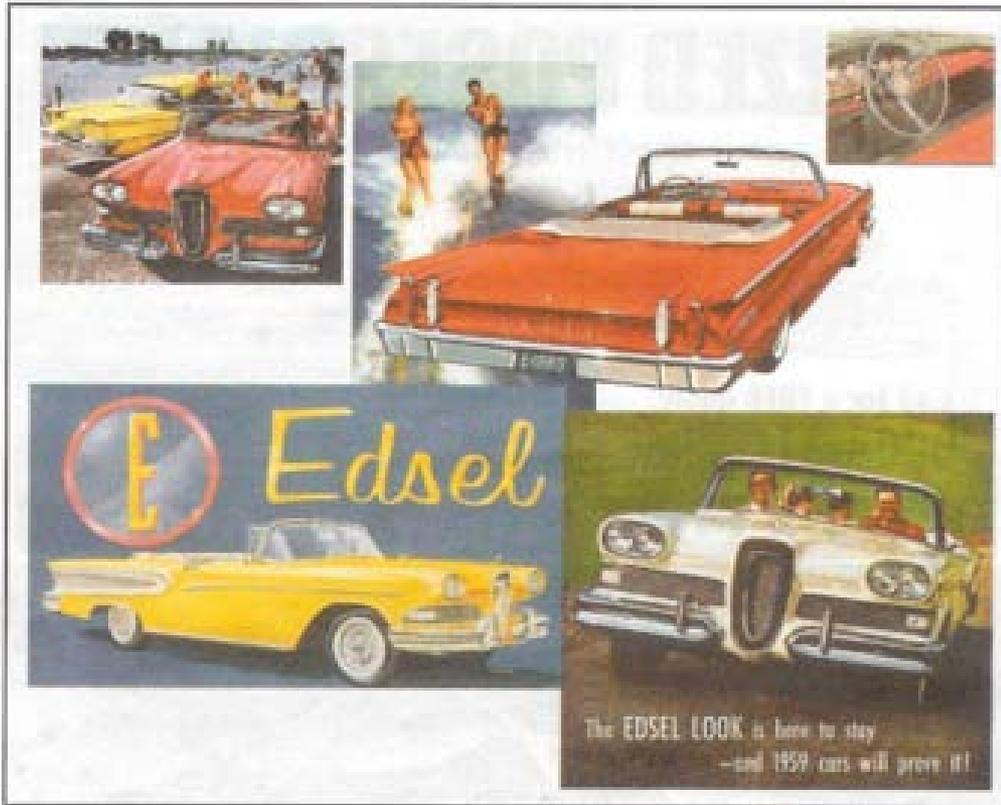




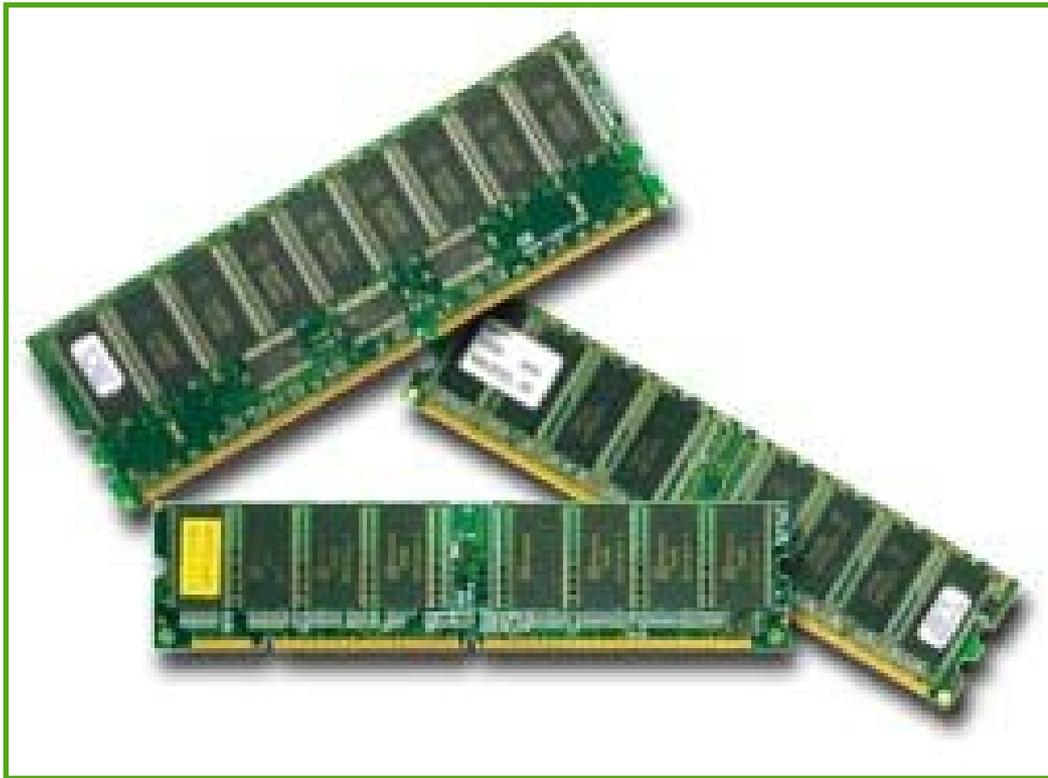
# Famous Bad Predictions



**"The EDSSEL LOOK  
is here to stay,  
and the 1959 cars  
will prove it!"**

**- EDSSEL sales brochure**

# Famous Bad Predictions



**"640K ought to be enough for anybody."**

**-Bill Gates**

# Famous Bad Predictions



**"By the turn of the century, we will live in a paperless society."**

**- Roger Smith, chairman of General Motors, 1986**

# Paper Nobody's Perfect

## Paper-based markup workflows:

- Slow with manual delivery of annotated drawings
- Error-prone during markup re-entry
- Loss of data with annotated drawings being damaged or misplaced
- No convenient connection between drawing markups and digital design tools

# Paper What if?

- ... there was a way to instantaneously transfer paper-based markups from the field with no waiting?
- ... there was a way to capture the paper-based mark-ups error-free, lossless and ready-to-use?
- ... the mark-ups were automatically associated with the original design data and available to all project participants?
- ... all this could be done without changing the paper-based markup workflows that you use today?

