Recovery of Crash Site (RoCS) Web Application

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Background
Project Goals

Platform Independent + Visual Results → Web Application
System Design

Airplane Database (MS SQL 2008 R2)

Web Application (HTML, CSS, JavaScript, PHP)

Geoprocessing Service (Python)

Users
- Laptop/Desktop
- Mobile Phone
- Tablet

BACKGROUND | SYSTEM DESIGN | DATABASE | GP SERVICE | WEB APPLICATION | SUMMARY
Debris Model

Adapted from help.arcgis.com
Airplane Database

BACKGROUND SYSTEM DESIGN DATABASE GP SERVICE WEB APPLICATION SUMMARY

Aircraft

- Drag Coefficient
- Weight
- Model
- Wingspan
- Manufacturer
- Frontal Area
- ID
- Cruise Speed
Input Point Feature Class – Crash Location
Output Debris Field Feature Class

- Speed of Aircraft (kts)
- Altitude of Aircraft (ft AGL)
- Aircraft Heading (degree)
- Descent of Aircraft (degree)
- Frontal Area of Aircraft (sq feet)
- Drag Coefficient of Aircraft (Cd)
- Weight of Aircraft (lbs)
- Wingspan (ft)
- Ground Level (ft MSL)
- Ground Level Wind Speed (kts)
- Ground Level Wind Direction (degree)
- Angle of Terrain (degree)
- Terrain Characteristic
-
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Summary

Platform Independent

Python + ArcGIS 10.2 Toolbox

Visual Results

Web Application

http://crash.mojavedata.gov

MS SQL 2008 R2

Visual Results

Web Application
Thank You

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For more information, visit: