Effectiveness of Technology

2011 Infrastructure Forum
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Chris Masters, P.E.
Dallas Area Rapid Transit
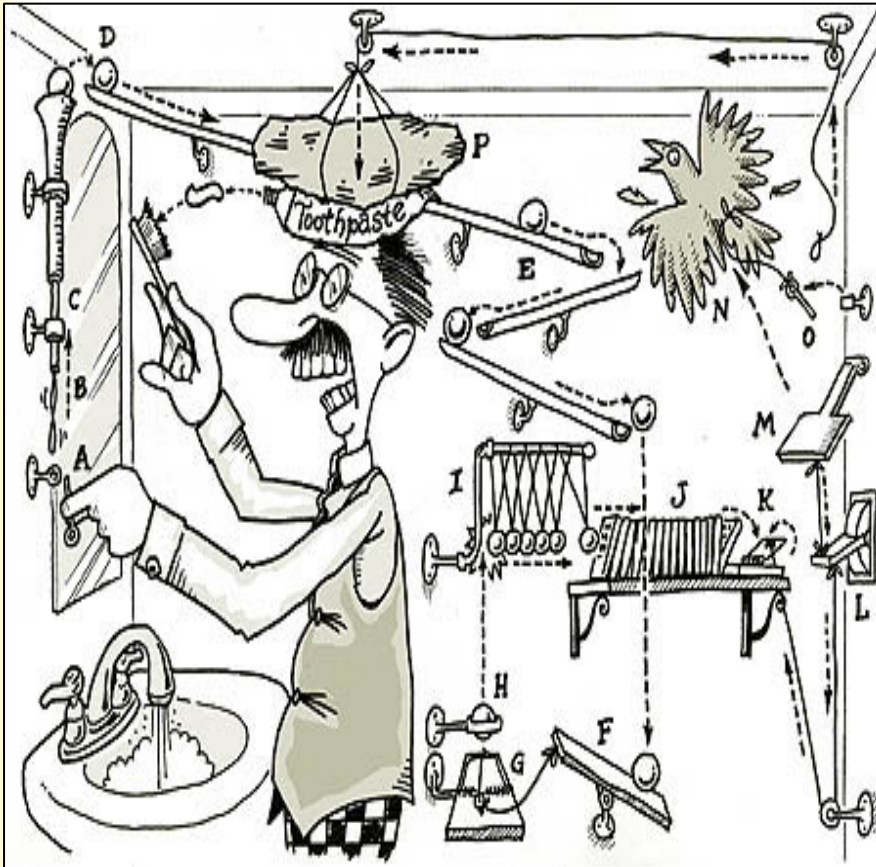
Technology

Why Introduce Change?

Drivers of Change

- Need for Improvement

- Benefit must Out-Weigh Cost

- Must be **<u>Effective</u>**!

Taking a Chance

- What is the need?

- Can Technology Help?

- Will it **<u>Actually Work</u>**?

The Good, The Bad &.......

- Attempted Several Initiatives

- Some have Worked Well, Others Need Work

- Here are a few examples…

Technology Initiative Examples

<u>Success</u> - Project Portal

<u>1st Step Taken</u> - Central Real Estate Inventory

<u>Door Opening</u> - Web Based Management

<u>Just Starting</u> - Tablet Technology

Project Portal

<u>Situation</u>:

<u>*Printed*</u> Monthly Budget Books & Program Schedules

Available to Senior Managers

<u>Need</u>:

Access to Real-Time Data for all Team Members

Project Portal

Dashboard Platform
for
Ease of Viewing

Project Portal

Summary Description
of
Project Scope

Project Portal

Program Schedules
Updates Monthly
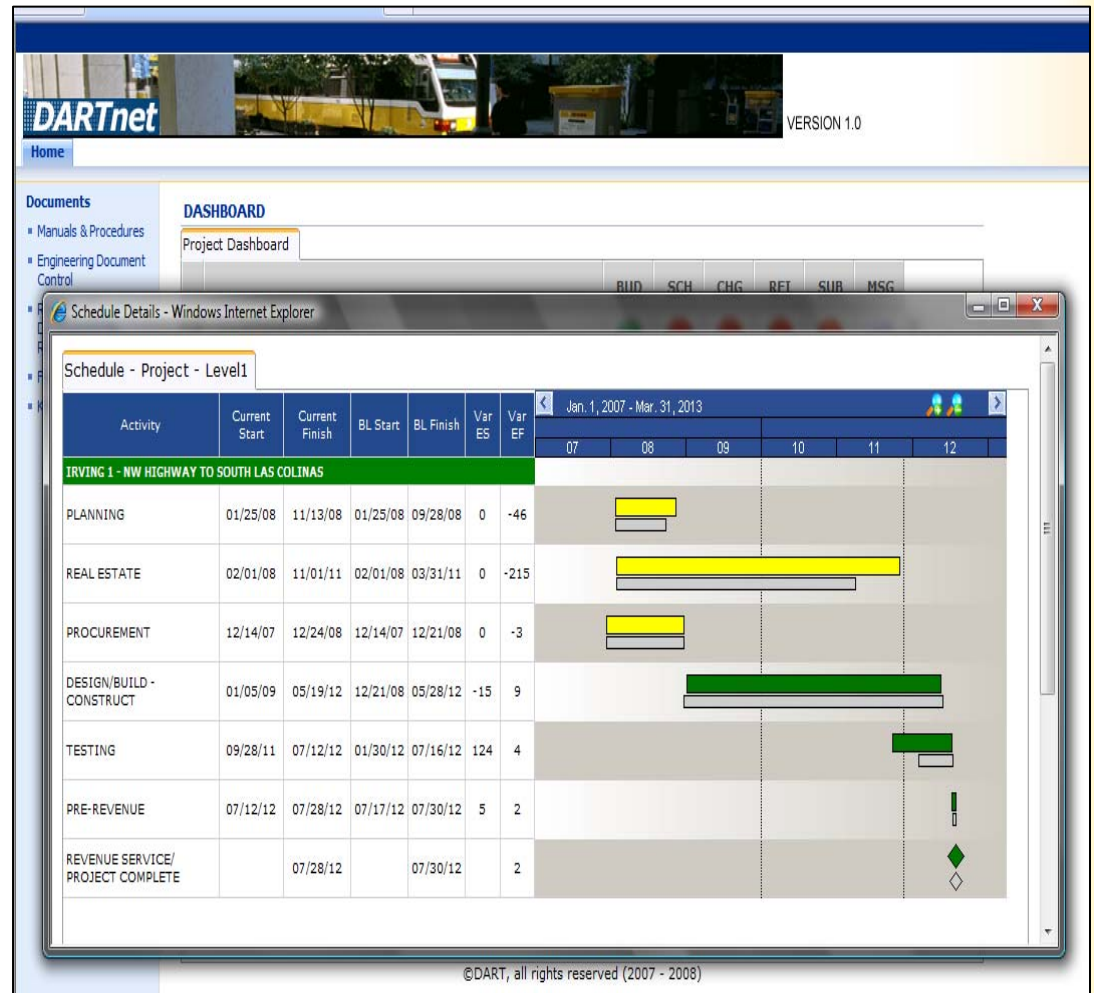
Project Portal
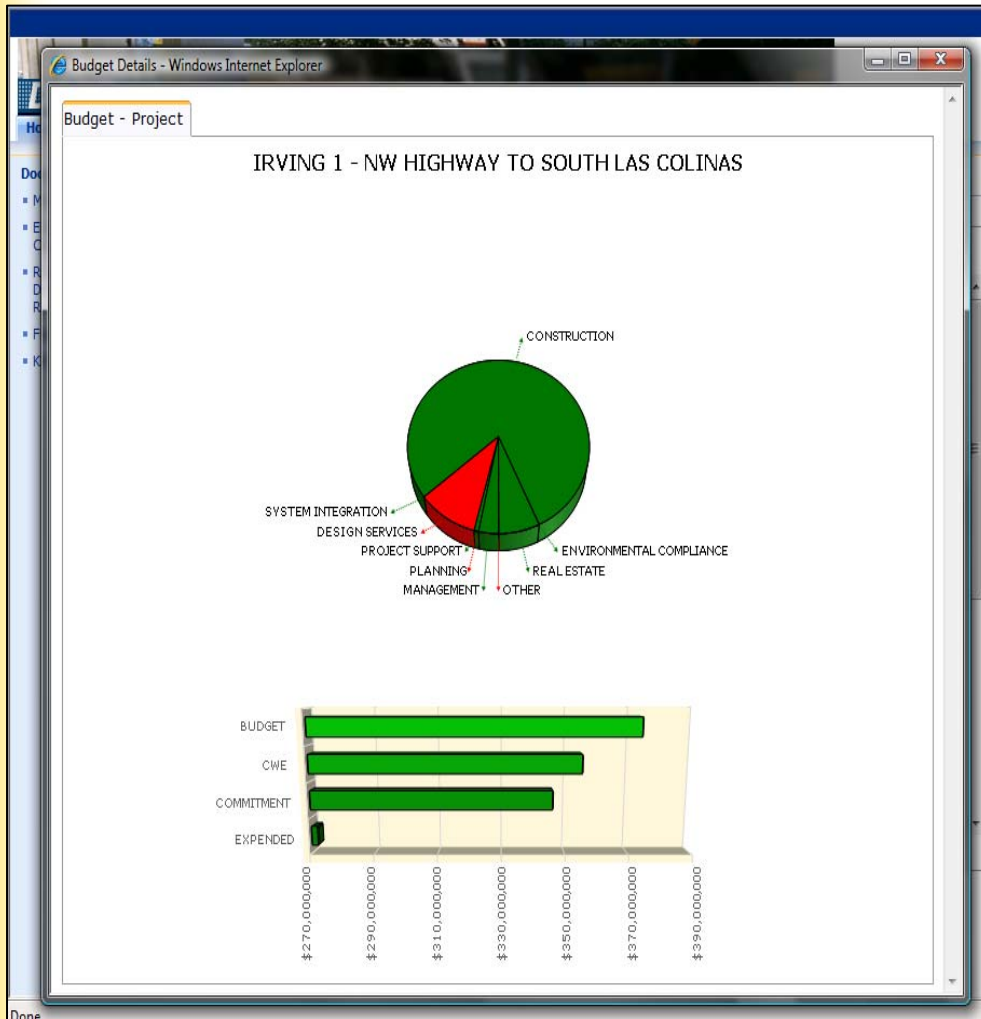
- Budget Data From Cost Management System (CMS)