# ProjectWise Dynamic Plot solution

Review/Markup solution that uses plain paper and a digital pen to dramatically streamline the process for updating original design files from office or field worker comments



**Print**



**Mark-up**



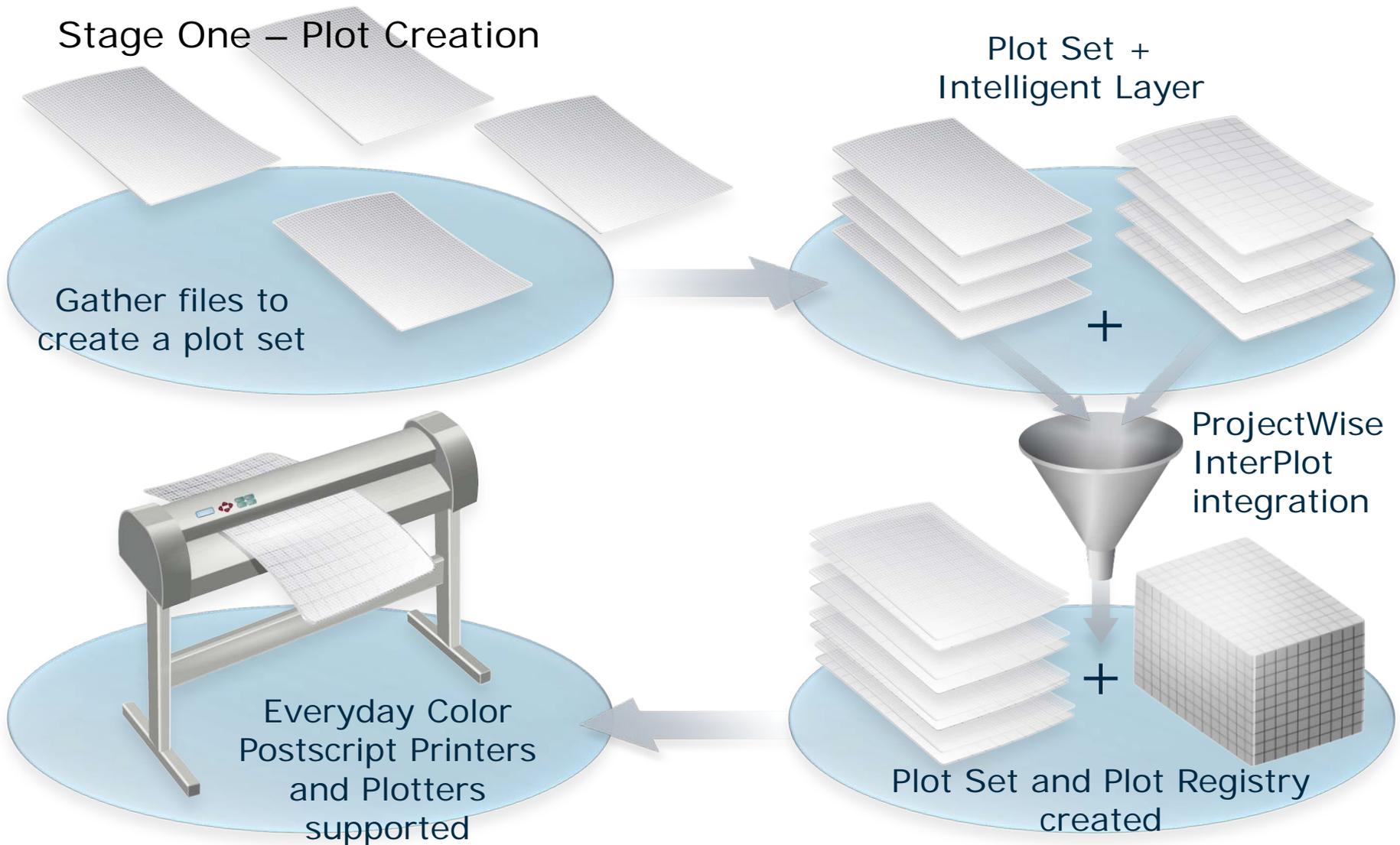
**Share**

# Benefits

- **Reduces operational costs**
  - Data can be sent instantly from the field, eliminating the cost of travel and administration
  - No need to re-key or re-type your data saving time and money.
- **Improves Project Collaboration**
  - Project members can work together better, with information gathered and disseminated in real time
- **Mitigates Risk**
  - Changes are immediately captured and tracked for review & audit
- **Decreases time to decision**
  - Field work is documented and integrated in near-real time, with perfect accuracy
- **Simple to Learn**
  - Personnel work with pen and paper, so there is virtually no training required
- **Suitable for office or field use**
  - Digital pen is highly portable, durable; works for up to seven days on a single charge;
  - Stores up to 50 pages of content

