Organizational Modeling and Simulation in a Planning Organization
Final Results

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Paul Faas
Senior General Engineer
Sensemaking and Organizational Effectiveness Brch
711 Human Performance Wing
Air Force Research Laboratory
Agenda

• Introduction
• Background
• Methodology
• Results
• Conclusions
Introduction

- **Research Team**
  - Air Force Research Laboratory
  - Northrop Grumman
  - Stanford University

- **Virtual Design Team (VDT) to Project, Organization, Work for Edge Research (POW-ER) to Project Organization Workflow model for Information Development (POW-ID)**

- **Course of Action Development**
  - **Alternative Organizations**
    - Combined Plans and Operations
    - Integrated Product Team
Introduction (continued)

- Model
Background

• Changes addressed by POW-ID
  1. Delays from exception handling
  2. Time zone issues
  3. Overall user interface changes
Methodology

- Started with process maps
- Data collection trips, interviews
- V&V
- Experimental simulation runs
Results from POWER

Task Volume Breakdown Chart - Project POWER
Cases: Baseline, Combine Ops and Plans

24 June 2010
Results from POWER
Results from POW-ID

24 June 2010
Results from POW-ID
Results from POWER

![Bar chart showing results from POWER]
Results from POW-ID
Results indicate less rework and coordination in the POW-ID simulations. The table provides qualitative feedback to the senior leadership.

<table>
<thead>
<tr>
<th>Scenarios Tested</th>
<th>Impact</th>
<th>Reason</th>
<th>Implementation Risk</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated product team</td>
<td>High</td>
<td>Less Rework, Less Coordination</td>
<td>High</td>
<td>Change spans multiple orgs</td>
</tr>
<tr>
<td>Integrate Ops &amp; Plans</td>
<td>High</td>
<td>Lower Coordination Risk</td>
<td>High</td>
<td>Training issues</td>
</tr>
</tbody>
</table>
Conclusion

Tool provides senior leadership with the ability to test different organizational structures without total re-organization and disruption of the workforce.
Questions?