



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

TIA

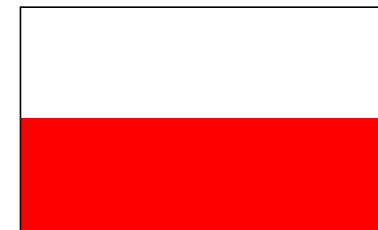
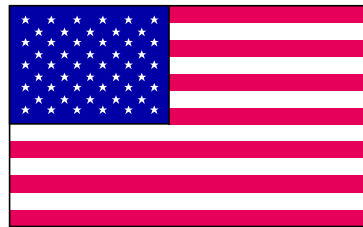
GAMBIT 2008



April 23-25, 2008

How USA Integrates Transport Safety

National Transportation Safety Board (NTSB)



International
Seminar

**GAMBIT
2008**

Frank Cardimen

President

TIA (Oakland County MI USA)

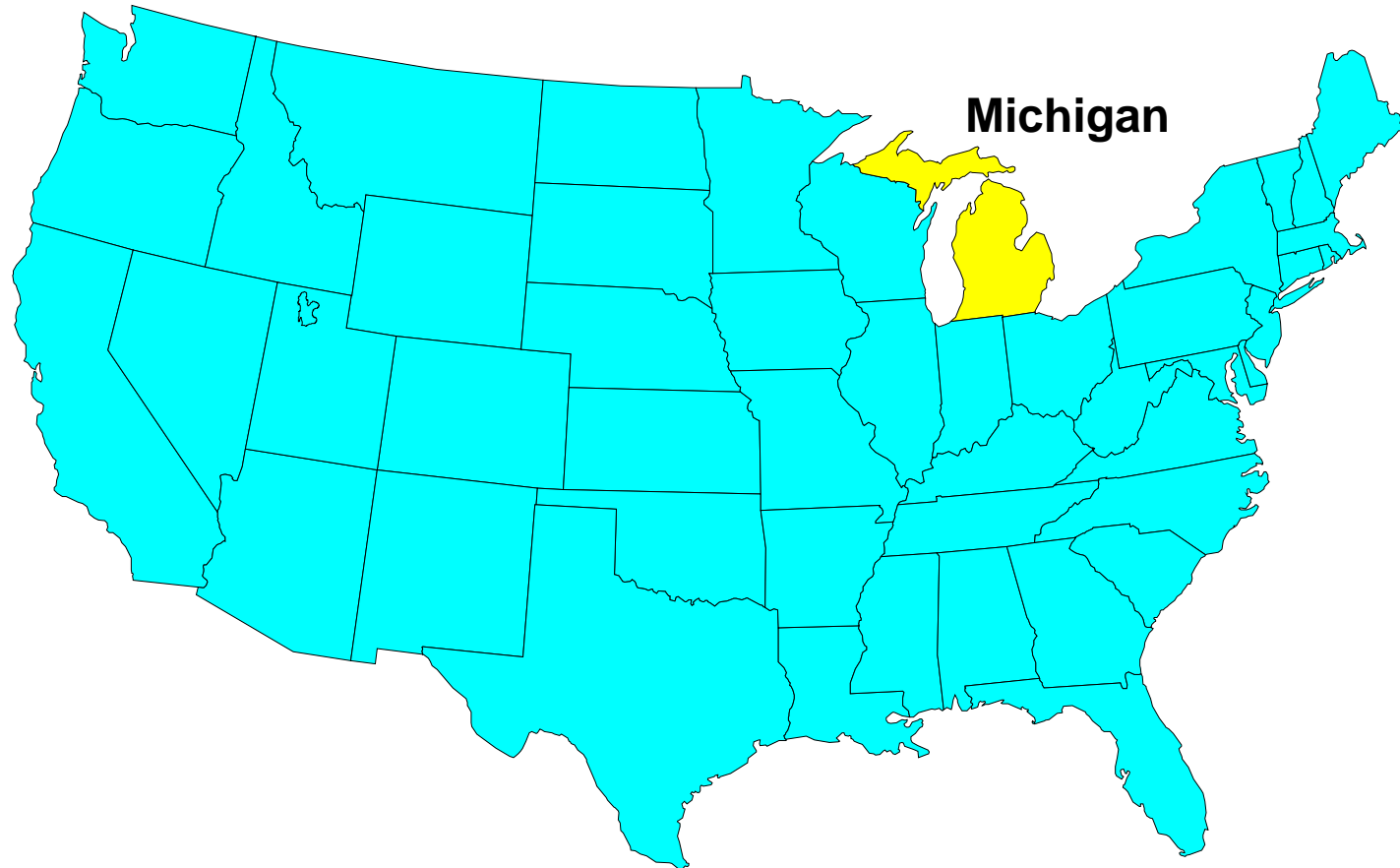


Gdansk
University of Technology



FOUNDATION
BY CIVIL ENGINEERING DEVELOPMENT

USA



International
Seminar

GAMBIT
2008



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

TIA



Oakland
County
Michigan

* Detroit, Michigan

International
Seminar

**GAMBIT
2008**



Gdansk
University of Technology



FOUNDATION
BY CIVIL ENGINEERING DEVELOPMENT

International
Seminar

**GAMBIT
2008**



GAMBIT 2008

Previous TIA GAMBIT Presentations

- 1996** [TIA History](#) - How this public-private partnership of this traffic safety organization effectively functions
- 1998** [NGO's in U.S.](#) - Study of the traffic safety role and successes of a few local, state and national groups.
Focused on: MADD, ITE, TIA
- 2000** [Successful traffic safety projects over past 33 years.](#)
Focused on partnerships with local, state, national agencies AND corporations.
- 2002** [Traffic Crash Data and Road Safety Audits](#)
Focused on how current and accurate crash data could help solve traffic problems and how audits are essential to the continual improvement of traffic safety.
- 2004** [USA Federal Road Safety Program](#)
“Problem is Global....Solution is Local”