# ProjectWise Dynamic Plot Workflow

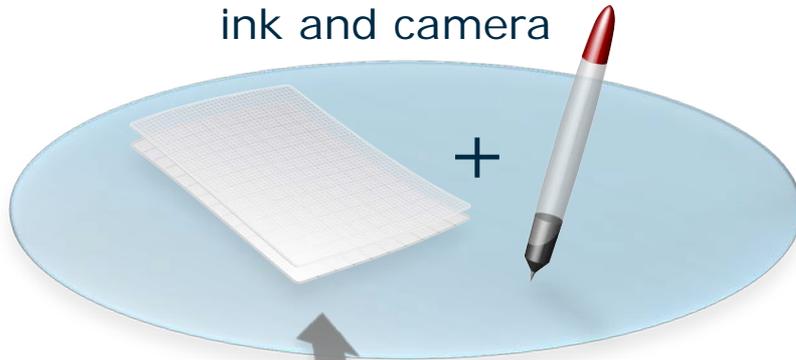
## Stage One – Plot Creation



# ProjectWise Dynamic Plot Workflow

## Stage Two – Plot Markup

Digital Pen with  
ink and camera



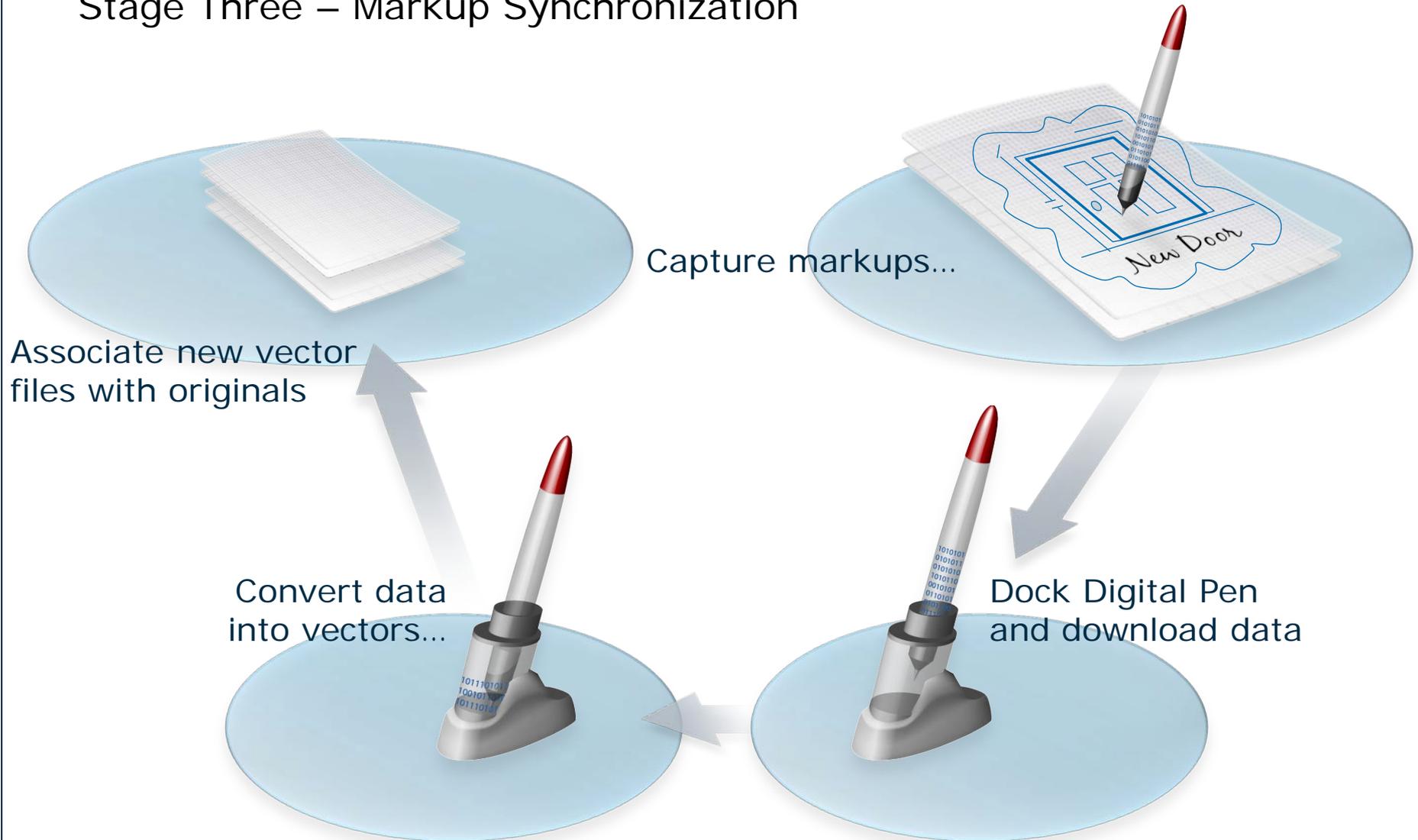
Markup drawing and  
capture markups  
digitally with  
Digital Pen



