Client)
vPlanner Support for the Last Planner® System of Production Control
Goal of Production Management

Do we know, with certainty that what we are working on today getting us where we need to be, on time and in the proper sequence?

• What **SHOULD** be done (When, Where, by Whom)

• What **CAN** be done (When, where, and by Whom)

**Goal of Production Management – Align CAN with SHOULD**

• What **WILL** be done from what CAN be done.

• What **DID** get done from what WILL be done
The Last Planner® System

Teams monitor commitments to stay on track & improve

Last Planners identify and make promises to define what **will** be done

Regular lookahead planning identifies constraints so that work **can** be done

Pull Planning & Production System Design establish what **should** be done

vPlanner

*The visual planning solution for lean project delivery*

**Commitments Management**

**Weekly Work Planning**

**Make Ready Planning**

**Phase Schedule**

**Master Schedule**

**Near-Term Planning**

**Long-Term Planning**

*Last Planner is a trademark of the Lean Construction Institute*
The Last Planner® System

Teams monitor commitments to stay on track & improve

Last Planners identify and make promises to define what will be done

Regular lookahead planning identifies constraints so that work can be done

Pull Planning & Production System Design establish what should be done

Goal 1: Shield Near-Term Plans from Uncertainty of Long-Term Plans

Goal 2: Align Near and Long Term Plans

*Last Planner is a trademark of the Lean Construction Institute
The Last Planner System is a Plan / Plan / Plan / Do / Check / Act System (PPPDCA)

**DONE**

**WILL**

**CAN**

**SHOULD**

**SHOULD**

Commitments Management

Weekly Work Planning

Make Ready Planning

Phase Schedule

Master Schedule

Planning Cycle Time
The Cycle Time to Update the Milestone and Phase Schedules from the Weekly Workplans Typically Exceeds the Weekly Work Planning Cycle Time

Result

Aligning what *SHOULD* be done with what *CAN* be done is very time consuming and impractical
Why vPlanner?

DONE  WILL  CAN  SHOULD  SHOULD

Commitments Management

Weekly Work Planning

Make Ready Planning

Phase Schedule

Master Schedule

vPlanner

Scheduling Tools

*Last Planner is a trademark of the Lean Construction Institute
Planning with vPlanner
vPlanner – Pull Plan Organization and Management

Pull Plan Organized Using vPlanner
vPlanner Phase Schedule Management (Emphasis on Workflow)

Replication of Standard Activities + Time

Tasks and Logic can be Exported to P6
Main Features: Logic and Resource Flow Constraints

Logic Constraints (Order of Activities)

Resource Constraints (Direction of Flow)

Multi-Task Editor to associate standard activities to areas of work
Main Features: Daily Planning Boards Arranged Based on Pull

**Timeline (Daily – Weekly)**

**Backward Calculations**
Establish What Should Be Done

**Forward Calculations**
Establish What Can Be Done

Activities are automatically split into single tasks and arranged on “Electronic Planning Boards”. 

**Main Features:**
- Daily Planning Boards arranged based on pull
- Activities are automatically split into single tasks and arranged on “Electronic Planning Boards”.
- Timeline (Daily – Weekly)
  - Backward Calculations: Establish What Should Be Done
  - Forward Calculations: Establish What Can Be Done

Locations
Main Features: Make Ready Planning

- **Timeline**
- **Locations**
- **Lookahead Window**

Activities are automatically split into single tasks and arranged on “Electronic Planning Boards.”
Main Features: Make Ready Planning

Activities are automatically split into single tasks and arranged on “Electronic Planning Boards”

- **Main Feautures:**
  - Make Ready Planning
  - Activities are automatically split into single tasks and arranged on “Electronic Planning Boards”
  - **Main Features:**
  - **Integrated Constraint Log**
  - **Lookahead Window**
  - **Impacte Produced Activities**
  - **Added Constraints** (Design RFI)

### Table Example

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<th>Dur</th>
<th>Diff</th>
<th>Owner</th>
<th>Company Name</th>
<th>Team</th>
<th>Status</th>
<th>Forecast Start</th>
<th>Forecast Finish</th>
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<td>A12</td>
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</table>
vPlanner Weekly Work Planning

Weekly Work Plan

Two Week Lookahead

Six Week Lookahead
Completed Activity: PPC is updated accordingly.

Completed With Backlog: PPC is updated accordingly. New go-back activities created to capture go-back work.

On Going activity: PPC is updated accordingly. Remaining duration adjusted to capture remaining work.

Incomplete Activity: PPC is updated, reasons for variance are identified, and root cause is recorded.
vPlanner Benefits – Reduces the Overall Cycle Time of the PPPDCA Process

Using vPlanner you can reduce the *Cycle Time* of the P-D-C-A Process
vPlanner: Typical Work Week

- Status Remaining Commitments (~30 Min)
- Some Re-planning (0-90 Min)
- Create Weekly Workplans (~30 Min)
- Daily “Huddle” (~15 Min)
- Make Ready Planning and Pull Planning (~90-120 Min)

*Investment: 4-5 Hours per week*
vPlanner V2.0 - Supported Workflows

- Pull Plan
- Verify Durations
- Make Ready Planning
- Verify Plan Meets Targets
- Weekly Work Planning
- Manage Daily Activities
- Integrated Analytics
  (longest paths, late paths, logic trace, task priority...)

- Import Manager
- Act

- Schedule Planner (Trimble)
- Primavera P6
- MS Project

- Export
  - P6
  - MS Project
  - Excel

- Check
  - PPC
  - Variance
  - Milestones
  - Lookahead Reliability
  - Labor Hours
Reporting Tools
Reports: Percent Planned Complete (PPC)
Where and How to Get Started?

Critical Success Factors
vPlanner Elastic Subscription Model

Flexible Pay-Per-Use Approach

• **Comprehensive Solution:** offers the most comprehensive set of features to manage production and the Last Planner® system.

• **Competitive:** Lowers the entry level to $1,500 initial deposit.

• **Flexible:** You decide how to best apply vPlanner to your projects.

• **Scalable:** You pay for what you use quarterly.

• **Rewarding:** You pay less if you use vPlanner more with annual volume discounts (up to 50% savings).

• **Predictable:** set spending limits.

• **Risk Free:** 30 day risk free for qualified new users
Coaching and Support Services Build

• **Capability**
  Internal skills, knowledge base, tools, experience: we provide training

• **Capacity**
  Internal Staff, Preferred Supplier Networks, Resources; we supply strategic guidance

• **Culture**
  Learning vs. Knowing, Collaboration, Innovation, Modern TQM: we support leadership development and change management
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More Information?

http://www.myvplanner.com

Join the vPlanner LinkedIn Group

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Plus/Delta

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