- 2006** [Traffic Safety Challenges: Today and Tomorrow](#)



Gdansk
University of Technology



FOUNDATION
BY CIVIL ENGINEERING DEVELOPMENT

International
Seminar

**GAMBIT
2008**

Today's Presentation

How USA Integrates Transport Safety *National Transportation Safety Board (NTSB)*



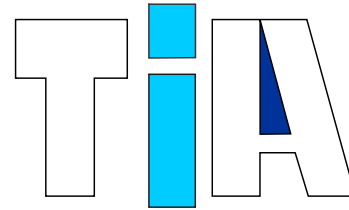
- **TIA Overview**
- **National Transportation Safety Board – What is it?
How does it function?**
- **How does NTSB affect local traffic safety?**



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT



BACKGROUND and HISTORY

- **Began March 20, 1967 - 41 years old**
- **Non-Profit Corporation (501 c. 3)**
- **Public - Private Partnership**
- **Independent**
- **Unique Organization to Michigan, US**

LOCAL SOLUTIONS FOR TRAFFIC SAFETY

International
Seminar

**GAMBIT
2008**



Gdansk
University of Technology

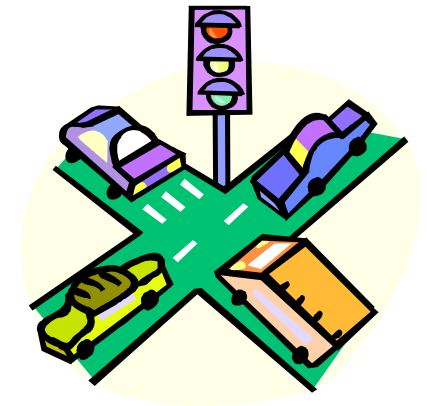
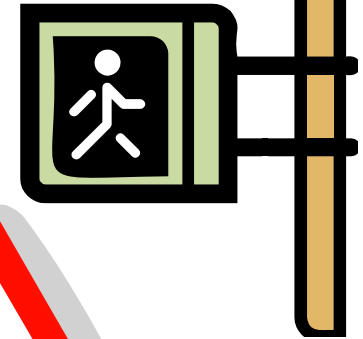
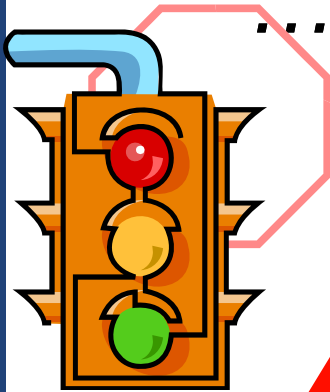


FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

TIA PHILOSOPHY

Traffic Safety is about....people

.....saving lives and reducing injury



International
Seminar

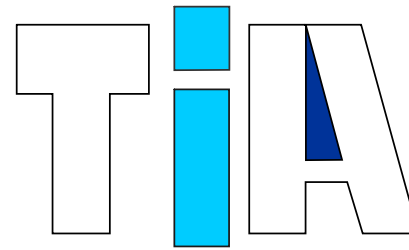
**GAMBIT
2008**



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT



Mission Statement

***Misja Traffic Improvement Association
(Stowarzyszenia Poprawy Ruchu Drogowego)
obejmuje udział w programach budowy dróg,
edukacyjnych i egzekwowania prawa, które
zmniejszają liczbę ofiar i straty gospodarcze
powodowane przez wypadki i natężenie ruchu***

International
Seminar

**GAMBIT
2008**



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

TIA CUSTOMERS

- **70 Communities – Cities, Villages and Townships**
- **50 Law Enforcement Agencies**
- **Road Commission for Oakland County**
- **Oakland County Government**
- **15 District Courts**
- **Oakland County Schools**
- **Businesses and Citizens**
- **Traffic Safety Organizations- OHSP, MDOT, US DOT – NHTSA/FHWA, AAA, ITE, TRB, etc.**

International
Seminar

**GAMBIT
2008**



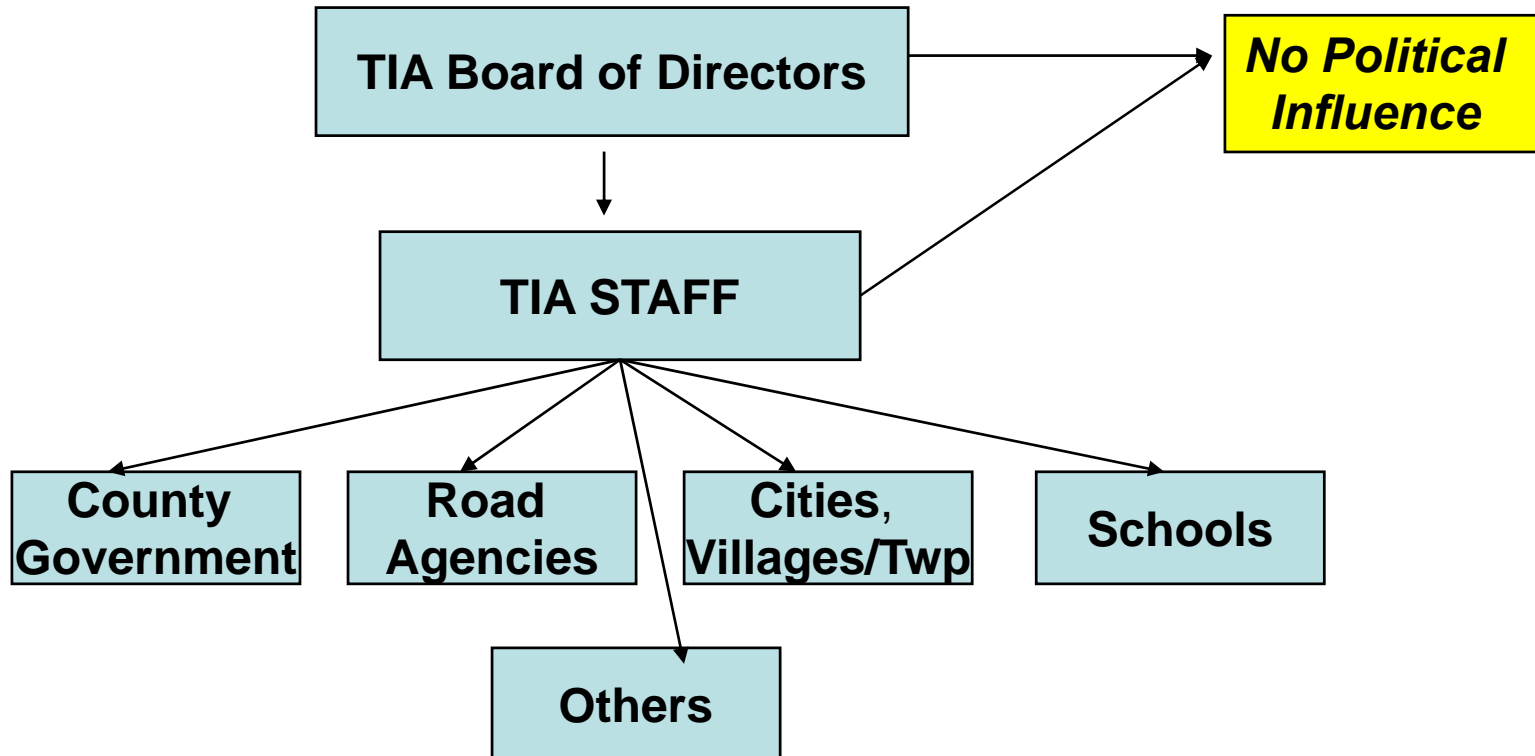
Gdansk
University of Technology



FOUNDATION
BY CIVIL ENGINEERING DEVELOPMENT

TIA Organization

Independent NGO - Corporation



International
Seminar

**GAMBIT
2008**



Gdansk
University of Technology



FOUNDATION
BY CIVIL ENGINEERING DEVELOPMENT

TIA Organization

Funding – 2008

• Local Communities	37%
• Corporate	19%
• Road Agencies - County	18%
• Other State/Federal Agencies	14%
• Crash Data Service	11%
• Miscellaneous	<u>1%</u>
TOTALS	100%

2008 Budget - \$1.4 Million

International
Seminar

**GAMBIT
2008**



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

ROLE OF TIA

INFORMATION BROKER - FOCUSING ON:

3 E's of Traffic Safety

ENFORCEMENT



ENGINEERING

- CRASH DATA ANALYSIS
- TRAFFIC VOLUME
- SPEED STUDIES

EDUCATION

- Early Birds
- Mature Drivers



International
Seminar

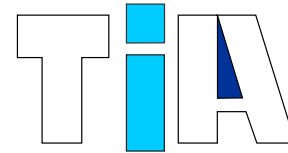
**GAMBIT
2008**



Gdansk
University of Technology



FOUNDATION
BY CIVIL ENGINEERING DEVELOPMENT



OAKLAND COUNTY STATISTICS

	<u>1967</u>	<u>2006</u>	<u>2007</u>
• Population	300,000	1.2 Mil	1.2 Mil
• Number of Jobs	250,400	850,000	70,000
• Vehicle Miles Traveled	3.0 Bil	13.4 Bil	13.7 Bil
• Traffic Fatalities	206	63	49
• Fatality Rate/VMT	6.8	0.43	0.37
• Michigan			1.1
• USA			1.5
• Fatality Rate/100,000 Population			4.1

International
Seminar

GAMBIT
2008



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

International
Seminar

GAMBIT
2008

NTSB National Transportation Safety Board

An independent U.S. Federal Government agency

Improving Transportation Safety: NTSB

How does NTSB avoid accidents through research, investigation and regulatory recommendations:

- How safety can be improved by understanding the common features of accidents
- **How integration of knowledge across transportation modes can enhance effectiveness and efficiency**
- How the accumulation of knowledge about accidents, through investigations and research, can help us to develop better safety policies
- How international cooperation is key in today's world



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

International
Seminar

**GAMBIT
2008**

NTSB National Transportation Safety Board

An independent U.S. Federal Government agency

MISSION

***“.....TO PROMOTE TRANSPORTATION SAFETY
BY:***

- Maintaining our congressionally mandated independence and objectivity;***
- Conducting objective, precise accident investigations and safety studies;***
- Performing fair and objective airman and mariner certification appeals; and***
- Advocating and promoting NTSB safety recommendations.***

And.....to assist victims of transportation accidents and their families. ”



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

International
Seminar

**GAMBIT
2008**

NTSB

National Transportation Safety Board

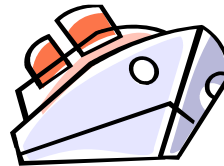
An independent U.S. Federal Government agency

