Trans-AM

Customizable, Open-Source Software for Transit Asset Management





Transportation leadership you can trust.

Outline

- Project History
- Current PROGGRES System
- Future Trans-AM System



Project History

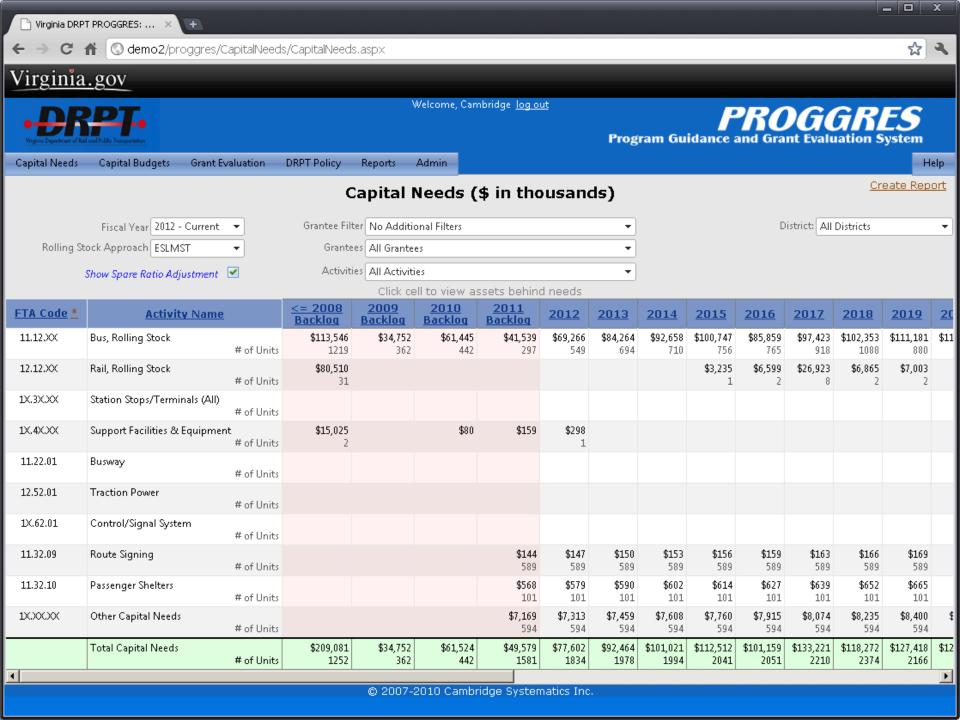
- Virginia Department of Rail and Public Transportation (DRPT)
 identified a need to manage grants to transit agencies taking
 into account short- and long-term capital needs forecasts
- Cambridge Systematics developed the Program Guidance and Grant Evaluation System (PROGGRES)
- Virginia DRPT and CS applied for an FTA grant to update and extend the system (now called Trans AM)
- PennDOT Bureau of Public Transportation joined the team with similar needs to Virginia DRPT, and some additional requirements

