Create Range Cards for Land Operations

Joe Bayles
Agenda

- Introduction
- Create Range Cards Demo
- Questions
Introduction

- Based on Department of the Army Form 5517-R, Standard Range Card
- Sector sketch for a direct fire weapon system
- Used to plan and control fires and target acquisition
- Plots target areas and terrain features
- Combined to create the unit’s sector sketch
- Other versions of Range Cards vary by organization
Important Concepts

• Sectors of fire – piece of the battlefield for which that gunner is responsible
• Target Reference Points – natural/man-made features designated for target acquisition and range determination
• Dead Space – any area that cannot be observed within a sector of fire
• Maximum Engagement Line – depth of the area and limited to maximum effective range of the weapon system
• Weapons Reference Point – easily recognizable terrain feature for plotting a weapon position
Create Range Cards

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Known Issues
We’re always looking to improve…

- Model Builder Issue: `!gridcode!` vs. `!grid_code!`
- Sketching dead space vs. running a visibility tool
- No Maximum Engagement Line
- Support for multiple weapon systems
- Lack of guidance and outdated references
  - DA 5517-R references FM 3-21.71, which is now ATTP 3-21.71
  - ATTP 3-21.71 references FM 3-21.75, which is now outdated
Resources

- **Solutions Page (download the template)**

- **Resources Page (the closest thing to the user manual)**
  - [http://resources.arcgis.com/](http://resources.arcgis.com/)

- **Ideas Page (usually for improvement)**
  - [http://ideas.arcgis.com/](http://ideas.arcgis.com/)
Thank you...

• Please fill out the session survey-
  - Offering ID: 1892

• Questions-
  - Now’s the time to ask, or you could...
    - Please come ask me directly
    - Email me at jbayles@esri.com
    - Contact your Account Manager
Understanding our world.