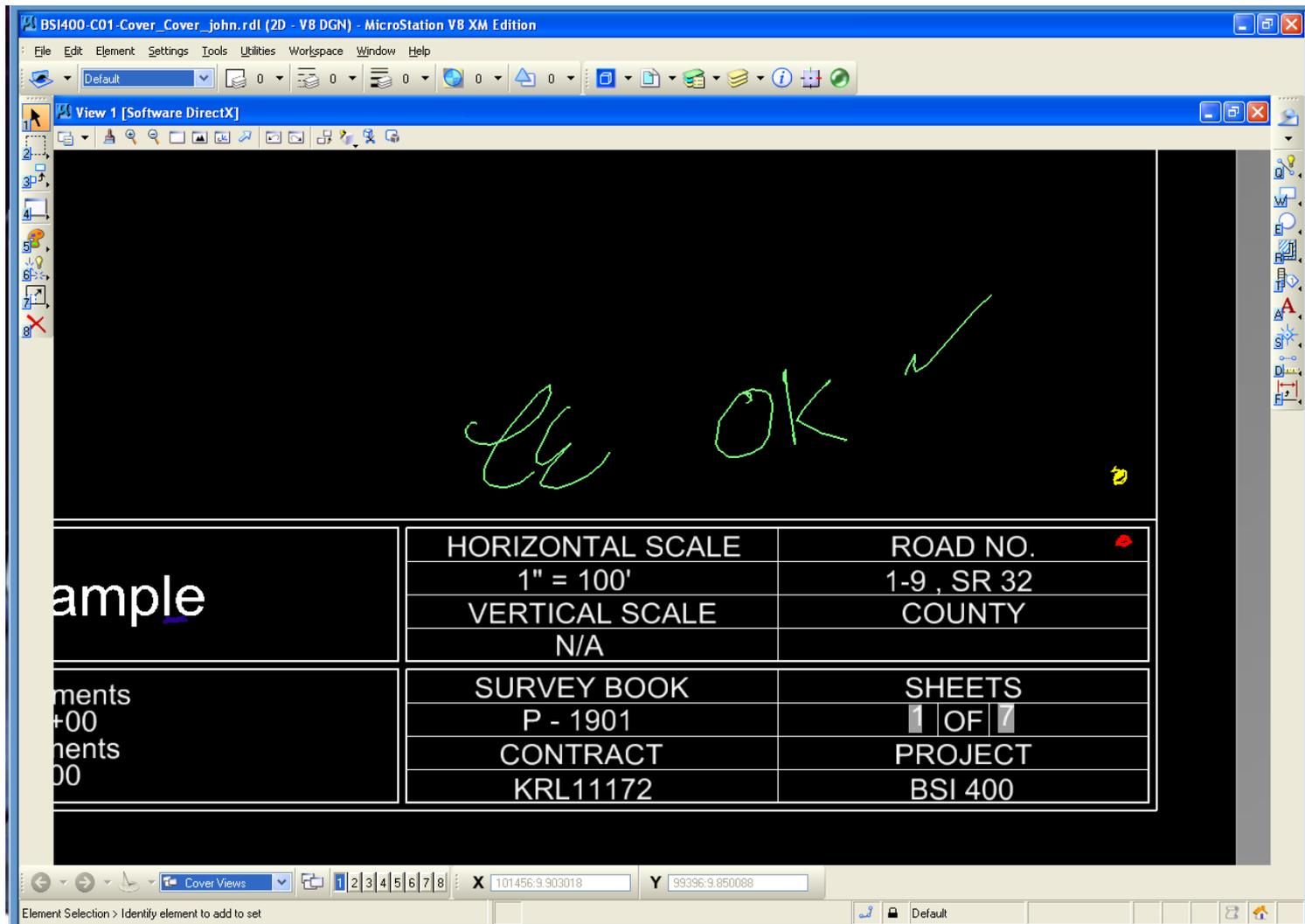
Everyday Color  
Postscript Printers  
and Plotters  
supported

# ProjectWise Dynamic Plot Workflow

## Stage Three – Markup Synchronization

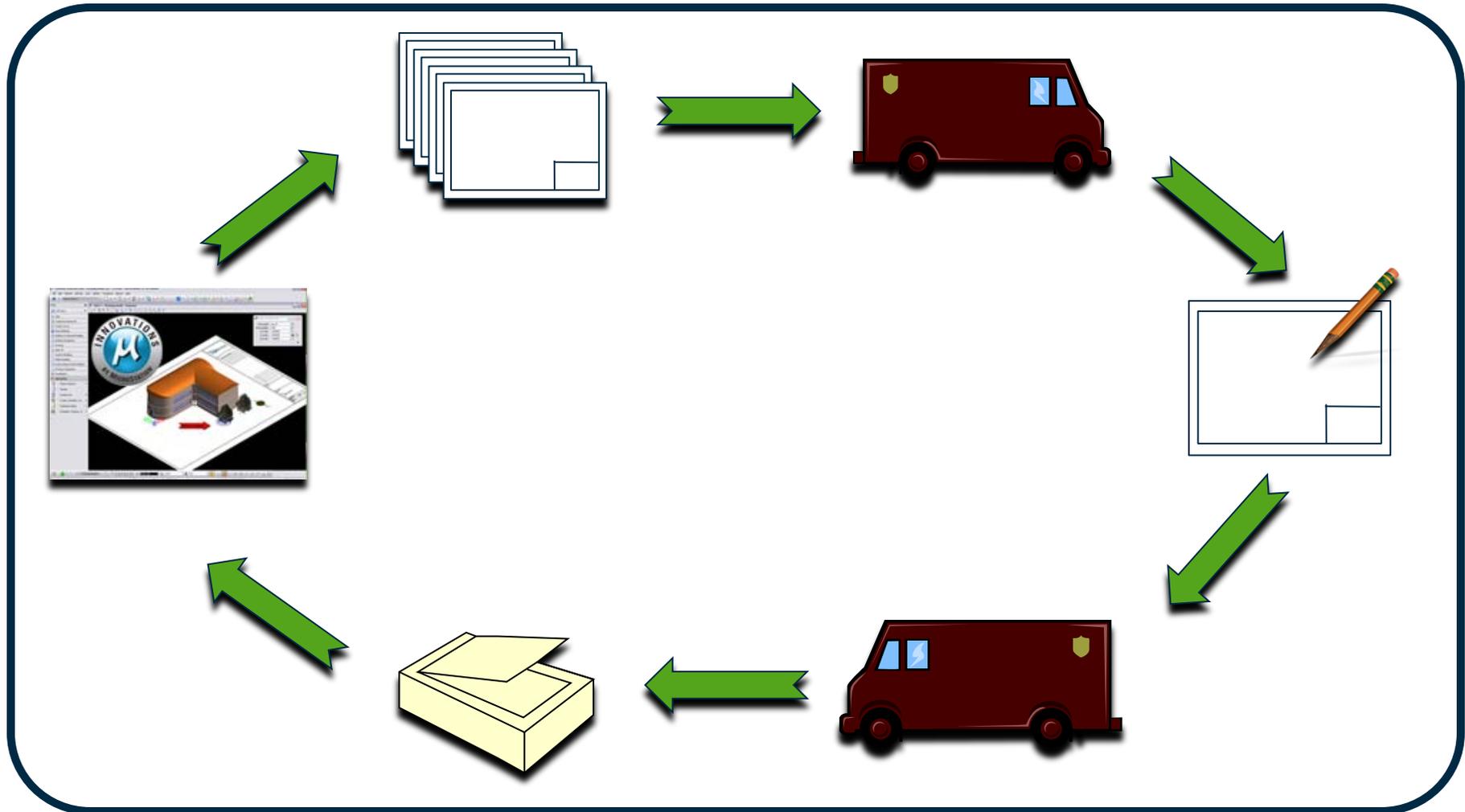


# ProjectWise Dynamic Plot



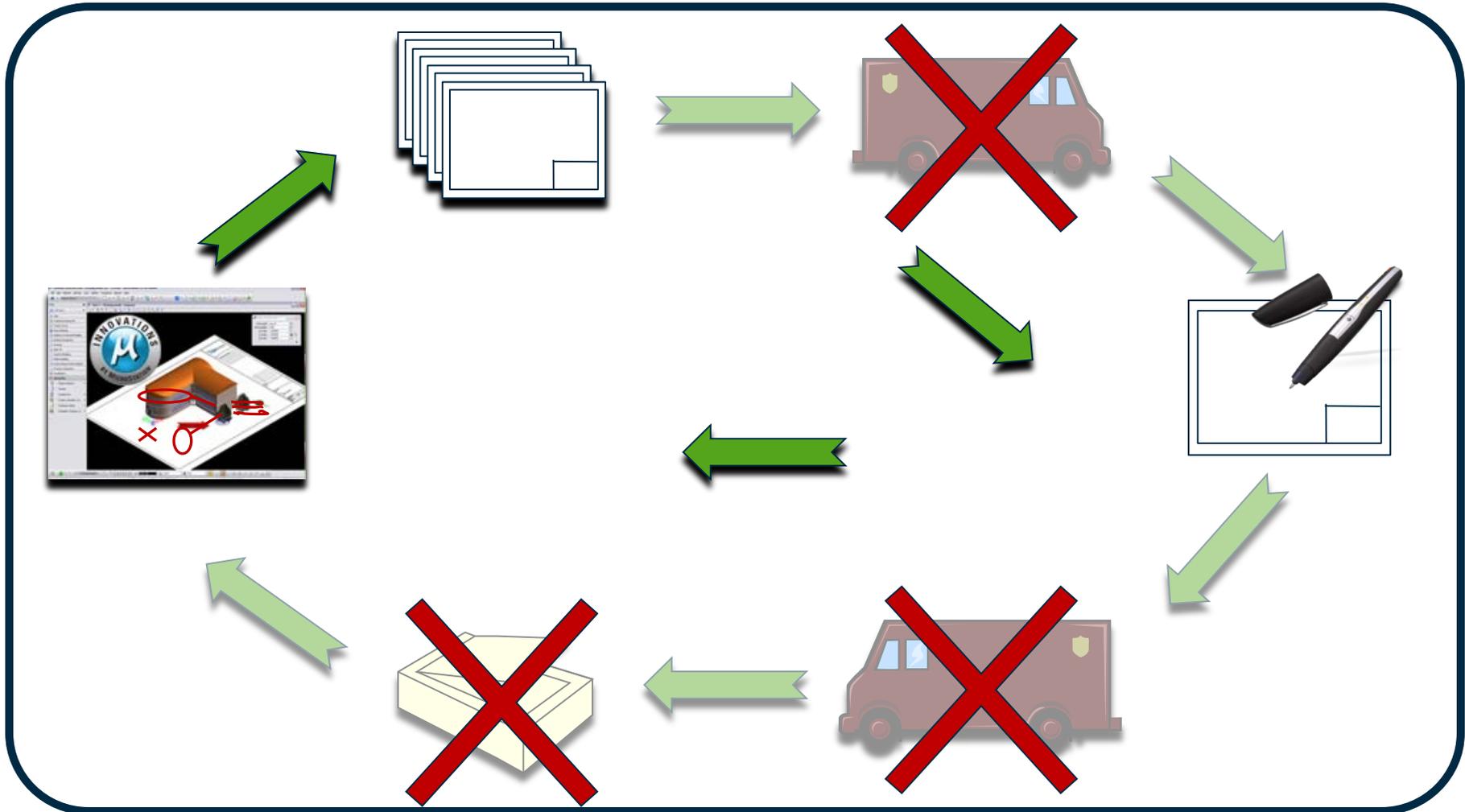
# ProjectWise Dynamic Plot solution

## Paper-based markup workflow - Today



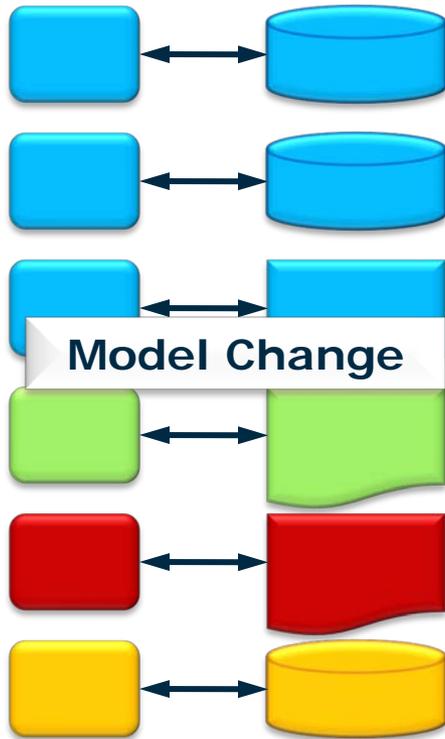
# ProjectWise Dynamic Plot solution

## Paper-based markup workflow – Tomorrow

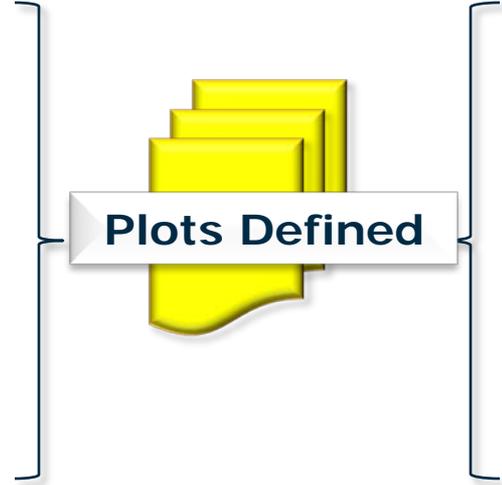


