

Enterprise Product Development

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Research Contribution

Effect and Quantification of Risk in Enterprise Product Development Portfolios

Outcomes

- **1. Measures of risk and procedures** useful at the enterprise product portfolio level
- 2. Heuristics and practices for managing risks at the enterprise level in product development
- **3. Demonstration of applicability of** metrics and practices to an existing product development portfolio
- 4. Conference and Journal Papers
- **5. Doctoral dissertation June 2008**

Methodology

Using a combination of:

- Interviews with portfolio managers
- Simulation modeling of PD portfolios
- Field research

Provide:

- Metrics and methods for assessing risk at the Enterprise/portfolio level
- Best practices for managing risk at the Enterprise/portfolio level

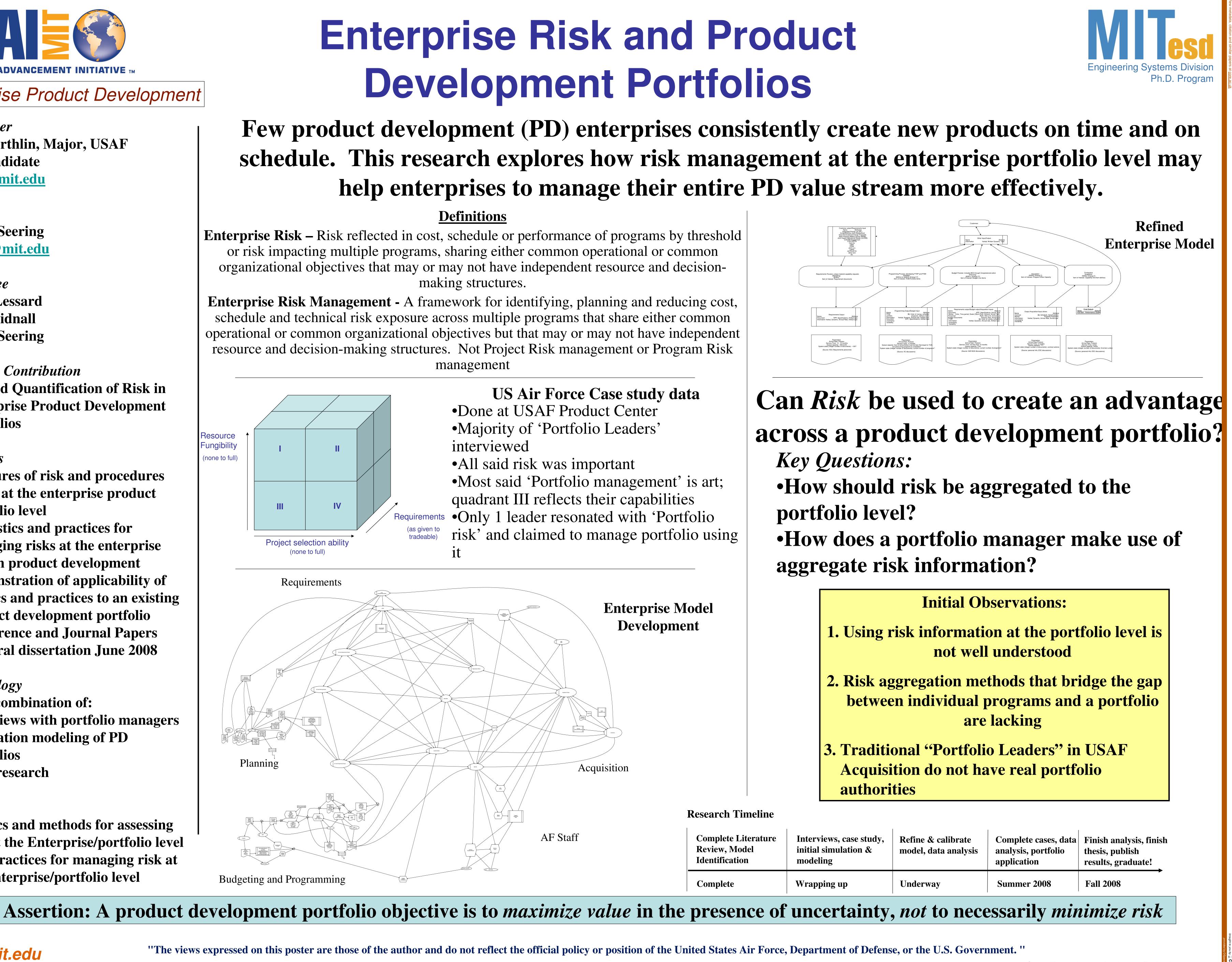
Budgeting and Programming

help enterprises to manage their entire PD value stream more effectively.

or risk impacting multiple programs, sharing either common operational or common organizational objectives that may or may not have independent resource and decisionmaking structures.

