

# Workshop for the USDA Economic Research Service

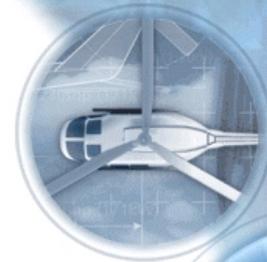
## XML & Smart Graphics

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# Agenda

- ◆ **Introductions**
- ◆ **Smart Graphics**
- ◆ **Typical workflow issues**
- ◆ **Demonstration**
- ◆ **XML Authoring**
- ◆ **Demonstration**
- ◆ **Discussion**





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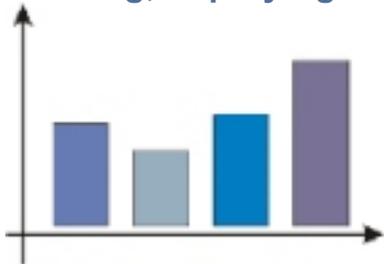
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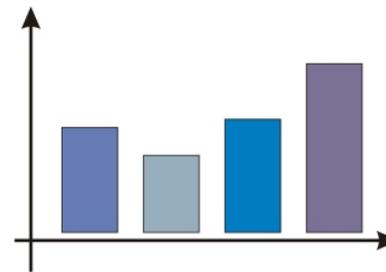
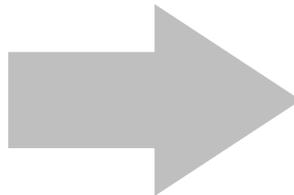
# Smart Graphics 101

## Simple definitions

- ◆ **Smart Graphics**
  - Web graphics that are interactive,
  - Created from or change with data or user input
- ◆ **Smart Graphics Solutions (= rich web applications)**
  - Web applications
  - Consist of graphics connected to data
- ◆ **Smart Graphics Studio**
  - Tools and technology
  - Building, deploying smart graphics solutions



Flat graphics from various sources



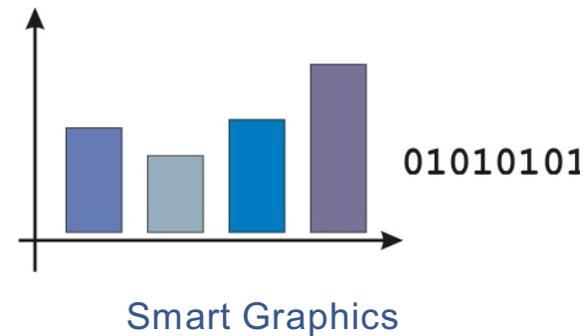
Smart Graphics



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# What are Smart Graphics?

- ◆ **SVG is a W3C standard for vector graphics**
- ◆ **Smart Graphics: SVG graphics that change with data or user input**
- ◆ **Smart Graphics Solutions/Applications: Web applications that consist of graphically rich user interfaces connected to XML Web Services**



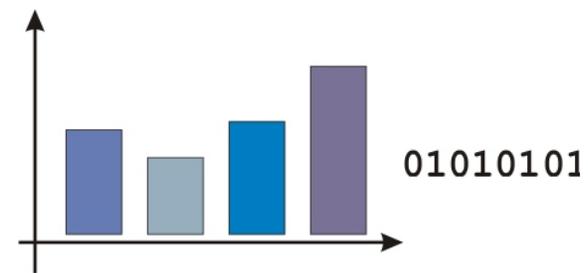


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# Smart Graphics Benefits

Communicate mission critical data via rich visual interfaces.

- ◆ Open Standard
- ◆ Scalable
- ◆ Extensible
- ◆ Compatible
- ◆ Data Driven
- ◆ Dynamic
- ◆ Rich



Smart Graphics





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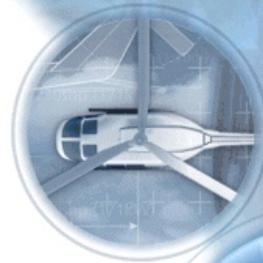
# Smart Graphics Platform

## Smart Graphics Studio

- ◆ **Developer SG**
  - “Design-time” development tools for building Smart Graphics solutions
  - *Design View*
  - *Template Builder*
  - *Data Mapper*
  - *Process Builder*
- ◆ **Server SG**
  - “Run-time” application server
  - For executing and deploying Smart Graphics solutions
- ◆ **SVG Viewer**
  - For viewing and interacting with smart graphics solutions
  - Through a web browser at run-time