# Workflow

## Work In Progress



## Transform



## Publish & Distribute

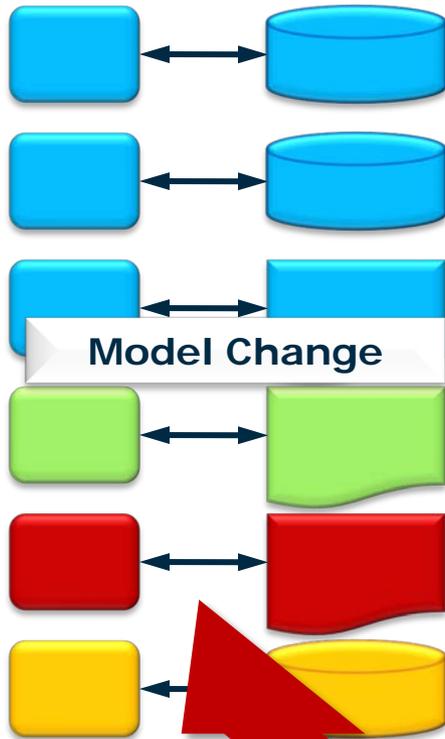


## View & Augment

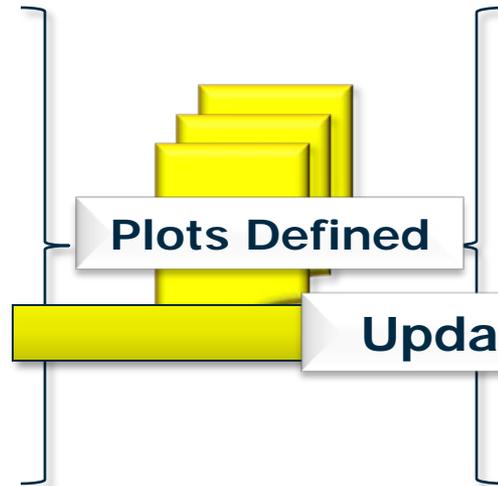


# Workflow

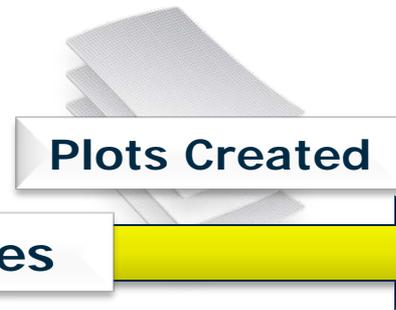
## Work In Progress



## Transform



## Publish & Distribute



## View & Augment

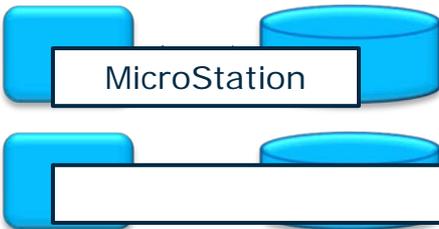


**Markups**

- Markups collected using Dynamic Pen and persisted as DGN/DWG
- Results stored in ProjectWise for sharing, version control and management

