

VTrans Project Development Process

**House Transportation Committee Presentation
January 9, 2014**

Collaborative Process

- **Various VTrans Sections**
- **Regulatory Agencies**
- **Regional Planning Commissions**
- **Selectboards/Town Officials**
- **Local Community Groups**
- **Property Owners**
- **General Public**
- **FHWA**

Project Development Process

- **Project Selection**
- **Project Definition (Scoping)**
- **Project Design**
- **Construction**

Project Selection

- **Asset Management**
- **Preventive Maintenance**
- **Prioritization**
 - Cost Effectiveness, Safety, Condition, RPC input, Project Momentum
- **Safety**
- **Legislative Action**

Project Definition – Purpose & Need

Local Concerns Meeting

Held to gather comments from the public, introduce the project area and initiate a working relationship.

Project Definition – Purpose & Need

Purpose & Need Statement

This document sets the framework for the project. It clearly states the concerns within the project area and the goal for any improvements.

Project Definition – Scoping

Alternative Evaluation

Alternatives that meet the purpose and need of the project are identified and evaluated for engineering criteria, community impact, property owner and environmental resource impacts.

Project Definition – Scoping

Alternative Presentation Meeting

Presentation and acceptance of a selected alternative

Scoping Report

Comprehensive document of purpose and need, alternative analysis and recommendation of alternative

Project Definition – Conceptual Design

The Conceptual Design of the project establishes the footprint of the project and identifies any potential impact on environmental or cultural resources.

Project Definition – 502 Hearing

Purpose: To present and solicit comments on the Conceptual Design.

Requirement: By state statute for any project requiring ROW acquisition.

Project Definition

Project Defined:

- Complete Conceptual Design
- 502 Hearing
- Completed NEPA document

Project Design

Preliminary Plans:

- Hydrology/Hydraulic Design
- Roadside/Safety Design
- Structural Design
- Subsurface Investigation
- Intersection Design
- Property Owner Visits
- Utility Relocations
- Traffic Control/Traffic Management
- Identification of specific environmental impacts

Project Design

Federal Permits:

- Section 106
- Section 4(f)/6(f)
- 404 Permit

State Permits:

- Wetlands
- Fish & Wildlife
- T&E Species
- Stream Alteration
- Agricultural Lands
- Act 250
- Historic Sites
- Archeology Studies
- Noise & Air
- Stormwater
- Erosion Control

Project Design

Revised Preliminary Plans:

Developed following property owner visits, utility relocation routes and issuance of permitting requirements.

Project Design

Right-of-Way:

- Prepare ROW plans
- Appraisals
- Necessity Hearing
- Negotiations
- Compensation Hearing/Condemnation

Project Design

Final Plans:

- Structural Details
- Traffic Signal/Timing Design
- Landscape details
- Revisit Environmental Permit conditions
- Finalize Traffic Control/Management Plans (to include communication plan)
- Cost Estimate
- Bidding Documents

Construction

- Advertise
- Bid
- Award Contract
- Bidding Documents
- **Construction!!!!**
- Final Inspection

Public Involvement

- Local Concerns Meeting
- Alternatives Presentation Meeting
- 502 Hearing
- Property Owner Visits
- Act 250 Hearings (as required)
- Informational Meetings (as required)
- Necessity Hearing
- Compensation Hearing
- Local Board Meetings
- Communicate project impacts to customers throughout all phases of a project.

