



Organizational Modeling and Simulation in a Planning Organization Final Results

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Agenda



- **Introduction**
- **Background**
- **Methodology**
- **Results**
- **Conclusions**



Introduction



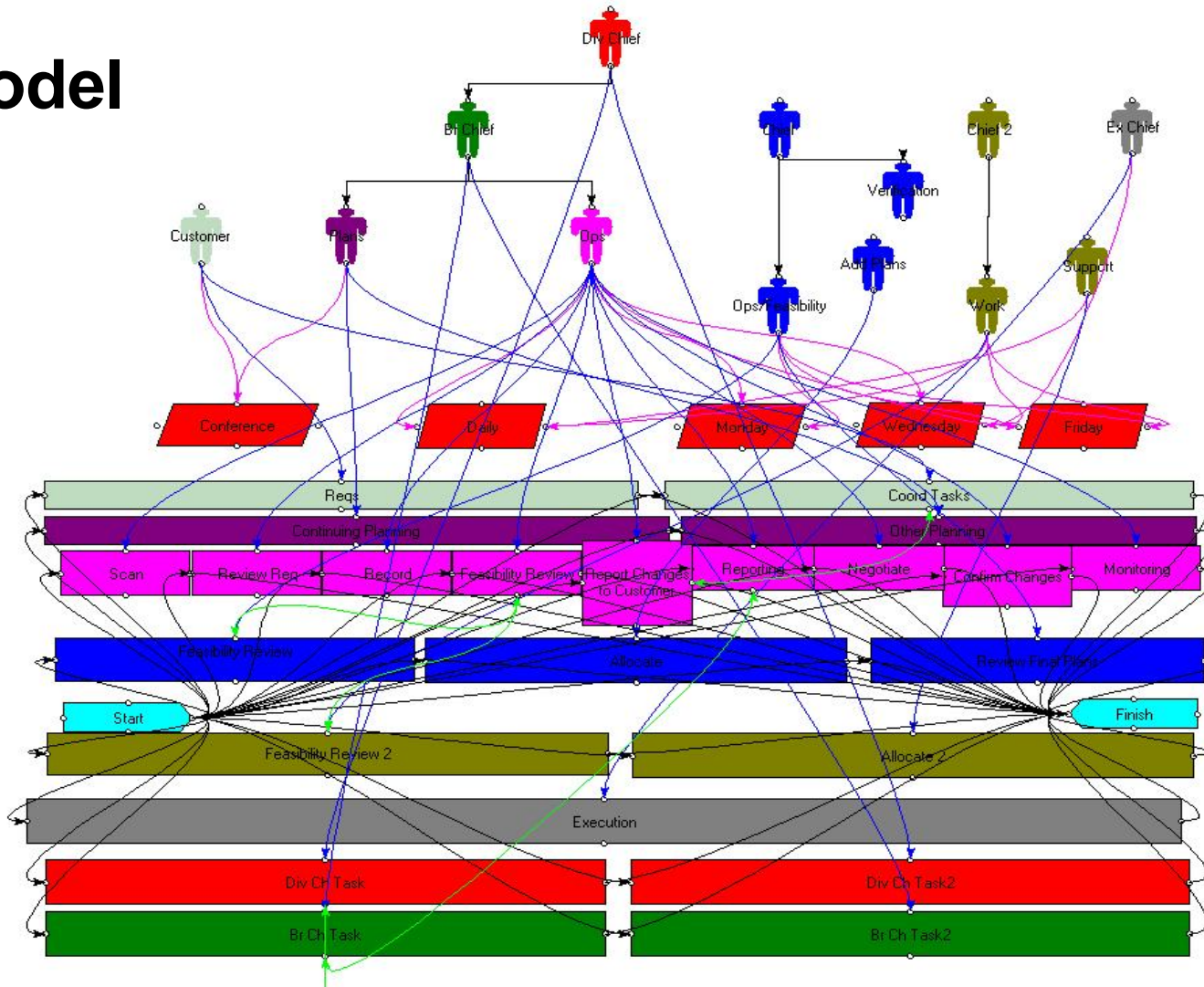
- **Research Team**
 - Air Force Research Laboratory
 - Northrop Grumman
 - Stanford University
- **Virtual Design Team (VDT) to Project, Organization, Work for Edge Research (POWER) to Project Organization Workflow model for Information Development (POW-ID)**
- **Course of Action Development**
 - **Alternative 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**