TRANSPORTATION SAFETY

- Aviation



- Marine



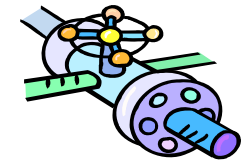
- Highway



- Railroad



Pipeline



Transportation Disaster Assistance

NTSB MOST WANTED

*Transportation Safety
Improvements*



Gdansk
University of Technology



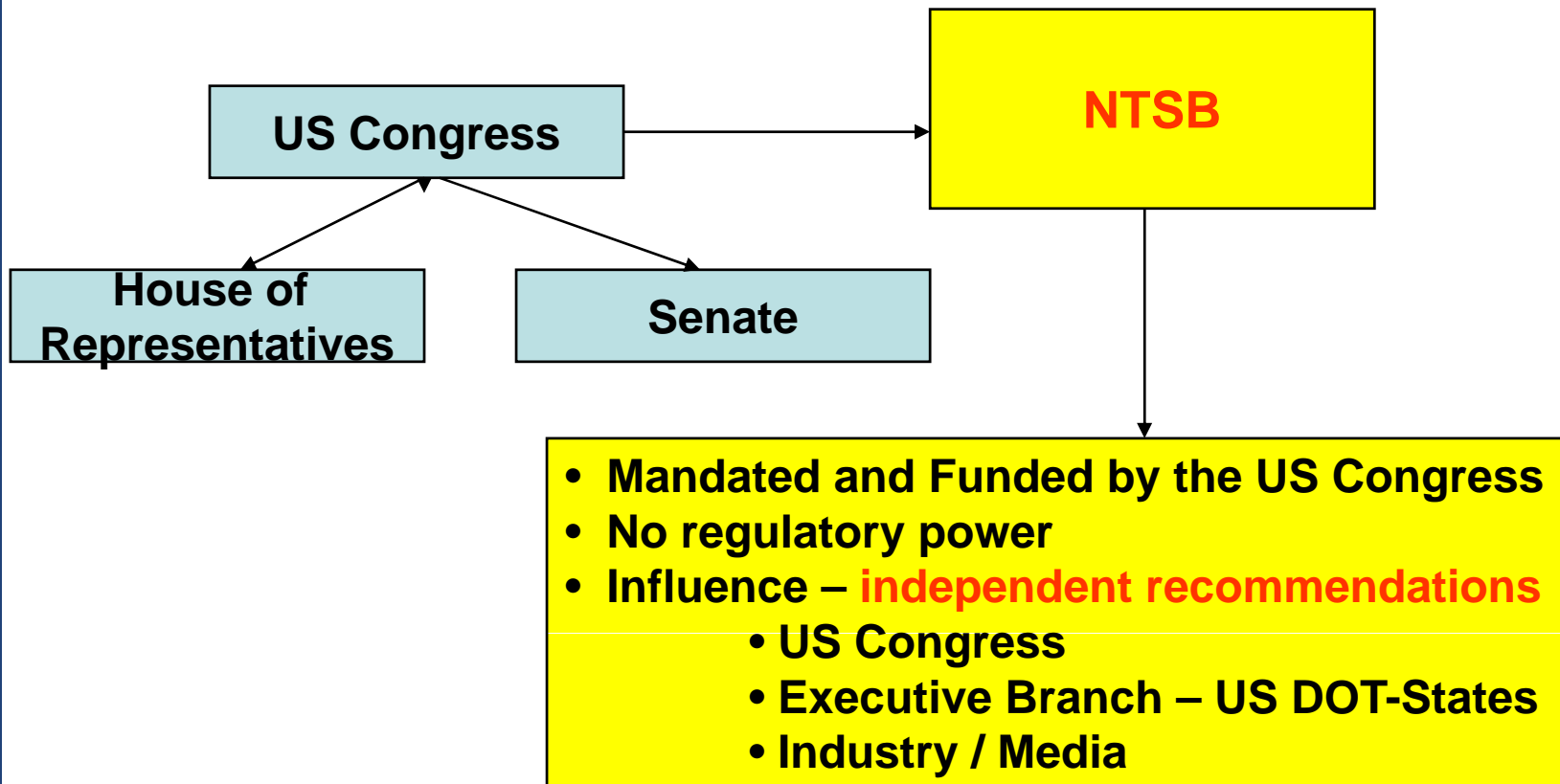
FOUNDATION
BY CIVIL ENGINEERING DEVELOPMENT

NTSB National Transportation Safety Board

An independent U.S. Federal Government agency

** Independent...from political influence*

Government Structure - Legislative



International
Seminar

**GAMBIT
2008**



Gdansk
University of Technology



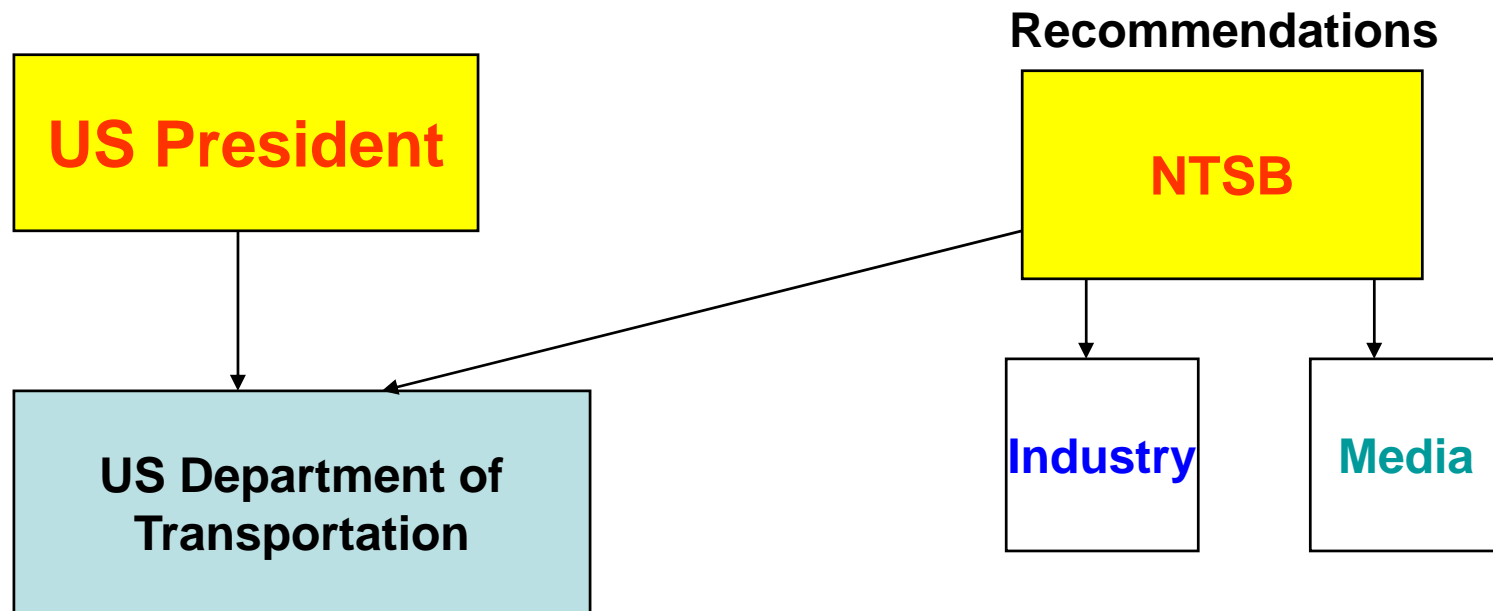
FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