- Integrated with DART Finance

Project Portal

- Updated Monthly

- Drill down into budget line items

- Export to Excel

Project Portal

Effectiveness

Increased Ability to Manage

The "Health" of a Project

Central Real Estate Inventory

Situation:

Decades of Paper File

Available to Real Estate

Need:

Ability to Access, Sort, Search and Analyze Documents

Available to Project Team

Central Real Estate Inventory

We cover a lot of Area
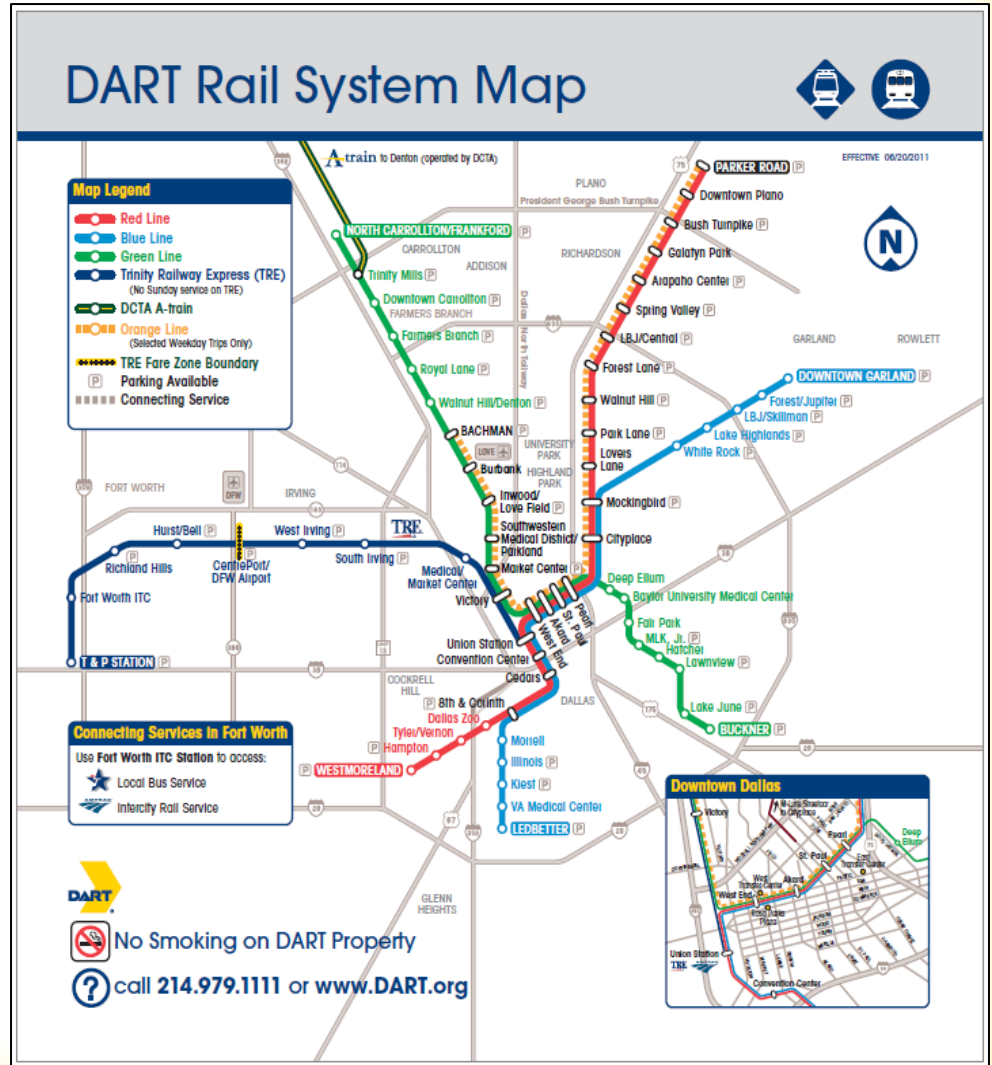&
Manage a lot of Properties!

Central Real Estate Inventory

Central Real Estate Inventory

Search Real Estate: [   ] [Search]

Searches: Agreement number, address, city, zip, title, description, intersection, customer name, previous owner (Advanced)

MENU   All   Uses   Assets   Recent   Notes

Menu

Count: 2 ID number: 200048

This application displays and searches DART real estate and leases. It will search the information stored by DART Real Estate in DARTnet tables, and Lawson Lease and License module.

NOTE: If you delete a record in Lawson (usally to change the customer number), you must re-enter the record with the same agreeement number. Do not permentantly remove a record from Lawson.