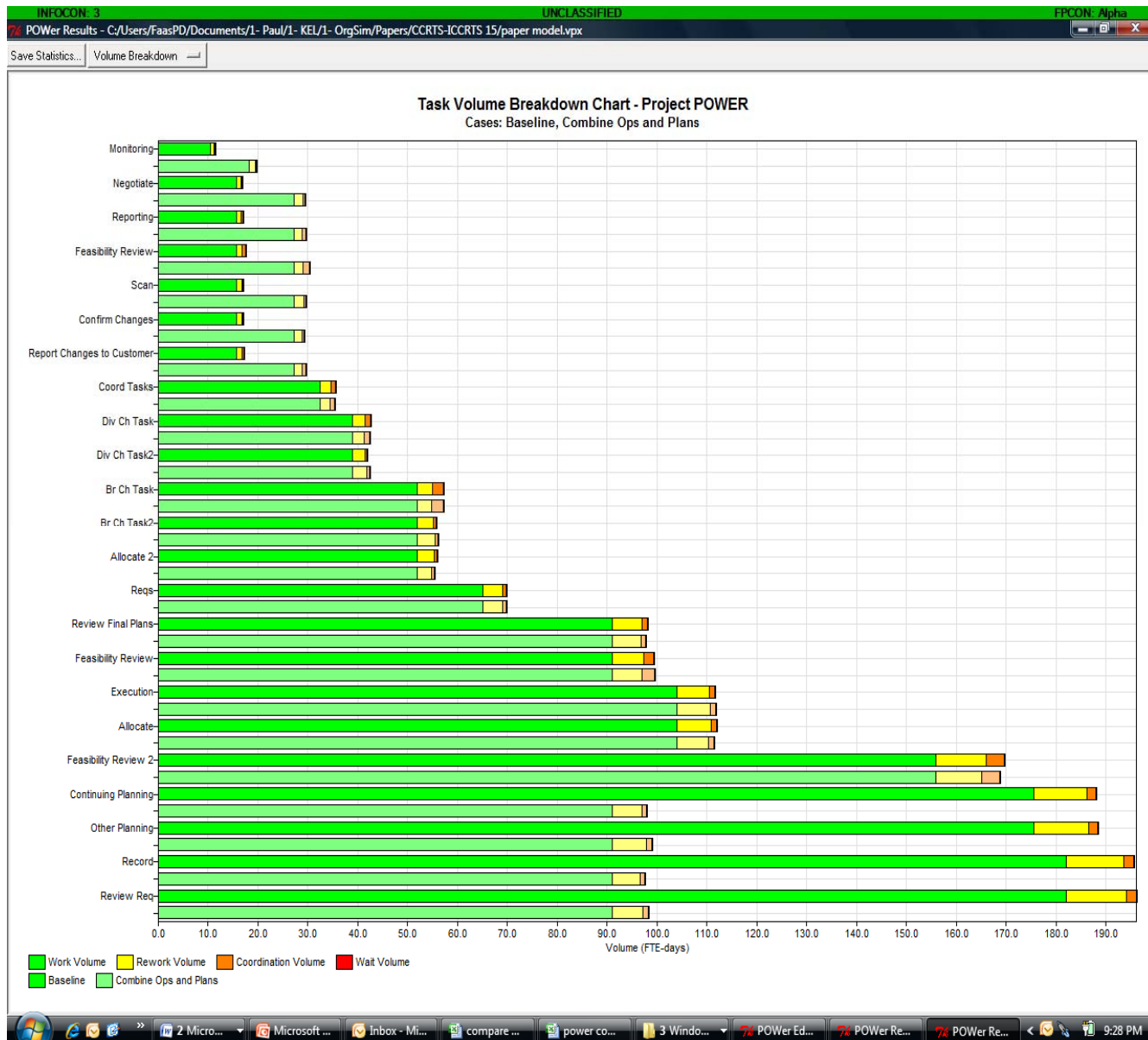
Methodology



- **Started with process maps**
- **Data collection trips, interviews**
- **V&V**
- **Experimental simulation runs**