# Products

## Work In Progress



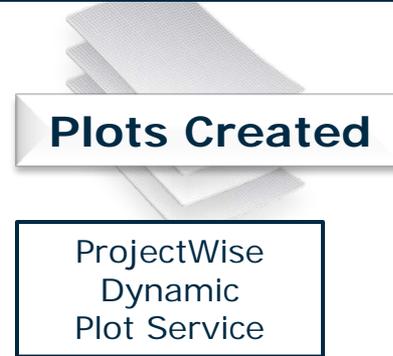
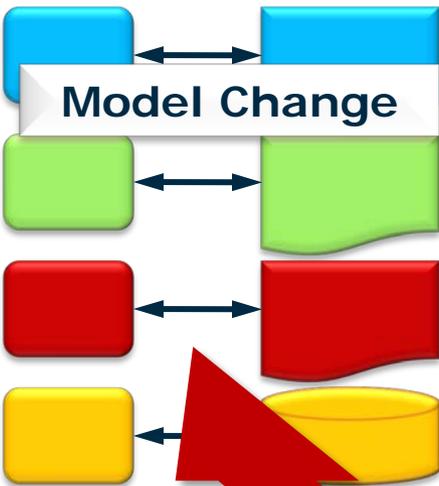
## Transform



## Publish & Distribute



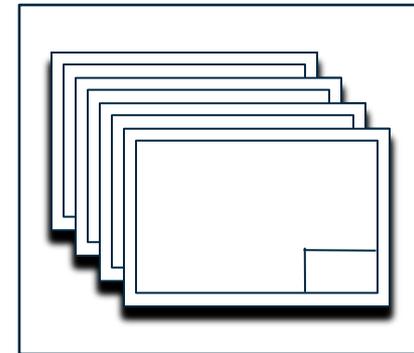
## View & Augment



# Digital Pen & Paper

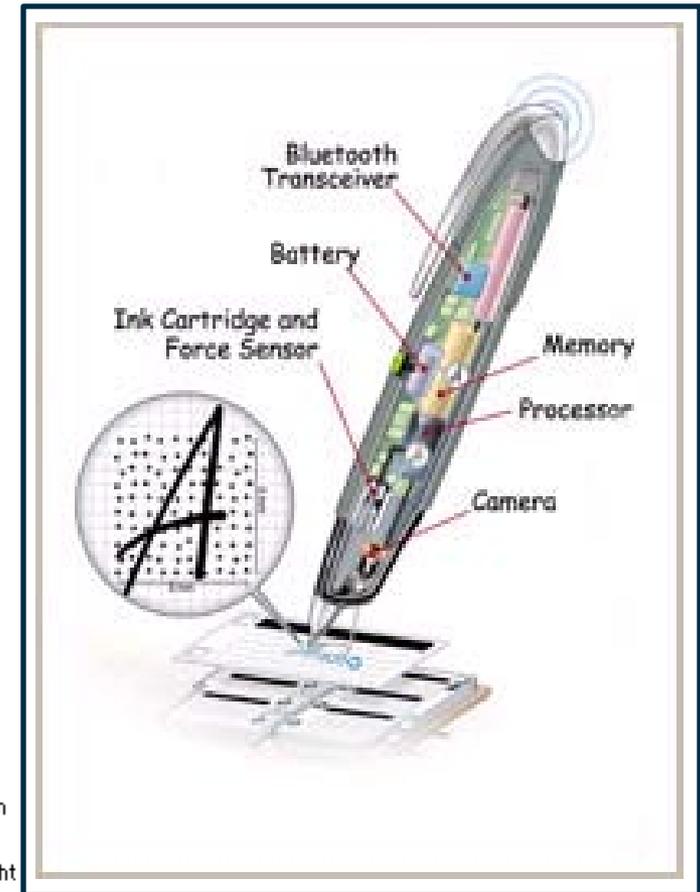
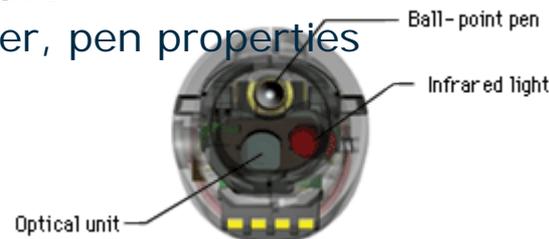
## What is it?

- Digital Pen
  - *Input device that converts handwritten analog information created using "digital paper" into electronic data that can be used in a variety of applications and workflows*
- Digital Paper
  - *Standard paper, from everyday printers, that has a special background pattern printed to allow a "digital pen" to know where the pen is writing on the paper*



