

NCHRP 20-59 (25)
"SECURITY RESEARCH PLAN"



Dr. Peter J. Haas
Mineta Transportation
Institute
PATH-UTC Conference
Oct. 31, 2007

FEEDBACK WELCOME:

- haas@mti.sjsu.edu
- (408 924 5574)

SCOPE OF PROJECT

- Determine gaps in existing transportation security research
- Identify three-year program of research
- Multi-modal focus

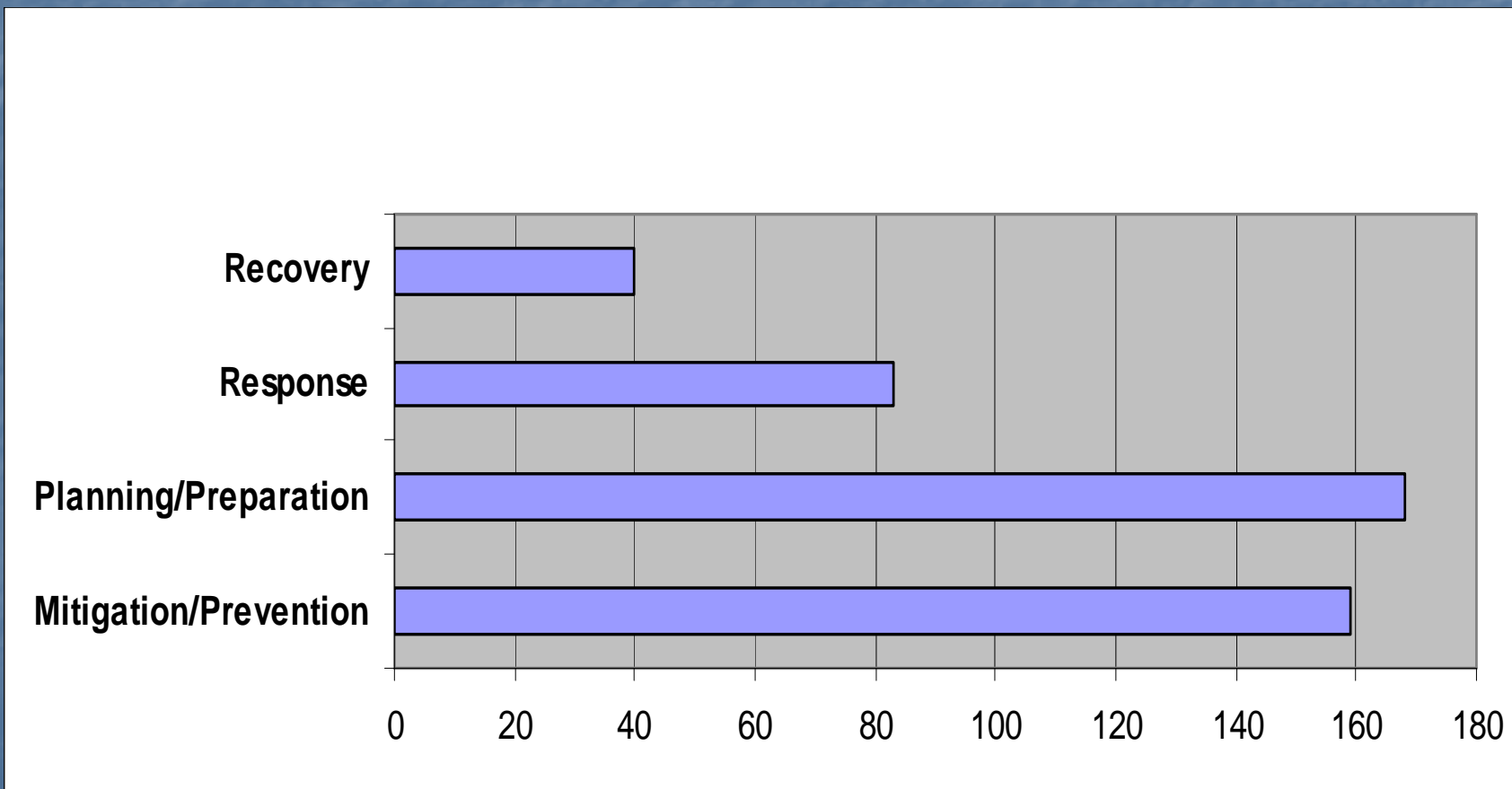
METHODS

- Bibliographic research of over 190 documents
- Bibliographic database analysis
- Examination of research needs identified within existing publications
- Review of survey responses from SDOT security officials
- Collective experience of research team and other experts