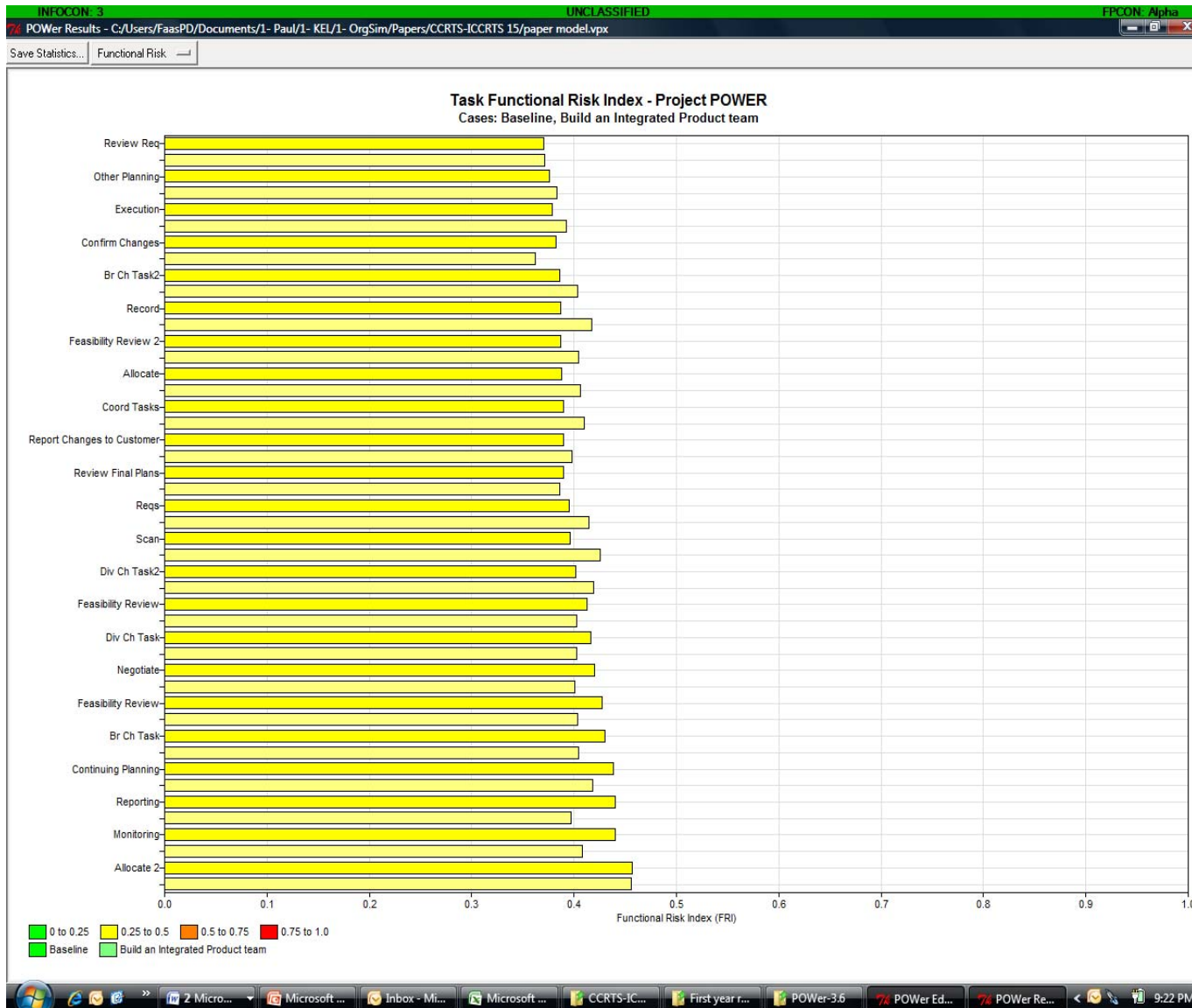


Results from POWER



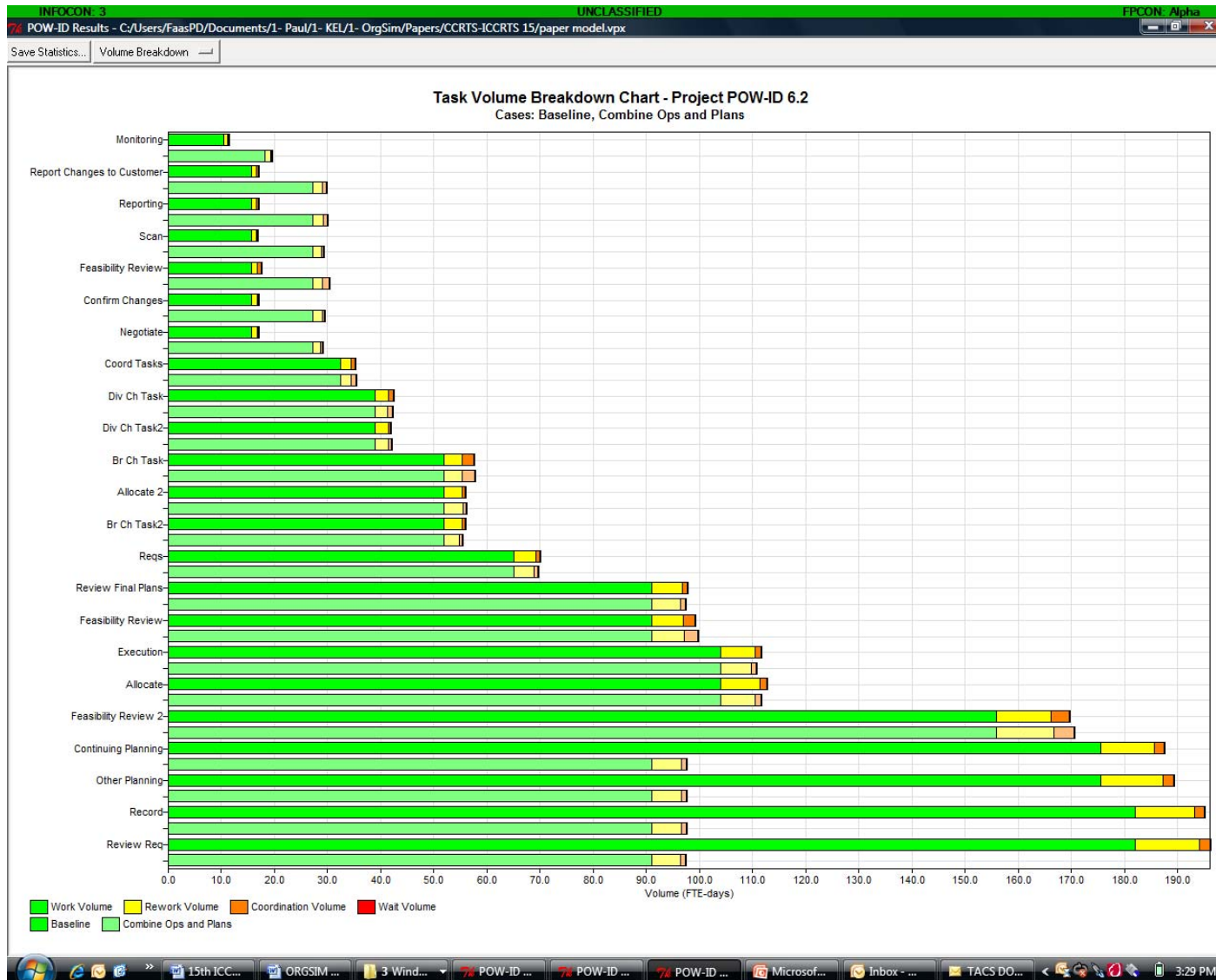


Results from POWER



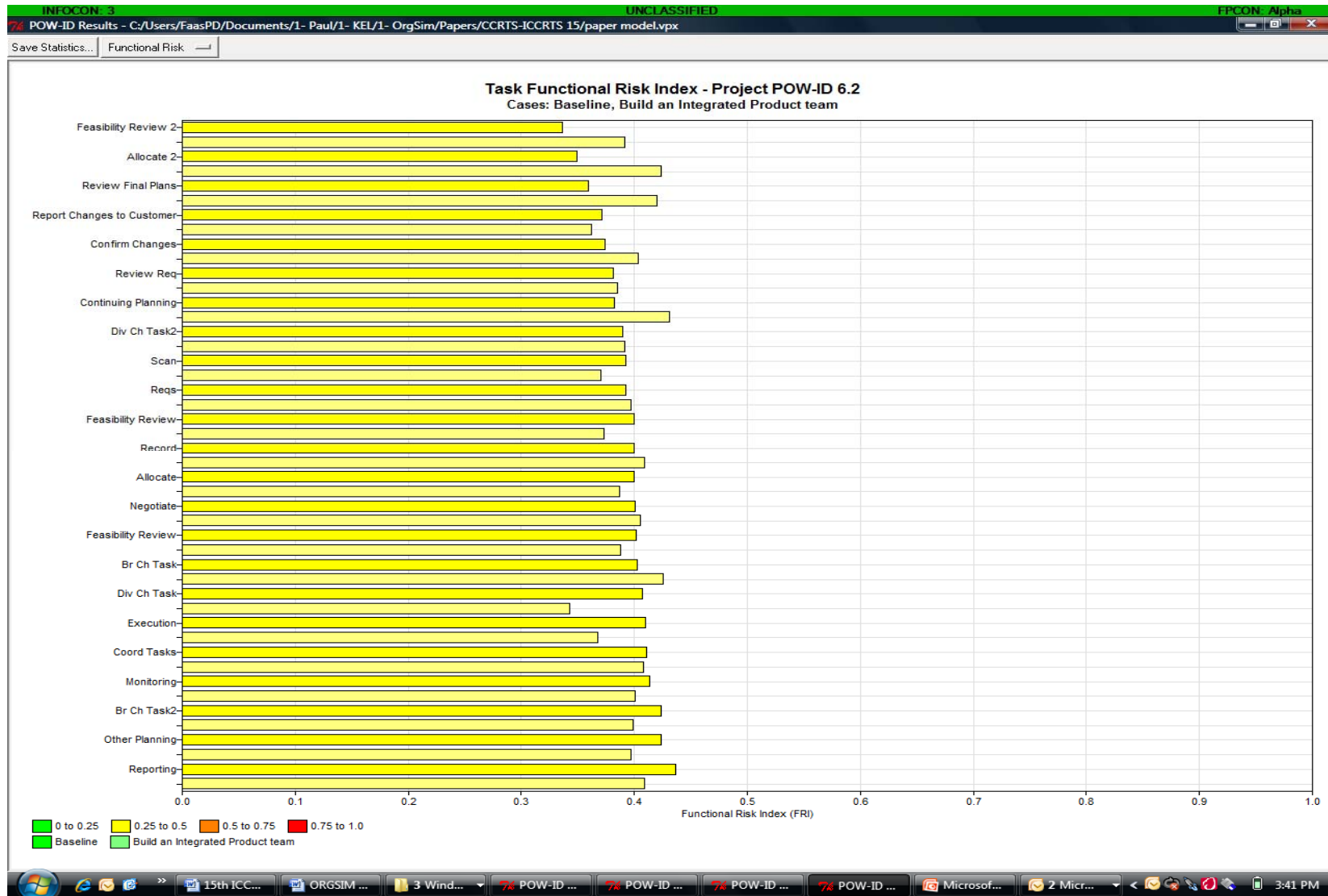