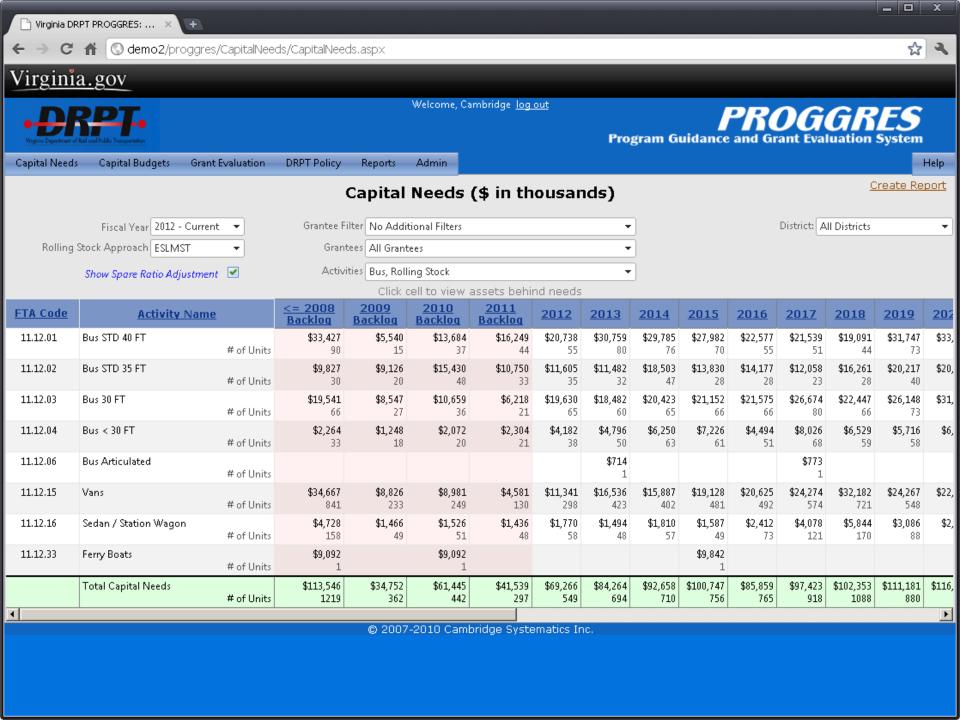


Project History DRPT's Goals for an Asset Management System

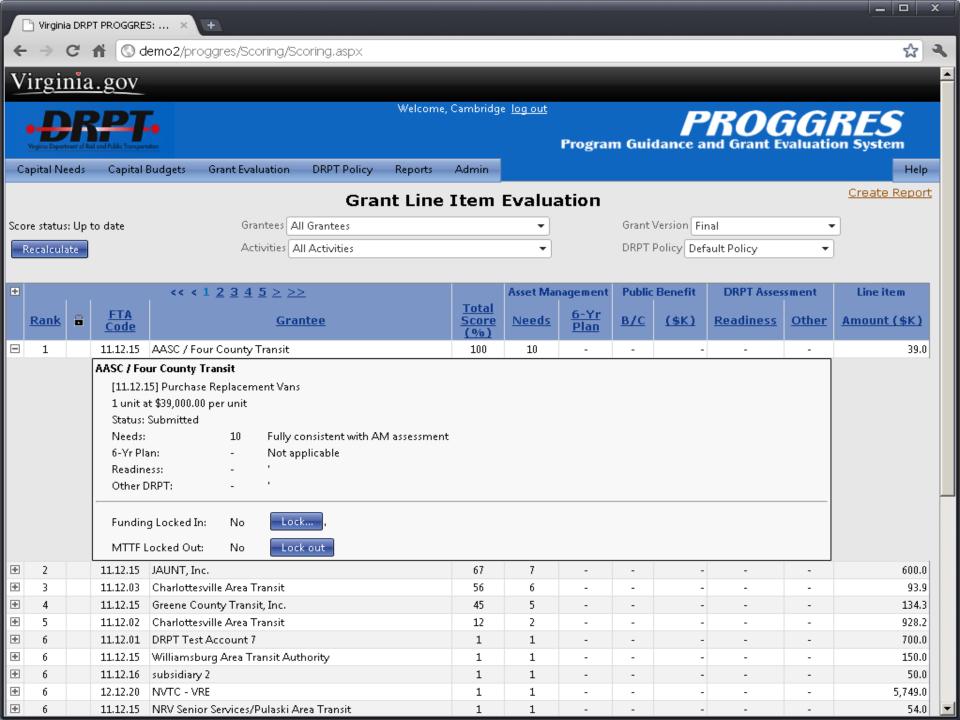
- A quick, equitable and systematic method of assessing the applications for our limited grant resources
- A realistic method of calculating capital needs over a 20 year planning horizon
- A method for scoring applications based on several criteria, such as public benefit model, compliance with planning requirements, etc.

