

Infrastructure Protection in Higher Education

3rd Annual Conference on Security
Analysis and Risk Management

June 18, 2009

Think. Learn. Succeed.



IP Programs and Degrees at GMU

J.D. Concentration in Homeland Security/NS

Security Risk Management Training – Energy

Executive MPP for Leadership in CIP

Cyber Defense Law & Policy

Infrastructure Protection Curricula, Degree Programs, & Professional Development

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IP Education Needs

Existing Education Programs

- Specialist / Technical Expertise of Component Careers of IP Profession

IP Education & Career Development System

- Standards
- Retain knowledge
- Cross-disciplinary ethos

Exec. MPP for Leadership in CIP

George Mason School of Public Policy

Curriculum Concept:

- Governance and Policy Processes
 - **Origins, Evolution, and Stakeholders in CIP Policy in Comparative Perspective**
- Culture, Organization, and Technology
 - **Understanding and Managing Risk in Complex Systems**
- Theory and Practice in Public Policy
 - **Case Studies in Critical Infrastructure Protection**
- Statistical Methods in Policy Analysis
 - **Foundations of Probabilistic Risk Analysis**
- Policy and Program Evaluation
 - **Design and Implementation of Federal, State, Local, and Private Sector Plans**

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Exec. MPP for Leadership in CIP

Curriculum Concept (continued):

- Managerial Economics and Policy Analysis
 - **Benefit-Cost Analyses for CIP**
- U.S. Financial Policy Processes and Procedures
 - **Expenditure and Revenue Systems for CIP**
- Investment and Macroeconomics
 - **Economic Determinants of CI Sector Performance**
- Organizational Development
 - **Building and Managing Intra- and Inter-organizational Teams**
- Principles and Practices in Cyber Security
 - **Law, Technology, and Policy for Sector Preparedness and Response**

IP Curriculum Development

Survey & Assessment

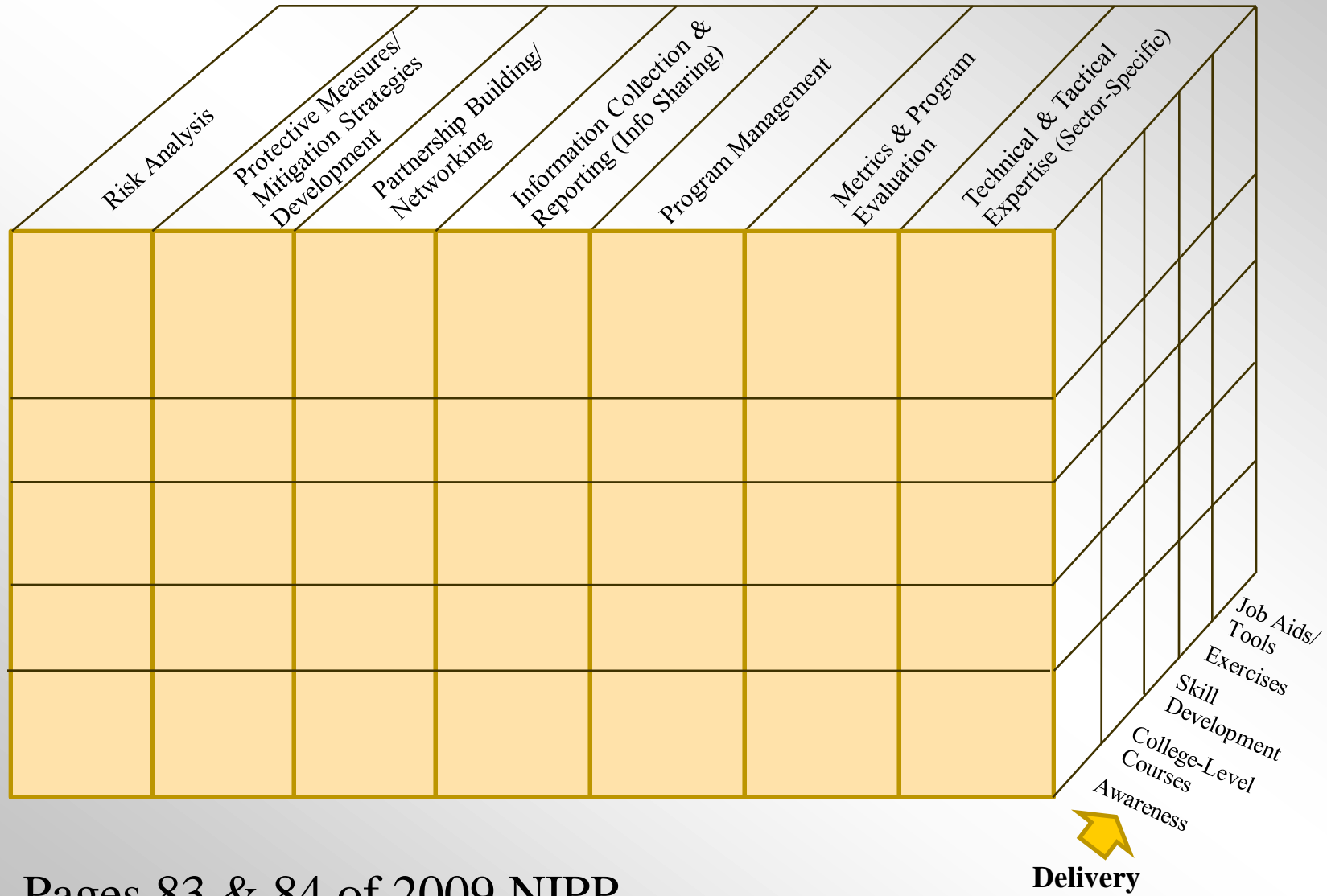
Collaborative Approach

- IP Subject Matter Experts
- Leaders in IP Professions
- Curriculum Development Experts

‘Open-Source’ Model

- Customization
- Continuous Evaluation & Evolution

CIKR Competency Model



IP Career Development Continuum

Paths to Leadership Positions in IP offices and departments

Models used in other agencies & industries

Map training, exercises, and educational programs to IP career development stages

Continuum and Training/Education programs are symbiotic

Center for Infrastructure Protection

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