Results from POW-ID

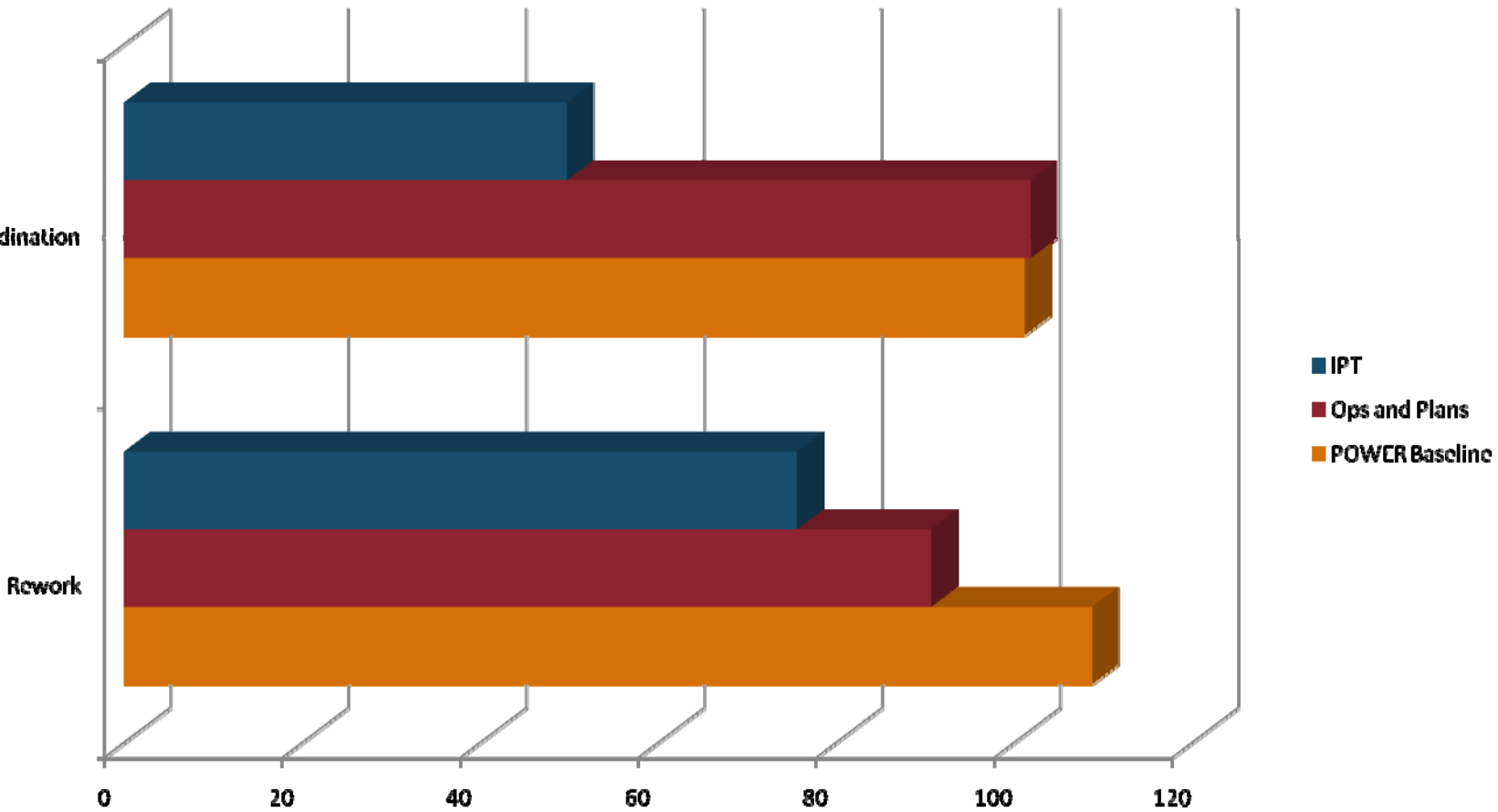




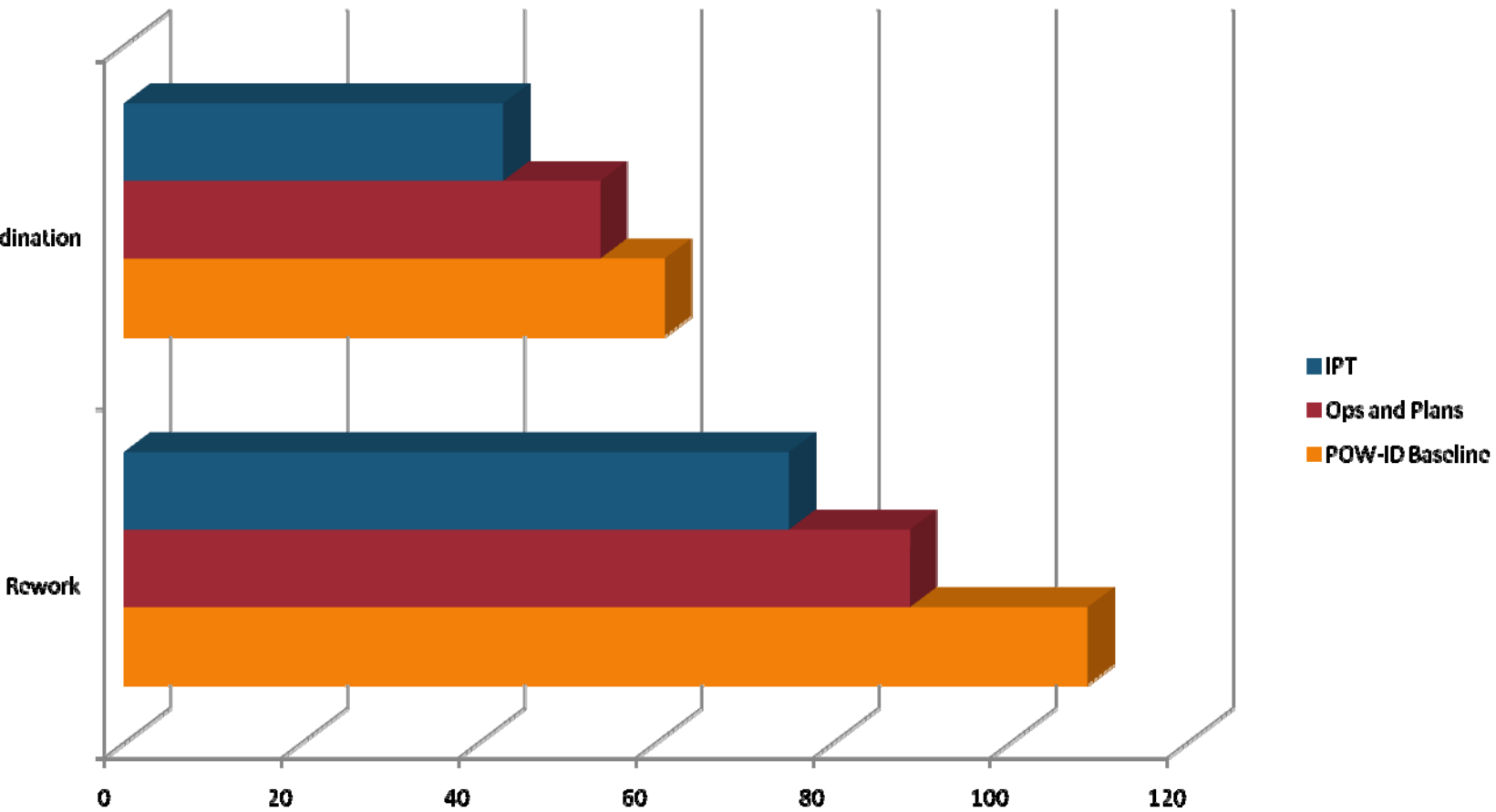
Results from POW-ID



Results from POWER



Results from POW-ID



Results



Results indicate less rework and coordination in the POW-ID simulations

The table provides qualitative feedback to the senior leadership

	Scenarios Tested	Impact	Reason	Implementation Risk	Reason
1	Integrated product team	High	Less Rework Less Coordination	High	Change spans multiple orgs
2	Integrate Ops & Plans	High	Lower Coordination Risk	High	Training issues

Conclusion



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

Questions?