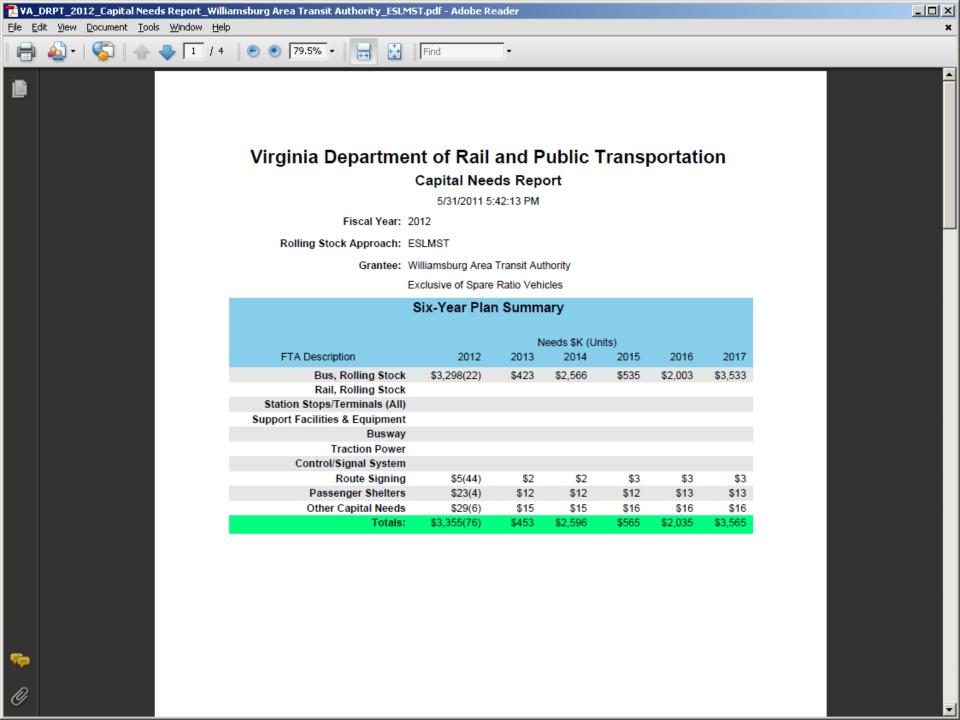


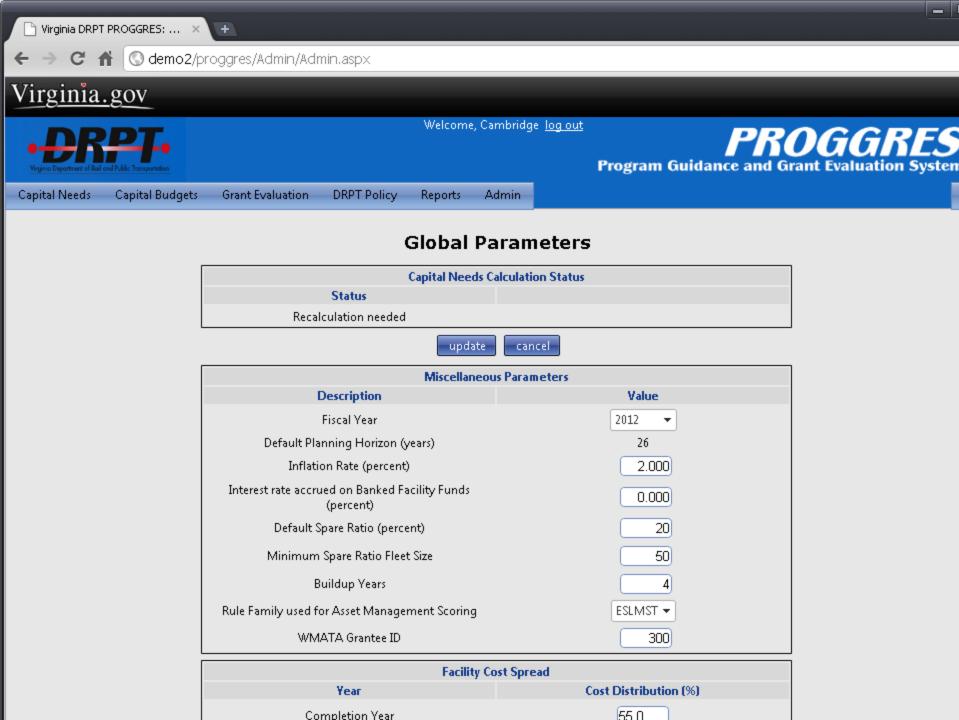












Future Trans-AM System System Features

- Web based can be installed by an agency or run "in the cloud"
- Relies on free, open-source databases and related tools
- Open XML interfaces support linkages with existing databases and systems



Future Trans-AM System Project Benefits

- Advanced approach based on established, proven technology
- Open source community involvement spurs innovation among industry, research, academic, and vendor communities
- Users will be freely able to modify and adapt the system to meet their own needs



Future Trans-AM System Work Plan

- Identify a "Peer panel" of transit properties to define requirements
- Develop visual prototypes to refine and agree on the system design
- 3. Iterative, incremental development
- 4. Deployment, implementation, training, and support for DRPT and PennDOT
- 5. Establish Open Source project, training, & outreach



Future Trans-AM System Core Functions

- Store, maintain, edit, and report on capital assets, including identifying information, condition, and age.
- Predict capital needs using flexible and customizable deterioration and aging models
- Define projects and programs to replace, rehabilitate and overhaul capital assets
- Define, maintain, edit and report on funding sources, including long-term and short term funding scenarios
- Perform supervisory functions for member agencies



Future Trans-AM System Additional Functions for PennDOT

- Integration with the Pennsylvania dotGrants software
- Integration of Trans-AM with the PennDOT Twelve-Year Plan (TYP) and Transportation Improvement Program (TIP)
- Capabilities related to Pennsylvania-specific funding processes and programs, including unique workflows for project submission, review, and approval



Future Trans-AM System Next Steps

- PennDOT and DRPT intergovernmental agreement
- Form panel of transit agencies
- Begin requirements gathering in the next month or two