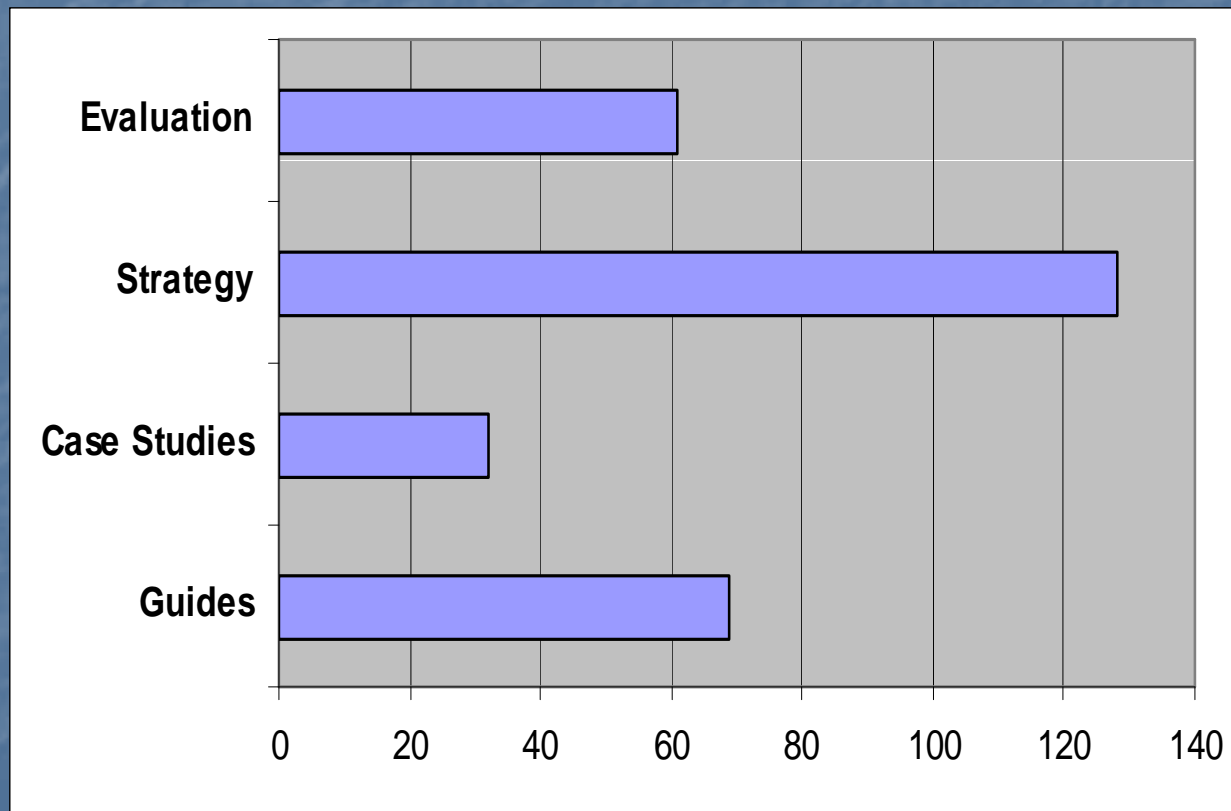
STRATEGIC APPROACH

- Expand and focus scope of security research to include other goals of transportation agencies
- Extract additional value from research beyond enhanced security *per se*

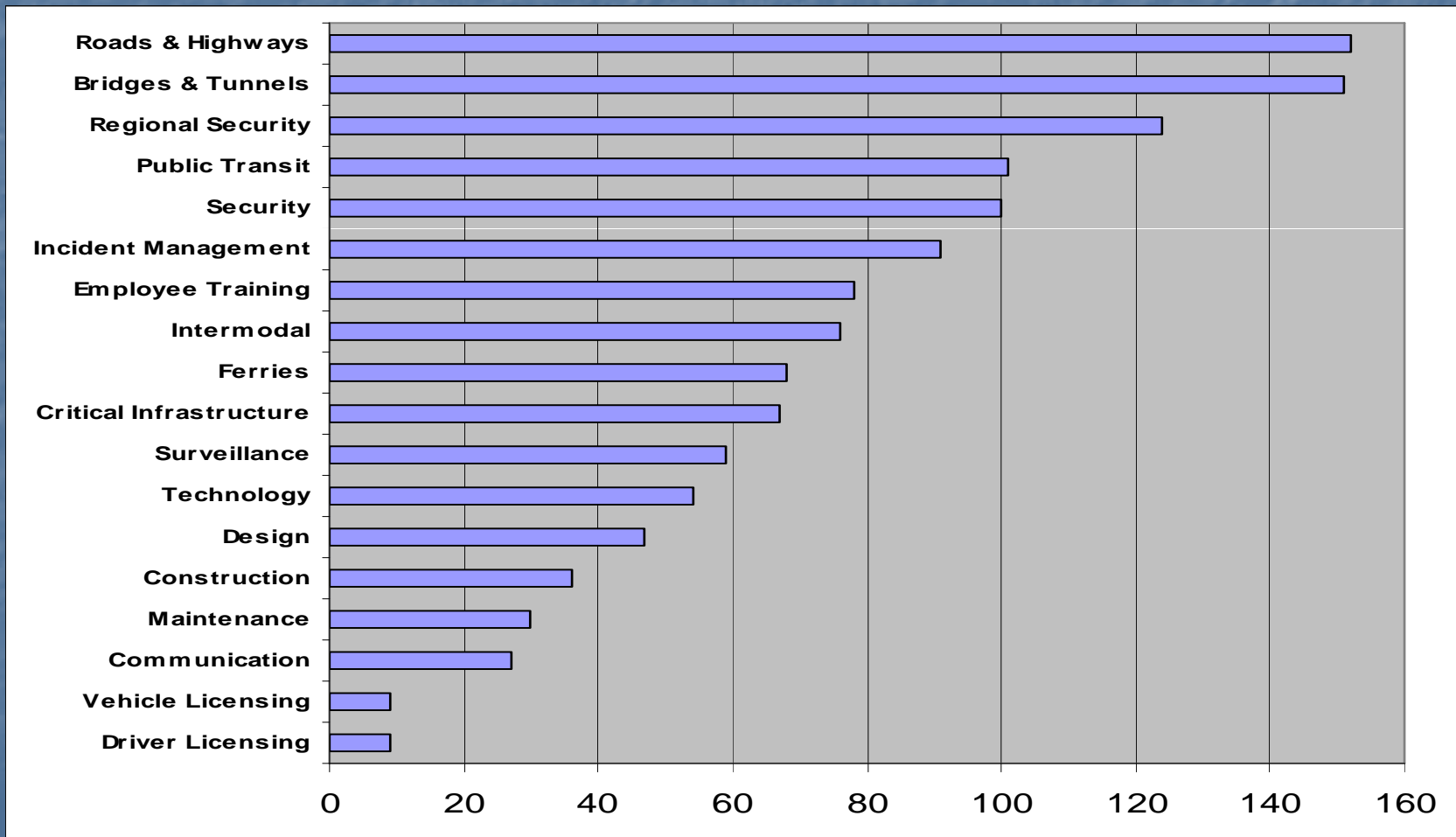
TRANSPORTATION SECURITY RESEARCH PRODUCTS BY EMERGENCY MANAGEMENT PHASE



TRANSPORTATION SECURITY PUBLICATIONS BY TYPE OF RESEARCH PRODUCT



TRANSPORTATION SECURITY RESEARCH PRODUCTS BY SUBSTANTIVE FOCUS



PROPOSED NEW RESEARCH

- Fourteen projects, \$1.9 million
- Address multiple gaps/issues/information needs
- Serve multiple clients/potential sponsors

RESPONSE PROPOSALS

1. The role of transportation in the ICS structure
2. The role of transportation in the NIMS structure
3. Regional transportation disaster response plan template
4. Co-location of emergency operations centers and Intelligent Transportation Centers

RESPONSE PROPOSALS

5. Contraflow as an evacuation strategy
6. Role of transit in evacuation planning and implementation
11. Evaluation of interoperability systems decisions
13. All hazards emergency evacuation guide for SDOTs

MITIGATION/PREVENTION PROPOSALS

7. Goal-oriented security training for SDOT employees
8. Multi-modal activity-based security model for SDOTs / DHS
9. Electronic security threats to ITS
10. Licensing and commercial vehicle registration and security
12. Security guidelines for MPOs in the transportation planning process
14. Access to classified security information by state departments of transportation