A PEER-TO-PEER TRAFFIC SAFETY PROGRAM FOR AMERICA'S YOUTH



















Outline of Presentation

- Brief overview of TTI
- The top risks for young drivers
- TDS Program history, funding and status
- Does the program seem to be working?
- Program characteristics/best practices and resources















Texas A&M Transportation Institute

- Established in 1950
- 10 statewide office locations (Texas)
- Work throughout the U.S.
- 2 international offices
- 9 research centers of excellence

- Approx. 700 staff
- 30 % of which are grad/undergrad students involved in research projects & tech support
- FY 2013 operating budget: \$62.4 M















TOO MANY YOUNG PEOPLE ARE DYING

- Motor vehicle crashes are the #1 cause of injury and death for youth in America
- About 3,500 teens per year are killed in traffic crashes in the U.S. and nearly 500,000 are injured

(Source: NHTSA, Traffic Safety Facts, 2010)

















Highest Risks for Teen Drivers

Driver inexperience, coupled with the following situations / conditions:

- 1. Driving at night / tired
- 2. Speeding and street racing
- 3. Distractions, such as cell phones/texting and other teen passengers
- 4. Low seat belt use
- 5. Driving under the influence of alcohol and/or drugs

(Source: National Safety Council, 2007)









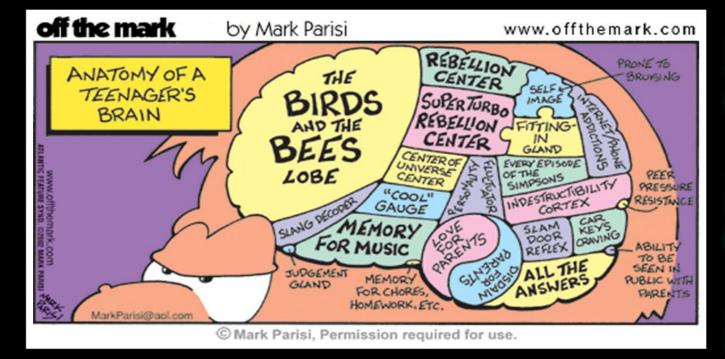






AdoLescence











Drug Prevention Resources, Inc.















The Teen Brain

Development TimeLine movement judgement memory coordination See "What Makes Teens The brain develops Tick?" by Claudia Wallis in from back to front. Time Magazine, May 10, 2004 **Drug Prevention Resources, Inc.**















The Science of Brain Development

Frontal lobe (prefrontal cortex) responsible for:

- Executive decision making
- Impulse control
- Overriding/suppressing unacceptable social responses
- Frontal lobe does not fully mature until age 25
- Teens are at a very real, fundamental disadvantage



















- Teens need more sleep
- National Sleep Foundation recommends 9.25 hours

Source: National Sleep Foundation, 2008

- Average teen in U.S. is getting6.9 hours
- Average teen driving at 11 p.m. is impacted (by fatigue) the same as if they were drunk.

Source: "Asleep at the Wheel", Sleep Review Magazine, Drobrich and Rancourt, October 2007











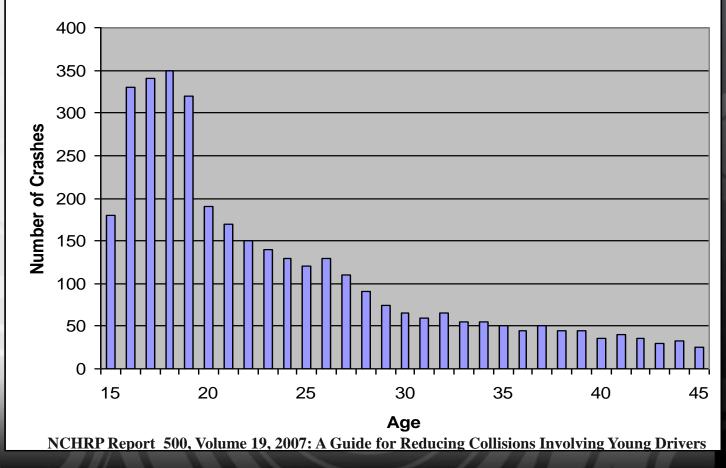








Distribution of Driver "Fall Asleep" Crashes by Age

















Teen Driver Fatigue

 55% of all sleep related crashes involve drivers 25 years and under

Source: DrowsyDriving.org, 2008

- 30% of teens report they fall asleep in class at least once per week
- In 2006, more than half of teens admit to of driven drowsy.

