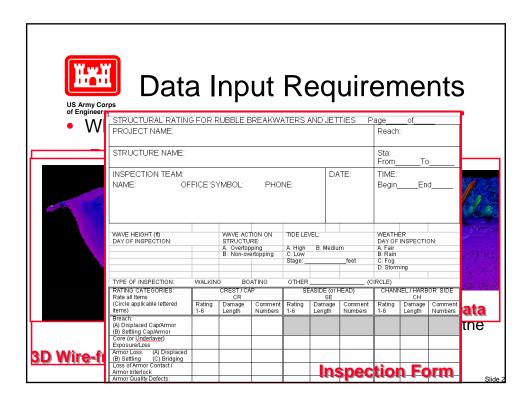


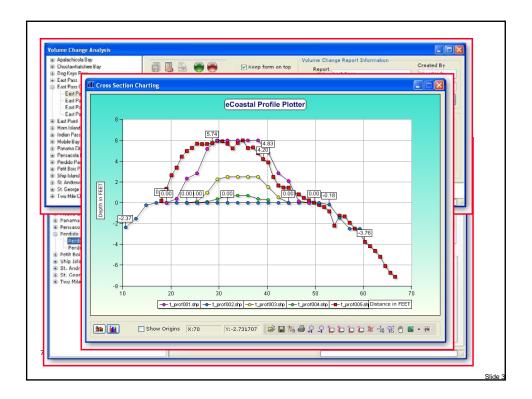
Application:

Coastal Structures Condition Assessment and Standardized Reporting Application (CoSCA)

- Description
 - ESRI ArcMap Toolbar and backend enterprise database(s)
 - Integrates data from various sources to aid inspections and calculate a condition index
 - Standardizes coastal structure condition assessments from inspection and survey data
 - Special Function:
 - 3D wire-frame data model is used as baseline for volume calculations
- What will it help us do?
 - Assessed condition is no longer subjective. Index is generated from calculations

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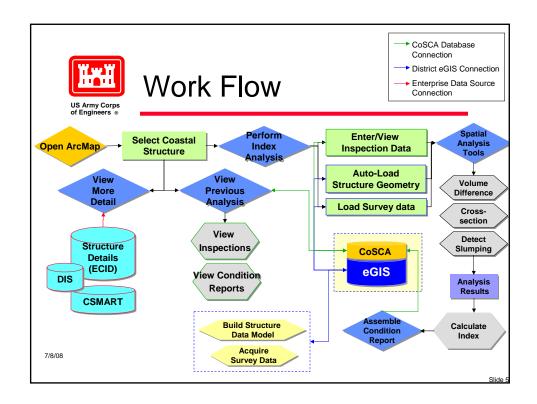




Application User

- Who are the application users? How might they use the tool?
 - Where are they in the organization Division/branch?
 - Operations Division/Navigation Branch/Area Office (inspections)
 - Engineering Division/Structures Branch (analysis)
 - What level are they (Tech, Eng, Mgr)?
 - Technicians can provide the data entry for inspections (HAMMER)
 - Engineers can work through the data analysis to determine damage
 - Managers can view calculated results in posted condition reports and use information for budgeting
 - What skills or training is required?
 - Basic GIS skills
 - Self-paced training will be provided

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Tech Support Plan

- CoSCA is part of the eCoastal program.
 - eCoastal provides yearly training on available tools & applications
 - eCoastal website (http://eCoastal.usace.army.mil)
 provides web presence for distribution of tools, documentation, and user feedback.

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Biggest Challenges

- What's the best way to package and deploy the tool?
 - Distribute application via download or DVD to the District Commander, Chief of Ops, Coastal Engineer, or District eGIS organization
- What are the ERDC challenges in moving ahead?
 - Will each District support an enterprise architecture or must the application come with stand-alone capability...adds significant cost and does not support USACE eGIS goals
- What are the district challenges in the use of this application?
 - SDS-compliant eGIS database with populated feature classes
 - Wire-frame data model of each coastal structure needs to created to use analysis portions of CoSCA.
 - Survey data
 - Access to NCMP data
 - Architecture to support web services

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- Inspections needs to be entered into the CoSCA/eGIS database.