# Demonstration



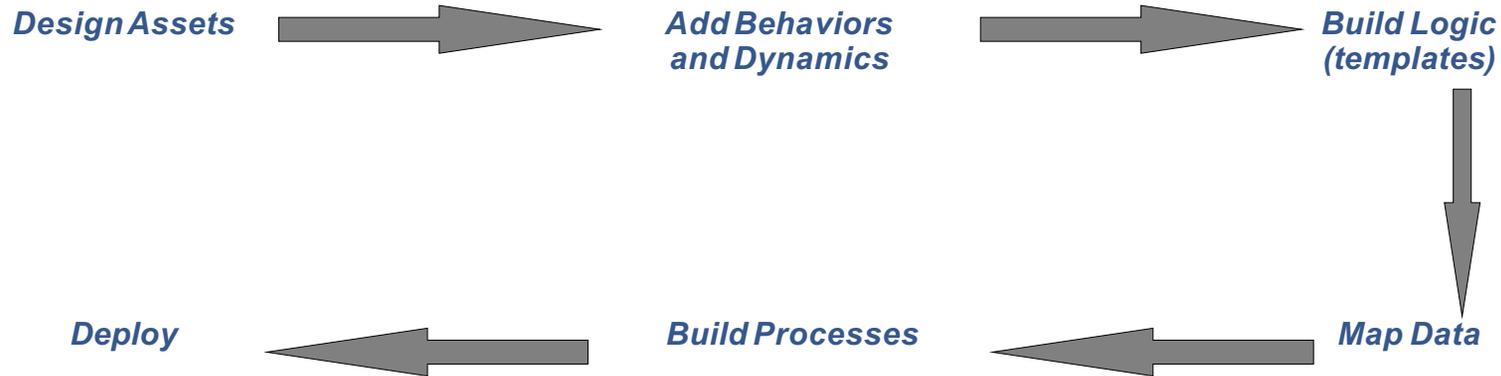




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# Workflow

Designers and web application developers

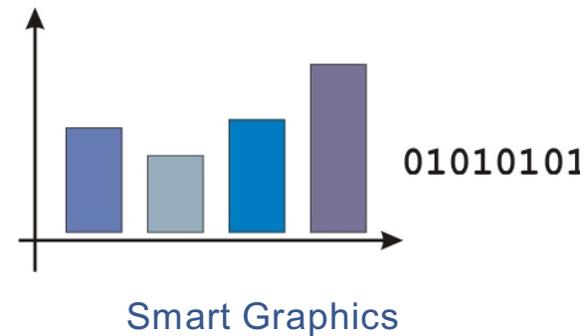




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# Smart Graphics Summary

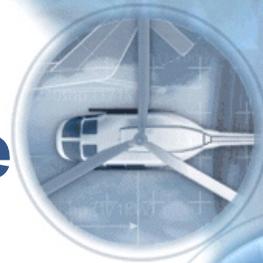
- ◆ Data-Driven
- ◆ SVG an application of XML
- ◆ Deployable as Web Services
- ◆ Solves graphics publishing issues



# XMetaL 4

## XML Authoring Anywhere

Shawn Henderson, Product Manager





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# XMetaL Approach to Authoring

Customers receive the maximum benefit from XML when:

- ◆ Content is easily reused between multiple documents
- ◆ XML content is easy to create for anyone in an organization
- ◆ XML applications can be easily customized, maintained and deployed





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# XMetaL 4

## Advantages

- ◆ Designed from the ground up to be an XML editor
- ◆ Custom interfaces make XML content creation easy for any user
- ◆ Delivers on the promise of XML by enabling content reuse
  - Documents can be 'chunked' into sections and shared between documents
- ◆ The ideal companion to a content management system
  - Providing tight integration from a common user interface
- ◆ Enables XML to be created virtually anywhere