Measuring Performance
of the
VTrans Project
Development Process

Schedule Performance Measure

- 80% of all projects being advertised for construction (**Bid advertisement**) on time per calendar year.
- On time is defined as a project being advertised no later than 30 days from the day indicated in the project schedule on January 1 (snapshot) of that calendar year.
- Innovation encouraged in developing project schedules based on collaboration with internal and external partners.
- Framework based on the team focusing on solutions:
 - Communication, communication, communication
 - No Excuses
 - If we fail, WE ALL FAIL

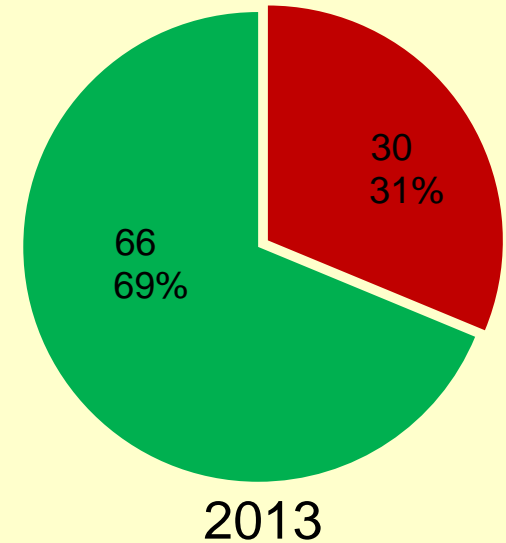
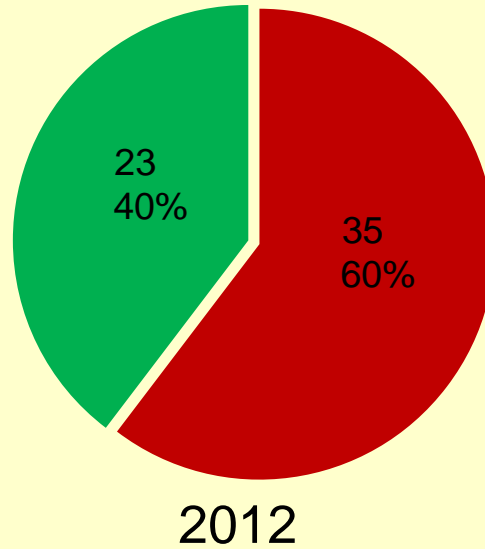
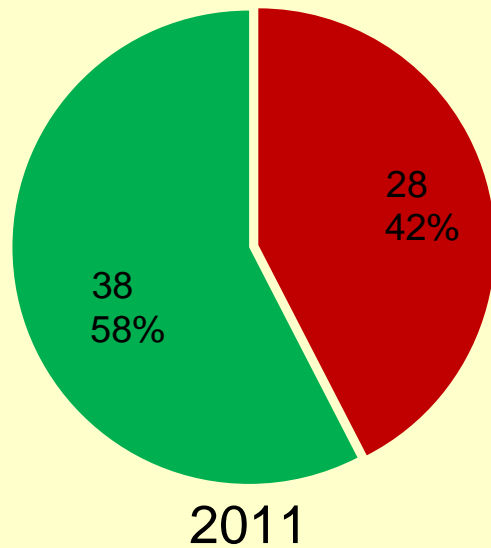
Schedule Snapshot

- Snapshot of all Capital Program Projects taken on January 1 of each year.
- Hundreds of project schedules captured.
- Each project has between 30 and 75 activities.
- Current focus is on one year of project delivery.
- Measurement of Milestones: NEPA, Environmental Permits, Geotechnical, Preliminary Plans, Utilities, ROW and Bid Advertisement
- All programs are being measured
- Primary focus for measurement is on **Bid Advertisement**.
- Locally managed projects are being tracked separately.

Why Bid Advertisement?

- The final milestone before a project enters the construction phase.
- The point in the development process where our customers begin to be physically impacted.
- Contracting community relies on these dates to prepare bids, project workloads, materials, etc..
- Obligation of federal funds for the construction phase.