NTSB National Transportation Safety Board

An independent U.S. Federal Government agency

** Independent...from political influence*

Government Structure – Executive Branch



International
Seminar

**GAMBIT
2008**



Gdansk
University of Technology

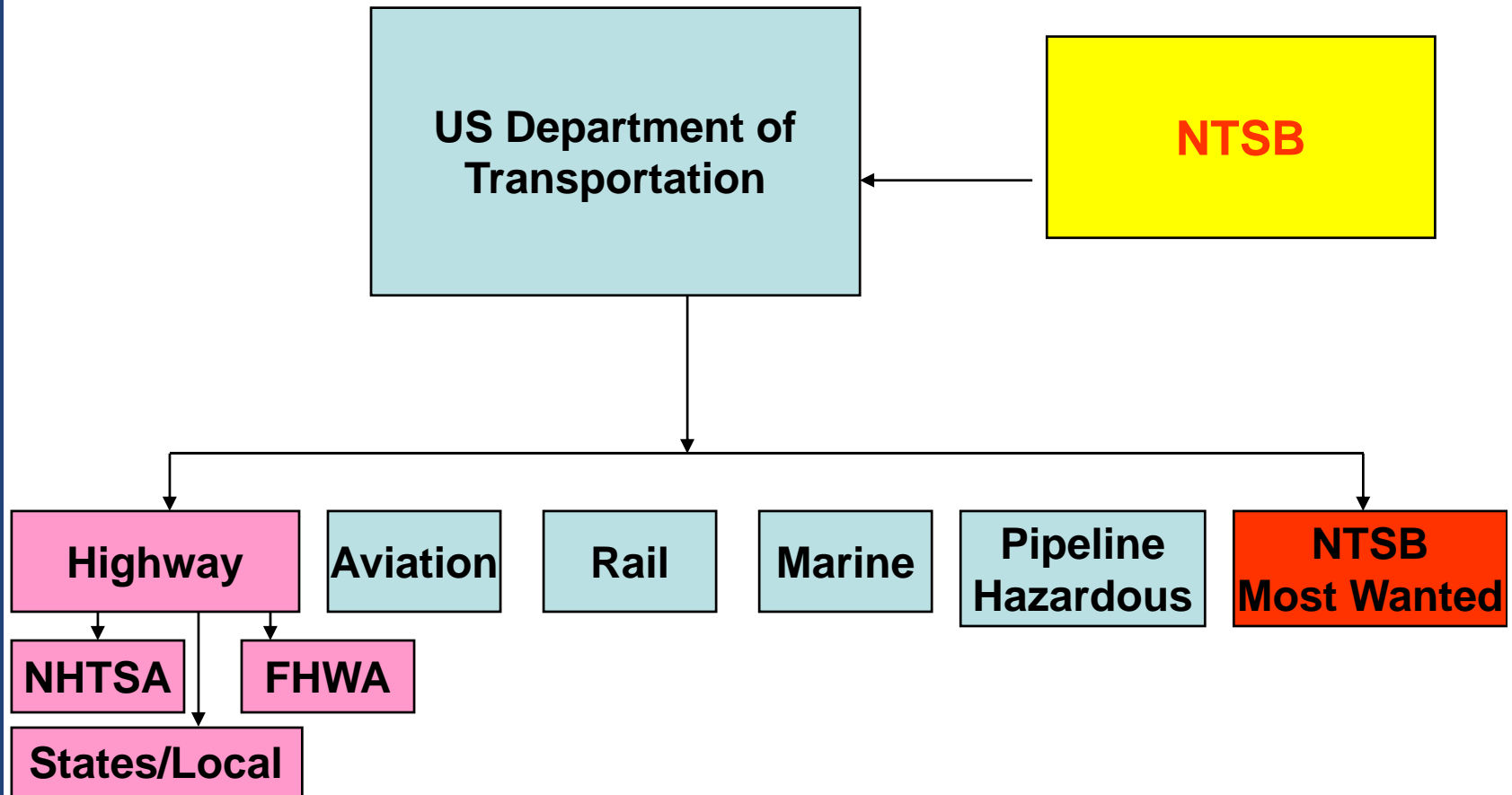


FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

NTSB National Transportation Safety Board

An independent U.S. Federal Government agency

** Independent...from political influence*



International
Seminar

**GAMBIT
2008**



Gdansk University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

International Seminar

GAMBIT 2008



NTSB MOST WANTED

Transportation Safety Improvements

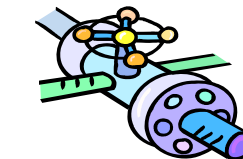
"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."