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## XMetaL 4 - Platform

Simplifies the implementation of customized XML applications

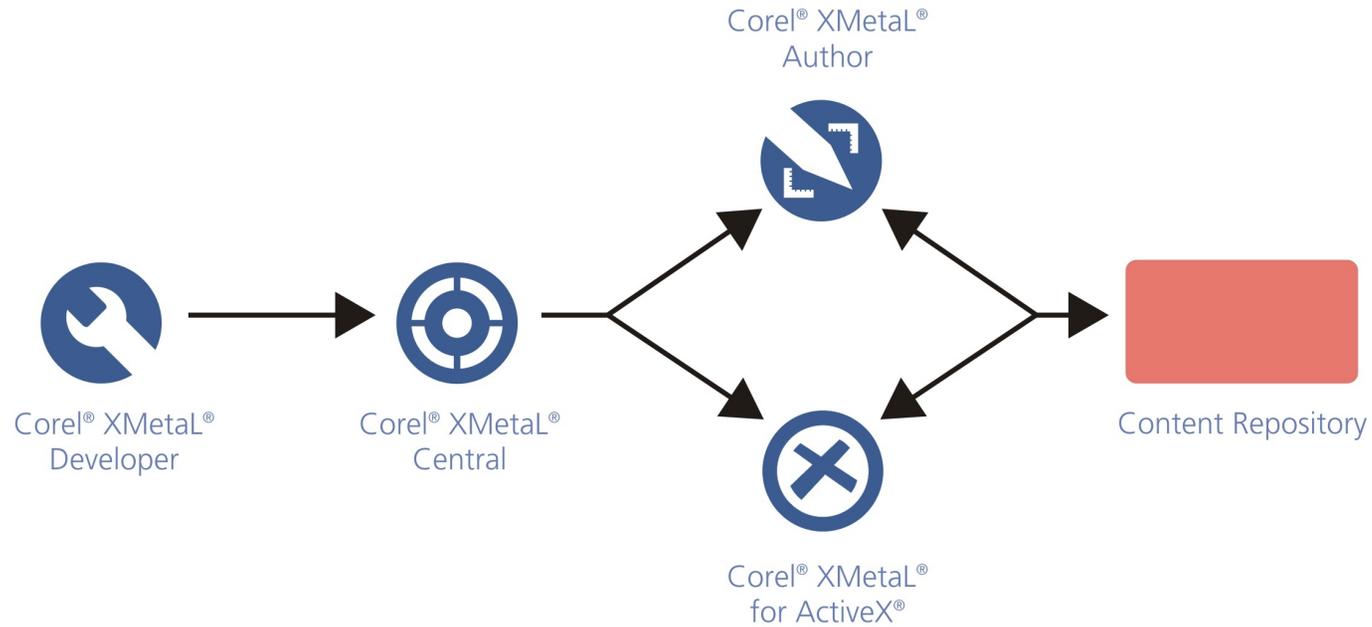
- ◆ **Separate components meet the unique requirements of different users:**
  - XMetaL Author
  - XMetaL for ActiveX
  - XMetaL Developer
  - XMetaL Central
- ◆ **The only richly customizable XML editor that supports both W3C standards for customer defined DTDs and Schemas, while outputting valid XML**
- ◆ **Enables XML creation capabilities to be integrated into any Windows application that supports ActiveX including Web browsers**





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# The XMetaL 4 Platform



Customize  
and  
Integrate

Deploy  
and  
Maintain

Author  
and  
Edit

Store, Search  
and  
Engage





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# XMetaL Author

## ◆ Easy XML Content Creation

- Easy-to-use word-processor interface, XML at the core
- Interface can be personalized for every user and every workflow
- Includes spell check, thesaurus and revision marking

## ◆ Advanced XML Editing

- DTD & Schema support
- Structured view
- Attribute inspector and element list
- Table support
- Unicode support





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# XMetaL for ActiveX

## ◆ Flexible Authoring Environments

- XML authoring in any ActiveX compliant application, including Web browsers
- Multiple instances in one Web page or one application
- Create XML content virtually anywhere

## ◆ Comprehensive XML Authoring Environment

- Valid XML editing in tags-on or tags-off modes
- Drag-and-drop internally, between other applications or a between components
- Revision marking

## ◆ Easy to deploy, integrate and maintain

- Customize with XMetaL Developer
- Integrates with back-end repositories and content management systems (CMS)







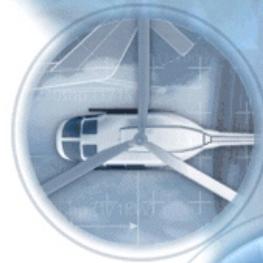
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# XMetaL Central

- ◆ **XML Environment Management**
  - Deploy, update, maintain or delete any file related to the XML environment including DTDs, Schemas, customizations, macros, templates, style sheets, transformations
- ◆ **Remote Application Maintenance**
  - Leverages SOAP technologies
  - Uses Web services to deliver updates to users
- ◆ **Reduce End-User Impact**
  - Updates and changes are invisible to the end user
  - Users always have all the files they need for their application
- ◆ **Reduces Maintenance costs**
  - Reduced workload for development staff
  - Manages the entire application development process



# Demonstration





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# XMetaL Summary

## Making XML Content Creation Easy

### ◆ XML

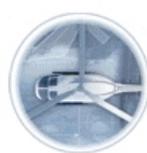
- Structured documents that separates content from presentation
- Allows the information to be reused, re-purposed and indexed

### ◆ XMetaL 4

- An integrated platform that simplifies the design, management and implementation of an XML authoring environment.
- Extends XML content creation to ActiveX-compliant applications
- Designed to address the specific needs of different users

### ◆ The Opportunity

- XML provides opportunity to improve document quality, reduce costs, decrease time to market and “future proof” your knowledge assets



# Discussion