Source: National Sleep Foundation, *Sleep in America poll*, 2006, drowsydriving.org, 2008)













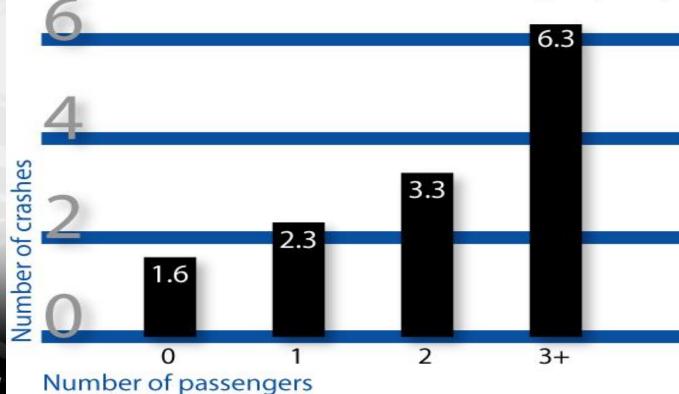




Impact of Teen Passengers on Teen Drivers

Crash Rates by Passengers

ages 16-17, per 10,000 trips Source: Insurance Institute for Highway Safety

















Cell phones & Texting

- Drivers talking on a cell are 4 times more likely to be in a crash; no difference if handsfree (Source: New England Journal of Medicine)
- Texting is the new DWI -"intexticated"
- Drivers who text are 23 times more likely to be involved in a crash (Source: Cohen & Graham, 2003)
- Texting impacts all three of the primary driving function needs: cognitive, manual and visual – described as "the perfect storm"

















Speeding

• Accelerating from 30 mph to 60 mph <u>quadruples</u> the distance needed to stop.



• When teens drive with other teen passengers, they tend to drive faster. (National Institute Health and Westat)











Speeding

- Male drivers are more likely than those of female drivers to be involved in a **fatal crash** that is speed-related. (NHTSA 2008)
- In 2008 **24**% of all male drivers involved in fatal crashes were speeding at the time of the crash, compared to **15**% of all female drivers.(NHTSA 2008)











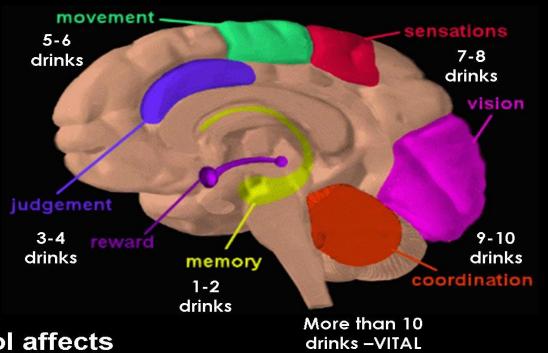






Impact of Alcohol on Teen Brain

Development TimeLine



Alcohol affects the brain from front to back.

CENTERS















Program Catalyst: Series of Crashes in 2001 in San Antonio, Texas

- 10 teen deaths in 6-week span
- Four separate crashes
- Knee-jerk reaction was need for more/stricter laws; teens were stupid & probably drunk
- Alcohol was not involved in any of the crashes
- Evidence that peer-to-peer influence had been effective for reducing smoking & teen pregnancy















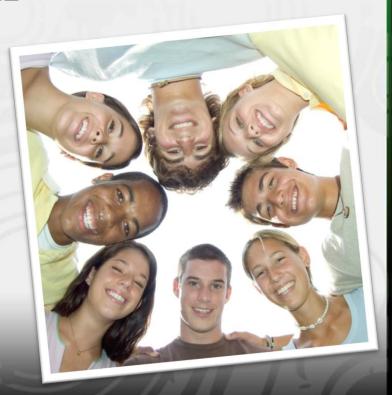
INVOLVING TEENS IS CRITICAL

"Tell me something, and I'll forget.

Show me something, and I may remember it.

Involve me, and I'll understand."

Chinese Proverb

















A PEER-TO-PEER PROGRAM: ACTIVE ELEMENTS

- High school (since 2002)
- Junior High (added in 2010)
- University (added in 2012)





















REACH

- 600+ high schools and 500,000+ teens to date
- Also active in CA, CT, GA,
 NC, NE & MT













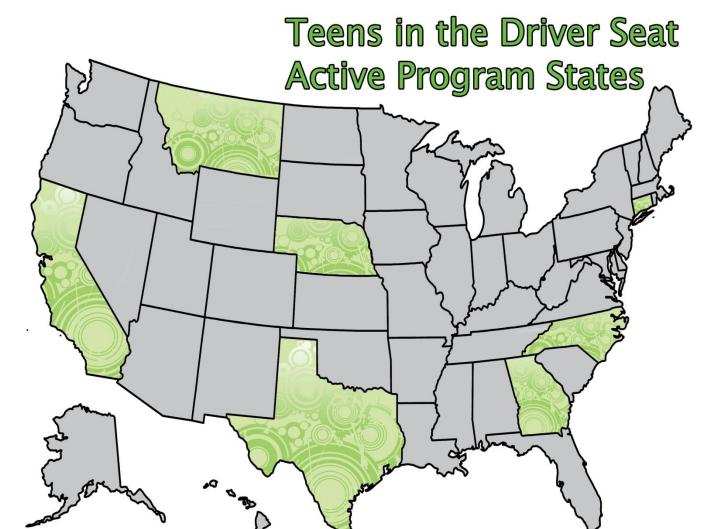
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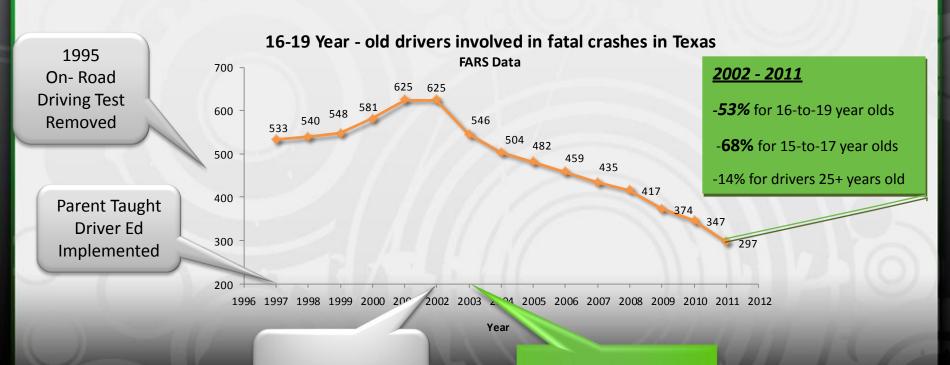








TEEN TRAFFIC FATALITY TRENDS / BENCHMARKS IN TEXAS



GDL Implemented

Teens in the Driver Seat® Implemented















Rigorous Statistical Analysis

- Detailed comparison group analysis, selected to control external causal factors and maturation problems
- Outcome is unbiased estimate of safety impacts of the (TDS Program) treatment and its variance
- Analysis done at county level for crashes involving injuries and fatalities (combined); 10 counties "with" vs. 10 counties "without"
- Results
 - TDS producing average crash reduction of 14.6%
 - Statistically significant at the 99.9% level
 - 95% confidence interval of 6.4% to 23.0% reduction in crashes

















Recent Press Release by GHSA

- Preliminary data for first half of 2012 show
 - General trend of national decrease in fatal teen crashes is over
 - Average increase of 19 % in fatal crashes involving teens age 15-17
- Handful of states still showing continued decline
 - Texas & Georgia are two of those states (10+ % decrease)
 - Texas & Georgia have large, long-standing footprint of TDS Program

















National Safety Council

TDS Awards



- Governors Highway Safety Association, Peter O'Rourke Safety Award
- ITE Transportation Achievement Award for Safety
- 6 major national awards in last 6 years
- Identified as "national best practice for safety", 4 years in a row



















Best Practices for the TDS Program

- Variety of resources to leverage (not prescriptive)
- Addresses all top risks (not just one)
- Facilitate and encourage ongoing outreach (e.g., activity calendar/planner, TDS Cup)
- Provide incentives: TDS Cup, annual contest, teachersponsor support kit, Teen Advisory Board
- Establish relationships with student organizations & partners
- Media events

















TEENS IN THE DRIVER SEAT® TOOLS

- Web site: t-driver.com
- Team t-shirts
- Logos, artwork
- Downloadable posters
- How-to guide
- Educational items
- Activity ideas / resources

















T-DRIVER.COM

- Safe driving articles, stats, and facts
- Contests and Events
- Team Pages
- Downloadable videos, posters and media
- Activity ideas
- Order Forms
- Testimonials, stories

















Safe Driving Pledge

I Pledge to be a safer driver.



Use promo items to remind friends of pledge















Partnering with Student Organizations

- Connect with FCCLA, Student Council and/or others organizations
- Participate in their regional/statewide meetings





















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