SAFETY RECOMMENDATIONS

Issued Since 1967

TOTAL = 12,690

- Aviation 37.3%
- Marine 18.3%
- Highway 16.5%
- Railroad 16.4%
- Pipeline 9.7%
- Intermodal 1.8%
- TOTAL 100.0%**





Gdansk
University of Technology



FOUNDATION
BY CIVIL ENGINEERING DEVELOPMENT

International
Seminar

**GAMBIT
2008**



NTSB MOST WANTED

Transportation Safety Improvements

"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."

All Open Recommendations:

- **Aviation** **426**
- **Highway** **278**
- **Railroad** **121**
- **Marine** **68**
- **Pipeline** **31**
- **Intermodal** **22**
- **Total** **946**

9/18/07



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT



NTSB MOST WANTED

Transportation Safety Improvements

"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."

OPEN STATE RECOMMENDATIONS

• Highway	30
• Marine	8
• Aviation	<u>1</u>
Total	39

International
Seminar

**GAMBIT
2008**



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT



NTSB MOST WANTED

Transportation Safety Improvements

"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."

EXISTING LIST

- Improve Child Occupant Protection
- Enact Primary Seat Belt Enforcement
- Promote Youth Highway Safety
- Eliminate Hard Core Drinking Driving
- Improve School Bus/Grade Crossing Safety
- Enhance Recreational Boating Safety

International
Seminar

**GAMBIT
2008**



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

International
Seminar

**GAMBIT
2008**



NTSB MOST WANTED

Transportation Safety Improvements

"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."

Federal Issues Updates, November 2007

Introduction: [PDF](#) (228 KMB) | [PPT](#) (451 KB)

- Improve Runway Safety: [PDF](#) (889 KB) | [PPT](#) (8.61 MB)
- Eliminate Flammable Fuel / Air Vapors in Transport Category Aircraft: [PDF](#) (813 KB) | [PPT](#) (2.63 MB)
- Reduce Dangers to Aircraft Flying in Icing Conditions: [PDF](#) (362 KB) | [PPT](#) (924 KB)
- Improve Crew Resource Management: [PDF](#) (281 KB) | [PPT](#) (8.68 MB)
- Improve Aviation Audio and Data Recorders and Require Cockpit Video Recorders: [PDF](#) (201 KB) | [PPT](#) (2.71 MB)
- Reduce Accidents and Incidents Caused by Human Fatigue: [PDF](#) (125 KB) | [PPT](#) (406 KB)



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

International
Seminar

**GAMBIT
2008**



NTSB MOST WANTED

Transportation Safety Improvements

"... a program to increase the public's awareness of, and support for, action to adopt safety steps that can help prevent accidents and save lives."

cont.

- Implement Positive Train Control Systems: [PDF](#) (256 KB) | [PPT](#) (1.35 MB)
- Improve the Safety of Motor Carrier Operations: [PDF](#) (116 KB) | [PPT](#) (389 KB)
- Prevent Medically Unqualified Drivers from Operating Commercial Vehicles: [PDF](#) (117 KB) | [PPT](#) (426 KB)
- Enhance Protection for Motorcoach Passengers: [PDF](#) (526 KB) | [PPT](#) (1.84 MB)
- Enhance Protection for School Bus Passengers: [PDF](#) (115 KB) | [PPT](#) (420 KB)
- Prevent Collisions with Enhanced Vehicle Safety Technology: [PDF](#) (116 KB) | [PPT](#) (420 KB)
- Conclusion [PDF](#) (114 KB) | [PPT](#) (383 KB)