# Digital Pen & Paper Technology

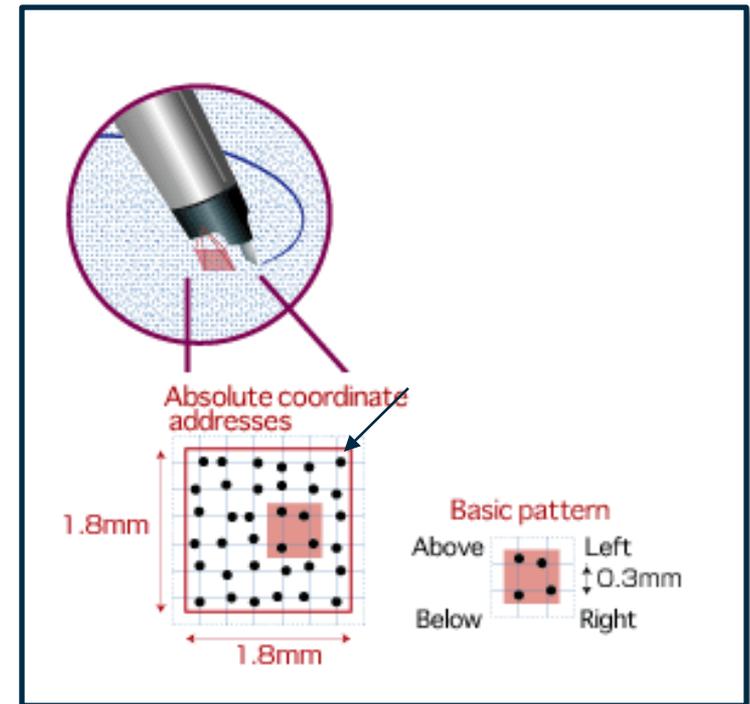
- **Digital Pen**
  - **Camera**
    - CMOS, Infrared, 75 images/sec
  - **Memory**
    - 1 Mb, ~40 A5 pages
  - **Communications**
    - Bluetooth, USB Docking Station
  - **Power**
    - Battery, 6 hours cont. use
  - **Dimensions**
    - 157x21x18mm, 30g
  - **Durability**
    - 3 years (Used 2x/day)
  - **Identification**
    - Serial number, pen properties



# Digital Pen & Paper Technology

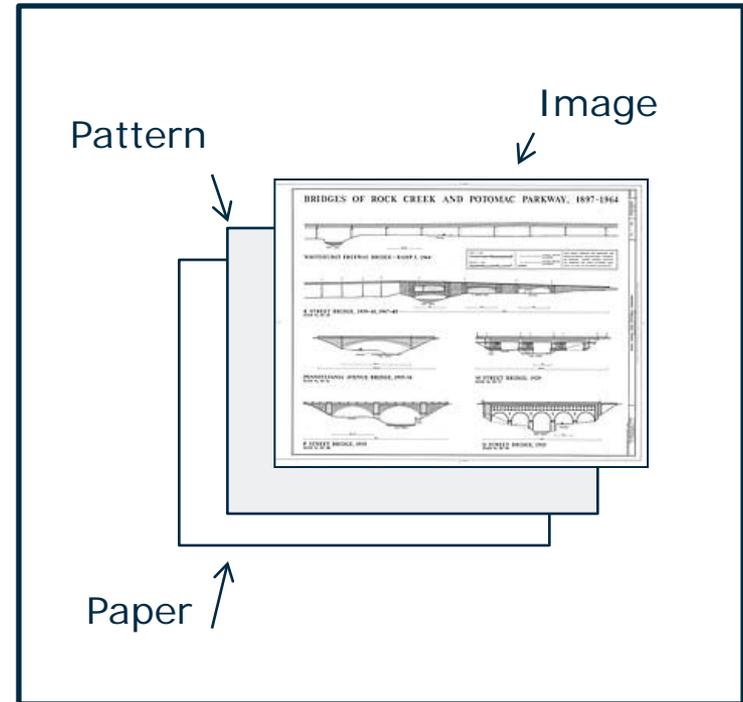
## • Digital Paper

- Consists of small dots (100  $\mu\text{m}$  in diameter) arranged with a spacing of approximately 0.3 mm on a square grid.
- The dots are slightly displaced from the grid, each dot in one of four possible positions
- $2^{72}$  or 4,722,366,482,869,645,213,696 unique combinations
- Covers an area of 60 million  $\text{km}^2$ , which exceeds the total area of Europe and Asia combined
- Displacement of the dots makes it possible to uniquely identify each pattern area



# Printer Specifications

- Printer
  - 4-color (CMYK) Level 2 PostScript
  - K (Black) - 4% carbon content
  - Resolution of either 600 or 1200 DPI
  - Single pass
  - Use Vendor supplied inks and media
  - Well maintained



# Summary

- **Benefits**

- Reduces operational costs
- Improves Project Collaboration
- Mitigates Risk
- Decreases time to decision
- Simple to Learn
- Suitable for in-house or field use



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## ProjectWise Dynamic Plot

Bringing Paper into the Digital Age

### Making Paper Dynamic

We're launching ProjectWise Dynamic Plot on May 27th 2009.

ProjectWise Dynamic Plot V8i creates an intelligent link between paper plots and digital models, shrinking the time required to sync written comments and digital data from days to seconds.

We would love to show you how to experience the power of ProjectWise Dynamic Plot for yourself.

Contact Us



**SPECIAL  
OFFERS**

### [Save on ProjectWise Dynamic Plot](#)

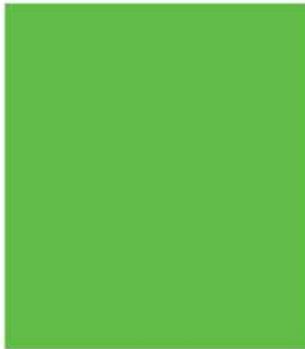
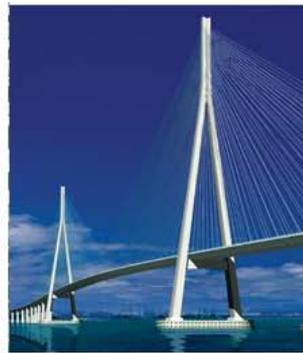
Click here for special offers on new ProjectWise Dynamic Plot V8i licenses.

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## 2009 ROADS AND BRIDGES CONFERENCE



# ProjectWise Dynamic Plot V8i: Bringing Paper into the Digital Age

Ron Gant, Civil Global Marketing Director