All
    Displays lists of different groupings for the information. Users can group all records by: city, agreement type, status, zip code, mapsco guide and page, source, previous owner, federal funding, title company
Uses
    Displays the uses that have been assoicated with DART property. Each parcel may have more than one use, and each use may have more than one parcel.
Assets
    Displays all Lawson fixed assets (type LAND), and their associations with DART property. Each parcel may have more than one asset, and each asset may have more than one parcel. Click here for the Lawson Asset Manager.
New Record
    Displays the form to create new real estate records in this application. Use this form for all records, except those of type 'Lease' and with a status of 'Active Revenue'. Those are entered using the Lawson Lease and License module.
Recent
    Displays all records modified in the last 5 days.
Notes
    Displays scope document, design team, and other coorspondence related to this project.
Synch Lawson
    Interface that is required after new agreements are entered in the Lawson Lease and License module. This will create matching records on DARTnet for each of the Lawson agreements. This interface must be called before any attachments can be made.

Searchable by…

– Agreement number

– Address

– Title

– Description

– Intersection

– Customer Name

– Previous Owner

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Central Real Estate Inventory

- Linking to Map System for Parcel Location

- Linked to Agreements for Property Acquisition / Use

Central Real Estate Inventory

Next Steps…

- Complete data upload

- Complete linking to maps

- Final Validation

- Fully Operation

Real Estate Data Base

__Effectiveness__

Increases Ability to Manage
Agency's Property Assets

Web Based Management

Situation: Existing Program, Specifically Tailored for DART, Significant Investment, **Out Of Date**

Need: More Robust Management Program covering more Aspects of Program Management & Delivery