Bid Ad - Performance History



2013 – Projects Delivered

- 66 of 96 snapshot projects delivered on time.
- 38 on time projects delivered on the exact date or ahead of schedule.
- 37 on time projects delivered within 14 days of snapshot schedule.
- 85 projects delivered during calendar year
- 4 projects added and delivered

2013 – Projects Delayed

- 30 of 96 snapshot projects delayed beyond 30 days.
- 14 delayed projects delivered in 2013.
- 15 delayed projects to be delivered in 2014.
- 10 delayed projects were Irene ER culverts with undefined impacts on January 1, 2013.
- 8 project delays impacted anticipated construction season
- 5 projects delayed due to utility impact/coordination

Production Heat Map

| | | | | | | | | | | | | | | |
|-----------------------|------------------|------------------|---------|------|-----|---|-----|-----|------|-----|-----------|------------|------------|-----|
| BRISTOL | BRO 1445(32) | LACROIX, JIM | VTrans | C | C | C | C | -15 | 365 | C | 6/26/2013 | | 6/12/2013 | -14 |
| OLD BENNINGTON | STP EH09(1) | ROBERTSON, SCOTT | Locally | C | C | - | D | 0 | -189 | - | 6/26/2013 | 4/15/2014 | | 293 |
| SWANTON-ST. JOHNSBURY | STP LVRT(1) | PERRIGO, JOEL | Locally | C | C | - | C | 366 | 128 | - | 6/28/2013 | 1/16/2014 | | 202 |
| BRANDON | NH 019-3(496)C/1 | ROBERTSON, SCOTT | Locally | - | - | - | - | 250 | 98 | - | 7/03/2013 | | 12/18/2013 | 168 |
| RICHMOND | CMG PARK(31) | BOHL, TINA | VTrans | C | C | C | C | 30 | -46 | -41 | 7/08/2013 | | 5/29/2013 | -40 |
| HINESBURG | STP SRIN(24) | ROBERTSON, SCOTT | Locally | C | C | - | - | 194 | 251 | - | 7/11/2013 | 3/14/2014 | | 246 |
| STOWE | BRF 029-1(17) | CARLSON, CAROLYN | VTrans | C | C | C | 4 | 35 | 50 | -21 | 7/17/2013 | | 7/17/2013 | 0 |
| RUTLAND CITY | NH 2716(1) | FOWLER, MIKE | VTrans | C | C | C | C | C | 82 | 20 | 7/24/2013 | | 8/14/2013 | 21 |
| RUTLAND CITY-PROCTOR | STP 2728(1) | FOWLER, MIKE | VTrans | 35 | C | C | 35 | C | 82 | 20 | 7/24/2013 | | 8/14/2013 | 21 |
| STOCKBRIDGE-BETHEL | STP 2910(1) | FOWLER, MIKE | VTrans | -8 | C | C | -3 | C | 146 | 264 | 7/24/2013 | 4/02/2014 | | 252 |
| MIDDLEBURY | SB VT04(006) | ROBERTSON, SCOTT | Locally | C | C | - | C | 487 | C | - | 7/31/2013 | 2/09/2015 | | 558 |
| BARRE TOWN | STP EH06(19) | ROBERTSON, SCOTT | Locally | C | - | - | C | 283 | 318 | - | 8/01/2013 | 7/31/2014 | | 364 |
| GUILFORD | IR 091-1(25) | LIBBY, PAUL | VTrans | -131 | C | - | C | C | -27 | 51 | 8/05/2013 | | 9/04/2013 | 30 |
| MONTPELIER | STP EH08(8) | KAPLAN, JON | Locally | C | C | - | 23 | 49 | 10 | - | 8/08/2013 | 1/02/2014 | | 147 |
| BERLIN | STPG SGNL(40) | COBURN, PATTI | VTrans | C | 154 | C | C | 407 | 437 | 447 | 8/08/2013 | 11/12/2014 | | 461 |
| WATERBURY | BRO 1446(35) | PERRIGO, JOEL | Locally | 89 | 11 | - | -50 | 88 | 27 | - | 8/09/2013 | | 7/23/2013 | -17 |

What's Next?

- Exceed 80% goal in 2014.
- Develop tools to improve data availability and transparency.
- Improve communication of activity, project and program expectations with internal and external partners.
- Continue to link performance measures to staff performance expectations.
- Strengthen performance measures associated with project costs.
- Enhance the connection between quality and performance measures.