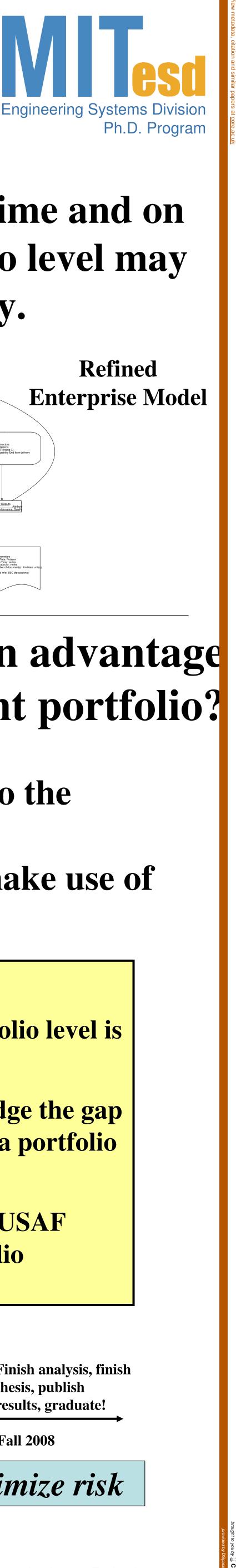
schedule and technical risk exposure across multiple programs that share either common resource and decision-making structures. Not Project Risk management or Program Risk management

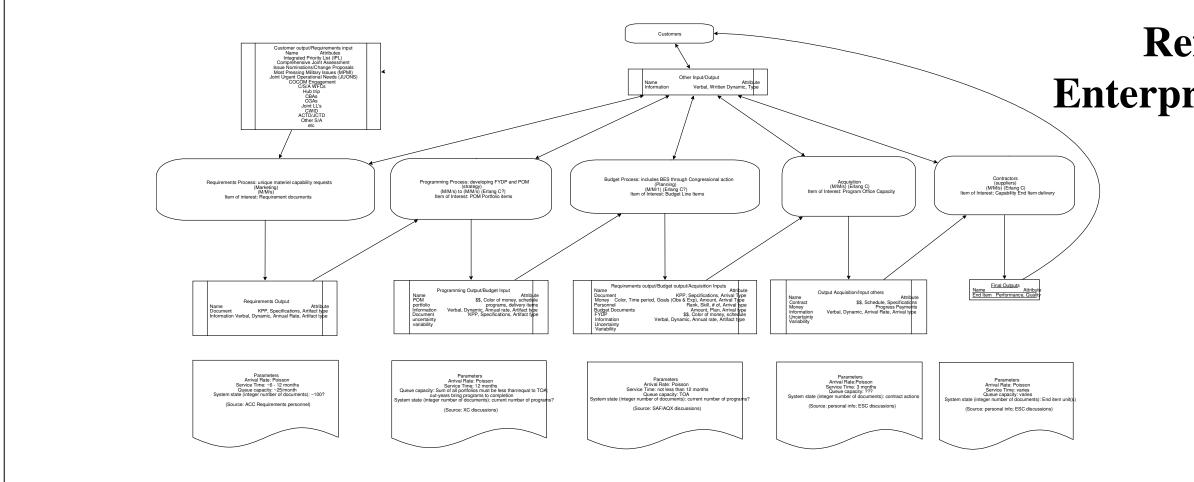
Enterprise Risk Management - A framework for identifying, planning and reducing cost,





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| Initial Observations: |
|---|
| 1. Using risk information at the portfolio level is not well understood |
| 2. Risk aggregation methods that bridge the gap between individual programs and a portfolio are lacking |
| 3. Traditional "Portfolio Leaders" in USAF Acquisition do not have real portfolio authorities |

| Literature odel on | Interviews, case study, initial simulation & modeling | Refine & calibrate model, data analysis | Complete cases, data analysis, portfolio application | Finish analysis, fin thesis, publish results, graduate! | |
|--|---|--|--|---|--|
| | Wrapping up | Underway | Summer 2008 | Fall 2008 | |
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