

# NDSU Upper Great Plains Transportation Institute 2015-2017 Budget Request

Presented to the  
Senate Appropriations Committee  
64th North Dakota Legislative Assembly

# UGPTI Budget Base per Engrossed HB 1020

2013-15 adjusted general fund appropriation	\$4,076,824
<i>Less 2013-15 one-time appropriation</i>	<i>(\$1,250,000)</i>
2013-15 base general fund appropriation	\$2,826,824
<i>House amendments to base funding</i>	
Cost to continue FY2015 salary & retirement incr.	\$28,306
Comp. package (3%/year) + health insurance incr.	\$157,187
Increase to match federal grants	\$300,548
Subtotal: base funding adjustments	\$486,041
<b>General fund base approp. per engrossed HB 1020</b>	<b>\$3,312,865</b>
<i>Adjustments for one-time funding</i>	
Continuation of road study	\$1,250,000
Total House amendments to general fund	\$1,736,041
<b>General fund per engrossed HB 1020</b>	<b>\$4,562,865</b>

# UGPTI 2015-17 Budget Requests

## *Base Funding Initiatives*

Transportation Infrastructure and Safety	\$2,738,000
Energy Logistics and Transportation	\$747,500
Air Services Planning	\$651,500
Transportation & Log. Workforce Dev.	\$265,000
Total Requested Base Increase	\$4,402,000

## *One-Time Funding Initiatives*

Transportation Security	\$398,000
Total Requested Increase	\$4,800,000

# 1. Transportation Infrastructure & Safety

**Purpose:** establish permanent programs in

- a. County, township, and tribal road planning
  - Traffic forecasting
  - Road and bridge investment analysis
  - Biennial reports to legislature
- b. Road asset management/maintenance
- c. Short-line infrastructure
- d. Transportation safety (highway/motor carrier, rail)

# 1(a). Road and Bridge Planning

- **Key objectives/outcomes**
  1. Comprehensive road database
  2. Biennial data updates {truck traffic counts statewide, paved road conditions, unpaved road maintenance/practices}
  3. Truck traffic forecasts for major products
  4. Predicted traffic flows on major county/local roads
  5. Provision of traffic and road data to counties
  6. Biennial reports to legislature
- **Funded in the past by one-time appropriation**

# 1(b). Road Asset Management

- Focus on **preserving** and **maintaining** roads
- Optimizing capital investments
- Development of methods and tools for local agencies (web-based, through NDLTAP)
- Use traffic counts and forecasts from 1(a)
- GIS mapping tools and linear referencing
- Near-term and long-term maintenance plans

# 1(c). Transportation Safety

- Context: Elevated traffic levels/hazmat
- Transportation Safety Advisory Committee (incl. NDDOT, NDES, NDHP, NDPSC, FHWA, PHMSA, FRA, FCMSA)
- Primary focus:
  - Highway and motor carrier safety
  - Railroad safety
    - Rail/highway grade crossings
  - Pipeline safety

# 1(c)i: Highway/Motor Carrier Safety

- Context: High traffic on 2-lane rural roads
- Strategies
  1. Leverage FCMSA database/partnership
  2. Work with TCSA, NDMCA, local gov.
- Focus areas
  - Causes of crashes and potential mitigation strategies
  - High risk rural road segments
  - Enforcement strategies
  - Emergency response planning
  - Technology applications



## 1(c)ii: Railroad Safety

- Research and technical assistance
- Respond to requests from TSAC
- Work with FRA, NDDOT, NDPSC
- Potential research focus areas:
  - Derailment risks
  - Risks associated with hazmat movements
  - Emergency response
  - Grade crossing {traffic, risks, cost-effectiveness of safety enhancements}
  - Automated track inspection/assessment

## 2. Energy Transportation & Logistics

- Provide **comprehensive** and **objective** information on transportation of energy-related commodities [crude oil, inputs, biofuels]
- Identify economic transportation options and transportation/logistical constraints
- Focus: midstream and downstream logistics channels
- Model shipments around the United States
- Supply and demand point competition
- Route options: capacities and costs

# 3. Air Services

- Partner with NDAC, UND Aerospace Center, and industry
- Potential focus areas
  - Infrastructure and capital needs
  - Monitoring of pavement deterioration
  - Forecasting service demands at general aviation airports
  - New navigation technologies “next-gen”
  - Collaboration with UND on UAS applications

# UGPTI Priority Requests

- Eliminate study request in HB 1020 re. potential move of UGPTI under NDDOT
- Minimum requests
  - Base funding of \$1,250,000 for road and bridge study (instead of one-time funding)
  - Base funding of \$500,000 for railroad and motor carrier safety
- Approval of budget for federal and other funds and FTE



# Thank you!

## Questions?