Web Based Management
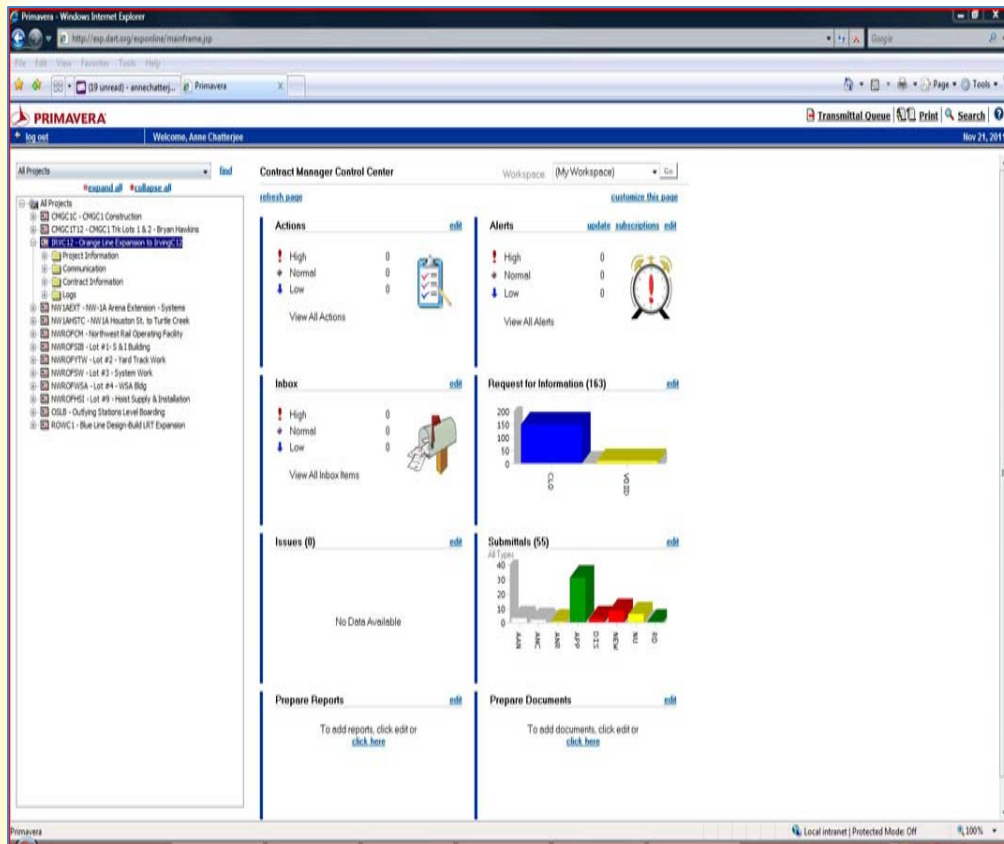
Current program…

- Provides access to Management Documents

- Generates reports on Document Statistics

- Limited and Cumbersome

Web Based Management

- Exposed to New Programs through Design-Build Contracts

- Ability to Generate, Manage & Access more Features

Web Base Management

Effectiveness

Would Increase Productivity
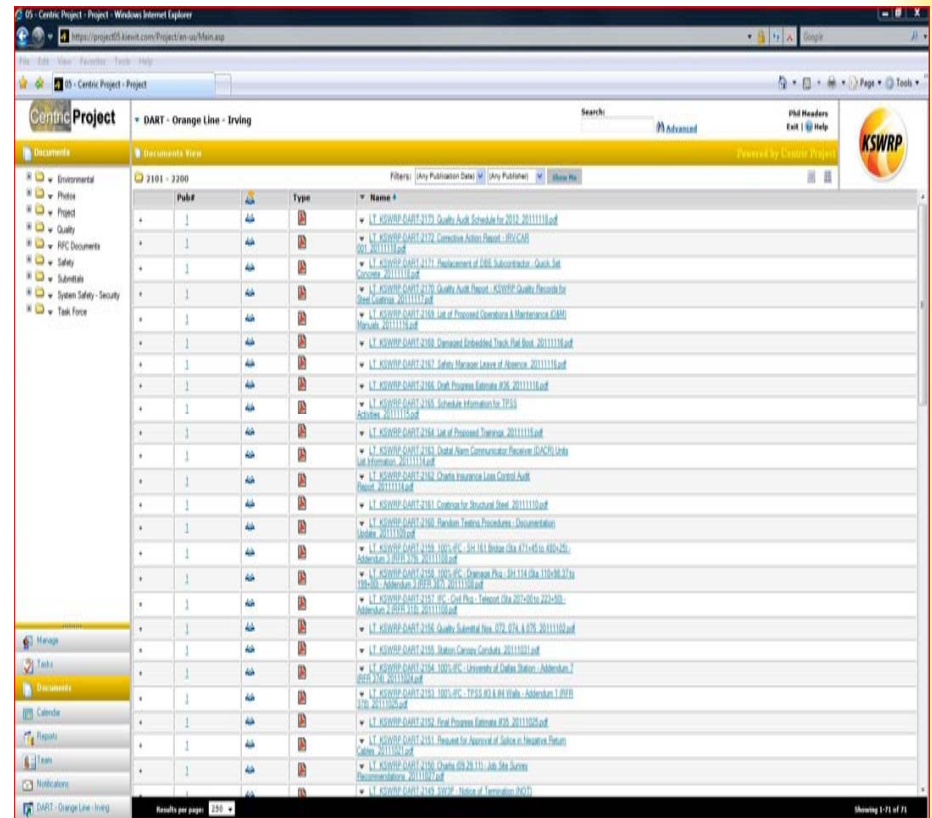and Project Transparency

Tablet Technology

Situation: We need a lot of info & Carry **a lot of Paper!**

Need: Reduce dependence on Paper & Increase access to **most current** Documents

Tablet Technology

- Began to Look into Tablets

- Security Firewalls limit *Network File access*

- Software Compatibility limits *file size* for attachments

Tablet Technology

- Microsoft Tablet has "Laptop" characteristics

- Possible solution to some Restrictions from other Tablets

- Undergoing field testing

Tablet Technology

Effectiveness

To Be Determined

Moving Forward

- Stay in Tune with available Technologies

- Don't be Attracted to "Shiny Things"

- Make sure Choices are **Effective**

214.979.1111
www.DART.org