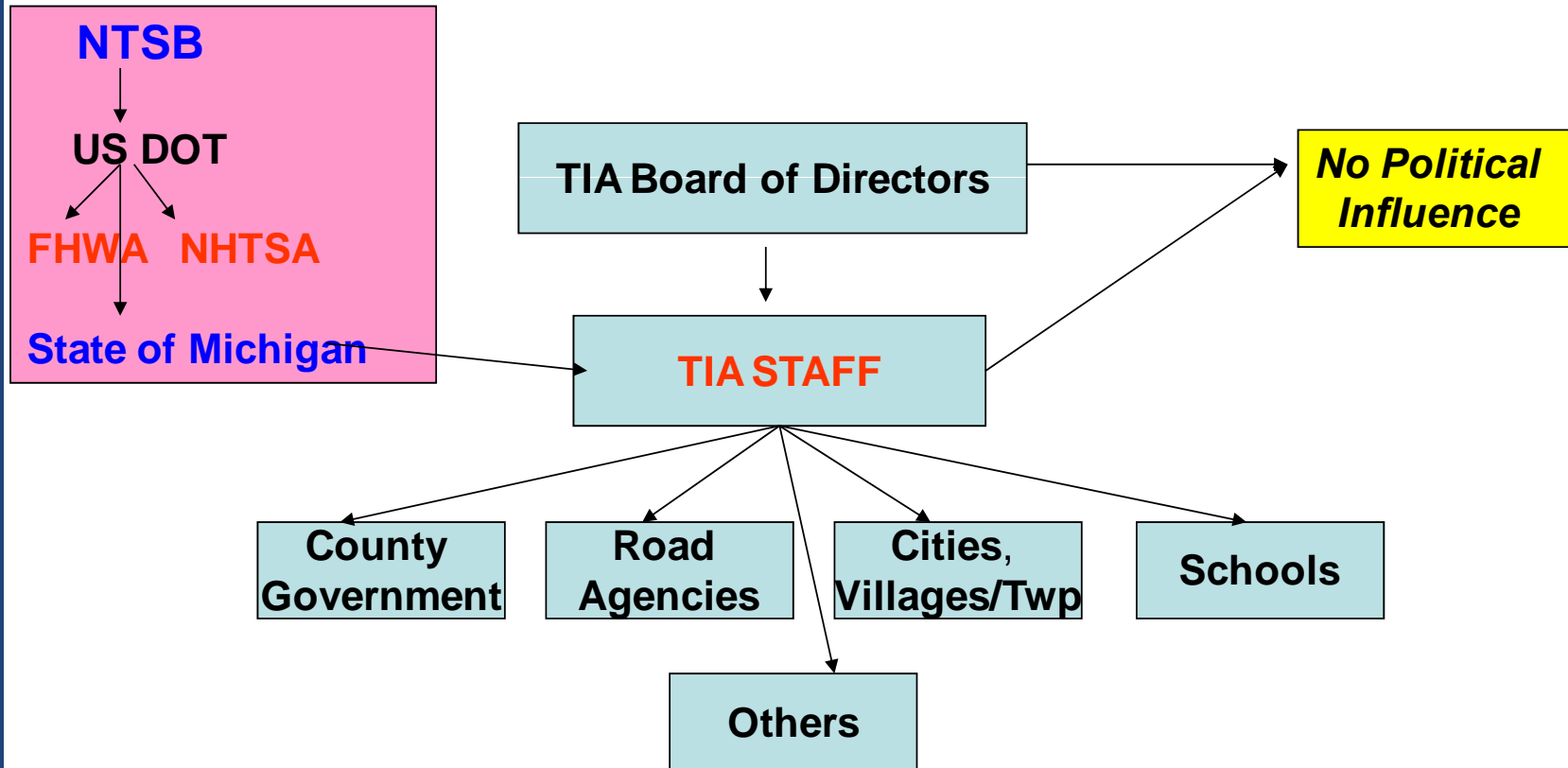


Gdansk
University of Technology



FOUNDATION
BY CIVIL ENGINEERING DEVELOPMENT

US Integrated Strategies – Federal to Local



NTSB – National Transportation Safety Board

International
Seminar

GAMBIT
2008



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT

International
Seminar

**GAMBIT
2008**

NTSB National Transportation Safety Board

An independent U.S. Federal Government agency

- **NTSB Strategic Plan for FY 2007 - 2012**
- http://www.nts.gov/Abt_NTSB/Strategic-Plan_2007-2012.pdf
Documents provided to GAMBIT
- **Performance and Accountability Reports:**
http://www.nts.gov/Abt_NTSB/plans.htm
- **Most Wanted Transportation Safety Improvements**
– *Documents provided to GAMBIT*
- **Lessons Learned and Lives Saved 1967-2007 – Information Technology Strategic Plan - FY 2007-2012** – *Documents provided to GAMBIT*

http://www.nts.gov/Abt_NTSB/site_policies/gpra.htm



Gdansk
University of Technology



FOUNDATION
for CIVIL ENGINEERING DEVELOPMENT



GAMBIT 2008

and the

ZEUS Project

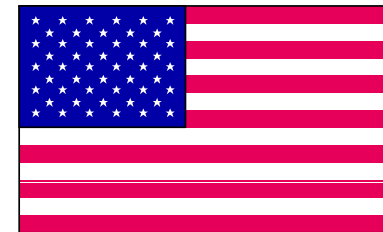
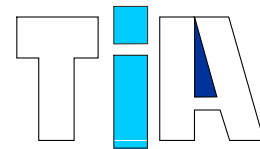


BEST WISHES

FOR CONTINUED SUCCESS



FROM



AND FRIENDS IN THE U.S.A.

International
Seminar

**GAMBIT
2008**

